

US Army Corps
of Engineers
Baltimore District

FINAL ENVIRONMENTAL BASELINE SURVEY

SITE M Fort Meade, Maryland



May 2004

prepared for
National Security Agency
Fort Meade, Maryland 20755

prepared by
U.S. Army Corps of Engineers
Baltimore District
P.O. Box 1715
Baltimore, MD 21203

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Baltimore District
P.O. Box 1715
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and

**Berger/EA
2300 N Street, NW
Washington, DC 20037**

May 2004

EXECUTIVE SUMMARY

In support of tenant requirements, Ft. George G. Meade (Ft. Meade) is investigating the possible development of the Fort Meade golf course, identified as “Site M”, and located along O’Brien Road. In conjunction with this proposed development, the U.S. Army Corps of Engineers (USACE), Baltimore District was authorized by the NSA to conduct an Environmental Baseline Survey (EBS) for Site M. Site M contains approximately 460 acres and it is largely occupied by two golf courses (36 holes) currently operated by the U.S. Army. Site M is bounded by O’Brien Road to the west, Mapes Road to the south, Cooper Avenue to the east, and Rockenbach Road to the north. It should be noted that approximately 25 acres of the 460 acres located along O’Brien Road (currently occupied by NSA – 5 acres, and the Army – 20 acres) are excluded from the acreage evaluated for reuse as part of this EBS. The site is hereafter referred to as “Site M”, “subject site”, or the “Ft. Meade Golf Course.”

The purpose of this EBS is to classify discrete areas of real property associated with the site, subject to transfer or lease, into one of the seven standard Environmental Condition of Property (ECOP) area types as defined by Community Environmental Response Facilitation Act (CERFA) guidance, the Department of Defense (DOD) *BRAC Cleanup Plan (BCP) Guidebook* (DOD 1995/1996), and the FY 97 Defense Authorization Act. This is achieved by identifying, characterizing, and documenting the release or likely release of hazardous substances or petroleum products associated with the past and current use of the site. Releases at properties adjacent to the site that could affect the environmental condition of the subject site are also identified, characterized, and documented. Additionally, areas containing or suspected of containing non-Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) contamination substances (e.g., asbestos, lead-based paint) that may limit or preclude the transfer or lease of the property for unrestricted use are delineated separately as “qualified.” It should be noted that this EBS investigation is not a BRAC action. However, BRAC guidelines are being used as best practice guidance in order to document the conditions at the subject site.

The seven standard ECOP categories are presented in EBS Section 1.3, Table 1-1. Areas that are designated as Category 1, 2, 3, or 4 are suitable for transfer or lease, subject to the consideration of any qualifiers. Areas that are designated as Category 5, 6, or 7 are generally not suitable for transfer, but can be leased with proper restrictions in place. It is noted that Category 5, 6, and 7 parcels may be transferred from one Federal agency to another Federal agency, provided that (1) cleanup can continue and (2) use restrictions ensure that the intended reuse of the property will not pose unacceptable risk to human health and the environment.

Site M was acquired by the DOD in 1919/1920 and used for housing, training and recreational purposes over the years. Several buildings constructed on the central or eastern part of the site have been removed and most of the site has functioned as a golf course since the late 1930s/early 1940s. Two areas of buildings remain at Site M: the current maintenance area (which exists in the same area in which it was originally constructed), and the club house area (which was relocated in the early 1990s). Most of the site has been developed into the two existing golf courses (Applewood and Parks), with the remainder of the site consisting of wooded areas (mainly to the west and north) and areas of mixed vegetation and trees that separate the different courses and holes. Approximately 25 acres of the 460 acres along O’Brien Road were not

addressed as part of this EBS. Site M is bordered by NSA operations to the west, Ft. Meade housing areas to the north and east, and Ft. Meade operational offices to the south.

In order to prepare the EBS Report, USACE reviewed existing documents including: Federal, state, and local government records; topographic maps; and aerial photographs. A site visit was conducted in November 2003 that included visual inspections of Site M. Interviews with personnel having knowledge of the subject site were also conducted. A limited site investigation (SI), including soil and groundwater sampling, was undertaken as part of the EBS.

Based on the results of the historical record review, visual site inspection, database searches and personal interviews, Site M was categorized into seven standard ECOP area types. The survey and parcelization of the subject site identified 10 parcels based on the ECOP. Parcels 1 through 9 (approximately 108.429 acres) were designated as Category 7 because further evaluation is required to assess whether release or disposal of hazardous substances has occurred at these parcels. Parcel 10 (approximately 327.458 acres) was designated as Category 1 because no documented evidence of release or disposal of hazardous substances or petroleum products was located, nor is there evidence of migration of hazardous substances or petroleum products from adjacent properties.

Although past pesticide and herbicide usage was reportedly conducted in accordance with manufacturers' specifications, it is noted that the results of soil sampling analysis indicate pesticide concentrations exceeding the Maryland residential soil cleanup standards and protection of groundwater soil standard in Parcel 10. Based on the proposed future use of the property as a business center and the fact that the proposed facility will be connected to public water and sewer, past pesticide/herbicide use is not likely to have an adverse impact on future use of the subject property. This past pesticide use should not impact property transfer; however, a qualifying statement should be added to the Finding of Suitability to Lease (FOSL) or Finding of Suitability to Transfer (FOST) to indicate that soil and groundwater should be evaluated to determine pesticide and herbicide levels if the future use of the site changes (i.e., if future groundwater or residential use is planned).

It is also noted that property qualifiers were applied to two areas. Parcel 8 was qualified for unexploded ordnance (UXO) based on the past use of the property, and Parcel 3 was qualified for lead-based paint (LBP) (Buildings 8860 and 8880). Use restrictions may have to be included in the lease or transfer documents for these areas.

Typically, parcels that are designated as Category 1, 2, 3, or 4 are suitable for transfer or lease, subject to consideration of the non-CERCLA qualifiers, but parcels that are designated 5, 6, or 7 are not transferable. However, since this is an agency-to-agency transfer, property identified as Category 5, 6, and 7 can potentially be transferred. As a condition of the transfer, a statement must be included in the transfer documents indicating that "the property contains some level of contamination by hazardous substances or petroleum products, but the property can be transferred for the proposed use, with the specified use restrictions, with acceptable risk to human health and the environment and without interference with the environmental restoration process." Providing the agencies concur on the future use restrictions and adequate language is included in the transfer documents, the entire site (approximately 435 acres) may be considered suitable for transfer or lease.

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Acronyms and Abbreviations

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1.0 INTRODUCTION

In support of tenant requirements, Ft. George G. Meade (Ft. Meade) is investigating the possible development of the Fort Meade golf course, identified as “Site M”, and located along O’Brien Road. In conjunction with this proposed development, the U.S. Army Corps of Engineers (USACE), Baltimore District was authorized by the NSA to conduct an Environmental Baseline Survey (EBS) for Site M. Site M contains approximately 460 acres and it is largely occupied by two golf courses (36 holes) currently operated by the U.S. Army. Site M is bounded by O’Brien Road to the west, Mapes Road to the south, Cooper Avenue to the east, and Rockenbach Road to the north. It should be noted that approximately 25 acres of the 460 acres located along O’Brien Road (currently occupied by NSA – 5 acres, and the Army – 20 acres) are excluded from the acreage evaluated for reuse as part of this EBS. The site is hereafter referred to as “Site M”, “subject site”, or the “Ft. Meade Golf Course” (Figures 1-1 and 1-2).

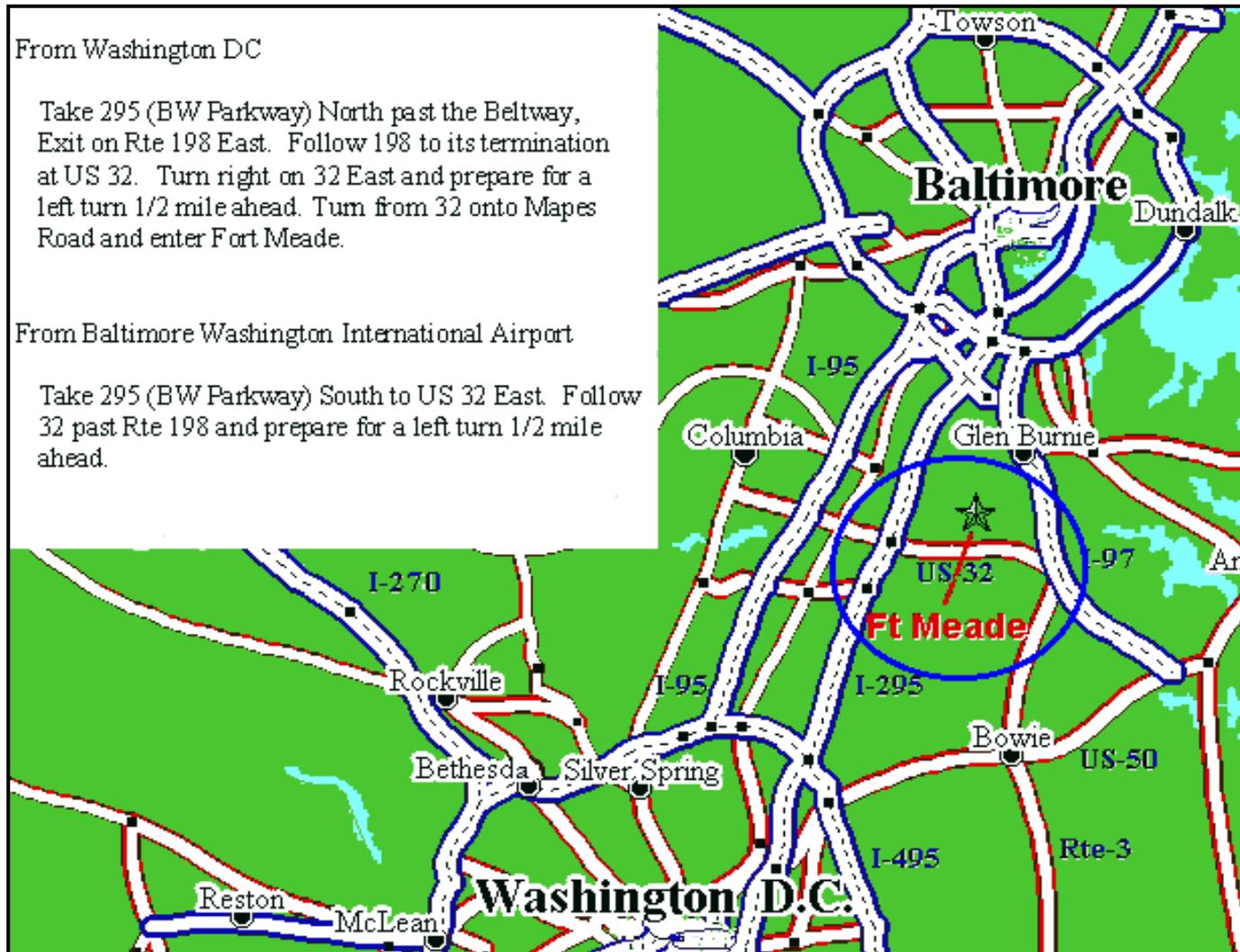
This EBS report for the Ft. Meade Golf Course was prepared by the USACE and Berger/EA in accordance with responsibility and policy guidance in *Army Regulation (AR) 200-1, Environmental Protection and Enhancement*, paragraph 15-5, Real Property Acquisition, Outgrant, and Disposal Transactions (February 1997, last modified 20 March 2000). Technical guidance for this EBS also follows procedures outlined in pamphlet Department of the Army (DA) *PAM 200-1* (Final 17 January 2002), the *American Society for Testing and Materials (ASTM) Standard Practice E 1527-00: Environmental Site Assessments: Phase I Environmental Site Assessment Process* (2000), *ASTM Standard Practice for Conducting Environmental Baseline Surveys, Designation D6008-96* (1996), Community Environmental Response Facilitation Act (CERFA) guidance, and the Department of Defense (DOD) *Base Realignment and Closure (BRAC) Cleanup Plan (BCP) Guidebook* (DOD 1995/1996). The information presented in this Final EBS Report is current as of February 2004; however, comments received on the Draft EBS Report have been included as part of Appendix A and incorporated, as appropriate. It should be noted that this EBS investigation is not a BRAC action. However, BRAC guidelines are being used as best practice guidance in order to document the conditions at the subject site.

1.1 PURPOSE AND SCOPE OF THE ENVIRONMENTAL BASELINE SURVEY

The purpose of the EBS is to classify discrete areas of the Ft. Meade Golf Course into one of seven standard environmental condition of property (ECOP) area types as defined by CERFA guidance and the DOD *BCP Guidebook* (DOD 1995/1996). This is achieved by:

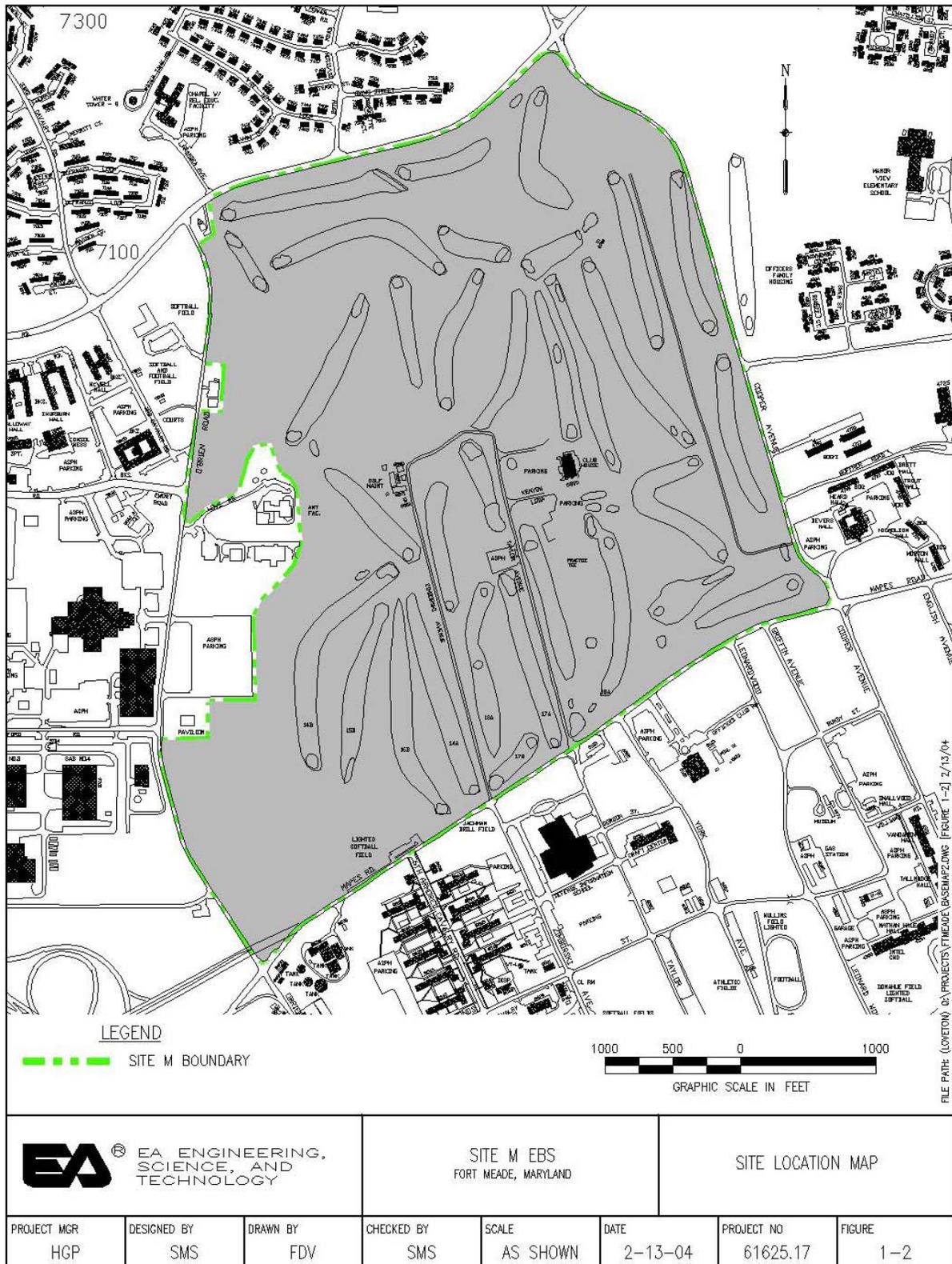
- Identifying, characterizing, and documenting the presence or likely presence of a release or threatened release of a hazardous substance or petroleum product associated with the historical and current use of the property.
- Identifying, characterizing, and documenting the presence or likely presence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

FIGURE 1-1: VICINITY MAP - SITE M



Source: <http://www.mdw.army.mil/311tsc/htm/meademap.htm>

FIGURE 1-2: SITE LOCATION MAP – SITE M



The scope of the EBS included a review of existing installation environmental documents and reasonably obtainable Federal, state, and local government records (Appendix B), along with a review of aerial photographs (Appendix C) and title documents (Appendix D). A site visit, which included visual inspections and employee interviews, was also conducted in accordance with the scope of work. As part of the EBS, Berger/EA was also tasked with conducting a limited sampling event to help classify discrete areas within Site M (Appendix E). The EBS scope of work included preparation of an EBS report describing the ECOP. This report will be used to support a determination of the suitability of the subject site for transfer or lease.

1.2 DEFINITIONS

The following definitions are used in this report:

- **Adjacent properties:** Those properties, on or off the installation, contiguous to or nearby the property boundaries being surveyed that are likely to cause or contribute to contamination and affect the results of the EBS or the classification of the property into standard ECOP area types.
- **Hazardous substances:** Substances listed in 40 Code of Federal Regulations (CFR) 302.4, Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substance Table.
- **Petroleum:** Any petroleum product or its derivatives, including aviation fuel and motor oil.
- **ECOP area type:** Any of the seven standard environmental condition of property (ECOP) area types (categories) as defined in the CERFA guidance and the *FY2000 BRAC Cleanup Plan Abstract Analysis* (DOD 2000) and presented in Table 1-1.
- **Suitable for transfer:** Parcels that are designated as Category 1, 2, 3, or 4 are suitable for transfer or lease, subject to consideration of the non-CERCLA qualifiers.
- **Not suitable for transfer:** Parcels that are currently designated as Category 5, 6, or 7 are generally not suitable for transfer. However, it is noted that Category 5, 6, and 7 parcels can be transferred from Federal agency to Federal agency in accordance with guidance provided by Department of the Navy, dated May 1995, and entitled “Environmental Requirements for Federal Agency to Agency Transfer”.
- **Reserve enclave:** An area of the installation real property that will be retained by DOD and, therefore, is not categorized into standard ECOP area types under the EBS.

TABLE 1-1: ECOP DEFINITIONS

CATEGORY 1: Areas where no release or disposal of hazardous substances or petroleum products has occurred (including no migration of these substances from adjacent areas).
CATEGORY 2: Areas where only release or disposal of petroleum products has occurred.
CATEGORY 3: Areas where release, disposal, and/or migration of hazardous substances has occurred, but at concentrations that do not require a removal or remedial response.
CATEGORY 4: Areas where release, disposal, and/or migration of hazardous substances has occurred, and all removal or remedial actions to protect human health and the environment have been taken.
CATEGORY 5: Areas where release, disposal, and/or migration of hazardous substances has occurred, and removal or remedial actions are underway, but all required remedial actions have not yet been taken.
CATEGORY 6: Areas where release, disposal, and/or migration of hazardous substances has occurred, but required actions have not yet been implemented.
CATEGORY 7: Areas that are not evaluated or require additional evaluation.

Source: *FY2000 BRAC Cleanup Plan Abstract Analysis*; OADUSD (Environmental Cleanup), 3400 Defense Pentagon, Washington, DC 20301-3400; <http://www.dtic.mil/envirodod/>

- **Parcel labels:** Each parcel has been given a number to which appropriate descriptive labels are attached. The numbers consist of a unique parcel identification number and an ECOP category number. The labels consist of a designation describing the type of potential contamination or storage, if applicable. The following designations are used to indicate the type of potential contamination or storage present in a parcel.

PS = Petroleum storage

PR = Petroleum release or disposal

HS = Hazardous substance storage

HR = Hazardous substance release or disposal

Examples of this identification system follow:

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

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

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

For all parcels, “(P)” is used to indicate that the presence of a contaminant is possible, but that data are unavailable for verification. For example, the fifth parcel with the presence of ACM and the possible presence of LBP will be labeled 5Q-A/L(P).

1.3 LIMITATIONS

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

1.4 PHYSICAL DESCRIPTION

Site M consists of approximately 435 acres located in the central part of Ft. Meade. Site M is bounded by O’Brien Road to the west, Mapes Road to the south, Cooper Avenue to the east, and Rockenbach Road to the north (Figure 1-2). Site M is owned by the U.S. Army, and is operated by Ft. Meade as a private golf course (Table 1-2). The property is located in an area of mixed use within Ft. Meade (commercial, residential, and training use). As discussed in Section 1.0 and shown on Figure 1-2, Site M excludes the area to the west of the golf courses and bounded by O’Brien Road which is actively used by NSA and the U.S. Army. This area is not included as part of the subject site.

TABLE 1-2: ASSET INFORMATION

Facility Name and Address	Ft. Meade Golf Course Building 6800, Taylor Rd., Fort George G. Meade, Maryland, 20755
Point of Contact / Owner	Mr. Jeff Thornberg Environmental Management Office (301) 677-9365 / Department of Defense, Department of the Army
Date of Ownership	1919/1920 to the present
Current Occupant	Ft. Meade Golf Course
Zoning	Government use - recreation
County, State	Anne Arundel County, Maryland
USGS Quadrangle	Laurel, Maryland
Latitude / Longitude	39° 6' 22" N, 79° 45' 7.9" W
Legal Description of Property:	Site M consists of one parcel of land (approximately 435 acres) located in Fort Meade, Maryland bounded by O'Brien Road to the west, Mapes Road to the south, Cooper Avenue to the east, and Rockenbach Road to the north. No specific Tax Parcel information was found for this parcel.

1.5 GENERAL GEOGRAPHIC AND ENVIRONMENTAL SETTINGS

1.5.1 Demographics

The 2000 Census reports a total population of 497,893 within Anne Arundel County, Maryland. Ten percent of the population was older than 65 and 25 percent of the population was younger than 18 years old. Minorities comprised 19 percent of the total population. The population of Fort Meade as of 1997 included approximately 8,000 military personnel, 25,000 civilian employees, and 5,700 members of military families.

1.5.2 Physical Setting

Ft. Meade encompasses approximately 5,506 acres, and it is situated in Anne Arundel County, almost equidistant from Baltimore, Maryland and Washington, DC. Ft. Meade is bounded by the Baltimore Washington Parkway to the northwest, as well as the Amtrak line, MD Route 175 and MD Route 32 to the south. The Little Patuxent River runs along a part of the southwest corner of the Fort proper and two of the tributaries, Midway Branch and Franklin Branch, flow through the Fort. Ft. Meade is dedicated to providing quality support to soldiers, their families, many

Federal agencies, and civilian employees. Ft. Meade's mission is to provide leadership in post operations and assume responsibility for numerous activities conducted to support the approximately 78 tenant organizations from all four services and from many Federal agencies. Ft. Meade is located in a mixed use area, with light industrial, commercial, residential (areas of low-medium density, medium density, and high density) uses and wildlife preserves bordering Ft. Meade. Residential, training, commercial, and public (schools, shopping, etc.) use areas are within Ft. Meade.

The area of investigation, Site M, is located toward the center of Ft. Meade. The site can be described as gently rolling with areas of increased topography (slopes) (Figure 1-3). The higher topography of the site is located in the western part of the site, which is mostly wooded. The main part of Site M consists of two 18-hole golf courses (Applewood and Parks) with ancillary buildings for supporting golfing activities (i.e., maintenance and club house buildings). The 435 acres of Site M are surrounded by housing areas to the north and northeast; NSA operations, open areas, and troop housing to the west; and mixed use areas to the south and east (including open areas, community facilities, maintenance areas, troop housing, parade grounds, service and industry facilities) (Source Documents 1, 3, and 4).

1.5.3 Climatology

Ft. Meade is located in the continental climate zone of the eastern United States, where general atmospheric flow is from west to east. This climate region is characterized by summers that are long, warm, and often humid as a result of persisting maritime tropical air. Temperate weather prevails in the spring and autumn.

Annual temperatures range from less than -6°F (degrees Fahrenheit) in winter to a high of more than 100°F in summer. The annual mean temperature at Ft. Meade is 61° with an average daily maximum of 72°F and an average daily minimum of 45°F. Annual precipitation averages 41 inches with approximately 22 inches of snow. Rainfall occurs throughout the year, but the greatest amounts occur in the summer (peaking in August) as a result of strong thunderstorms. The region has moderate to high humidity levels throughout the year (Source Document 4).

1.5.4 Hydrology

The subject site lies within the drainage of the Little Patuxent River. Topographically, Site M slopes slightly to the southwest, south, southeast, and east from a topographic high located in the northwestern portion of the site and to the southwest from a secondary topographic high in the eastern portion of the site. Elevation ranges from approximately 250 ft above mean sea level (msl) in the northwestern portion of Site M to approximately 159 ft above msl in the east-central portion of the site, along an intermittent site drainage, known as Midway Branch, which flows to the south. Average elevation on post is typically between 140 and 180 feet msl. Midway Branch flows through Allen Lake (also described as Soldier Lake), approximately 1.25 miles south of the subject site, and eventually to the Little Patuxent River (Source Documents 3, 5, and 6).

FIGURE 1-3: TOPOGRAPHY MAP – SITE M



1.5.5 Geology and Soils

Site M, located in the Atlantic Coastal Plain Physiographic Province, is underlain by igneous and metamorphic crystalline rock of the Precambrian to early Cambrian ages. The bedrock surface dips to the southeast and is the lower confining layer for the overlying Potomac Group unconsolidated sediments, consisting of (oldest to youngest) the Patuxent, Arundel, and Patapsco Formations. The youngest, Patapsco Formation, is comprised of an upper, middle, and lower unit. The upper Patapsco unit varies in thickness, up to 40 feet, and is distinguished by medium to fine, yellow-brown, orange-brown, and tan sand and silty-sand. The upper unit is underlain by the middle Patapsco unit, consisting of thick, tough, highly plastic, mottled, reddish-brown to light gray clay which provides the upper confining unit for the lower Patapsco aquifer. The middle unit typically occurs between 1 foot and 41 feet below ground surface (bgs) and can be as thick as 102 feet (Source Document 7). Note that this middle unit may be discontinuous across the Ft. Meade area. The lower Patapsco unit is comprised of medium-fine, silty-sand, grading with depth to coarser sand. This lower unit overlies the approximately 250-foot thick Arundel Formation, comprised of red, brown, and gray Arundel Clay with some ironstone nodules and plant remains (Source Document 8). The Patapsco Formation is non-existent to the west of the site, where the surface outcrop consists of the Arundel and Patuxent Formations (Source Documents 3, 5, and 8).

1.5.6 Hydrogeology

There are three distinct aquifers within the Ft. Meade installation: the Patuxent Formation, the lower Patapsco unit, and the upper Patapsco unit. The Patapsco Formation is separated from the Patuxent Formation by the tough, hard, Arundel clay.

The United States Department of Agriculture (USDA) Soil Conservation Service, now the Natural Resources Conservation Service, indicates that the soil in the upper Patapsco unit is of high hydraulic conductivity with high infiltration rates and lists permeabilities ranging from 2 to 20 inches/hour (in/hr). Hydraulic conductivities were estimated to range as high as 8.5 in/hr in the upper aquifer and 2.85 in/hr in the lower Patapsco aquifer (Source Document 9). Observations of soil lithology during recent field sampling activities tend to support this, with the only exception being a dense, extremely light gray silty/clay and clayey/silt encountered intermittently in several borings (Appendix E). This clay is more indicative of the material comprising the middle Patapsco unit and has an estimated vertical hydraulic conductivity of up to 2.8×10^{-4} in/hr (Source Document 8). This fine material has a considerably lower hydraulic conductivity, and acts as a confining layer. Whether this layer is continuous across Site M was not established during recent sampling events. Groundwater flow in the Patapsco aquifers is to the east/southeast (Source Document 7). The Patuxent Formation is a confined aquifer that directly overlies the igneous and metamorphic crystalline bedrock and is confined above by the Arundel Clay.

2.0 SOURCES OF INFORMATION

The EBS investigation meets the requirements of CERCLA (1980) Section 120(h), as amended by CERFA and implemented by DOD. This section describes the sources of information that were used to support the evaluation of the ECOP of Site M.

Relevant information and documents that were used to conduct the Site M EBS are identified in the following sections. This information includes environmental studies; Federal, state, and local regulatory records; and interviews of installation personnel. Visual inspection of the adjacent installation property was also conducted from a vehicle.

2.1 EXISTING DOCUMENTS

Existing documents were reviewed to evaluate the environmental conditions at the Site M property. The 21 documents presented in Table 2-1 are the primary documents used in the preparation of this EBS report. Each document has a document identification number, which is referenced in the CERFA map tables (Tables 5-1 and 5-2) in Section 5.0. A complete list of references is included in Section 6.0.

TABLE 2-1: PRIMARY DOCUMENTS

DOCUMENT TITLE	AUTHOR AND REFERENCE	DATE	EBS SOURCE OF EVIDENCE DOCUMENT IDENTIFICATION NUMBER
Miscellaneous Internet Sources	Various	2003	1
<i>Final Environmental Assessment of Implementation of the Army Residential Communities Initiative at Fort Meade, Maryland.</i> June.	CH2MHILL	June 2001	2
<i>Environmental Baseline Survey United States Army Residential Communities Initiative Properties Fort George G. Meade, Maryland.</i>	U.S. Army Corps of Engineers – Baltimore District	March 2002	3
<i>Final Environmental Impact Statement Future Development and Operations Fort George G. Meade, Maryland.</i>	Department of the Army Military District of Washington	June 2001	4
<i>The Environmental Data Resources (EDR) Radius Map with GeoCheck Taylor Rd. Fort George G. Meade Inquiry Number 1026103.1s</i>	Environmental Data Resources, Inc.	7 August 2003	5
<i>Laurel 7.5 Minute Quadrangle Map</i>	U.S. Geological Survey	2002	6
<i>Site Investigation Report Golf Course Maintenance Area Buildings 8860, 8880, 8890, and 8896 SWMUs 131-133 and 135-137.</i>	Versar Inc.	December 2001	7

TABLE 2-1: PRIMARY DOCUMENTS

DOCUMENT TITLE	AUTHOR AND REFERENCE	DATE	EBS SOURCE OF EVIDENCE DOCUMENT IDENTIFICATION NUMBER
<i>Maryland Geological Survey. Report of Investigations No. 6. Evaluation of the Water-Supply Potential of Aquifers in the Potomac Group of Anne Arundel County, Maryland.</i>	Mack, Frederick and Grufron, Achmad. 1986	1986	8
<i>Final Fort George G. Meade Base Closure Parcel Site Inspection Study-Volume I.</i>	EA Engineering, Science, and Technology	October 1992	9
Miscellaneous underground storage tank (UST) and above ground storage tank (AST) Closure information, reports, etc.	Fort Meade Environmental Office/NSA	Various	10
Interviews	Berger/EA	November 2003	11
Fort Meade Golf Course Irrigation System State Discharge Permit Information	Maryland Department of the Environment	July 2000	12
Field Logbook Notes and photographs from 2003 EBS Site Visits.	Berger/EA	November 2003	13
Fort Meade Golf Course Pesticide Regulation Inspection Reports	Maryland Department of Agriculture	1990 to present	14
<i>Aerial Photographic Analysis Fort George Meade – Contonment Area</i>	Lockheed Environmental Systems & Technology Co.	September 1996	15
Miscellaneous Maps and historical information	National Archives	Various	16
Miscellaneous Maps and historical information	Fort Meade Historical Records	Various	17
<i>Final Environmental Assessment of Implementation of the Army Residential Communities Initiative at Fort Meade, Maryland</i>	USACE	June 2001	18
Miscellaneous Land Records/Deeds	USACE – Real Estate Records	circa 1919 and 1920	19
<i>Fort George G. Meade Cultural Resources Management Plan</i>	R. Christopher Goodwin & Associates, Inc.	August 1994	20
<i>Fort Meade Golf Courses Yearly Pesticide Summary for 1 October 2002 through 30 September 2003</i>	Fort Meade Golf Course Maintenance Department	September 2003	21
<i>Geophysical Survey of Possible Dump Sites and an Abandoned Cemetery – Fort George G. Meade, Maryland</i>	Versar, Inc.	May 2004	22

2.2 FEDERAL, STATE, AND LOCAL GOVERNMENT REGULATORY RECORDS

A detailed search of Federal, state, and local records for Site M was performed to identify areas onsite where storage (for a period of 1 year or more), release or disposal of hazardous substances or any petroleum product or its derivatives may have occurred. In addition, records pertaining to adjacent properties were searched to assess where there may have been a release of hazardous substances or petroleum products.

Agency records were accessed through an electronic environmental database provided by Environmental Data Resources (EDR). The database was queried on the search distances recommended by the ASTM Standard Practice for Conducting EBS (ASTM D6008-96) and on the ASTM Standard Practice for Environmental Site Assessments, Phase I Environmental Site Assessment Process (ASTM E 1527-00). An approximate search distance of 2.0-miles from the subject site boundary was conducted. The results located within the ASTM-specified distance or a selected default distance of 1.0 mile from the subject site are summarized below in Section 2.2.1 State Environmental Agency Databases and Section 2.2.3 Federal Environmental Agency Databases. The complete database search report, including a map indicating locations of sites identified below, is provided in Appendix B (Source Document 5). Tables 2-2 and 2-3 present the lists of state and Federal agency records that were reviewed.

2.2.1 State Environmental Agency Databases

A total of 11 state and local environmental agency databases were queried to identify sites of local environmental concern. Table 2-2 presents a brief description of the ASTM-recommended databases that were reviewed. A detailed description of state and local databases that were reviewed is included in Appendix B.

The results of the state and local environmental agency databases search for Site M are summarized in Table 2-4.

The state and local environmental agency databases search identified the following information for the parcels associated with Site M:

- The target property, Site M, is not listed on any of the state and local databases searched by EDR.
- One OCPCASES site was identified at a distance of approximately 1 mile from Site M. The OCPCASES site is listed as “RCA Earth Station” and it is reportedly located at 9705 Samford Road. However, according to additional information, the building located at 9705 Samford Road is a warehouse and there is no RCA Earth Station found on Samford Road; therefore, it appears that the RCA Earth Station is incorrectly mapped. No additional information was found regarding the warehouse or the exact location of the RCA Earth Station. However, based on the distance of this warehouse and its lower elevation relative to Site M, if this is an OCPCASES site, it is not likely to have an adverse environmental impact on Site M.

TABLE 2-2. STATE AND LOCAL ENVIRONMENTAL AGENCY DATABASES

DATABASE	CONTENTS
Maryland Notice of Potential Hazardous Waste Sites	State Hazardous Waste Site (SHWS) records are the equivalent of the Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) list. These sites may or may not already be listed on the federal CERCLIS.
Maryland Solid Waste Disposal Facilities/Landfill (SWF/LF)	This database contains a listing of all permitted solid waste landfills and processing facilities operating within the State of Maryland.
Maryland Underground Storage Tank (UST) List	This database contains information on all registered USTs in the State of Maryland.
Maryland Historical Leaking Underground Storage Tank (LUST) List	This database contains an inventory of reported LUST incidents. In 1999, the Maryland Department of the Environment (MDE) stopped adding new sites to its Recovery Sites Database. Current LUST information may be found in the Oil Control Program Cases, Leaking Underground Storage Tanks (OCPCASES) database.
Maryland Registered Aboveground Storage Tank (AST) List	This database contains information on registered ASTs in the State of Maryland maintained by the MDE.
Maryland Historical Underground Storage Tank List	This database contains information on historical USTs reported to the State of Maryland.
Voluntary Cleanup Program (VCP) Sites	The VCP streamlines the environmental cleanup process for sites, usually industrial or commercial properties, which are contaminated by hazardous substances. Developers and lenders are provided with certain limitations on liability and participants in the program are provided certainty in the process by knowing exact requirements.
State Recycling Directory (SWRCY)	This database contains a list of recycling facilities.
Maryland Oil Control Program Cases, Leaking Underground Storage Tanks (OCPCASES)	This database contains summary information pertaining to active cases of cleanup activities at facilities that have had a hazardous materials spill, a LUST, or a release from another underground structure.
EDR Proprietary Historical Database: Former Manufactured Gas (Coal Gas) Sites	Determines existence and provides a location of coal gas sites and technical description of the types of hazards which may be found at such sites.
Brownfields Databases – includes Inst Control, VCP, BROWNFIELDS	Institutional control sites included in the VCP applicants/participants listing that have deed restrictions. The VCP streamlines the environmental cleanup process for sites, usually industrial or commercial properties, which are contaminated by hazardous substances. Developers and lenders are provided with certain limitations on liability and participants in the program are provided certainty in the process by knowing exact requirements.

TABLE 2-3: FEDERAL ENVIRONMENTAL AGENCY DATABASES

DATABASE	CONTENTS
National Priority List (NPL)	The NPL lists Superfund sites, which are sites that are determined by the U.S. Environmental Protection Agency (EPA) to pose an immediate public health hazard requiring immediate cleanup response.
Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS)	The EPA CERCLIS database contains information on CERCLA sites that have been reported to the EPA by states, municipalities, private companies and private persons. The CERCLIS database is updated periodically.
Emergency Response Notification System (ERNS)	EPA maintains ERNS, which is a repository for information on hazardous spills nationwide. This information is based on reports filed by local agencies (e.g., municipal fire, police, or environmental departments), county agencies, state entities, and Federal agencies (e.g., U.S. Coast Guard, National Response Center, and EPA).
Corrective Action Report (CORRACTS)	Identifies hazardous waste handlers with Resource Conservation and Recovery Act (RCRA) corrective action activity.
Resource Conservation and Recovery Information System (RCRIS), includes RCRIS LQG and RCRIS SQG	This database contains information on all RCRA facilities. The facility types include: large quantity generators (LQG); small quantity generators (SQG); conditionally exempt facilities; transporter facilities; and treatment, storage, and disposal (TSD) facilities. Large quantity generators generate over 1,000 kilograms (kg) hazardous waste/month, or greater than 1 kg acutely hazardous waste as defined by RCRA. Small quantity generators generate more than 100 and less than 1,000 kg of hazardous waste during any calendar month.
Toxic Chemical Release Inventory System (TRIS)	TRIS contains information from facilities which manufacture, process or import any of the over 300 listed toxic chemicals which are released directly into air, water or land or are transported off-site. The database includes facts on amounts of chemicals stored and emitted from the facility. This database is released on an infrequent basis by the EPA.
Toxic Substance Control Act (TSCA) Inventory	The TSCA Inventory 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.
PCB Activity Database System (PADS)	This database stores information about facilities that handle PCBs and file EPA form 7710-53. It is divided into storage facilities, disposers, generators and transporters.
FIFRA/TSCA Tracking System (FTTS)	This database tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA, and the Emergency Planning and Community Right-to-Know Act (EPCRA).

TABLE 2-3: FEDERAL ENVIRONMENTAL AGENCY DATABASES

DATABASE	CONTENTS
Facility Index System (FINDS)	EPA references any facility or event that has been issued an EPA identification number; the EPA program office that issued the identification number is also listed. These listings do not necessarily reflect releases. This database contains both facility information and “pointers” to other sources of information that contain more detail. EDR includes the following FINDS databases in the database report: PCS (Permitted Compliance System); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICIS); PCB Activity Database System (PADS); RCRA-J (medical waste transporters/disposers); Toxic Chemical Release Inventory System (TRIS); and TSCA. EPA references any facility or event that has been issued an EPA identification number; the EPA program office that issued the identification number is also listed. These listings do not necessarily reflect releases.
Material Licensing Tracking System (MLTS)	This is a database maintained by the Nuclear Regulatory Commission (NRC) and contains a list of approximately 8,100 sites that possess or use radioactive materials and are subject to NRC licensing requirements.

TABLE 2-4: SUMMARY OF IDENTIFIED STATE AND LOCAL ENVIRONMENTAL SITES

		Mappable Sites				
Database	Radius	Target Property	< 1/8 mile	1/8 - 1/4 mile	1/4 - 1/2 mile	1/2 - 1 mile
<i>SITE M</i>						
SHWS*	1.0 mile	No	0	0	0	0
SWF/LF*	0.75 mile	No	0	0	0	0
LUST*	0.75 mile	No	0	0	0	0
UST*	0.5 mile	No	1**	0	0	NR
Historical UST	0.5 mile	No	0	0	0	NR
VCP*	0.75 mile	No	0	0	0	0
AST	0.25 mile	No	1**	0	NR	NR

TABLE 2-4: SUMMARY OF IDENTIFIED STATE AND LOCAL ENVIRONMENTAL SITES

		Mappable Sites				
Database	Radius	Target Property	< 1/8 mile	1/8 - 1/4 mile	1/4 - 1/2 mile	1/2 - 1 mile
SWRCY*	0.75 mile	No	0	0	0	0
OCPCASES*	0.75 mile	No	1**	0	0	1
coal gas	1.0 mile	No	0	0	0	0
Inst Control	0.5 mile	No	0	0	0	NR
VCP	0.75 mile	No	0	0	0	0

* Indicates ASTM-required database search

NR – Not Requested at this search distance as per ASTM guidance and professional practice

Note – Identified sites are highlighted in bold type

** Indicates site was identified from Orphan site list

Thirteen orphan sites were identified within the zip code shared by Ft. Meade. Of these 13 sites, only two sites appeared to require further evaluation due to their proximity to the subject site. The first orphan site, identified as the Ft. Meade Communications Tower-Rockenbach and O'Brien Road Building No. 8903, is listed in the UST database and OCPCASES database. This site is located immediately adjacent to the subject site in the northwest corner at the intersection of Rockenbach Road and O'Brien Road. This parcel is owned by the U.S. Army and used by NSA and the U.S. Army. Based on a review of available records this site had a 2,000-gallon diesel fuel UST that was removed in May 1998. No contaminated soil was visible and MDE determined that “no further remediation [was] required in area of tank excavation” (Source Document 10). An AST currently exists at this site. No information was found to indicate the age of the AST. Providing the AST maintains its integrity, this orphan site is not likely to have an adverse environmental impact on the subject site. The second orphan site identified by EDR in proximity to the subject site is listed as “Fort Meade.” This catch-all site name encompasses several operable units and operations that may be adjacent to Site M with the potential to impact Site M. Those areas or operations with potential impact to Site M are further discussed in Sections 2.2.2 and 4.2.

2.2.2 Federal Environmental Agency Databases

A total of 25 Federal environmental agency databases were queried to identify sites of environmental concern. Table 2-3 presents a brief description of ASTM-recommended databases that were reviewed. A detailed description of Federal databases that were reviewed is included in Appendix B.

The results of the Federal environmental agency database search for Site M are summarized in Table 2-5.

TABLE 2-5: SUMMARY OF IDENTIFIED FEDERAL ENVIRONMENTAL SITES

Database	Radius	Target Property	Mappable Sites			
			< 1/8 mile	1/8 - 1/4 mile	1/4 - 1/2 mile	1/8 - 1 mile
NPL*	1.0 mile	No	0	0	0	0
Proposed NPL*	1.0 mile	No	0	0	0	0
CERCLIS*	0.75 mile	No	0	0	0	0
CERCLIS-NFRAP*	0.5 mile	No	0	0	NR	NR
CORRACTS*	1.0 mile	No	0	0	0	0
RCRIS TSD*	0.75 mile	No	0	0	0	0
RCRIS LGQ*	0.5 mile	No	0	0	0	NR
RCRIS SQG*	0.5 mile	No	0	0	0	NR
ERNS*	0.25 mile	No	0	0	NR	NR
CONSENT	1.0 mile	No	0	0	0	0
Record of Decision (ROD)	1.0 mile	No	0	0	0	0
Delisted NPL	1.0 mile	No	0	0	0	0
FINDS	0.25 mile	No	0	0	NR	NR
HMIRS	0.25 mile	No	0	0	NR	NR
MLTS	0.25 mile	No	0	0	NR	NR
MINES	0.5 mile	No	0	0	0	NR
NPL Liens	0.25 mile	No	0	0	NR	NR
PADS	0.25 mile	No	0	0	NR	NR
DOD	1.0 mile	Yes	0	0	0	1
RCRA Administrative Action Tracking System (RAATS)	0.25 mile	No	0	0	NR	NR
TRIS	0.25 mile	No	0	0	NR	NR
TSCA	0.25 mile	No	0	0	NR	NR
Section 7 Tracking System (SSTS)	0.25 mile	No	0	0	NR	NR
FTTS	0.25 mile	No	0	0	NR	NR

* Indicates ASTM-required database search.

NR – Not Requested at this search distance

Note – Identified sites are highlighted in bold type

The Federal environmental agency database search identified the following information for the Site M property:

- The target property, Site M, was identified in the EDR database as a DOD facility and no additional information was provided with this listing. Site M was not listed in any of the other databases reviewed.
- No additional sites were identified by EDR in the federal databases reviewed within the required distances.

However, as indicated in Section 2.2.1, the orphan summary included in the EDR database search identified the Ft. Meade installation as being listed in the state hazardous waste database. Based on a review of additional documentation it has been determined that Ft. Meade proper (including other operational areas outside Site M) is listed in the following federal databases: NPL, RCRIS LQG, RCRIS TSDF, CORRACTS, PADS, CERCLIS, and FINDS. The facility is currently undergoing cleanup operations. Information pertaining to the listing and its potential impact to the subject site is discussed in Section 4.3 Sources of Potential Contamination from Adjacent or Surrounding Property. As noted above, the EDR database search did not identify adjacent businesses/sites in the reviewed Federal databases beyond the boundary of Ft. Meade. However, it is important to note that the lands belonging to Fort Meade and other government agencies surround Site M for up to a mile on the north, south, east and west. Therefore, it was not expected that additional businesses would be listed in the search results. It is also noted that the NSA facility located to the west of the subject site was not listed in the EDR summary. Based on a review of additional documentation it has been determined that the NSA facility is listed in the following federal databases: RCRIS LQG, PADS and FINDS. Information pertaining to the listing and its potential impact to the subject site is discussed in Section 4.3 Sources of Potential Contamination from Adjacent or Surrounding Property.

2.2.3 Permits and Permit Applications

Ft. Meade's Directorate of Public Works (DPW) holds a permit from MDE for discharge of treated effluent water from the sanitary sewer system to the lands of the golf course for irrigation purposes (Permit No. 00-DP-2634). Based on a review of available information MDE requires Ft. Meade to sample the several existing monitoring wells located around the golf course monthly for Biological Oxygen Demand (BOD), suspended solids, pH, and fecal coliform. Site M uses (on average) 133,000 gallons of treated water a day. The water is used to irrigate the greens and is not used as a potable water source. No information was found to indicate non-compliance with this permit (Source Documents 1, 11, 12, and 13).

The EBS records review and interviews with installation personnel found no hazardous waste generator or storage facility permits associated with the subject site (Source Documents 11 and 13). However, it was noted that waste materials are temporarily stored in a hazardous materials building (labeled Building 81) until they are picked up by or taken to the Defense Reutilization Marketing Office (DRMO) for collection and ultimate disposal. Further information pertaining to the permits held by DRMO (i.e., RCRIS SQG or RCRIS LQG permits) was not obtained (Source Documents 7 and 11).

2.2.4 Inspection Reports and Enforcement Actions

Based on a review of additional documents it is noted that the golf course has a license for application of pesticides issued by the Maryland Department of Agriculture, Office of Plant Industries and Resource Conservation Pesticides Regulation Section. A review of this documentation provided by Ft. Meade personnel indicates that inspections have been conducted annually since 1990 to review pesticide application (i.e., equipment, pesticides, applicator training, etc.). No violations were noted in the inspection reports reviewed. Ft. Meade golf course personnel were not aware of the process prior to 1990, and no inspection forms were present in the files (Source Documents 11 and 14). The EBS records review and interviews with installation personnel found no additional inspections or enforcement actions associated with the subject site (Source Documents 5 and 11).

2.3 AERIAL PHOTOGRAPHS

Ten sets of black and white and color infrared hard copy aerial photographs from 1938 to 1995 (Table 2-6) were reviewed and analyzed by Lockheed Environmental Systems and Technology Co. (Lockheed) for Ft. Meade in 1996 (Source Document 15). The aerial analysis completed by Lockheed was performed using a stereoscope, and this analysis encompassed a large portion of Ft. Meade proper, including Site M (Source Document 15). Stereo viewing allows the viewer to see vertical as well as horizontal relationships between features; consequently, Lockheed was able to provide more detailed conclusions as to land use/activities. Site M was not the main focus of the analysis; therefore, additional visual analysis of the aerial photographs was conducted to further document and evaluate the historical conditions at Site M. Supplemental electronic aerial photographs from 1947 and 1952 were used in this analysis along with historical property maps and interview information (Source Documents 11, 15, 16, and 17). Because of the scale of the available photography, only gross level human and environmental conditions were observable by the EBS study team.

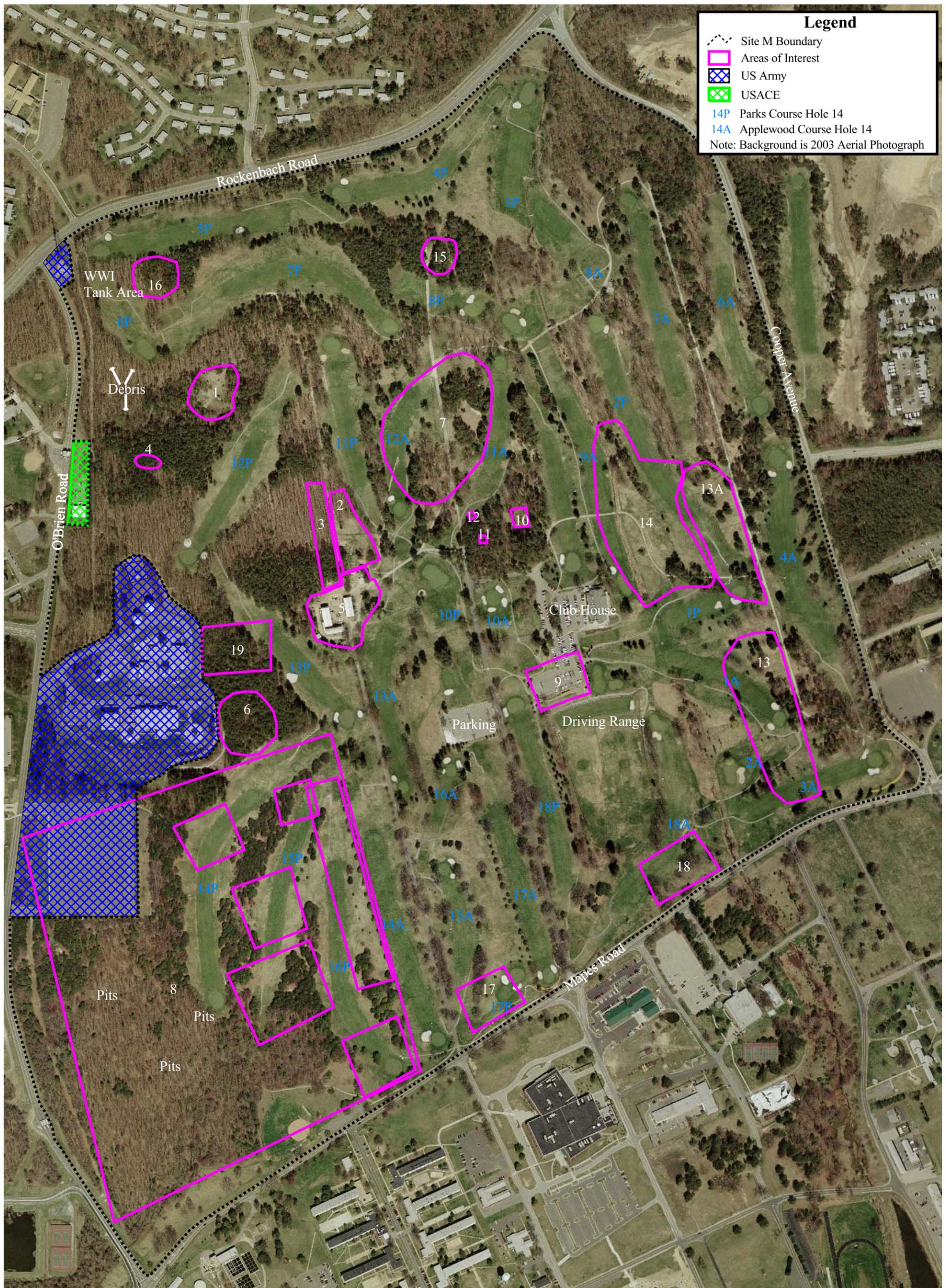
Site M consists of approximately 435 acres enclosed by four roads: Rockenbach Road to the north, Mapes Road to the South, Cooper Avenue to the east and O'Brien Road to the west. From the evaluation, 19 areas of interest (AOIs) were observed to be present within Site M. These AOIs, which were typically areas of ground scarring, old building locations, former training areas, and other general areas, were identified and arbitrarily numbered (Figure 2-1). A summary of the AOIs and their descriptions based on aerial review is provided in Table 2-7. Copies of the aerial photographs reviewed are included in Appendix C.

TABLE 2-6 AERIAL PHOTOGRAPH SUMMARY

Year	Scale	Quality*	Source
1938	1" = 20,300'	Fair	National Archives and Records Administration (NARA)
1943	1" = 21,700'	Fair	EPA Environmental Monitoring Systems Laboratory (EMSL)
1947	1" = 10,300'	Good	EMSL
1952	1" = 20,400'	Fair	NARA
1957	1" = 19,900'	Good	NARA
1963	1" = 20,900'	Good	EMSL
1970	1" = 24,700'	Good	U.S. Geological Survey (USGS)
1975	1" = 23,500'	Poor	U.S. Department of the Interior Earth Resources Observation Systems (EROS)
1988	1" = 21,300'	Poor	USGS
1995	1" = 23,800'	Good	Aerial Viewpoint, Inc. (AERVPT)

* Quality assigned by reviewer.

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Legend

- Site M Boundary
- Areas of Interest
- US Army
- USACE
- 14P Parks Course Hole 14
- 14A Applewood Course Hole 14

Note: Background is 2003 Aerial Photograph

Areas of Interest

- | | | |
|--|--|--|
| 1 Landfill #1 | 8 Former Training Area (1943) | 15 Current Wood/Clipping Placement Area |
| 2 Possible Landfill #2/
Former Golf Cart Washing Area | 9 Former Club House Area | 16 Possible Disposal Area/Training Area (1943) |
| 3 Possible Landfill #3 | 10 Former Farmhouse Location | 17 Disturbed Ground/Scarring (1938) |
| 4 Small Concrete Pit | 11 Concrete Pit/Telephone Pole | 18 Disturbed Ground/Scarring (1938) |
| 5 Golf Course Maintenance Area | 12 Downs Grave Site | 19 Disturbed Ground/Scarring (1938) |
| 6 Potential Landfill #4 | 13 Possible Burial Area #1 (per Interview) | |
| 7 Former Training Area (1943) | 13A Ground Scar from Aerial Review | |
| | 14 Possible Burial Area #2 (per Interview) | |



**SITE M
FT. MEADE, MARYLAND**

**FIGURE 2-1:
EBS AREAS OF INTEREST
FEBRUARY 2004**

TABLE 2-7 AREAS OF INTEREST (AOIs) SUMMARY

Area of Interest	Comments/Description
AOI 1	Possible landfill area, northwest portion of the site.
AOI 2	Possible landfill/former golf cart washing area, north of present golf course maintenance facility to the right of Zimborski Avenue
AOI 3	Possible landfill, north of the present golf course maintenance facility to the left of Zimborski Avenue
AOI 4	Small concrete pit in the woods east of O'Brien Road
AOI 5	Golf course maintenance facility surrounding Zimborski Avenue
AOI 6	Possible landfill in the wooded area north of Parks golf course hole #14 and east of U.S. Army facility.
AOI 7	Former training area east and west of Taylor Avenue along Applewood golf course hole #11 and #12 .
AOI 8	Large former training area encompassing the southwestern corner of the site. The boundary runs parallel to Zimborski Avenue along Mapes Road, up O'Brien Road and then east, forming a rectangle.
AOI 9	Former location of the club house and cart maintenance buildings near the present club house location.
AOI 10	Former farmhouse used as headquarters building north of Applewood golf course hole #10.
AOI 11	Concrete pit/telephone pole in wooded area adjacent to the former farm house north of Applewood golf course hole #10.
AOI 12	"Downs" cemetery in wooded area south of Applewood golf course hole 11 west of former farm house.
AOI 13	Ground scar area in the southeastern portion of the site west of the current jogging path.
AOI 13A	Ground scar area in the southeastern portion of the site north of AOI 13 and along the west side of the current jogging path.

TABLE 2-7 AREAS OF INTEREST (AOIs) SUMMARY

Area of Interest	Comments/Description
AOI 14	Ground scar area in the southeastern portion of the site west of AOI 13A.
AOI 15	Current wood/clipping disposal area in northern most wooded area along the end of Taylor Avenue.
AOI 16	Possible disposal/training area in northeast corner of the site.
AOI 17	Ground scar area north of Mapes Road by Parks golf course hole #17.
AOI 18	Ground scar area north of Mapes Road by Applewood golf course hole #18.
AOI 19	Ground scar area in wooded area between golf course maintenance facility and the adjacent U.S. Army property to the west.

2.3.1 1938 Aerial Photograph

The 1938 aerial is of fair quality with medium resolution. It shows that the Applewood golf course has been built on the southeastern part of Site M. Nine holes of the golf course are present at this time. The southern and eastern boundaries, Mapes Road and Cooper Avenue, are present. The other roads (O'Brien Road and Rockenbach Road) are not visible at the site. Taylor Avenue and Zimborski Avenue are present entering the center of the site. No structures are observed on the site. Nine AOIs were observed: AOIs 1, 2, 6, 8, 13, 13A, 14, 16 and 19. All nine areas have disturbed ground with some having larger disturbed areas than others. The Lockheed report noted building footprints at AOIs 1 and 8. AOI 8 also has a large area of disturbed ground to the west of the building remains. This report described AOIs 2 and 16 as "possible dump sites." The land surrounding Site M to the north and west are undeveloped. The land to the south and east are developed parts of Ft. Meade.

2.3.2 1943 Aerial Photograph

The 1943 aerial is of fair quality with medium resolution. It shows that the golf course is of the same shape and size as observed in 1938. The southern and eastern boundaries, Mapes Road and Cooper Avenue, are present. Taylor Avenue and Zimborski Avenue are also visible. Structures can be observed at the maintenance area (AOI 5) and the former club house area (AOI 9). Twelve AOIs were observed, ten on the hard copy aerial and two on the electronic aerial: AOIs 1, 2, 6, 7, 8, 13, 13A, 14, 16, 17, 18 and 19. The Lockheed report labels AOIs 1, 2, 6, 7, 8, 13, 13A, 14 and 16 as areas containing ground scarring/disturbance. AOIs 6, 8 and 19 are labeled as one large training area west of the golf course. AOI 1 is also labeled a training area. AOI 1 has enlarged in area from 1938; however the building remains are no longer visible. Lockheed has relabeled AOI 16 as a training area; however, the shape and size of the ground disturbance has

not changed. AOI 2 is still identified as a possible dump by Lockheed, and it is noted in the Lockheed report that there has been “adding/removing of earthen materials.” The size of AOI 2 has at least doubled alongside Zimborski Avenue. A review of the electronic photograph for 1943 identifies ground scarring/disturbance in AOIs 17 and 18. The land surrounding Site M has been developed to the south and east. The land to the west and north are mostly undeveloped.

2.3.3 1947 Aerial Photograph

The hard copy of the 1947 aerial is of good quality with fair resolution; however, only a small portion of the southern end of the site is visible on the photograph. Therefore, the electronic aerial was used to evaluate the land usage for 1947. The southern and eastern boundaries, Mapes Road and Cooper Avenue, are present. Taylor Avenue and Zimborski Avenue are also visible. A few structures are visible at AOI 9; and some ground scarring and possibly a structure are observed at AOI 5. The 1947 electronic aerial is extremely dark (poor quality) and only the most extreme features are discernable. AOIs 1, 6, 8, 16, and 19 are observed as disturbed ground. All other AOIs and the surrounding land are too dark to evaluate.

2.3.4 1952 Aerial Photograph

The 1952 aerial is of average quality but poor resolution. This photograph shows that the Applewood golf course has increased in size to a full 18 hole golf course. The southern and eastern boundaries, Mapes Road and Cooper Avenue, as well as the roads intersecting Site M, Taylor Avenue and Zimborski Avenue, are visible. Two structures are visible at AOI 9, however due to the poor resolution, no structures are visible at AOI 5 (at least two structures were thought to be present in this location according to historical maps). Ground scarring is observed in AOI 5. At AOIs 1 and 16, the ground scarring has shrunk in size due to vegetative growth; however, the ground scarring at AOI 2 has increased in size. AOIs 6, 8 and 19 are still one general ground scar area to the west of the golf course. The far eastern area of AOI 8 is now included as part of the Applewood golf course hole #14 (current Applewood course hole #14). Most of AOI 7 has become part of a fairway to Applewood golf course hole #12 (current Applewood hole #12). However, a new disturbed area, clearing of trees, is visible in the northeastern portion of AOI 7. Disturbed ground for AOIs 13, 13A, 14, 17 and 18 are no longer visible. These areas have become part of the golf course fairways, greens, etc. The Lockheed report indicated in reference to AOI 2 that “the possible dump, observed in 1943, has been filled and the ground surface leveled.” AOIs 1, 6, 7, 8, 16 and 19 are labeled as former training areas in the Lockheed report.

2.3.5 1957 Aerial Photograph

The 1957 aerial is of good quality with medium resolution. The photograph shows that there are changes within and outside of Site M. The golf course has been expanded and two full 18-hole golf courses are present at the site. Mapes Road and Cooper Avenue are still visible. Rockenbach Road, Site M’s northern border, has been built to the north sometime between 1952 and 1957. Also, part of O’Brien Road, the site’s western border, has been built. Within the site, Taylor Avenue and Zimborski Avenue are still visible. At AOI 5, six structures are visible. Five of the structures are small rectangular buildings with a larger square building to the northeast. At

AOI 9, three structures are visible with a large parking area to the northeast. AOI 1 is a much smaller area but more pronounced. The area is a small semi-circular area devoid of vegetation and surrounded by forest. AOI 2 shows signs that vegetation is returning to the area, and no new ground scarring is visible. AOI 6 has become overgrown with vegetation with only sparse pockets of disturbed ground visible. AOI 7 still has a distinct area of disturbed ground in its northeast corner. AOI 16 is surrounded by three golf fairways, and small veins of disturbed ground are visible. The other AOIs are hidden by the golf course fairways, greens, sand traps or the surrounding forest. The Lockheed report makes no observations of the AOIs other than to outline the boundaries of the golf course.

2.3.6 1963 Aerial Photograph

The 1963 aerial is of good quality but poor resolution. It shows that the size and shape of the golf course has not changed since 1957. Three of the four roads outlining Site M, Rockenbach Road, Cooper Avenue, and Mapes Road, are at present day shape and size. Only the bottom half of O'Brien Road is constructed. Taylor Avenue and Zimborski Avenue are both still visible and in use. There are five rectangular and one square structures in the maintenance area (AOI 5). The northwestern most rectangular building has been removed and a new rectangular building was built south of the other buildings. In the club house area, AOI 9, there are still three structures. The smallest structure has been replaced by a larger building in the same location. The largest structure from 1957 has been replaced by a smaller rectangular building in the same location. The parking area to the northeast has been expanded. AOI 1 was observed to have a slightly different shape but it is still active. AOI 2 is still devoid of vegetation but no evidence of new ground disturbances is present. The disturbance in the northwestern part of AOI 7 is the same shape and size as observed in previous years. The other AOIs are covered by golf course or new tree growth. The Lockheed report makes no additional observations other than to outline the golf course.

2.3.7 1970 Aerial Photograph

The 1970 aerial is of good quality and fair resolution. It shows that the golf course has not changed size or shape since 1963. O'Brien Road. is still not complete. Rockenbach Road, Cooper Avenue, Mapes Road are still present and active. Taylor Avenue and Zimborski Avenue are barely visible because they are now outlined by mature trees. AOI 5, the maintenance area, was observed to have four structures. Three form a "U" shape with one large building facing east/west and two small rectangular buildings at either end to the north. The fourth structure is a square building to the northeast of the "U" configuration. AOI 9, the club house area, has not changed since 1963. AOI 1 has doubled in size since 1963. The disturbance in the northeastern part of AOI 7 is same shape and size as observed in previous years. No other AOIs are observed due to their incorporation into the golf course. The Lockheed report makes no additional observations other than to outline the golf course.

2.3.8 1975 Aerial Photograph

The 1975 aerial is a color infrared photograph of poor quality and poor resolution; therefore only a few details are discernable. The photograph shows that O'Brien Road has been completed; therefore all four roads outlining Site M are in place. Taylor Avenue and Zimborski Avenue are also still visible. The golf course has not changed shape or size. AOIs 5 and 9 appear to have the same structures as observed in the 1970 aerial. AOI 1 appears to have mostly disappeared except for its northernmost piece. It is unclear, because of poor resolution, whether AOI 1 has become inactive. The disturbance in the northeastern part of AOI 7 is the same shape and size as observed in previous years. All other AOIs are no longer visible. The Lockheed report makes no additional observations other than to outline the golf course.

2.3.9 1988 Aerial Photograph

The 1988 aerial is of poor quality and poor resolution. The 1988, like the 1975, aerial is a color infrared photograph. In the photograph, the four roads bordering Site M are visible. AOI 9, the club house area, and AOI 5, the maintenance area, appear to be the same as observed in the 1975 aerial. The disturbance in the northeastern portion of AOI 7 and AOI 1 are the same shape and size as seen in previous years. All other AOIs are no longer visible. The Lockheed report makes no additional observations other than to outline the golf course.

2.3.10 1995 Aerial Photograph

The 1995 aerial is a black and white photograph. The overall quality of the 1995 aerial photograph is good and the resolution is fair. The photograph shows that the golf course still consists of two 18-hole golf courses, and the four main roads still surround Site M. Taylor Avenue and Zimborski Avenue are partially visible within Site M. AOI 5, the maintenance area, now has three structures. The two smaller rectangular buildings and the one square building have been removed. Two large rectangular buildings have been added to the area: one at the northwestern end of the remaining building, and the second where the square building was previously located. AOI 9, the club house area, has one structure in it. The club house has been moved to the location of the northern parking lot (circa 1988). The location of the former club house and other structures is now a parking lot. AOI 1 is the same size as seen in 1988; however, it appears that more vegetation has begun to cover the area. AOI 7 still has an area devoid of vegetation, but it is slightly smaller than seen in previous years. All other AOIs are no longer visible. The Lockheed report makes no additional observations other than to outline the golf course.

2.4 EXISTING PROPERTY MAPS

Existing installation property maps were used to assist in identifying past property uses and practices at Site M that may have contributed to environmental degradation or concerns. Property maps were also used to evaluate current physical conditions of the property and to focus on areas where there may be concerns regarding past or current waste management practices.

Several existing maps of the property were used in the preparation of this EBS report to locate topographic features, structural features, installation facilities and features and to supplement historical information. AutoCAD maps provided by Ft. Meade were used as the basis for the CERFA maps presented in Section 5 (Source Documents 16, 17, and 18).

2.5 INTERVIEWS

To facilitate the review of the Site M environmental history and practices, interviews of current employees involved in the operations at Site M were conducted. The purpose of the interviews was to support the determination of the ECOP.

Initial interviews of installation personnel were conducted on 3 and 5 November 2003 by the EBS study team. Table 2-8 provides a list of the individuals interviewed.

**TABLE 2-8: INTERVIEWS OF INDIVIDUALS INVOLVED
IN PAST OR CURRENT OPERATIONS**

NAME	TITLE	ORGANIZATION	TELEPHONE NUMBER	PERIOD ASSOCIATED WITH AREA OR INSTALLATION
Ronald Allen	Mechanic	Ft. Meade Golf Course Maintenance Facility	301-667-3774	1971-Present
Mike Doetzer	Ft. Meade Golf Course Superintendent	Ft. Meade Golf Course Maintenance Facility	301-667-3774	1989-Present
Tony Marino	Ft. Meade Club House Head Mechanic	Ft. Meade Golf Course Club House	301-677-5326 ext. 232	11 years
Jeff Thornberg	Manager Environmental Programs	Ft. Meade Environmental Management Office	301-677-9365	Present
Joe DiGiovanni	Manager USTs and Cultural Resources	Ft. Meade Environmental Management Office	301-667-9855	Present
Bob Johnson	Base Historian	Ft. Meade Historical Office	301-677-6966	Present

2.6 VISUAL INSPECTIONS

As required by CERCLA 120(h)(4)(A)(iv) and (v) and DOD guidance, a visual inspection of the real property and properties adjacent to the property was conducted and is addressed in this EBS report. The study team conducted on-site visual inspections of the property on 3 and 5 November 2003. Visual inspections conducted by the field team included grounds and buildings. Ten buildings were surveyed (two at the club house area and eight associated with the maintenance area). Findings associated with the buildings and grounds are discussed in Sections 3 and 4.

2.7 TITLE DOCUMENTS

CERCLA 120(h)(4)(A)(ii) and DOD guidance require a review of the “recorded chain of title documents regarding the real property.” For the EBS, tract maps and title and transfer documents were reviewed to identify the prior property owners at the time of transfer to the DA. The purpose of this review was to collect additional information concerning the prior use and ECOP at the time of transfer to DA. Previous ownership and the dates of transfer are presented in Table 2-9, and Appendix D contains copies of transfer documents and real estate maps obtained during the document review.

The title document review (Source Document 19) indicates that the property was obtained between 1919 and 1920. These owners were private individuals most likely using the land for farming, and no businesses are identified with the property in the legal deed. This finding is supported by the historical documentation pertaining to the construction of Ft. Meade (Source Document 20). A copy of the title transfer for the property is presented in Appendix D. No areas were identified for which prior ownership would indicate a potential for environmental concern.

TABLE 2-9: REAL ESTATE TRACT SUMMARY

TRACT NO.	ACREAGE	DATE	CURRENT/PREVIOUS OWNER(S)	REMARKS
1	10 acres	circa 1919*	Nathan Allen	Part of Site M
2	7.7 acres	July 18, 1919	Franklin H. Burke	Part of Site M
3	39.5 acres	July 22, 1919	John F. Clautice	Part of Site M
4	192.1 acres and 167 acres	June 21, 1919	Summerfield C. Disney	Part of Site M
5	44 ⁵ / ₈ acres and 117.9 acres	July 17, 1919	William T. Downs	Part of Site M

6	10 acres	circa 1919*	Walter H. Hart	Part of Site M
7	2 acres and 8.75 acres	August 5, 1919	Stephen Hebron	Part of Site M
8	132 acres	circa 1919*	Luther C. Sauerhammer	Part of Site M
9	94.7 acres	circa 1919*	Karl A.M. Scholtz	Part of Site M
10	2 ^{9/16} acres	February 24, 1920	John Henry and Helen Wright	Part of Site M

* circa 1919 deeds were not found but these parcels appear on U.S. Army maps as area owned by U.S. Government.

3.0 PROPERTY CHARACTERIZATION

This section presents an overview of past and current operations at Site M along with a discussion of potential environmental contamination associated with these operations. It provides a description of the installation facilities, and addresses past and current waste management practices based on available information.

Historic land uses of Site M and the rest of Ft. Meade have been researched and documented by various organizations conducting investigations of Ft. Meade. This information has been assembled and added to information collected through EBS record searches, interviews, aerial photos, and map reviews. This section also contains a general description of facilities previously located at the site and removed as described through existing documentation or site visits.

3.1 INSTALLATION HISTORY AND MISSION

In May 1917, Congress passed a bill authorizing the construction of 16 cantonments for training troops for World War I. On 23 June 1917, a general contract was signed by the government to lease the land from George Bishop, president of WB&A Electric Railroad Company. Bishop knew of the government plans to build several new cantonments and he believed the land along the railroad line would work well for this purpose. Bishop purchased the land or in some cases options on the land from the original property owners and subsequently transferred the land/options to the government. Prior to its transfer to the government, the land was used for farming (Appendix D) (Source Documents 16, 17, 18, and 19).

Construction on the cantonment began on 2 July 1917 and the area was named "Camp Meade" after Major General George G. Meade of the Civil War. The first troops arrived at Camp Meade on 15 September 1917 and were under the command of Major General Joseph E. Kuhn. The Camp was used to mobilize, train, and house parts of the 79th, 11th and the 92nd infantry divisions. During World War I, over 100,000 men and women were trained at Camp Meade.

Based on a review of available historical documents including maps, it was determined that the northern half of the cantonment area was located where Site M exists today. This area contained over 375 temporary wooden buildings including barracks, latrines, headquarters, YMCA, post office, and other unidentified support buildings. A review of available information indicates that temporary buildings located at Ft. Meade were typically one story, gable-roofed, wood-frame buildings supported by concrete piles. According to historic maps, the barracks were occupied by training battalions, field signal battalions, and infantry. At least one farmhouse and three cemeteries (associated with former property owners) were located on Site M (Source Documents 16, 17, and 20).

Several roads traverse the site. These roads are identified as West Loop (now Zimborski Avenue running north-south), Central Avenue (now Taylor Avenue running north-south and looping around the site between east and west loop roads), and East Loop (now Cooper Avenue). The main road along the southern boundary was identified as Portland Road (now Mapes Road running east-west). The division headquarters was located in the central part of Site M (near the

current club house) along with a connecting road which ran east-west between the parallel roads of Central Avenue and which was known as Headquarters Road. Several cross streets identified as 12th through 22nd streets are located throughout Site M. The areas to the south and east of Site M contained additional barracks and support structures including a garbage incinerator (further to the east). The area immediately to the north of Site M contained a hospital and amphitheater, while the area to the west appears to be undeveloped (Source Documents 16, 17, and 20).

When the war ended in November 1918, Camp Meade was used as a demobilization center for over 96,000 troops returning from Europe. During this time the government determined that the land underlying Site M and the rest of the cantonment area (over 7,500 acres) should be purchased and they began the process. In 1919 the Tank Corps was formed and located at Camp Meade. In addition, summer training camps were held at Camp Meade to provide military training for civilian personnel. Based on a review of an historic map dated June 1923, it appears that most of the barracks and support buildings occupying Site M have been removed. Approximately 16 buildings appear to remain on the site, and the majority of these buildings are concentrated along Portland Road (now Mapes Road). Four structures including the old farmhouse, a tower, and two buildings were observed to be located in the central part of Site M (the former headquarters location). It is also noted that the western portion of Site M (adjacent to West Loop Road, now Zimborski Avenue) is labeled as containing a firing range (far west at the edge of the site) and a mortar range (west and adjacent to West Loop Road). A well is noted in the northern part of the mortar range. Interviewees have reported dummy mortar rounds being found on the western part of Site M during maintenance of the golf course. The mortar and firing ranges were also delineated on a 1923 Special Military Map. The mortar range coordinates are approximately 76°45'31"/ 39°6'9" NW, 76°45'20"/ 39°5'52" SW, 76°45'15"/ 39°6'15" NE, and 76°45'6"/ 39°5'26" SE. The firing range coordinates are approximately 76°45'45"/ 39°6'3" NW, 76°45'43"/ 39°5'53" SW, 76°45'31"/ 39°6'5" NE, and 76°45'29"/ 39°5'56" SE. A 1924 map of Camp Meade shows a hospital located on Site M along Portland Road (now Mapes Road) near the intersection of East Loop Road. In 1928, Camp Meade was made a permanent installation and renamed Fort Leonard Wood. The name was changed in 1929 to Fort George G. Meade (Source Documents 17, 18, and 20).

Between the war years, Ft. Meade continued to be used as a training camp for military and non-military personnel, including citizens military groups, and the National Guard. According to interviewees, Army infantry tank training for Ft. Meade was also conducted during these years in the northwestern part of Site M (in the wooded area along Parks golf course hole #5). Given the conditions of the site (open land), it is probable that other training exercises including tank training were being conducted on Site M as well. Between 1938 and 1941, part of the first 9-hole golf course (the beginnings of Applewood golf course) was built on the southeastern part of Site M. A review of the 1938 aerial photograph also indicated that several areas classified as disturbed ground, building footprints, and possible dumps were present in the north and western parts of the site. No buildings (with the exception of the farmhouse in the former headquarters) are thought to be present; however, due to the scale of the 1938 aerial photograph this could not be confirmed. In 1941, a temporary building used as the golf course club house (constructed between 1938 and 1941) was demolished and a new permanent structure (identified as Building G-105) was constructed in its place. This structure was located in the central part of the site near

the former headquarters and south of the current club house location (Source Documents 16, 17, 18, and 19).

In 1941, Ft. Meade was expanded in response to the new Selective Service and Training Act in preparation for World War II. Ft. Meade acquired an additional 6,137.87 acres, increasing the size of the installation to over 13,800 acres. Trainees started arriving at Ft. Meade daily. Most of the 1.4 million troops who arrived at Ft. Meade passed through on their way to basic training or to field assignments in Europe; however, the 29th Division consisting on National Guard units was activated and assigned to Ft. Meade. Correspondence was found requesting Site M be developed for troop housing. Although controversy ensued, the existing golf course was ultimately left intact and barracks to house the new troops were constructed on other parts of the Fort. At this time the roads surrounding Site M had been renamed as Taylor, Zimborski, Mapes and Cooper. According to historical documents the western side of Site M was reportedly left open for troop training. According to other historical documents, training conducted at Ft. Meade during World War I reportedly involved negotiating an infiltration course (crawling under barbed wire on a simulated battlefield) while instructors detonated dynamite and fired live rounds over the heads of the troops. Training also reportedly involved firing guns, pieces of ordnance, and mortars along with vehicle (including tank and half track training). The specific type of training conducted on the western side of Site M was not identified in historical documents; however, interviewees have reported that tank training and troop maneuvers were conducted in the western and northern parts of Site M. According to historical documents troops were using existing infiltration courses in the northern part of Ft. Meade until a larger training course opened in the southern part. It is also noted that interviewees have reported finding pieces of hand grenades, spent bullets, and dummy mortar rounds during routine maintenance activities at Site M (Source Documents 11, 16, 17, and 20).

It is estimated that nearly 3.5 million people passed through Ft. Meade during World War II. Along with Ft. Meade's role in training troops, Ft. Meade also served as the Prisoner of War Information Bureau and housed some prisoners of war from Germany and Italy. Ft. Meade continued its mission to supply troops until 1945 when operations were changed. In May 1945, Ft. Meade became a separation center processing troops eligible for discharge. This operation continued into 1946. Construction of the golf course also continued during World War II. A review of the 1943 and 1947 aerial photographs indicate that several disturbed areas are present within Site M. The western part of Site M (west of Zimborski Avenue) is designated a training area and the eastern part (east of Zimborski Avenue) is designated a golf course. Several smaller dumps and training areas are located in the northern part of Site M. A map dated 1947 indicates that a full 18 holes of golf were available/present in the eastern part of Site M. The map also depicts three structures in the area of the club house. Additional historical documents indicate that a pump house with a well was constructed in 1949 in the area of the current maintenance operations (along Zimborski Avenue) (Source Documents 16, 17, 18, and 19).

By 1952, it appears that construction had been started for the second 18-hole golf course at Site M. Some training areas are still noted in the northern part of the site. Construction drawings from the 1950s show the planned golf course expansion west of Zimborski Avenue and to the northern part of Site M. Additional site maps from the 1950s show two buildings in the maintenance area, three buildings in the club house area and two structures in the former

headquarters area (a former farmhouse and another unidentified building). By 1957, the second 18-hole golf course has been constructed. Both courses (Parks and Applewood) exist as they do today. The northern site boundary (Rockenbach Road) and part of the western boundary (O'Brien Road) had also been constructed. Based on a review of the 1957 aerial photograph, it appears that four or five structures are present in the maintenance area and three or four structures are present in the club house area (Source Documents 15, 16, 17, 18, and 19).

From 1957 to the present, the layout of golf course appears to have remained that same. The locations of the individual holes have generally remained in the same locations; however, by 1963 a practice/driving range was added and by 1995 the location of the club house was moved and a new club house was constructed. The area to the west of the golf course (not included as part of Site M) was developed (NSA) but the areas to the northwest and southwest have become forested and less developed with the exception of a few small AOIs thought to be areas of dumping. The maintenance and club house areas continued to change over the years with the addition, subtraction, and renumbering of buildings. Information pertaining to the current and past facilities is included in Section 3.2 below. The area surrounding Site M has undergone numerous changes since 1957. The area north and east of Site M, part of the original cantonment, is now occupied with base housing. Areas to the south of Site M continue to house base operations; however, several tenants now occupy part of Ft. Meade (Source Documents 3, 15, 16, 17, and 18).

3.2 DESCRIPTION OF FACILITIES

Site M has two areas of buildings: the maintenance facility and the club house area (Table 3-1 and Figures 3-1 and 3-2). Both areas are associated with the golf course and have gone through several changes over the years. At present the club house area consists of two buildings, the club house and the driving range service building constructed in 1995. The club house is a two-story building that houses a lounge, kitchen, pro shop, and cafeteria on the ground level along with a golf cart maintenance and storage area in the basement. A 525-gallon gasoline AST associated with refueling of the golf carts is located on the east side (lower level) of the building, along with an oil/water separator used in cleaning the golf carts. The driving range service building shop, a one-story wooden structure located adjacent to the driving range, was opened along with the club house in 1995. There are no tanks associated with this building. Both buildings are surrounded by asphalt parking lots also built in 1995 (Source Documents 16 and 17).

Historically, the club house area was located further to the south (identified as AOI 9 in the aerial review). The former club house area consisted of three buildings identified as the club house (Building G-105, renumbered as 6865), pro shop (formerly 6864) and the golf cart storage building (Building 6866). The former club house and pro shop were demolished in 1995 and these operations were moved to the new club house building in 1995. The original golf cart storage building was located to the west of the club house and it was constructed prior to 1962. This building was replaced by a larger steel/metal building in 1989. This larger building was subsequently moved to the maintenance area in the early 1990s. Golf cart storage was moved to the basement of the newly built club house (Source Documents 10, 16, and 17).

TABLE 3-1: FACILITIES PRESENT ON-SITE

INSTALLATION / FACILITIES	YEAR CON-STRUCTED*	CONSTRUCTION TYPE	FACILITY USE	SURVEY TYPE/VISUAL EVIDENCE OF CONTAMINATION
CLUB HOUSE AREA				
Club house	1995	Concrete block and wooden structure on concrete slab with basement	Casual dining, lounge, patio, cart maintenance	Walk through survey. Minor staining but no evidence of gross contamination.
Driving range shed	1995	Concrete block and wood structure on concrete slab	Driving range equipment storage	Walk through survey. No evidence of contamination.
MAINTENANCE AREA				
Pump house Building 8860	1949	Concrete block structure with wood frame roof. Eastern half built on concrete slab (approx. 225 square feet)	Former water pump house in eastern half and former oil and hazardous material storage in western half	Walk through survey. Staining observed on dirt floor of western side of pump house.
Maintenance Building 8870	1989	Steel frame metal siding structure on concrete slab (4,800 square feet)	Pesticide/herbicide/fertilizer storage	Walk through survey. No staining but minor spillage of fertilizer/pesticides.
Maintenance Building 8880	1964/1970	Steel frame/metal siding quonset hut structure on concrete slab (4,000 square feet)	Equipment storage/POL and degreaser storage used for maintenance	Walk through survey. Staining and minor spillage of fertilizer/pesticides in front of building.
Maintenance Building 8890	1989	Steel frame metal siding structure on concrete slab (4,000 square feet)	Office/lockers/break room/mechanic workshop POL and degreaser storage used for maintenance	Walk through survey. Staining and minor spillage of POLs associated with maintenance activities.

TABLE 3-1: FACILITIES PRESENT ON-SITE

INSTALLATION / FACILITIES	YEAR CON-STRUCTED*	CONSTRUCTION TYPE	FACILITY USE	SURVEY TYPE/VISUAL EVIDENCE OF CONTAMINATION
Hazardous Material Storage Building 8890A	1988-1989	Concrete block building built on concrete slab with built-in secondary concrete containment (approx. 144 sq ft)	RCRA hazardous materials storage (i.e. pesticides and herbicides)	Walk through survey. Minor floor staining
Hazardous Waste Storage Locker Building No. 21	circa 1993	Steel building with built-in secondary containment (approx. 25 sq ft)	Temporary storage of used antifreeze and other materials.	Walk through survey. No evidence of contamination.
Metal Rollaway shipping container – no Building No.	circa 1989	Steel container (approx. 25 sq ft) no secondary containment	Storage of tires and lawn mower parts (current) and formerly housed used oil.	Walk through survey. No evidence of contamination.
Maintenance Equipment Wash Area and Building	2003	Wooden structure on concrete slab. (approx. 80 sq ft)	Oil/Water Separator, Wash Maintenance Equipment	Walk through survey. No evidence of contamination.

The maintenance area has gone through many changes over the years. At present, there are five buildings located in the maintenance area (Table 3-1). Using past maps and building plans, it is known that in 1961 there were seven buildings in the maintenance area including a pump house (8860) and six temporary buildings identified as T-8871, T-8872, T-8873, T-8880, T-8883, and T-8890. From aerial photographs it was observed that by 1970 five of the buildings had been removed and one U-shaped building (three connected buildings) had been constructed at the spot of the former Building T-8890, the largest of the buildings that had been removed. The new building was identified as 8890. Buildings T-8880 and T-8860 were still in use during this period. It was reported that a lean-to structure, as well as Buildings T-8880 and T-8860, were being used for the storage of supplies (i.e., oil, pesticides, etc.). In the late 1980s a hazardous material storage building (Building 8890a) was constructed and two containers were placed at the site for the temporary storage of hazardous wastes until their delivery to the Environmental Management Office (EMO). In 1989, portions of the U-shaped building were removed and a new equipment storage building was constructed. Circa 1993, the former golf cart storage

FIGURE 3-1: GOLF COURSE CLUB HOUSE



FIGURE 3-2: GOLF COURSE MAINTENANCE



building from the club house area was moved to the maintenance area, and former Building T-8880 was removed. The buildings were subsequently renumbered. The most recent additions to the maintenance facility (a cart washing area with cement pad, an oil/water separator, and storage shed) were completed in Spring 2003. The five buildings currently on-site at the maintenance area are: 1) equipment storage building (8890); 2) quonset hut/equipment storage (8880); 3) old cart storage building (8870); 4) pump house (concrete building 8860); and 5) hazardous materials storage building (concrete building 8890A). There are two other structures within the maintenance facility area that are not permanent. The first is Building 21, a metal storage locker that is used to store hazardous waste awaiting disposal. The second is a storage shed/rollaway (no building number) located north of Building 8890 that is used to store old tires and a lawnmower. There are four ASTs and one UST associated with the maintenance buildings. A septic tank was removed from Building 8870 in 2003. Table 3-1 provides a list of the site facilities and structures that were visually inspected (Source Documents 10, 16, and 17).

3.3 FACILITY SUPPORT ACTIVITIES

Site M is currently active. The past and present facility support activities identified in this section are based on reasonably obtainable information, including interviews, site inspections, and document reviews.

3.3.1 Hazardous Materials/Waste Management

Historically, hazardous materials were stored in the area of the former club house as well as within buildings previously located in the maintenance area. Based on a review of available information, two of these buildings that historically housed these materials remain. These are identified as Buildings 8860 and 8880. According to interviewees, waste materials were collected and disposed of by the EMO at Ft. Meade. Currently, hazardous materials and hazardous waste are located in a number of buildings at Site M. The following buildings were observed to have hazardous materials storage/waste: the club house, 8890, 8890A, 8880, 8870, 8860, and Building 21. These buildings are discussed in more detail below.

The club house has very few hazardous materials/wastes and most are found in the basement of the golf cart storage/maintenance area. They have used oil, which is placed in 55-gallon drums and then taken to the maintenance area for disposal into the 800-gallon used oil AST. Other industrial chemicals that are found on the premises include gas, solvents (water-based), spray cans of solvents, cleaners (poly clean golf cart cleaner), and polish. These materials are stored in a separate room in the basement adjacent to the cart maintenance area. The chemicals are supplied to the club house via the maintenance facility. Hazardous waste is returned to the maintenance facility for disposal. There were several used golf cart batteries observed in the basement during the site visit. According to representatives, batteries had been sent to a recycler, but now are disposed of by maintenance personnel (Source Documents 11 and 13).

Building 8890 is the golf course maintenance department offices, and part of the building is used for equipment maintenance activities. Used oil is transferred in this building to a tank that exists outside the building. Some staining was noted on the concrete floors in the areas used for oil

transfer and oil-changing operations. There were several 55-gallon drums of oil and solvents observed in the building likely stored for future maintenance operations. In the northern end of the building (a separate maintenance bay) there are several flammable materials storage cabinets containing solvents, paints, and grease used in maintenance operations. Several stains were noted on the concrete floor in this area. The small size and location of the stain indicated that it is not likely that operations have impacted the subject site (Source Documents 7, 11, and 13).

Building 8890A is used for the storage of hazardous materials. There are two signs on the building. They state “Danger Poison” and “Hazardous Materials Firemen Wear Self Contained Mask.” Chemicals/products (i.e. fertilizers, pesticides and herbicides) awaiting use are stored in this building. There are two small rooms with shelves in which the chemicals are stored. Some of the chemicals that can be found in the building are chelated iron, diquat dibromide, Trimec Plus, Confront, etc. Most of the chemicals are for use in the treatment and upkeep of the golf course fairways and greens. Staining was observed on the concrete floor of the building; however, it is noted that secondary containment is present. Therefore this staining is not expected to have impacted the subject site (Source Documents 7, 11, and 13).

Building 21 is a dedicated hazardous waste structure. The signs on the front say “Caution Flammable Keep Fire Away” and “Hazardous Waste Storage.” All hazardous waste is placed in this structure to await pick-up by the DRMO for disposal. No staining was observed in or around this building (Source Documents 7, 11, and 13).

Building 8880 is divided into a maintenance area and an equipment storage area. The maintenance area contained a flammable materials cabinet, gas can, grease, paint and hydraulic oil. A degreasing machine was also observed in the corner of the building, but EBS study team personnel were informed that the machine, which used water-based degreasers, was no longer in use. Gas cans, degreasers, pesticides and herbicides were noted in the equipment storage area. Minor staining was noted on the floor in the maintenance area and the equipment storage areas. The small size and location of the stain indicated that it is not likely that operations have impacted the subject site (Source Documents 7, 11, and 13).

Building 8870 is used for the storage of non-hazardous, but possibly dangerous, materials. The sign on the door reads “Danger, Fire Will Cause Toxic Fumes, Poison Storage Area.” Several items including fertilizers, herbicides, top soil, rock salt, mulch, grass seed, degreasers, insecticides, and paints were noted in the building. Minor staining was noted on the floor in the building. The small size and location of the stain indicated that it is not likely that operations have impacted the subject site (Source Documents 7, 11, and 13).

Building 8860 is the pump house. This building houses the pump that distributes water to the sprinkler system for the golf course. However, there is a small room on the west side of the building with signage indicating “Flammable No Smoking.” Several drums and cans of used oil, grease, lubricants, asphalt roof coating, wood preservatives and other unlabeled drums were present in the building. Obvious staining was observed on floor of the building. The floor was comprised of gravel and wood planks. According to golf course maintenance personnel this may have been the former storage location for supplies as well as waste material awaiting disposal prior to 1989. Past storage operations associated with this area may have impacted the subject site. This area is further discussed in Section 4 (Source Documents 11 and 13).

3.3.2 Solid Waste/Landfill Management

There are no permitted or authorized landfills on Site M property. However, four former disposal areas were found on the site. These areas are AOI 1, AOI 2, AOI 3, AOI 6, and AOI 16. AOI 1 is the largest area. From aerial review it appears that the area was active from 1957 to 1995. The height of activity was observed to be in 1970 when it appeared to be its largest size. By 1995, the area had become overgrown by vegetation and no longer appeared to have active disposal. Drums, tires, and metal remains were observed during the site visit to this AOI. A 2004 geophysical survey of possible dump sites on Fort Meade, performed by Versar Inc. (Versar), also delineate this area as a possible dump. This survey indicated the presence of numerous metallic objects, including scrap metal, automobile bodies, axles, pipes, and household appliances. The visual, geophysical, and historic evidence all identify this AOI as a landfill. AOI 2 appears from aerial review to be an active site from 1938 until 1952. In 1952, the ground appears to have been leveled off, and vegetative growth was observed. Some debris was observed during the site walkover in this area, and the vegetation was less dense than found in other wooded areas. A 2004 geophysical survey of possible dump sites on Fort Meade, performed by Versar, also delineate this area as a possible dump. Preliminary results of the geophysical investigation indicated the presence of a magnetic anomaly in this AOI. AOI 3 was not observed as an obvious disposal area during the aerial review process; however, the area had noted debris during the walkover (i.e., drums, metal, etc.). AOI 6 was observed as a general ground scarred area from 1938 to 1957. General debris, including metal cans, pieces of pipe, and a fire hydrant, was observed in this wooded area during the site visit. Past storage operations associated with these areas have likely impacted the subject site. AOI 16 was identified by the EPA in 1996 as a possible old dump, a training area, or an old training area in the analysis of 1938, 1943, and 1952 aerial photographs. The AOI was reforested, but visible, in the 1957, 1963, 1970, 1975, 1988, and 1995 aerial photographs. Geophysical investigations performed by Versar, in 2003 indicate that two anomalies and a row of anomalies in a soil mound located near the center of the AOI. The geophysical survey concluded that there was little evidence to suggest that this AOI was a former dump or landfill; however, the investigations did indicate that the soil within the AOI have been disturbed to a depth of 5 ft or greater. These areas are further discussed in Section 4 (Source Documents 11, 13, 15 and 22).

3.3.3 Underground Storage Tanks/Aboveground Storage Tanks

Currently there is a 525-gallon gasoline AST associated with the new club house. There is also an oil/water separator for washing carts adjacent to the AST near the entrance to the basement in the southeast corner of the building. The 525-gallon gasoline AST has secondary containment, and, according to interviewees, the separator is cleaned regularly; therefore, they are not likely to have an impact on the subject site (Source Documents 11 and 13).

Currently there are four double-walled ASTs and one UST associated with the maintenance area buildings. Building 8890, office and vehicle maintenance, has an 800-gallon used oil UST and a 1000-gallon fuel oil AST that were installed in the 1990s. Building 8880, which is used for equipment storage/minor maintenance, has a 1000-gallon gasoline/diesel AST and a 550-gallon fuel oil UST that were installed in the 1990s. Building 8870, fertilizer storage and plumbing, has a 1000-gallon fuel oil AST that was installed in the 1990s. In Spring 2003 an oil/water separator

was also installed north of the maintenance area in association with the equipment washing station. Minor staining was observed at the pumps associated with the 1000-gallon gasoline/diesel AST; however, the UST, ASTs, and oil water separator are not likely to have an adverse environmental impact on the subject site (Source Documents 7, 10, 11, and 13).

3.3.4 Drinking Water Management

Ft. Meade operates its own water treatment plant, which receives water from the Little Patuxent River and groundwater wells installed to remove water from the Patuxent Aquifer. Site M receives its water from this water treatment plant (Source Document 18).

3.3.5 Stormwater Management

Stormwater percolates into groundwater or flows over land into drainage swales that drain into the Midway Branch that flows through the site. The Midway Branch eventually flows into Soldier Lake south of the site (Source Documents 7 and 18).

3.3.6 Sewage Treatment

No sewage treatment activities or equipment exist on Site M; however, as discussed in Section 2, Site M has used treated effluent to irrigate the golf courses since 1984. Ft. Meade has a sewage treatment plant that treats 4.6 million gallons of water daily. Buildings located at Site M are tied into the sewage treatment plant. Previously sewage tanks existed in the maintenance area; however, these tanks have been removed (Source Documents 11 and 17).

3.3.7 Electrical Power Generation

Power is supplied to property by the Baltimore Gas and Electric Company. No electrical power is generated at the site. There are seven transformers located on Site M. Three transformers are located south of the maintenance area along Zimborski Avenue on a utility pole. Three additional pole-mounted transformers are located south of the golf course at the entrance along Mapes Road. One pole-mounted transformer is located east of the baseball field on Mapes Road. These transformers were labeled non-PCB and they were not observed to be leaking; therefore, they are not likely to have an impact on the subject site (Source Document 13).

3.3.8 On-Site Housing

As documented in Section 3.1, a cantonment area was located in the middle of Site M during World War I. The housing was subsequently removed after World War I and there is no on-site housing associated with the property.

3.3.9 Medical Activities

Historical documents indicate that a hospital was at one time located along Mapes Road west of Cooper Avenue (circa 1924). No medical activities have been conducted at the site since the

World War I timeframe and no evidence of the hospital remains (Source Document 11). No other information was found about this hospital.

3.4 SENSITIVE ENVIRONMENTS

There are reportedly no sensitive environments located within the property. One plant species, the shave sedge (*Carex tonsa*), present within Site M had formerly been listed as “highly rare” under the Maryland Department of Natural Resources Heritage Program. Two species, the chiquapin (*Castanea pumila*) and Asa Gray’s sedge (*Carex grayi*, aka, *Cyperus grayi*), also occur on the site and had formerly been listed as “watchlist” species (Source Documents 2, 3, and 18).

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4.0 INVESTIGATION RESULTS

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

- Sources of potential contamination that have been addressed in prior reports
- Sources of potential contamination that have not been addressed by previous investigations
- Adjacent properties that may be potential sources of contamination to the installation property
- Areas containing contamination substances not regulated by CERCLA (non-CERCLA)
- Remediation activities that have occurred

4.1 PREVIOUSLY IDENTIFIED SOURCES OF POTENTIAL CONTAMINATION

In 1999, the Ft. Meade EMO contracted Versar to conduct a site visit and collect soil and groundwater samples at six solid waste management units (SWMUs) identified by EMO and located in the golf course maintenance area (part of Site M). The SWMUs were identified as SWMUs 131, 132, 133, 135, 136, and 137. The SWMU numbers correspond to four buildings located in the maintenance area of the Ft. Meade golf course. After the initial survey and data collection trip, Versar was again contracted by Ft. Meade to conduct a follow-up site investigation (SI) in the maintenance area. Versar performed a two-phase investigation of the current golf course maintenance facility for the Ft. Meade EMO. Soil samples were collected from 44 drilling locations. Groundwater samples were collected from 10 of the 44 locations. Soil samples were submitted for analysis of gasoline range organics (GRO), diesel range organics (DRO), volatile organic compounds (VOC), semivolatile organic compounds (SVOC), pesticides, herbicides, and RCRA metals. One groundwater sample collected during the first phase was analyzed for DRO/GRO, VOC, and RCRA metals. The nine groundwater samples collected during the second phase were analyzed for VOC, SVOC, herbicides, and pesticides. Results were compared to MDE standards for cleanup of soil and groundwater, as well as EPA Region III tap water risk-based concentrations (RBCs) (Source Document 7).

Versar reported 1,1,2,2-tetrachloroethane (79 ug/L) in the groundwater sample collected from adjacent to and downgradient (east) of the concrete foundation in the northern portion of the area. SWMUs 131 and 132 are located at this concrete pad. The reported concentration exceeded both the tap water RBC and the MDE cleanup standard for groundwater. Concentrations of 1,1,2,2-tetrachloroethane (0.9 ug/L) also exceeded the RBC in a sample collected east of the southeast corner of Building 8870. Heptachlor epoxide (0.12 ug/L) was also reported in concentrations exceeding the RBC at this location (Source Document 7).

Soil samples collected from three locations reported concentrations of constituents exceeding either MDE soil cleanup standards or RBCs: two adjacent to and east and northeast of Building 8860, and one adjacent to and north of Building 8880. The VOC 1,1-dichloroethene (84.9 ug/kg) exceeded the MDE protection of groundwater soil cleanup standard in the sample collected from just north of Building 8880. The concentration did not exceed the MDE

residential soil cleanup criteria or the RBC. Pesticides heptachlor epoxide (78 µg/kg) and gamma and alpha chlordane (1,840 µg/kg) exceeded the RBC in the sample collected off of the northeast corner of Building 8860. Gamma-BHC (134 µg/kg), reported in the sample collected east of Building 8860, exceeded the MDE soil cleanup standard for protection of groundwater. Metals were reported in concentrations exceeding the RBC and MDE cleanup standards. However, the reported concentrations did not exceed the eastern Maryland anticipated typical concentration (i.e., background). The potential presence of hazardous constituents in soil and groundwater above MDE cleanup criteria may impact future use of the site. This is further discussed in Section 5 (Source Document 7).

In October 2003, the Ft. Meade EMO identified three additional SWMUs located on Site M. These three SWMU corresponded to AOIs identified by the project team during the early phases of this EBS (Table 2-7). Ft. Meade contracted Versar to conduct geophysical investigations at these SWMUs. As part of this EBS, Berger/EA was tasked with conducting a limited SI. The results of the Versar geophysical investigation were reviewed by Berger/EA prior to conducting the SI sampling activities. Samples were located by Berger/EA in those areas investigated by Versar to evaluate the soil and groundwater in those areas. The results of the SI are discussed in Section 4.2 below.

4.2 POTENTIAL CONTAMINATION AREAS IDENTIFIED DURING THE EBS INVESTIGATION

Twenty areas of potential contamination were identified during the EBS investigation. These areas were labeled AOI 1 through AOI 19 (note that one area is designated as a sub-area of AOI 13 [13A]) as indicated in Table 2-7. These areas were selected based on a review of historical documents and based on the conditions observed during the site visit. Areas of dumping/burial, ground scarring, and disturbed sites were typically included in the list. A limited SI was conducted concurrently with the beginning phases of the EBS to further evaluate the AOIs. The project team performed a field investigation between 15 December 2003 and 30 December 2003 that included collection of samples from 16 of the 20 AOIs identified. It was determined that no sampling was necessary for four of the AOIs (AOIs 10, 12, 15, and 19). The SI included collection of 44 subsurface soil samples from 44 locations established throughout 16 of the 20 AOIs. Six additional surface soil samples were also collected; five were placed adjacent to golf greens (not identified as AOIs) and one targeted a stained area within Building 8860 (part of AOI 5). Thirteen groundwater samples were collected from a subset of the soil sampling locations. Samples were analyzed for VOC, SVOC, pesticides, PCBs, explosives, metals, DRO, GRO, and oil and grease. A complete report of the sampling methodologies and results is included in Appendix E.

Sample results were compared to MDE cleanup standards for soil (residential, non-residential, and protection of groundwater) and groundwater. Results indicated pesticides, metals, and DRO in site soil exceeded MDE soil cleanup standards, and metals and PCB in groundwater exceeded groundwater cleanup standards.

For soil, pesticide exceedances were limited to results from samples collected adjacent to the golf greens. Pesticides exceeding the residential soil cleanup standards were reported in four of the five samples and included alpha-chlordane, dieldrin, and heptachlor epoxide. Reported

concentrations of pesticides also exceeded the protection of groundwater soil standard in each of the samples collected. Exceedance of the non-residential standard occurred in one sample. Exceedance of the MDE standard/background concentration for metals occurred in samples collected from AOIs 1, 2, 3, 5 (surface soil only collected from within Building 8860), 8, 11, and 14. Exceedances were limited to arsenic in AOIs 2, 3, 8, and 14 and may be attributable to natural background. In AOIs 1, 5, and 11, the reported metals appear to be relatively higher, potentially indicating an impact from site activities. DRO reported in the surface sample collected from AOI 5 (Building 8860) also exceeded both the residential and non-residential soil cleanup standards. The potential presence of these constituents in soil and groundwater above MDE cleanup criteria may impact future use of the site. This is further discussed in Section 5.

For groundwater, the PCB aroclor 1260 was reported in the sample collected from AOI 13 at a concentration exceeding the MDE cleanup standard. Metals, particularly aluminum, iron, and manganese, exceeded the standard in the majority of the groundwater samples collected from within Site M. These three metals appear to be attributed to naturally occurring background concentrations. However, a background evaluation was not performed as part of the SI, so this could not be confirmed. Additional metals, including cobalt in AOI 8, and lead and nickel in AOI 16, exceeded the MDE standard and may be attributable to potential impact from site activities. The potential presence of these constituents in soil and groundwater above MDE and EPA cleanup criteria may impact future use of the site. This is further discussed in Section 5.0.

4.3 SOURCES OF POTENTIAL CONTAMINATION FROM ADJACENT OR SURROUNDING PROPERTY

4.3.1 Surrounding Areas of Fort Meade

Based on a review of additional documentation it has been determined that Ft. Meade proper (including other operational areas outside Site M) is listed in the following federal databases: NPL, RCRIS LQG, RCRIS TSDF, CORRACTS, PADS, CERCLIS, and FINDS. As noted in Section 2.0 the EDR report did not list any specific sites within Ft. Meade as being within the prerequisite distances from Site M. The following information is based on a review of additional documentation (including previous reports completed for Ft. Meade) completed to further evaluate potential impact from surrounding properties to the subject site.

Available information indicates that the Ft. Meade EMO identified approximately 152 SWMUs in 1996. Four of these sites led to the listing of Ft. Meade as an NPL site (28 July 1998), and a Federal Superfund Site. These four sites were identified as 1) The post laundry facility (Building 2250); 2) the active sanitary landfill; 3) the DRMO drum site (next to Building 77); and 4) the clean fill dump (part of the area transferred under BRAC). One of these sites was also listed in the RCRIS LQG, RCRIS TSDF, FINDS, CERCLIS, and CORRACTS databases. All four of the NPL sites are located in the southern portion of Ft. Meade downgradient of the subject site; therefore they are not likely to have an impact on the subject site (Source Documents 3 and 5). The PADS site identified within Ft. Meade is listed as being located on Berger Street, which is greater than a mile from the subject site; therefore, it is not likely to have an impact on the subject site.

4.3.2 NSA

Based on a review of additional documentation it has been determined that the NSA facility (listed as 9800 Savage Road) is included in the following federal databases: RCRIS LQG, PADS, and FINDS as well as the state UST and AST databases. Portions of the NSA facility along O'Brien Road are immediately adjacent and up gradient of Site M. Interviews with NSA officials did not identify the sources of the federal database listings. The listings are registered to the main NSA address (9800 Savage Road); therefore, it is unclear whether these listed sites will impact the subject site.

4.4 OTHER ENVIRONMENTAL, HAZARD, AND SAFETY ISSUES

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

4.4.1 Asbestos-Containing Material (ACM)

With the exception of Building 8860, most of the buildings present on Site M were constructed or remodeled after 1985. Based on the site visits conducted during the EBS no ACM material was noted in the remaining buildings.

4.4.2 Lead-Based Paint (LBP)

In preparing the EBS, a records review did not identify LBP surveys associated with Buildings 8860 and 8880. During the site visit it was observed that the buildings had not been painted in several years and flaking peeling paint was observed around the buildings. Due to the age of the buildings it is suspected that most of the existing paint is LBP. Prior to conducting future remodeling activities, it is recommended that the paint be sampled and removed/encapsulated if necessary.

4.4.3 Polychlorinated Biphenyls (PCBs)

Seven transformers were observed to be located on the property. These transformers are labeled non-PCB and they were not observed to be leaking; therefore, they are unlikely to have an impact on the subject site (Source Documents 3 and 11).

4.4.4 Unexploded Ordnance (UXO)

UXO is a potential contaminant of concern on Site M. Site M was used historically for several different training activities during World War I, World War II and in between. A War Game Map from 1922 shows a mortar range and a pistol range on the western edge of Site M (AOI 8) and historical documents indicate that Site M was being used for troop training. Maintenance personnel have found pieces of ordnance including spent bullets, dummy mortar rounds, and pieces of exploded hand grenades during routine use/maintenance of the golf course. Based on

the planned development of the site, the potential presence of UXO should be addressed in AOIs 6 and 8 (Source Documents 11, 13, 15, and 17).

4.4.5 Radionuclides

No radioactive materials were observed on site during the EBS investigation. There also is no evidence that radioactive material was ever stored or used on site (Source Documents 11 and 13).

4.4.6 Radon

According to area radon information, as obtained from EPA Region III Statistical Summary for zip code 20755, 100 percent of the sites (10 sites tested) exhibited readings less than 4.0 picocuries per liter (pCi/L). In addition, the U.S. Army completed radon monitoring at Ft. Meade in 1990. The U.S. Army found indoor radon concentrations below 4.0 pCi/L. The action level for radon mitigation, as determined by the EPA and adopted by the U.S. Army, is 4.0 pCi/L; therefore, it is concluded that the area exhibits a slight propensity for radon (Source Documents 5 and 18).

4.4.7 Pesticide Usage

Pesticides, herbicides and fungicides are used to maintain the two golf courses located on Site M. Pesticide, herbicide, and fungicide storage areas occur within Buildings 8890A and 8870, with some minor amounts stored in Building 8880. Table 4-1 lists those chemicals used at Site M from 1 October 2002 through 30 September 2004. As noted in Section 2.2.4, Site M's storage facilities have been inspected several times by the Maryland Department of Agriculture Office of Plant Industries and Resource Conservation Pesticides Regulation Section since 1990 to review pesticide application (i.e., equipment, pesticides, applicator training, etc.). The Maryland Department of Agriculture found that the chemicals were being properly used and stored by the maintenance staff. There was no documentation found regarding spills or misuse of these chemicals at Site M.

As discussed in Section 4.2, a limited SI was conducted by the EBS project team as part of the EBS effort. Five surface soil samples were collected from areas adjacent to five golf greens during the limited SI. Results of the soil analysis indicate pesticide exceedances of the residential soil cleanup standards in four of the five samples. These pesticides include alpha-chlordane, dieldrin, and heptachlor epoxide. Reported concentrations of pesticides also exceeded the protection of groundwater soil standard in each of the five samples collected.

CERCLA (Title 42 Chapter 103 Subchapter I, Section 9607(f)(2)(i)) allows for reporting and liability exclusions for the use of a pesticide product registered under FIFRA. This allows for use of specified pesticides and herbicides as long as they are used as directed by the manufacturers. According to golf course maintenance personnel, pesticide application occurs on greens and to a lesser extent on the fairways and tee boxes according to the application instructions (i.e., recommended mixing strength and volume). Based on a review of available

TABLE 4-1: FT. MEADE GOLF COURSE (SITE M) YEARLY PESTICIDE SUMMARY

Herbicide and Plant Growth Regulators		
<u>Commercial Name</u>	<u>Generic Name</u>	<u>Active Ingredient (lbs)</u>
Embark Turf & Ornamental	Mefluidide	0.5
Riverdale Cool Power	2-Methyl-4-chlorophenoxyacetic acid (MCPA)	8.00
	Triclopyr	0.80
	Dicamba	0.80
Confront	Triclopyr	9.70
	Clopyralid	3.25
Dimension	Dithiopyr	42.20
Ronstar	Oxadiazon	13.90
Manage	Halosulfuron-methyl	0.68
Total		79.83
Fungicides		
<u>Commercial Name</u>	<u>Generic Name</u>	<u>Active Ingredient (lbs)</u>
Chipco 26 GT	Iprodione	27.1
Con-Syst	Thiophanate-methyl	24.0
Daconil Ultrex, Con-Syst	Chlorothalonil	286.0
Emerald	Boscalid	2.1
Insignia	Pyraclostrobin	0.5
Banner Maxx	Proconazole	5.5
Scotts Fungicide IX	Chloroneb	3.4
	Thiophanate-methyl	1.7
Curalan	Vinclozolin	42.5
Fore, Pentathalon	Mancozeb	113.8
Heritage	Azoxystrobin	3.8
Bayleton	Triadimefon	6.8
Total		517.2
Insecticides		
<u>Commercial Name</u>	<u>Generic Name</u>	<u>Active Ingredient (lbs)</u>
Scimitar	Lambda-cyhalothrin	0.25
Carbaryl 4L, Sevin	Carbaryl	35.30
Total		35.55

inspection records it appears that pesticides, herbicides and insecticides have been used at Site M golf course areas in accordance with manufacturers' specifications. Although past pesticide and herbicide usage was reportedly conducted in accordance with manufacturers' specifications, it was determined that residual pesticide concentrations are present in soil and groundwater above MDE residential standards. Based on the proposed future use of the property as a business center and the fact that the proposed facility will be connected to public water and sewer, past

pesticide/herbicide use is not likely to have an adverse impact on future use of the subject site. This past pesticide use should not impact property transfer; however, a qualifying statement should be added to the transfer document to indicate that soils and groundwater should be evaluated to determine pesticide and herbicide levels if the future use of the site changes (i.e., if future groundwater or residential use is planned).

4.5 REMEDIATION EFFORTS

4.5.1 Past Remediation Efforts

Records reviewed and personnel interviewed identified several historical USTs associated with Site M. Past remediation efforts include the removal of these USTs and soil associated with the USTs as well as groundwater monitoring in one case. Below is a summary of the removal actions identified during the records review.

Five USTs were historically associated with four buildings in the former club house area (AOI 9). Building T-6864, the former Pro-Shop, had a 550-gallon fuel oil UST used for heating that was removed in 1994. Building T-6865, the former club house, had a 550-gallon fuel oil UST used for heating that was removed in 1994. Building T-6866 had two 275-gallon gasoline USTs used for fueling golf carts that were removed in 1993. Building T-6885, unknown use, had a 500-gallon fuel oil UST that was removed after demolition. Closure documentation did not indicate the need for additional action at the location of these USTs; therefore, they are not likely to have an impact on the subject site (Source Documents 10, 11, and 17).

The maintenance area had five USTs historically associated with Building T-8880 (formerly labeled T-8890 and no longer present) that have been remediated. In 1990, a 550-gallon diesel UST associated with Building T-8880 (maintenance area) was found to be leaking. The Ft. Meade EMO supervised the removal of the tank and contaminated soil. Two monitoring wells were installed in September 1990 and the groundwater was sampled for total petroleum hydrocarbons (TPH) and naphthalene. In 1992, a 2,000-gallon gasoline UST, adjacent to the former leaking diesel tank, was also found to be leaking. The tank and contaminated soil were subsequently removed and two additional monitoring wells were installed in October 1992. The wells were subsequently sampled for TPH, benzene, toluene, ethylbenzene, xylene (BTEX), methyl tertiary butyl ether (MTBE), and naphthalene. The wells were abandoned as directed by MDE in April 1996 after MDE Hazardous and Solid Waste Management Administration determined that the groundwater results indicated that the water is in compliance with MDE cleanup standards. One 500-gallon fuel oil UST and one 290-gallon diesel fuel UST were removed in 1993; and one 1,000-gallon gasoline UST installed circa 1990 was removed in 2000. Closure documentation indicates that sites were closed and no further action was recommended; therefore, they are not likely to have an impact on the subject site (Source Documents 10, 11, and 17).

Historically there were two other USTs located on Site M. Building 6926, a former farm house, reportedly had a 550-gallon fuel oil UST removed in 1990 when the house was demolished. Building 6983 (location and use could not be confirmed) had a 550-gallon fuel oil UST. It

appears that the UST was removed; however, the status of this UST needs to be confirmed. Upon receipt of additional information from Ft. Meade this section will be updated (Source Documents 10, 11, and 17).

4.5.2 Ongoing Remediation Efforts

There are no ongoing remediation efforts.

4.5.3 Planned Remediation Efforts

There are no planned remediation efforts documented for the property at this time.

5.0 ENVIRONMENTAL CONDITION OF THE PROPERTY AREA

This section presents the parcelization of the property in accordance with the criteria described in the CERFA guidance and the DOD *BCP Guidebook*.

The study team identified discrete parcels on Site M based on the CERFA categorization scheme. This parcelization was based on a review of installation documents, Federal, state, and local records, interviews with installation personnel, and visual inspections of Site M and adjacent properties in November 2003. This CERFA parcelization represents the ECOP area. The parcels and corresponding categorizations are identified in Table 5-1 and on the CERFA map (Figure 5-1). Areas containing other contamination substances are identified and delineated separately as qualified parcels in Table 5-1, and are shown in green on Figure 5-1. Qualified parcels overlay all ECOP categories (categories 1 through 7). Parcels are labeled as described in Section 1.3.

Parcel boundaries are drawn using the best available information on the extent of contamination and do not follow map gridlines. For consistency and to facilitate the summation of acreages, parcel acreages were calculated to two decimal places using the digitized map (Figure 5-1) and ArcView software. This method is not meant to imply an accuracy to one one-hundredth of an acre.

5.1 CATEGORY 1 PARCELS

The study team's survey and subsequent parcelization of Site M identified several areas encompassing approximately 327.452 acres that comprise one parcel designated as a Category 1 parcel (Table 5-1). This parcel was designated as Category 1 because no documented evidence of release or disposal of hazardous substances or petroleum products was located. Similarly, no evidence of migration of hazardous substances or petroleum products from adjacent properties was located. However, as discussed in Section 4.4.7 five samples collected from golf greens were reportedly above MDE residential standards for pesticides. Although the entirety of both golf courses (tees, fairways and greens) was not sampled, the concentrations of potential constituents of concern in these areas may also exceed MDE residential standards. These exceedances do not change the property designation (as discussed in Section 4.0), but they should be considered in determining the future use of the site. It is recommended that this information be included in transfer documents for this parcel. The CERFA map locations, geographic area locations, and description of each Category 1 parcel are presented in the following sections. The CERFA geographic area locations and description of each area include in the Category 1 parcel are presented in Figure 5-1 and Table 5-1.

TABLE 5-1 CERFA PARCEL DESIGNATIONS AT SITE M

PARCEL ID	CORRESPONDING AOIs	APPROXIMATE SIZE (acres)	ENVIRONMENTAL CONDITIONS CONSIDERED	RECOMMENDED ACTION	CERFA CATEGORY DESIGNATION
1	AOI 1	4.203	<ul style="list-style-type: none"> ▪ Visible areas of fill material, including deteriorated 55-gallon drums, are present in AOI 1. ▪ Large geophysical anomalies are present in AOI 1. ▪ Concentrations of iron and arsenic in soil, exceeded the MDE cleanup standard and anticipated typical concentration (ATC) ▪ Aluminum, iron, and manganese in groundwater exceeded MDE cleanup standards. 	Investigation confirmed presence of hazardous substances. Continue environmental evaluation to better characterize the nature of (determine if UXO is present) and delineate the extent and/or perform an interim removal action of the fill. Further evaluate background metals concentrations to assess potential significance of reported metals. Determine whether remedial action is necessary.	1(7) HR
2	AOI 2, AOI 3	3.213	<ul style="list-style-type: none"> ▪ Geophysical anomaly present in AOI 2. ▪ Surface fill visible in AOI 3. ▪ Concentrations of benzaldehyde in AOI 2 soil exceeded EPA Region III RBC² for residential soil (no MDE standard exists) ▪ Arsenic in soil in AOI 2 and 3 exceeded the MDE standard and the ATC. ▪ Aluminum and iron in groundwater in AOI 2, and aluminum, iron, and manganese in groundwater in AOI 3 exceeded the MDE standards. 	Continue evaluation to assess nature of anomaly in AOI 2. Further evaluate background metals concentrations to assess potential significance of reported metals. Determine whether remedial action is necessary.	2(7) HR
3	AOI 5	3.323	<ul style="list-style-type: none"> ▪ The VOC 1,1,2,2-trichloroethane in groundwater exceeded MDE cleanup standards and EPA tap water RBCs (Versar 2001). Heptachlor epoxide and tetrachloroethene in groundwater exceeded the EPA RBC (Versar 2001). 	Continue evaluation to determine extent of groundwater contamination in AOI 5. Determine if remedial action is necessary.	3(7)HS/HR/PS – Q- L(P)

TABLE 5-1 CERFA PARCEL DESIGNATIONS AT SITE M

PARCEL ID	CORRESPONDING AOIs	APPROXIMATE SIZE (acres)	ENVIRONMENTAL CONDITIONS CONSIDERED	RECOMMENDED ACTION	CERFA CATEGORY DESIGNATION
3 con't	Building 8860	N/A	<ul style="list-style-type: none"> Pump house, oil/hazardous material storage (old) (PS/HS). Staining in floor of western side of pump house storage area. DRO, arsenic, and mercury exceeded MDE soil cleanup standards in surface soil collected from the stained area (HR). Possible existence of LBP. 	Determine vertical extent of DRO, arsenic, and mercury at Building 8860.	3(7) HS/HR/PS Q- L(P) con't
	Building 8870	N/A	<ul style="list-style-type: none"> Fertilizer storage, UST, AST (HS/PS). Possible existence of LBP. 	Implement housekeeping measures.	
	Building 8880	N/A	<ul style="list-style-type: none"> Equipment storage/equipment degreaser. 	Implement housekeeping measures.	
	Building 8890	N/A	<ul style="list-style-type: none"> Office/lockers/ break room/mechanic workshop. AST (PS). 	Implement housekeeping measures.	
	Building 8890A	N/A	<ul style="list-style-type: none"> Hazardous materials storage (HS). Visible floor stains. 	Implement housekeeping measures.	
	Building 21	N/A	<ul style="list-style-type: none"> Hazardous waste storage shed. Temporary storage of used oils and other materials (PS). 	Implement housekeeping measures.	
	Flammable Storage Shipment Container	N/A	<ul style="list-style-type: none"> Former storage of used oils, tires and lawn mowers (current). 	Implement housekeeping measures.	
	Equipment Wash Area	N/A	<ul style="list-style-type: none"> Oil/water separator, wash maintenance equipment 	Implement housekeeping measures.	
4	AOI 7	1.454	<ul style="list-style-type: none"> Aluminum, iron, and manganese in groundwater exceeded the MDE standard. 	Further evaluate background metals concentrations to assess potential significance of reported metals. Determine whether remedial action is necessary.	4(7) HR

TABLE 5-1 CERFA PARCEL DESIGNATIONS AT SITE M

PARCEL ID	CORRESPONDING AOIs	APPROXIMATE SIZE (acres)	ENVIRONMENTAL CONDITIONS CONSIDERED	RECOMMENDED ACTION	CERFA CATEGORY DESIGNATION
5	AOI 11	0.358	<ul style="list-style-type: none"> ▪ AOI 11 – aluminum, arsenic, chromium, and iron in soil exceeded MDE standard and ATC. 	Continue evaluation to assess potential extent of soil impact and possible impact to groundwater.	5(7) HR
6	AOI 13	6.932	<ul style="list-style-type: none"> ▪ AOI 13 – PCB, aluminum, iron, and manganese in groundwater exceeded the MDE standard. 	Continue evaluation to determine extent of PCB. Further evaluate background metals concentrations to assess potential significance of reported metals. Determine whether remedial action is necessary.	6(7) HR
7	AOIs 6, 8	81.318	<ul style="list-style-type: none"> ▪ AOI 6 – Aluminum, iron, and manganese in groundwater exceeded MDE cleanup standards. Area was identified as lying near the northern boundary of a former mortar range. Ordnance and explosives may be present within AOI 6. ▪ AOI 8 – Arsenic minimally exceeded background in soil at one location (8-7). Aluminum, iron, manganese, cobalt in groundwater exceeded MDE standards. Eastern portion of area lies within boundary of former mortar range. Limited geophysical investigation confirmed the presence of magnetic anomalies. Ordnance and explosive material may be present at the site. 	Further evaluate background metals concentrations to assess potential significance of reported metals. Determine whether remedial action is necessary.	7(7) HR – Q- X(P)

TABLE 5-1 CERFA PARCEL DESIGNATIONS AT SITE M

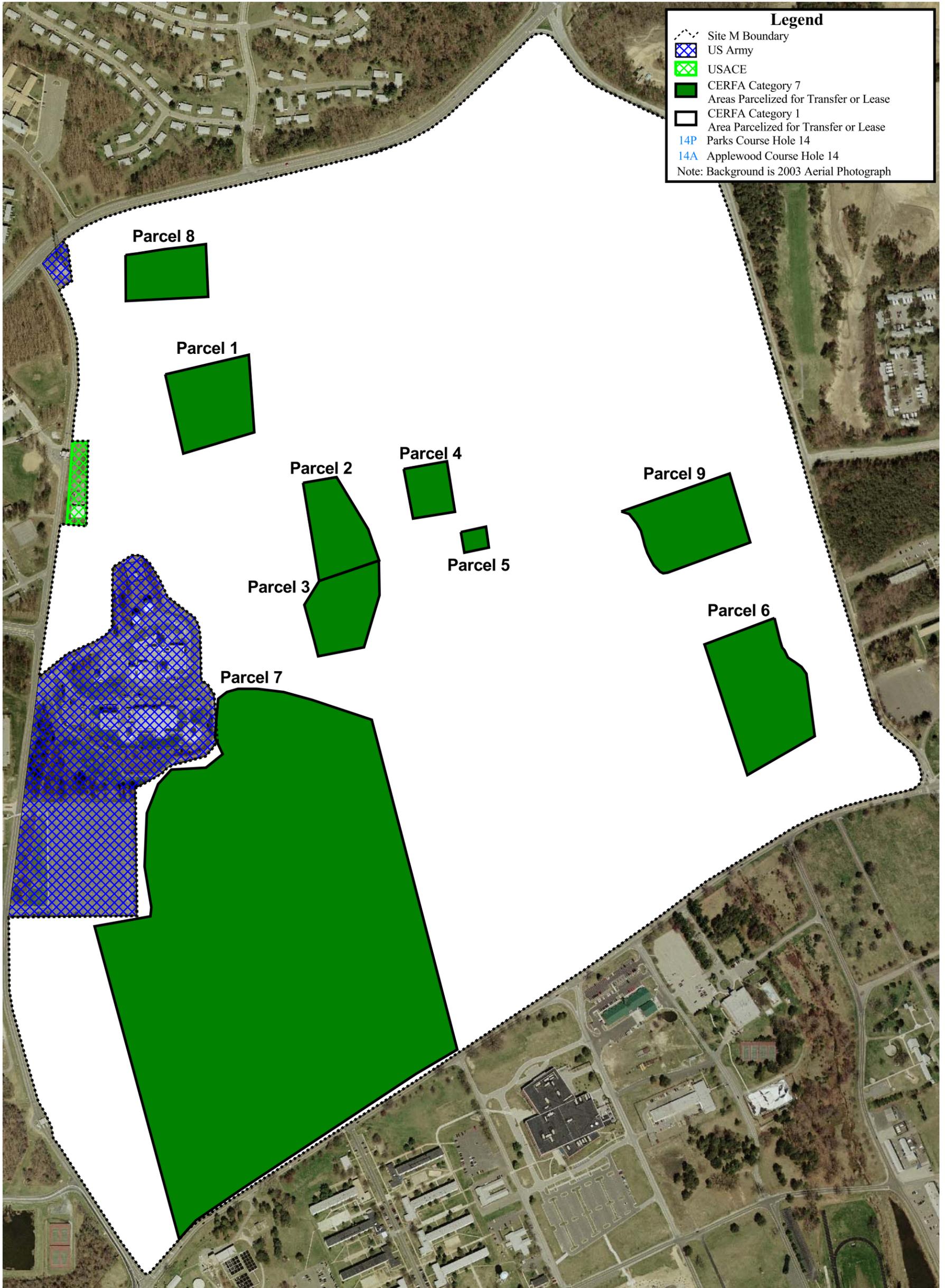
PARCEL ID	CORRESPONDING AOIs	APPROXIMATE SIZE (acres)	ENVIRONMENTAL CONDITIONS CONSIDERED	RECOMMENDED ACTION	CERFA CATEGORY DESIGNATION
8	AOI 16	2.702	<ul style="list-style-type: none"> ▪ Aluminum, iron, lead, manganese, and nickel in groundwater exceeded the MDE standard. ▪ Geophysical anomalies were identified in AOI (Versar, 2004). 	Further evaluate nature and extent of lead and nickel in groundwater. Further evaluate background metals concentration to determine if reported aluminum, iron, and manganese are of concern.	8(7) HR
9	AOIs 13a and 14	4.922	<ul style="list-style-type: none"> ▪ AOI 13A – Aluminum, iron, and manganese in groundwater exceeded MDE cleanup standards. ▪ AOI 14 – Arsenic in soil exceeded the MDE standard and ATC. Iron and manganese in groundwater exceeded the MDE standard. ▪ An approximately 8 feet by 8 feet unidentified geophysical anomaly was also encountered in this area. 	Evaluate magnetic anomaly in AOI 14. Further evaluate background metals concentrations to assess potential significance of reported metals. Determine whether remedial action is necessary.	9(7) HR
10	AOIs 4, 9, 10, 12, 15, 17, 18, 19	327.452	<ul style="list-style-type: none"> ▪ AOI 17 and AOI 18 – No constituents exceeding MDE standards were reported. ▪ AOI 12 – Note cultural significance of graveyard. 	No further evaluation recommended.	10(1) PS

TABLE 5-1 CERFA PARCEL DESIGNATIONS AT SITE M

PARCEL ID	CORRESPONDING AOIs	APPROXIMATE SIZE (acres)	ENVIRONMENTAL CONDITIONS CONSIDERED	RECOMMENDED ACTION	CERFA CATEGORY DESIGNATION
	Golf greens, practice greens, and other areas surrounding the golf course not already identified as part of Parcels 1-9 (Figure 5-1)		<ul style="list-style-type: none"> ▪ Although the reported pesticides are hazardous substances under CERCLA and exceed MDE cleanup standards, the application of pesticides registered under FIFRA does not constitute a release under the CERCLA definition. Records indicate proper pesticide application. ▪ Interviews with golf course maintenance personnel indicate that application of pesticides occurs most heavily on the greens, but routine application on the tees also occurs. ▪ Interviews with golf course maintenance personnel indicate that pesticides were also routinely applied to golf tees, and on an as-needed basis to fairways. Therefore, these areas may also exhibit elevated concentrations of pesticides. 	Involved parties should be aware of the pesticide concentrations, particularly in reference to future use scenarios, where the reported pesticides may result in unacceptable risk to human health.	
	Current club house		<ul style="list-style-type: none"> ▪ Records indicate active AST and UST (PS). 	No further evaluation recommended.	

PS = Petroleum storage
 PR = Petroleum release or disposal
 HS = Hazardous substance storage
 HR = Hazardous substance release or disposal
 A = ACM
 L = LBP

P = PCBs
 R = Radon
 X = UXO and/or ordnance fragments
 RD = Radionuclides
 Q = Qualified
 (P) = Presence of identified materials possible, but not confirmed in available documents



See Table 5-1 for description of parcels.
 Parcel 10 includes AOI 4, 9, 10, 12, 15, 17, 18, 19,
 golf greens, current club house and all other areas
 not included in parcels 1 through 9.

500 0 500 Feet



**SITE M
 FT. MEADE, MARYLAND**

**FIGURE 5-1:
 CERFA MAP- SITE M
 FEBRUARY 2004**

5.2 CATEGORY 2 THROUGH 6 PARCELS

The study team's survey and subsequent parcelization of Site M identified no Category 2, 3, 4, 5, or 6 parcels.

5.3 CATEGORY 7 PARCELS

The study team's survey and subsequent parcelization of Site M identified several areas encompassing approximately 108.429 acres that were designated as Category 7 (Table 5-1). These areas, identified as Parcels 1 through 9, were designated as Category 7 because these areas require additional evaluation prior to transfer. As discussed in Section 4.0, the concentrations of metals, particularly aluminum, iron, and manganese in groundwater, exceeded MDE cleanup standards in most of these parcels. These three metals in groundwater appear to be attributed to naturally occurring background concentrations. However, a background evaluation was not performed. Regardless, there were reported constituents exceeding standards in some Category 7 parcels that did not appear to be associated with background (Table 5-1). Therefore, a background evaluation could eliminate some parcels from a Category 7 designation, but not all. The CERFA geographic area locations and description of each area include in the Category 7 parcel are presented in Figure 5-1 and Table 5-1.

5.4 QUALIFIED PARCELS

In determining the qualified parcels, the study team observed the following guidelines:

- If a complete LBP survey has not been conducted, then buildings constructed prior to 1979 were assumed to contain LBP. An "L(P)" for the possible presence of lead was used to qualify the parcel.
- If a complete UXO sweep/survey has not been conducted, then areas which have the potential for UXO use or disposal were assumed to have the likelihood to contain UXO. An "X(P)" for the possible presence of UXO was used to qualify the parcel.

The study team's survey and subsequent parcelization of Site M identified two parcels, encompassing approximately 84.621 acres, which are qualified. Although the qualifier in Parcel 3 corresponds to two of the buildings (Table 5-2), the acreage for the entire area was used.

TABLE 5-2: QUALIFIED PARCELS

BUILDING/ FACILITY	FACILITY USE	SIZE (ACRES)	CERFA CATEGORY DESIGNATION
Parcel 3	Maintenance area	3.323	7HS/HR/PS- Q-L(P)
Parcel 7	AOIs 6 and 8 (includes the area immediately surrounding these AOIs as depicted in Figure 5-1)	81.318	7HR- Q-X(P)
Total Qualified Parcels		84.621	

TABLE 5-3: HAZARDOUS SUBSTANCES AND PETROLEUM PRODUCTS STORED, RELEASED, OR DISPOSED AT SITE M PARCELS 1 THROUGH 9

PARCEL NUMBER	BUILDING/ AREA DESCRIPTION	SUBSTANCE STORED/ RELEASED/ DISPOSED	QUANTITY	DATE(S) STORED/ RELEASED/ DISPOSED	CERCLA (h) (1) REPORTABLE ?
1	AOI 1 Possible landfill	Possible release of benzaldehyde and metals (including iron, arsenic, aluminum, and manganese)	Unknown	Unknown assumed prior to 1989	Assumed yes
2	AOIs 2 and 3 - Possible disposal areas	Possible release of metals (including iron, arsenic, aluminum, and manganese)	Unknown	Unknown assumed prior to 1989	Assumed yes
3	AOI 5 - Area around maintenance buildings	Possible release of 1,1,2,2,-tetrachloroethane and heptachlor epoxide	Unknown	Unknown assumed prior to 1989	Assumed yes

**TABLE 5-3: HAZARDOUS SUBSTANCES AND PETROLEUM PRODUCTS STORED, RELEASED, OR
DISPOSED AT SITE M PARCELS 1 THROUGH 9**

PARCEL NUMBER	BUILDING/ AREA DESCRIPTION	SUBSTANCE STORED/ RELEASED/ DISPOSED	QUANTITY	DATE(S) STORED/ RELEASED/ DISPOSED	CERCLA (h) (1) REPORTABLE ?
3 cont'd	AOI 5 -Building 8860	Storage and possible release of new and used oil, hydraulic fluid, lubricants, wood preservatives, paints, and solvents	2 X 35 gallons 1 X 55 gallons	Unknown for all materials but some present	Assumed yes
	AOI 5 -Building 8870	Storage of fertilizer, insecticides, paints, and degreaser	1 X 35 gallons	Unknown	Assumed yes
	AOI 5 -Building 8880	Storage of degreaser, oil, paints, hydraulic fluid	Unknown	Unknown	Assumed yes
	AOI 5 -Building 8890	Storage of degreaser, oil, paints, hydraulic fluid	Unknown	Unknown	Assumed yes
	AOI 5 -Building 8890A	Storage of pesticides, insecticides, herbicides	Unknown	Unknown	Assumed yes
	AOI 5 -Building 21	Storage of waste oil, waste antifreeze	Unknown	Unknown	Assumed yes
	AOI 5 - Flammable Storage Shipment Container	Storage of used oils, tires and lawn mowers (current).	Unknown	Unknown	Assumed yes
	AOI 5 - Equipment Wash Area	Storage of oily wastewater	Unknown	Unknown	Assumed no
4	AOI 7	Possible release of metals (including iron, aluminum, and manganese)	Unknown	Unknown	Assumed yes

**TABLE 5-3: HAZARDOUS SUBSTANCES AND PETROLEUM PRODUCTS STORED, RELEASED, OR
DISPOSED AT SITE M PARCELS 1 THROUGH 9**

PARCEL NUMBER	BUILDING/ AREA DESCRIPTION	SUBSTANCE STORED/ RELEASED/ DISPOSED	QUANTITY	DATE(S) STORED/ RELEASED/ DISPOSED	CERCLA (h) (1) REPORTABLE ?
5	AOI 11	Possible release of metals (including iron, aluminum, chromium and manganese)	Unknown	Unknown	Assumed yes
6	AOI 13	Possible release of PCBs and metals (including iron and manganese)	Unknown	Unknown	Assumed yes
7	AOIs 6 and 8	Possible release of metals (including arsenic, aluminum, iron, cobalt, and manganese)	Unknown	Unknown	Assumed yes
8	AOI 16	Possible release of metals (including aluminum, iron, nickel, and manganese)	Unknown	Unknown	Assumed yes
9	AOIs 13a and 14	Possible release of metals (including iron, arsenic, aluminum, and manganese)	Unknown	Unknown	Assumed yes

Note: The hazardous substances, quantities and dates listed in this notice are based on a review of available information and documentation. This list may not represent all materials used or stored on the property.

**TABLE 5-4 NOTICE OF CERCLA HAZARDOUS SUBSTANCES FOR SITE M
PARCELS 1 THROUGH 9**

SUBSTANCE STORED	CHEMICAL ABSTRACT SERVICE (CAS) NUMBER	REGULATORY SYNONYM	RCRA HAZARDOUS WASTE NUMBER	REPORTABLE QUANTITY	QUANTITY STORED	DATES STORED
Oily wastewater/ DRO					Unknown	Unknown
Pesticides					Unknown	Unknown
Paint					Unknown	Unknown
VOCs					Unknown	Unknown
Metals					Unknown	Unknown
PCB -1260	11096825	N/A	N/A	1 lb.	Unknown	Unknown

The information contained in this notice is required under the authority of regulations promulgated under section 120 (h) of CERCLA or "Superfund" 42 U.S.C. Section 9620(h).

5.5 CERCLA CERTIFICATION

In accordance with CERCLA 120 (h) (1) 40 CFR 373.2(b), and DOD policy, notification is required regarding hazardous substance activity when a hazardous substance has been stored for one year or more in quantities greater than or equal to 1000 kg or in the hazardous substance's CERCLA reportable quantity found at 40 CFR 302.4, whichever is greater. Hazardous substances that are also listed under 40 CFR 261.30 as acutely hazardous wastes, and that are stored for one year or more, are subject to the notice requirement when stored in quantities greater than or equal to 1 kg. In accordance with 40 CFR 373.2(c), notification regarding hazardous substance activity is also applicable for the known release of hazardous substances in quantities greater than or equal to the substance's CERCLA reportable quantity found at 40 CFR 302.4. For purposes of this certification, hazardous substances means that group of substances defined as hazardous under CERCLA 101 (14), and that appear at 40 CFR 302.4.

Hazardous substances and petroleum products formerly used, released, or disposed at Parcels 1 through 9 of Site M are listed in Table 5-3. Limited information was available on historic types and quantities of substances and length of storage. It is unknown if the quantities of hazardous materials present at Site M are sufficient to warrant CERCLA notice; therefore, notice of hazardous substances under CERCLA 120 (h)(1) is provided in Table 5-4 based upon available information.

The U.S. Army has determined, in accordance with regulations issued by the EPA at 40 CFR 373, that there is no evidence to indicate that CERCLA hazardous substance activity took place at Parcel 10 based on a complete search of agency files. During the EBS data gathering process and SI, no CERCLA hazardous substances or residues were identified.

I certify that I have reviewed and understand the applicability and scope of the above certification. The certification is, to the best of my knowledge and belief, true, accurate, and complete, and accurately depicts environmental conditions at the subject site.

Certification prepared by: Barbara C. Roeper, P.E. (MD License No.23130)

Signature: Barbara C. Roeper Date: 5/27/04

Title/Grade: Environmental Engineer, EA Engineering, Science, and Technology, Inc.

6.0 REFERENCES

6.1 REPORTS

- EA Engineering, Science, and Technology 1992. *Final Fort George G. Meade Base Closure Parcel Site Inspection Study*, October.
- EA Engineering, Science, and Technology 2003. *Final Work Plan for the Facility Siting Study and Environmental Baseline Survey, Site M, Fort Meade, Maryland*. December.
- Environmental Data Resources, Inc. (EDR) 2003. *The EDR Radius Map with GeoCheck. Taylor Rd., Fort George G. Meade, Md.* August.
- Environmental Protection Agency 2002. *Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*. EPA-R-01-0008. July.
- CH2MHILL 2001. *Final Environmental Assessment of Implementation of the Army Residential Communities Initiative at Fort Meade, Maryland*. June.
- Lockheed Environmental Systems and Technology Co. 1996. *Aerial Photographic Analysis Fort George G. Meade – Cantonment Area*. September.
- Mack, Frederick and Grufron, Achmad. 1986. *Maryland Geological Survey. Report of Investigations No. 6. Evaluation of the Water-Supply Potential of Aquifers in the Potomac Group of Anne Arundel County, Maryland*.
- Maryland Department of Environment (MDE). 2001. *State of Maryland Department of the Environment Cleanup Standards for Soil and Groundwater Interim Final Guidance*. August.
- R. Christopher Goodwin and Associates 1994. *Fort George G. Meade Cultural Resources Management Plan*. August.
- U.S. Army Corps of Engineers 2001. *Requirements for the Preparation of Sampling and Analysis Plans, EM200-1-3*. February.
- U.S. Army Corps of Engineers 2001. *Final Environmental Assessment of Implementation of the Army Residential Communities Initiative Properties Fort George G. Meade, Maryland*. June.
- U.S. Army Corps of Engineers 2002. *Environmental Baseline Survey United States Army Residential Communities Initiative Properties Fort George G. Meade, Maryland*. March.
- U.S. Department of the Army (DA) 2001. *Final Environmental Impact Statement Future Development and Operations Fort George G. Meade, Maryland*. June.

U.S. Geological Survey (USGS) 2002. Laurel 7.5 Minute Quadrangle Map.

Versar 2001. *Site Investigation Report. Golf Course Maintenance Area, Buildings 8860, 8880, 8890, and 8896 (SWMUs 131-133 and 135-137). Fort George G. Meade, Ft. Meade, Maryland.* December.

6.2 MISCELLANEOUS DOCUMENTS

Fort Meade. 2003. *Ft. Meade golf course yearly pesticide summary.*

Various internet sites.

APPENDIX A: COMMENTS AND RESPONSES

Review Comments and Comment Responses
Draft Environmental Baseline Survey Site M Fort Meade Maryland
May 2004

Comment Number	Comment	Comment Response/Action
Commenter: Kathy Smith NSA (CON) Facilities Services		
1	Page I and throughout document – Please change the wording in general and in all locations within the document to indicate that FGGM is investigating the possible development of the golf course in support of tenant requirements, rather than stating that NSA is seeking to expand its operations. Also, it should be clearly stated that this is not a BRAC action, but that those guidelines are being used as a best practice	The language has been changed where it appears (in the Executive Summary and Chapter 1) to indicate that Ft. Meade is investigating the possible development of the golf course in support of tenant requirements.
2	Page i – The next to last sentence on the page is incorrect. NSA has only 5 acres on O'Brien Road. The remaining 20 acres belongs to the Army.	The text has been revised to include NSA as the owner of 5 acres and Army as the owner of the remaining 20 acres of land that have been excluded from the study area.
3	Page 1-1 – Same comments as 1 and 2 above	Revised as requested.
4	Page 2-3 – Section 2.2.1 shows a database hit for the RCA Earth Station on Samford Road. This should be clarified. Building 9705 is a warehouse, and there is no RCA operation on Samford Road.	The bullet pertaining to the RCA earth station has been revised to indicate that the earth station is incorrectly mapped.
5	Page 3-5 through 3-7 – It would be useful to have a diagram/map of the buildings being discussed on Site M. Building numbers do not show up on any of the existing maps in the report.	Two additional figures (Figures 3-1 and 3-2) were added to show the buildings discussed on pages 3-5 through 3-7.
6	Page E1-2 – This map should be redone to be more readable. In current form, it is not possible to read the details.	No map/figure is discussed on page E1-2. However, EA assumes NSA is referring to E1-1. Therefore, the text color in E1-1 has been lightened to make it easier to visualize.

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APPENDIX B:
**DATABASE SEARCH REPORT OF FEDERAL,
STATE, AND LOCAL GOVERNMENT RECORDS**



EDR Site Report™

**BUILDING #9838
EMORY ROAD
FORT MEADE, MD 20755**

Inquiry Number:

February 12, 2004

***The Source
For Environmental
Risk Management
Data***

3530 Post Road
Southport, Connecticut 06890

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

TABLE OF CONTENTS

The EDR-Site Report™ is a comprehensive presentation of government filings on a facility identified in a search of over 4 million government records from more than 600 federal, state and local environmental databases. The report is divided into three sections:

Section 1: Facility Summary Page 3

Summary of facility filings including a review of the following areas: waste management, waste disposal, multi-media issues, and Superfund liability.

Section 2: Facility Detail Reports Page 4

All available detailed information from databases where sites are identified.

Section 3: Databases Searched and Update Information. Page 5

Name, source, update dates, contact phone number and description of each of the databases searched for this report.

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

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SECTION 1: FACILITY SUMMARY

FACILITY	FACILITY 1 BUILDING #9838 EMORY ROAD FORT MEADE, MD 20755 EDR ID #S104641207
AREA	
WASTE MANAGEMENT Facility generates hazardous waste (RCRIS)	NO
Facility treats, stores, or disposes of hazardous waste on-site (RCRIS/TSDf)	NO
Facility has received Notices of Violations (RCRIS/VIOL)	NO
Facility has been subject to RCRA administrative actions (RAATS)	NO
Facility has been subject to corrective actions (CORRACTS)	NO
Facility handles PCBs (PADS)	NO
Facility uses radioactive materials (MLTS)	NO
Facility manages registered aboveground storage tanks (AST)	NO
Facility manages registered underground storage tanks (UST)	NO
Facility has reported leaking underground storage tank incidents (LUST)	NO
Facility has reported emergency releases to the soil (ERNS)	NO
Facility has reported hazardous material incidents to DOT (HMIRS)	NO
WASTE DISPOSAL Facility is a Superfund Site (NPL)	NO
Facility has a known or suspect abandoned, inactive or uncontrolled hazardous waste site (CERCLIS)	NO
Facility has a reported Superfund Lien on it (LIENS)	NO
Facility is listed as a state hazardous waste site (SHWS)	NO
Facility has disposed of solid waste on-site (SWF/LF)	NO
MULTIMEDIA Facility uses toxic chemicals and has notified EPA under SARA Title III, Section 313 (TRIS)	NO
Facility produces pesticides and has notified EPA under Section 7 of FIFRA (SSTS)	NO
Facility manufactures or imports toxic chemicals on the TSCA list (TSCA)	NO
Facility has inspections under FIFRA, TSCA or EPCRA (FTTS)	NO
Facility is listed in EPA's index system (FINDS)	NO
Facility is listed in a county/local unique database (LOCAL)	YES - p4
POTENTIAL SUPERFUND LIABILITY Facility has a list of potentially responsible parties PRP	NO
TOTAL (YES)	1

SECTION 2: FACILITY DETAIL REPORTS

MULTIMEDIA

Facility is listed in a county/local unique database

DATABASE: State/County (LOCAL)

BUILDING #9838
EMORY ROAD
FORT MEADE, MD 20755
EDR ID #S104641207

Database: MD Historical UST

UST HISTORICAL:

ENVID: S104641207

Facility ID: 6014215

Age: 16

Tank Status: Currently in use

Product: Heating Oil

Tank ID: 001

Capacity: 10000

Product: Heating Oil

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

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

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

WASTE MANAGEMENT

RCRIS: Resource Conservation and Recovery Information System

Source: EPA

Telephone: 800-424-9346

Resource Conservation and Recovery Information System. RCRIS includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs): generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs): generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs): generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 01/12/2004
Database Release Frequency: Varies

Date of Last EDR Contact: 01/19/2004
Date of Next Scheduled Update: 04/19/2004

BRS: Biennial Reporting System

Source: EPA/NTIS

Telephone: 800-424-9346

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

Date of Government Version: 12/01/2001
Database Release Frequency: Biennially

Date of Last EDR Contact: 12/16/2003
Date of Next Scheduled Update: 03/15/2004

RAATS: RCRA Administrative Action Tracking System

Source: EPA

Telephone: 202-564-4104

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
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 12/08/2003
Date of Next Scheduled Update: 03/08/2004

CORRACTS: Corrective Action Report

Source: EPA

Telephone: 800-424-9346

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/18/2003
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 12/08/2003
Date of Next Scheduled Update: 03/08/2004

PADS: PCB Activity Database System

Source: EPA

Telephone: 202-564-3887

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: 09/30/2003
Database Release Frequency: Annually

Date of Last EDR Contact: 11/12/2003
Date of Next Scheduled Update: 02/09/2004

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

...Continued...

MLTS: Material Licensing Tracking System

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169

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

Date of Government Version: 10/16/2003
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/06/2004
Date of Next Scheduled Update: 04/05/2004

MD AST: Permitted Aboveground Storage Tanks

Source: Department of The Environment
Telephone: 410-537-3000

Registered Aboveground Storage Tanks.

Date of Government Version: 11/14/2003
Database Release Frequency: Quarterly

Date of Last EDR Contact: 11/12/2003
Date of Next Scheduled Update: 02/09/2004

MD UST: Registered Underground Storage Tank List

Source: Department of the Environment
Telephone: 410-537-3433

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: 12/04/2003
Database Release Frequency: Varies

Date of Last EDR Contact: 11/12/2003
Date of Next Scheduled Update: 02/09/2004

ERNS: Emergency Response Notification System

Source: National Response Center, United States Coast Guard
Telephone: 202-260-2342

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

Date of Government Version: 12/31/2002
Database Release Frequency: Annually

Date of Last EDR Contact: 01/26/2004
Date of Next Scheduled Update: 04/26/2004

HMIRS: Hazardous Materials Information Reporting System

Source: U.S. Department of Transportation
Telephone: 202-366-4555

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

Date of Government Version: 12/18/2003
Database Release Frequency: Annually

Date of Last EDR Contact: 01/19/2004
Date of Next Scheduled Update: 04/19/2004

WASTE DISPOSAL

NPL: National Priority List

Source: EPA
Telephone: Not reported

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: 10/21/2003
Date Made Active at EDR: 12/08/2003
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 11/03/2003
Elapsed ASTM Days: 35
Date of Last EDR Contact: 11/03/2003

PROPOSED NPL: Proposed National Priority List Sites

Source: EPA
Telephone: Not reported

Date of Government Version: 10/14/2003
Date Made Active at EDR: 12/08/2003
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 12/01/2003
Elapsed ASTM Days: 7
Date of Last EDR Contact: 11/03/2003

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

...Continued...

DELISTED NPL: National Priority List Deletions

Source: EPA

Telephone: Not reported

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: 10/21/2003

Date Made Active at EDR: 12/08/2003

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 11/03/2003

Elapsed ASTM Days: 35

Date of Last EDR Contact: 11/03/2003

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

Source: EPA

Telephone: 703-413-0223

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: 11/17/2003

Date Made Active at EDR: 02/02/2004

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 12/22/2003

Elapsed ASTM Days: 42

Date of Last EDR Contact: 12/22/2003

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Source: EPA

Telephone: 703-413-0223

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

Date of Government Version: 11/17/2003

Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/22/2003

Date of Next Scheduled Update: 03/22/2004

NPL LIENS: Federal Superfund Liens

Source: EPA

Telephone: 202-564-4267

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

Date of Government Version: 10/15/1991

Date Made Active at EDR: 03/30/1994

Database Release Frequency: No Update Planned

Date of Data Arrival at EDR: 02/02/1994

Elapsed ASTM Days: 56

Date of Last EDR Contact: 11/21/2003

MD SHWS: Notice of Potential Hazardous Waste Sites

Source: Department of the Environment

Telephone: 410-537-3000

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 09/01/2003

Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 12/08/2003

Date of Next Scheduled Update: 03/08/2004

MD SWF/LF: Permitted Solid Waste Disposal Facilities

Source: Department of the Environment

Telephone: 410-537-3375

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 10/08/2003

Database Release Frequency: Annually

Date of Last EDR Contact: 01/19/2004

Date of Next Scheduled Update: 04/19/2004

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

...Continued...

MULTIMEDIA

TRIS: Toxic Chemical Release Inventory System

Source: EPA

Telephone: 202-566-0250

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: 12/31/2001
Database Release Frequency: Annually

Date of Last EDR Contact: 12/22/2003
Date of Next Scheduled Update: 03/22/2004

SSTS: Section 7 Tracking Systems

Source: EPA

Telephone: 202-564-5008

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: 12/31/2001
Database Release Frequency: Annually

Date of Last EDR Contact: 01/19/2004
Date of Next Scheduled Update: 04/19/2004

TSCA: Toxic Substances Control Act

Source: EPA

Telephone: 202-260-5521

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

Date of Government Version: 12/31/2002
Database Release Frequency: N/A

Date of Last EDR Contact: 12/08/2003
Date of Next Scheduled Update: 03/08/2004

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-564-2501

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/16/2003
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/22/2003
Date of Next Scheduled Update: 03/22/2004

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Source: EPA

Telephone: 202-564-2501

Date of Government Version: 10/16/2003
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/22/2003
Date of Next Scheduled Update: 03/22/2004

FINDS: Facility Index System/Facility Identification Initiative Program Summary Report

Source: EPA

Telephone: Not reported

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: 10/23/2003
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/06/2004
Date of Next Scheduled Update: 04/05/2004

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

...Continued...

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

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POTENTIAL SUPERFUND LIABILITY

PRP: Potentially Responsible Parties

Source: EPA

Telephone: 202-564-6064

A listing of verified Potentially Responsible Parties

Date of Government Version: 11/24/2003

Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/16/2003

Date of Next Scheduled Update: 04/05/2004



The EDR Radius Map with GeoCheck[®]

**Taylor Road
Taylor Road
Fort George G Meade, MD 20755**

Inquiry Number: 1026103.1s

August 07, 2003

The Source For Environmental Risk Management Data

3530 Post Road
Southport, Connecticut 06890

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

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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 meets the government records search requirements of ASTM Standard Practice for Environmental Site Assessments, E 1527-00. Search distances are per ASTM standard or custom distances requested by the user.

TARGET PROPERTY INFORMATION

ADDRESS

TAYLOR ROAD
FORT GEORGE G MEADE, MD 20755

COORDINATES

Latitude (North): 39.106100 - 39° 6' 22.0"
Longitude (West): 76.752200 - 76° 45' 7.9"
Universal Transverse Mercator: Zone 18
UTM X (Meters): 348492.0
UTM Y (Meters): 4329804.0
Elevation: 181 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property: 2439076-A7 LAUREL, MD
Source: USGS 7.5 min quad index

TARGET PROPERTY SEARCH RESULTS

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

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 ASTM E 1527-00 search radius around the target property for the following databases:

FEDERAL ASTM STANDARD

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP..... CERCLIS No Further Remedial Action Planned
CORRACTS..... Corrective Action Report
RCRIS-TSD..... Resource Conservation and Recovery Information System
RCRIS-LQG..... Resource Conservation and Recovery Information System
RCRIS-SQG..... Resource Conservation and Recovery Information System
ERNS..... Emergency Response Notification System

STATE ASTM STANDARD

SHWS..... Notice of Potential Hazardous Waste Sites

EXECUTIVE SUMMARY

SWF/LF	Permitted Solid Waste Disposal Facilities
UST	Registered Underground Storage Tank List
VCP	Voluntary Cleanup Program Applicants/Participants
SWRCY	Recycling Directory

FEDERAL ASTM SUPPLEMENTAL

CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
Delisted NPL	National Priority List Deletions
FINDS	Facility Index System/Facility Identification Initiative Program Summary Report
HMIRS	Hazardous Materials Information Reporting System
MLTS	Material Licensing Tracking System
MINES	Mines Master Index File
NPL Liens	Federal Superfund Liens
PADS	PCB Activity Database System
RAATS	RCRA Administrative Action Tracking System
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
SSTS	Section 7 Tracking Systems
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

STATE OR LOCAL ASTM SUPPLEMENTAL

Historical LUST	Recovery Sites
AST	Permitted Aboveground Storage Tanks
Historical UST	Historical UST Registered Database

EDR PROPRIETARY HISTORICAL DATABASES

Coal Gas	Former Manufactured Gas (Coal Gas) Sites
-----------------------	--

BROWNFIELDS DATABASES

VCP	Voluntary Cleanup Program Applicants/Participants
INST CONTROL	Voluntary Cleanup Program Applicants/Participants

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

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. EDR's definition of a site with an elevation equal to the target property includes a tolerance of +/- 10 feet. 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 (by more than 10 feet). 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

STATE ASTM STANDARD

A review of the OCPCASES list, as provided by EDR, has revealed that there is 1 OCPCASES site within approximately 0.75 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
RCA EARTH STATION	9705 SAMFORD RD	1/2 - 1 SW	2	6

FEDERAL ASTM SUPPLEMENTAL

Federal Lands: 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 04/01/2003 has revealed that there is 1 DOD site within approximately 1.25 miles of the target property.

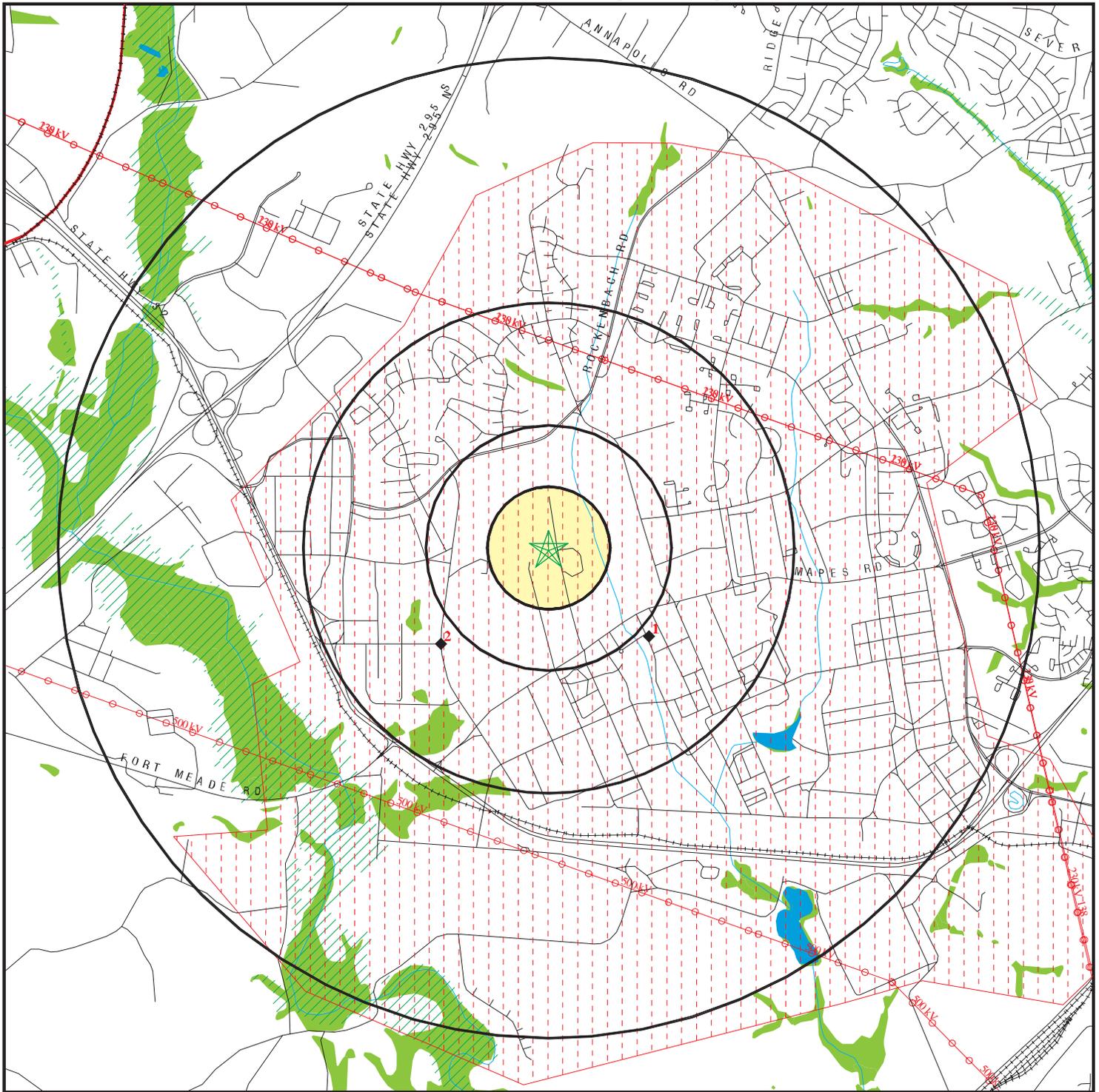
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
FORT GEORGE G. MEADE		1/2 - 1 SE	1	6

EXECUTIVE SUMMARY

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

<u>Site Name</u>	<u>Database(s)</u>
PERSHING HILL ELEMENTARY SCHOOL	FTTS
USA FORT GEORGE MEADE	SHWS
FORT MEADE COMMUNICATIONS TOWER	OCPCASES, UST
MEADE HEIGHTS ELEMENTARY	Historical UST
PERSHING HILL ELEMENTARY	Historical UST
COLONY "7" MOTEL	Historical UST
BUILDING #9838	Historical UST
MACARTHUR MIDDLE SCHOOL	RCRIS-SQG, FINDS, UST, Historical UST
PERSHING HILL ELEMENTARY	UST
FORT GEORGE G. MEADE	AST
U.S. EPA ENVIRONMENTAL SCIENCE CENTER	AST
GENERATOR PLANT. SAVAGE ROAD	ERNS
ENVIRONMENTAL PROTECTION AGENCY	MLTS

OVERVIEW MAP - 1026103.1s - EA Engineering Science & Tech.



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Coal Gasification Sites
- ▣ National Priority List Sites
- ▣ Landfill Sites
- ▣ Dept. Defense Sites

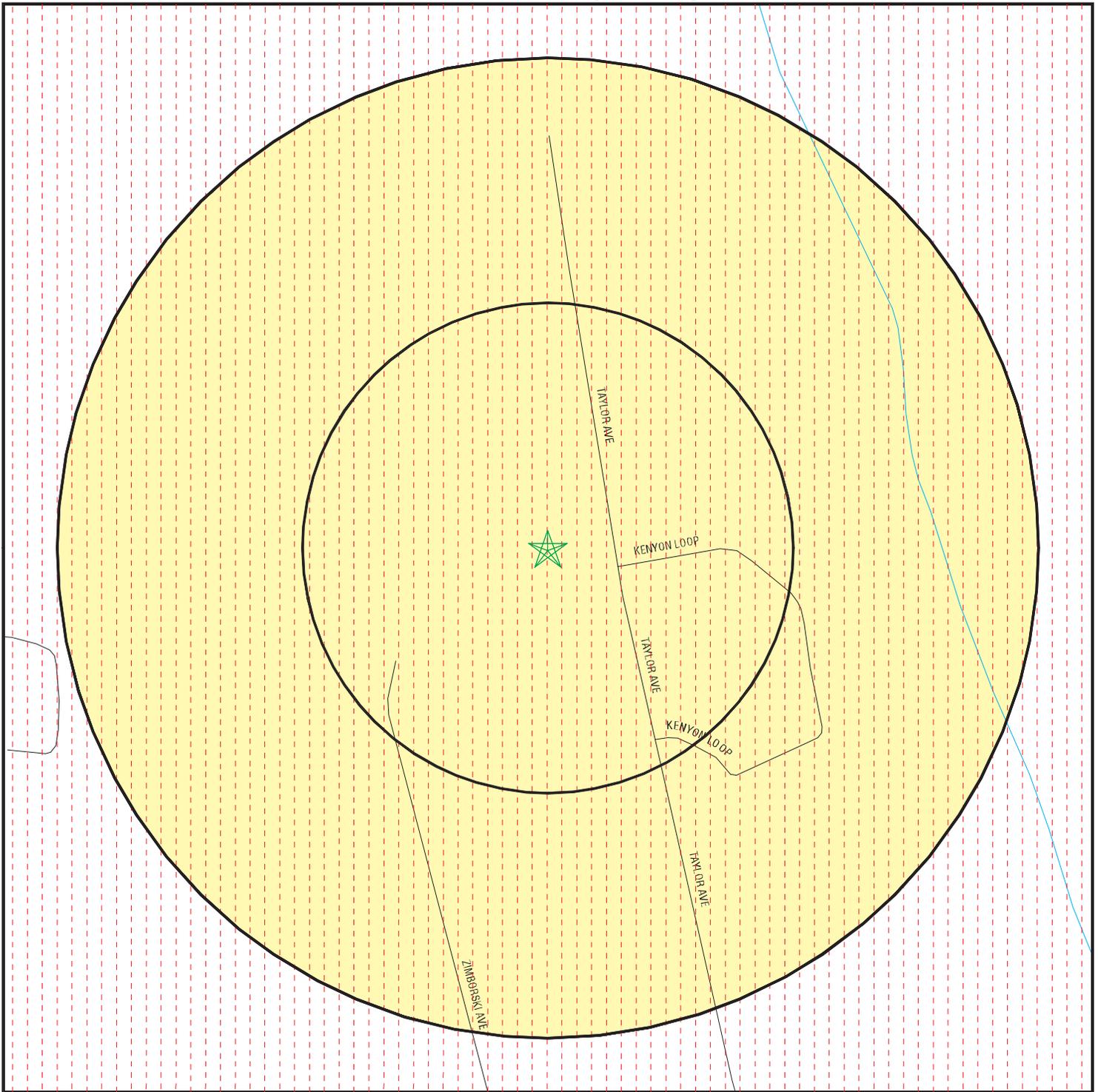
- ▬ County Boundary
- Power transmission lines
- Oil & Gas pipelines
- ▨ 100-year flood zone
- ▨ 500-year flood zone
- Federal Wetlands



TARGET PROPERTY: Taylor Road
ADDRESS: Taylor Road
CITY/STATE/ZIP: Fort George G Meade MD 20755
LAT/LONG: 39.1061 / 76.7522

CUSTOMER: EA Engineering Science & Tech.
CONTACT: Victoria Miller
INQUIRY #: 1026103.1s
DATE: August 07, 2003 6:53 pm

DETAIL MAP - 1026103.1s - EA Engineering Science & Tech.



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Coal Gasification Sites
- Sensitive Receptors
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites

- ⚡ County Boundary
- ⚡ Oil & Gas pipelines
- ▨ 100-year flood zone
- ▨ 500-year flood zone



TARGET PROPERTY: Taylor Road
 ADDRESS: Taylor Road
 CITY/STATE/ZIP: Fort George G Meade MD 20755
 LAT/LONG: 39.1061 / 76.7522

CUSTOMER: EA Engineering Science & Tech.
 CONTACT: Victoria Miller
 INQUIRY #: 1026103.1s
 DATE: August 07, 2003 6:54 pm

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<u>FEDERAL ASTM STANDARD</u>								
NPL		1.250	0	0	0	0	0	0
Proposed NPL		1.250	0	0	0	0	0	0
CERCLIS		0.750	0	0	0	0	NR	0
CERC-NFRAP		0.500	0	0	0	NR	NR	0
CORRACTS		1.250	0	0	0	0	0	0
RCRIS-TSD		0.750	0	0	0	0	NR	0
RCRIS Lg. Quan. Gen.		0.500	0	0	0	NR	NR	0
RCRIS Sm. Quan. Gen.		0.500	0	0	0	NR	NR	0
ERNS		0.250	0	0	NR	NR	NR	0
<u>STATE ASTM STANDARD</u>								
State Haz. Waste		1.250	0	0	0	0	0	0
State Landfill		0.750	0	0	0	0	NR	0
UST		0.500	0	0	0	NR	NR	0
VCP		0.750	0	0	0	0	NR	0
SWRCY		0.750	0	0	0	0	NR	0
OCPCASES		0.750	0	0	0	1	NR	1
<u>FEDERAL ASTM SUPPLEMENTAL</u>								
CONSENT		1.250	0	0	0	0	0	0
ROD		1.250	0	0	0	0	0	0
Delisted NPL		1.250	0	0	0	0	0	0
FINDS		0.250	0	0	NR	NR	NR	0
HMIRS		0.250	0	0	NR	NR	NR	0
MLTS		0.250	0	0	NR	NR	NR	0
MINES		0.500	0	0	0	NR	NR	0
NPL Liens		0.250	0	0	NR	NR	NR	0
PADS		0.250	0	0	NR	NR	NR	0
DOD		1.250	0	0	0	1	0	1
RAATS		0.250	0	0	NR	NR	NR	0
TRIS		0.250	0	0	NR	NR	NR	0
TSCA		0.250	0	0	NR	NR	NR	0
SSTS		0.250	0	0	NR	NR	NR	0
FTTS		0.250	0	0	NR	NR	NR	0
<u>STATE OR LOCAL ASTM SUPPLEMENTAL</u>								
Historical LUST		0.750	0	0	0	0	NR	0
AST		0.250	0	0	NR	NR	NR	0
Historical UST		0.500	0	0	0	NR	NR	0
<u>EDR PROPRIETARY HISTORICAL DATABASES</u>								
Coal Gas		1.250	0	0	0	0	0	0

MAP FINDINGS SUMMARY

<u>Database</u>	<u>Target Property</u>	<u>Search Distance (Miles)</u>	<u>< 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>> 1</u>	<u>Total Plotted</u>
<u>BROWNFIELDS DATABASES</u>								
VCP		0.750	0	0	0	0	NR	0
INST CONTROL		0.500	0	0	0	NR	NR	0

NOTES:

AQUIFLOW - see EDR Physical Setting Source Addendum

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

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

1	FORT GEORGE G. MEADE	DOD	CDOD033663
SE			N/A
1/2-1	ANNE ARUNDEL (County), MD		
2878 ft.			

Relative:	FEDERAL LANDS:		
Lower	Feature 1:	Army DOD	
	Feature 2:	Not reported	
Actual:	Feature 3:	Not reported	
146 ft.	Agency:	DOD	
	URL:	Not reported	
	Name 1:	Fort George G. Meade	
	Name 2:	Not reported	
	Name 3:	Not reported	
	State:	MD	

2	RCA EARTH STATION	OCPCASES	S104604889
SW	9705 SAMFORD RD		N/A
1/2-1	FT MEADE, MD 20755		
3107 ft.			

Relative:	OCP Cases:		
Lower	Facility ID:	94-3552AA1	
	Cleanup:	Not reported	
Actual:	Facility Status:	CLOSED	
157 ft.	Release:	Not reported	
	Facility Code:	Not reported	

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
FORT GEORGE G MEADE	90159638	GENERATOR PLANT. SAVAGE ROAD	GENERATOR PLANT. SAVAGE ROAD		ERNS
FORT GEORGE G. MEADE	S104635089	MEADE HEIGHTS ELEMENTARY	REECE ROAD	20755	Historical UST
FORT MEADE	1001698625	PERSHING HILL ELEMENTARY	29TH DIVISION RD.	20755	Historical UST
FORT MEADE	1002932472	PERSHING HILL ELEMENTARY	29TH DIVISION	20755	UST
FORT MEADE	S104635286	COLONY "7" MOTEL	ANNAPOLIS JUNCTION, N. OF RT. 32	20755	Historical UST
FORT MEADE	A100156035	FORT GEORGE G. MEADE	BUILDING 9581, ROUTE 198	20755	AST
FORT MEADE	S104641207	BUILDING #9838	EMORY ROAD	20755	Historical UST
FORT MEADE	1006331595	ENVIRONMENTAL PROTECTION AGENCY	701 MAPES ROAD	20755	MLTS
FORT MEADE	U003754034	FORT MEADE COMMUNICATIONS TOWER	ROCKENBACH & O'BRIEN STREETS BUILDING NO. 8903	20755	OCPCASES, UST
FT GEORGE G MEADE	1000156411	MACARTHUR MIDDLE SCHOOL	3033 ROCKENBACH RD	20755	RCRIS-SQG, FINDS, UST, Historical UST
FT MEADE	S101517292	USA FORT GEORGE MEADE	FT MEADE	20755	SHWS
FT. GEORGE G. MEADE	1006447761	PERSHING HILL ELEMENTARY SCHOOL	29TH DIVISION ROAD	20755	FTTS
FT. MEADE	A100169591	U.S. EPA ENVIRONMENTAL SCIENCE CENTER	701 MAPES ROAD	20755	AST

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

FEDERAL ASTM STANDARD RECORDS

NPL: National Priority List

Source: EPA

Telephone: N/A

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

Date of Government Version: 04/30/03

Date Made Active at EDR: 06/02/03

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 05/05/03

Elapsed ASTM days: 28

Date of Last EDR Contact: 05/09/03

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1

Telephone 617-918-1143

EPA Region 3

Telephone 215-814-5418

EPA Region 4

Telephone 404-562-8033

EPA Region 6

Telephone: 214-655-6659

EPA Region 8

Telephone: 303-312-6774

Proposed NPL: Proposed National Priority List Sites

Source: EPA

Telephone: N/A

Date of Government Version: 04/30/03

Date Made Active at EDR: 06/02/03

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 05/05/03

Elapsed ASTM days: 28

Date of Last EDR Contact: 05/05/03

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

Source: EPA

Telephone: 703-413-0223

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: 06/16/03

Date Made Active at EDR: 08/01/03

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 06/23/03

Elapsed ASTM days: 39

Date of Last EDR Contact: 06/23/03

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Source: EPA

Telephone: 703-413-0223

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/11/03
Date Made Active at EDR: 08/01/03
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 06/23/03
Elapsed ASTM days: 39
Date of Last EDR Contact: 06/23/03

CORRACTS: Corrective Action Report

Source: EPA
Telephone: 800-424-9346

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/31/03
Date Made Active at EDR: 05/08/03
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 04/07/03
Elapsed ASTM days: 31
Date of Last EDR Contact: 06/09/03

RCRIS: Resource Conservation and Recovery Information System

Source: EPA/NTIS
Telephone: 800-424-9346

Resource Conservation and Recovery Information System. RCRIS includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

Date of Government Version: 05/09/03
Date Made Active at EDR: 07/01/03
Database Release Frequency: Varies

Date of Data Arrival at EDR: 05/09/03
Elapsed ASTM days: 53
Date of Last EDR Contact: 06/26/03

ERNS: Emergency Response Notification System

Source: National Response Center, United States Coast Guard
Telephone: 202-260-2342

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

Date of Government Version: 12/31/02
Date Made Active at EDR: 02/03/03
Database Release Frequency: Annually

Date of Data Arrival at EDR: 01/27/03
Elapsed ASTM days: 7
Date of Last EDR Contact: 04/28/03

FEDERAL ASTM SUPPLEMENTAL RECORDS

BRS: Biennial Reporting System

Source: EPA/NTIS
Telephone: 800-424-9346

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

Date of Government Version: 12/31/99
Database Release Frequency: Biennially

Date of Last EDR Contact: 06/16/03
Date of Next Scheduled EDR Contact: 09/15/03

CONSENT: Superfund (CERCLA) Consent Decrees

Source: EPA Regional Offices
Telephone: Varies

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

Date of Government Version: N/A
Database Release Frequency: Varies

Date of Last EDR Contact: N/A
Date of Next Scheduled EDR Contact: N/A

ROD: Records Of Decision

Source: EPA
Telephone: 703-416-0223

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/09/03
Database Release Frequency: Annually

Date of Last EDR Contact: 07/07/03
Date of Next Scheduled EDR Contact: 10/06/03

DELISTED NPL: National Priority List Deletions

Source: EPA
Telephone: N/A

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

Date of Government Version: 04/30/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 05/05/03
Date of Next Scheduled EDR Contact: 08/04/03

FINDS: Facility Index System/Facility Identification Initiative Program Summary Report

Source: EPA
Telephone: N/A

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: 03/19/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/02/03
Date of Next Scheduled EDR Contact: 10/06/03

HMIRS: Hazardous Materials Information Reporting System

Source: U.S. Department of Transportation
Telephone: 202-366-4555

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

Date of Government Version: 03/31/03
Database Release Frequency: Annually

Date of Last EDR Contact: 07/23/03
Date of Next Scheduled EDR Contact: 10/20/03

MLTS: Material Licensing Tracking System

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169

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

Date of Government Version: 04/23/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/02/03
Date of Next Scheduled EDR Contact: 10/06/03

MINES: Mines Master Index File

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959

Date of Government Version: 06/07/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 06/30/03
Date of Next Scheduled EDR Contact: 09/29/03

NPL LIENS: Federal Superfund Liens

Source: EPA
Telephone: 205-564-4267

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/15/91
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 05/27/03
Date of Next Scheduled EDR Contact: 08/25/03

PADS: PCB Activity Database System

Source: EPA
Telephone: 202-564-3887

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: 03/26/03
Database Release Frequency: Annually

Date of Last EDR Contact: 05/12/03
Date of Next Scheduled EDR Contact: 08/11/03

DOD: Department of Defense Sites

Source: USGS
Telephone: 703-648-5920

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: 04/01/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 05/12/03
Date of Next Scheduled EDR Contact: 08/11/03

RAATS: RCRA Administrative Action Tracking System

Source: EPA
Telephone: 202-564-4104

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: 04/17/95
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 06/09/03
Date of Next Scheduled EDR Contact: 09/08/03

TRIS: Toxic Chemical Release Inventory System

Source: EPA
Telephone: 202-260-1531

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: 12/31/01
Database Release Frequency: Annually

Date of Last EDR Contact: 06/27/03
Date of Next Scheduled EDR Contact: 09/22/03

TSCA: Toxic Substances Control Act

Source: EPA
Telephone: 202-260-5521

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: 12/31/98
Database Release Frequency: Every 4 Years

Date of Last EDR Contact: 06/09/03
Date of Next Scheduled EDR Contact: 09/08/03

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Source: EPA
Telephone: 202-564-2501

Date of Government Version: 04/15/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 06/23/03
Date of Next Scheduled EDR Contact: 09/22/03

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SSTS: Section 7 Tracking Systems

Source: EPA
Telephone: 202-564-5008

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: 12/31/00
Database Release Frequency: Annually

Date of Last EDR Contact: 05/09/03
Date of Next Scheduled EDR Contact: 07/21/03

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-564-2501

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/15/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 06/23/03
Date of Next Scheduled EDR Contact: 09/22/03

STATE OF MARYLAND ASTM STANDARD RECORDS

SHWS: Notice of Potential Hazardous Waste Sites

Source: Department of the Environment
Telephone: 410-537-3000

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 07/01/02
Date Made Active at EDR: 10/29/02
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 10/09/02
Elapsed ASTM days: 20
Date of Last EDR Contact: 03/10/03

SWF/LF: Permitted Solid Waste Disposal Facilities

Source: Department of the Environment
Telephone: 410-537-3375

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 04/07/03
Date Made Active at EDR: 05/21/03
Database Release Frequency: Annually

Date of Data Arrival at EDR: 05/06/03
Elapsed ASTM days: 15
Date of Last EDR Contact: 04/21/03

UST: Registered Underground Storage Tank List

Source: Department of the Environment
Telephone: 410-537-3433

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: 05/30/03
Date Made Active at EDR: 06/09/03
Database Release Frequency: Varies

Date of Data Arrival at EDR: 06/02/03
Elapsed ASTM days: 7
Date of Last EDR Contact: 05/27/03

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

VCP: Voluntary Cleanup Program Applicants/Participants

Source: Dept. of the Environment
Telephone: 410-537-3000

The Voluntary Cleanup Program, administrated by the Dept. of the Environment, streamlines the environmental cleanup process for sites, usually industrial or commercial properties, that are contaminated, or perceived to be contaminated, by hazardous substances. Developers and lenders are provided with certain limitations on liability and participants in the program are provided certainty in the process by knowing exactly what will be required.

Date of Government Version: 02/04/03
Date Made Active at EDR: 05/08/03
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 04/15/03
Elapsed ASTM days: 23
Date of Last EDR Contact: 07/11/03

SWRCY: Recycling Directory

Source: Department of the Environment
Telephone: 410-631-3314
A listing of recycling facilities.

Date of Government Version: 05/05/03
Date Made Active at EDR: 08/07/03
Database Release Frequency: Varies

Date of Data Arrival at EDR: 07/23/03
Elapsed ASTM days: 15
Date of Last EDR Contact: 07/23/03

OCPCASES: Oil Control Program Cases

Source: Department of Environment
Telephone: 410-537-3433

Cases monitored by the Oil Control Program. these cases can be leaking underground storage tanks and other belowground releases, leaking aboveground storage tanks, spills and inspections.

Date of Government Version: 04/23/03
Date Made Active at EDR: 05/28/03
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 04/28/03
Elapsed ASTM days: 30
Date of Last EDR Contact: 04/21/03

STATE OF MARYLAND ASTM SUPPLEMENTAL RECORDS

Historical LUST: Recovery Sites

Source: Department of the Environment
Telephone: 410-537-3433

In 1999, the Department of the Environment stopped adding new sites to its Recovery Sites Database. Current leaking underground storage tank information maybe found in the OCPCASES database.

Date of Government Version: 03/01/99
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 02/19/01
Date of Next Scheduled EDR Contact: N/A

AST: Permitted Aboveground Storage Tanks

Source: Department of The Environment
Telephone: 410-537-3000
Registered Aboveground Storage Tanks.

Date of Government Version: 05/13/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 05/12/03
Date of Next Scheduled EDR Contact: 08/11/03

Historical UST: Historical UST Registered Database

Source: Department of Environment
Telephone: 410-537-3433

Date of Government Version: 11/21/96
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 05/15/00
Date of Next Scheduled EDR Contact: N/A

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR PROPRIETARY HISTORICAL DATABASES

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

Disclaimer Provided by Real Property Scan, Inc.

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

STATE OF MARYLAND BROWNFIELDS DATABASES RECORDS

VCP: Voluntary Cleanup Program Applicants/Participants

Source: Dept. of the Environment
Telephone: 410-537-3000

The Voluntary Cleanup Program, administrated by the Dept. of the Environment, streamlines the environmental cleanup process for sites, usually industrial or commercial properties, that are contaminated, or perceived to be contaminated, by hazardous substances. Developers and lenders are provided with certain limitations on liability and participants in the program are provided certainty in the process by knowing exactly what will be required.

Date of Government Version: 02/04/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 07/11/03
Date of Next Scheduled EDR Contact: 10/13/03

INST CONTROL: Voluntary Cleanup Program Applicants/Participants

Source: Department of the Environment
Telephone: 410-537-3493

Sites included in the Voluntary Cleanup Program Applicants/Participants listing that have Deed Restrictions.

Date of Government Version: 02/04/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 07/11/03
Date of Next Scheduled EDR Contact: 10/13/03

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.

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

Electric Power Transmission Line Data

Source: PennWell Corporation
Telephone: (800) 823-6277

This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

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

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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 Providers

Source: Department of Human Resources

Telephone: 410-767-7805

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

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

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

TAYLOR ROAD
TAYLOR ROAD
FORT GEORGE G MEADE, MD 20755

TARGET PROPERTY COORDINATES

Latitude (North):	39.106098 - 39° 6' 22.0"
Longitude (West):	76.752197 - 76° 45' 7.9"
Universal Transverse Mercator:	Zone 18
UTM X (Meters):	348492.0
UTM Y (Meters):	4329804.0
Elevation:	181 ft. above sea level

EDR's GeoCheck Physical Setting Source Addendum has been developed to assist the environmental professional with the collection of physical setting source information in accordance with ASTM 1527-00, Section 7.2.3. Section 7.2.3 requires that a current USGS 7.5 Minute Topographic Map (or equivalent, such as the USGS Digital Elevation Model) be reviewed. It also requires that one or more additional physical setting sources be sought when (1) conditions have been identified in which hazardous substances or petroleum products are likely to migrate to or from the property, and (2) more information than is provided in the current USGS 7.5 Minute Topographic Map (or equivalent) is generally obtained, pursuant to local good commercial or customary practice, to assess the impact of migration of recognized environmental conditions in connection with the property. Such additional physical setting sources generally include information about the topographic, hydrologic, hydrogeologic, and geologic characteristics of a site, and wells in the area.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata. EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

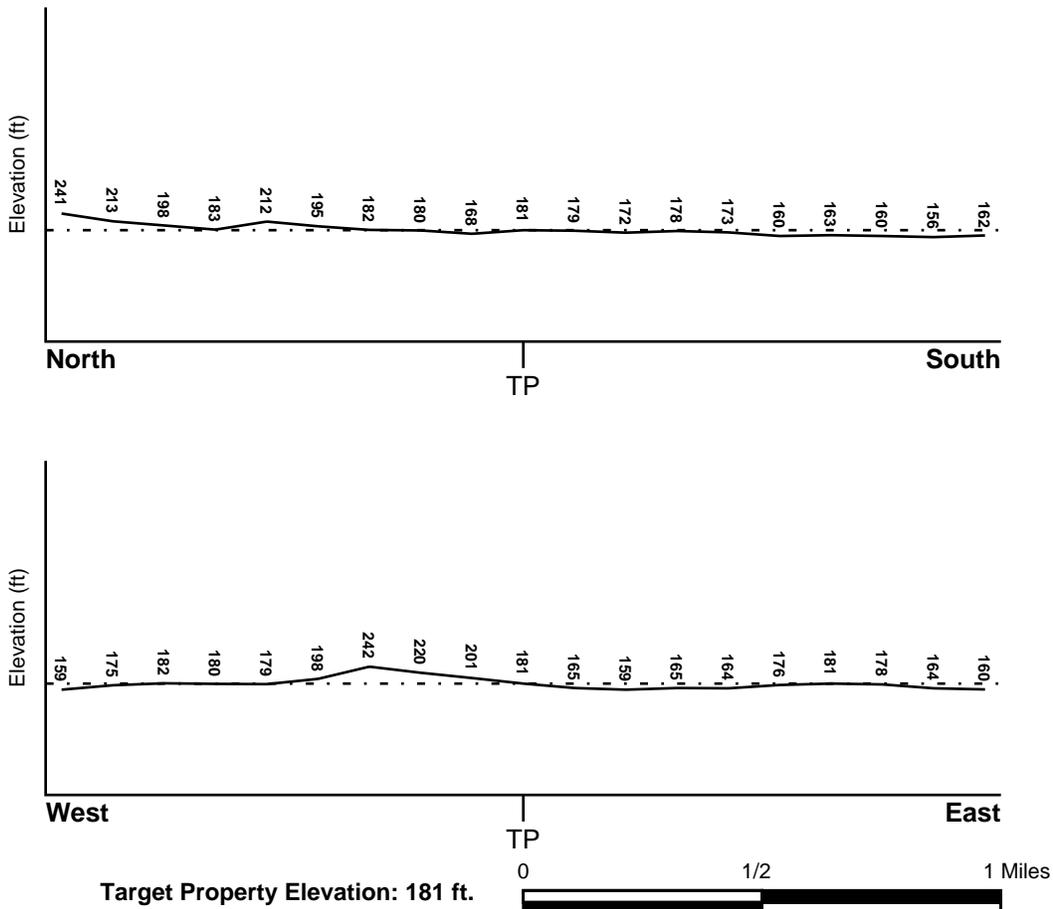
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

USGS Topographic Map: 2439076-A7 LAUREL, MD
General Topographic Gradient: General East
Source: USGS 7.5 min quad index

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Target Property County</u> ANNE ARUNDEL, MD	<u>FEMA Flood Electronic Data</u> YES - refer to the Overview Map and Detail Map
Flood Plain Panel at Target Property:	2400080017C
Additional Panels in search area:	2400080010C 2400080011C 2400080018C

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u> LAUREL	<u>NWI Electronic Data Coverage</u> YES - refer to the Overview Map and Detail Map
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HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Mesozoic
System:	Cretaceous
Series:	Lower Cretaceous
Code:	IK <i>(decoded above as Era, System & Series)</i>

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: EVESBORO

Soil Surface Texture: loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively. Soils have very high and high hydraulic conductivity and low water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: LOW

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	16 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 20.00 Min: 6.00	Max: 5.00 Min: 3.60
2	16 inches	40 inches	sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 20.00 Min: 6.00	Max: 5.00 Min: 3.60
3	40 inches	72 inches	stratified	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 20.00 Min: 2.00	Max: 5.00 Min: 4.50

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: fine sandy loam
silt loam
gravelly - sandy loam
sandy loam

Surficial Soil Types: fine sandy loam
silt loam
gravelly - less sandy loam
sandy loam

Shallow Soil Types: very gravelly - sandy clay loam

Deeper Soil Types: sandy clay
sandy loam
clay
very gravelly - sand

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

According to ASTM E 1527-00, Section 7.2.2, "one or more additional state or local sources of environmental records may be checked, in the discretion of the environmental professional, to enhance and supplement federal and state sources... Factors to consider in determining which local or additional state records, if any, should be checked include (1) whether they are reasonably ascertainable, (2) whether they are sufficiently useful, accurate, and complete in light of the objective of the records review (see 7.1.1), and (3) whether they are obtained, pursuant to local, good commercial or customary practice." One of the record sources listed in Section 7.2.2 is water well information. Water well information can be used to assist the environmental professional in assessing sources that may impact groundwater flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS State Database	Nearest PWS within 1 mile
	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	USGS0385501	1/8 - 1/4 Mile SW
2	USGS0385519	1/4 - 1/2 Mile ENE
3	USGS0385623	1/2 - 1 Mile North
A4	USGS0385405	1/2 - 1 Mile South
A5	USGS0385401	1/2 - 1 Mile South
6	USGS0385449	1/2 - 1 Mile East
7	USGS0385475	1/2 - 1 Mile SE
B8	USGS0385322	1/2 - 1 Mile SSW
B9	USGS0385323	1/2 - 1 Mile SSW
11	USGS0385637	1/2 - 1 Mile North
C12	USGS0385450	1/2 - 1 Mile West
C13	USGS0385451	1/2 - 1 Mile West

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

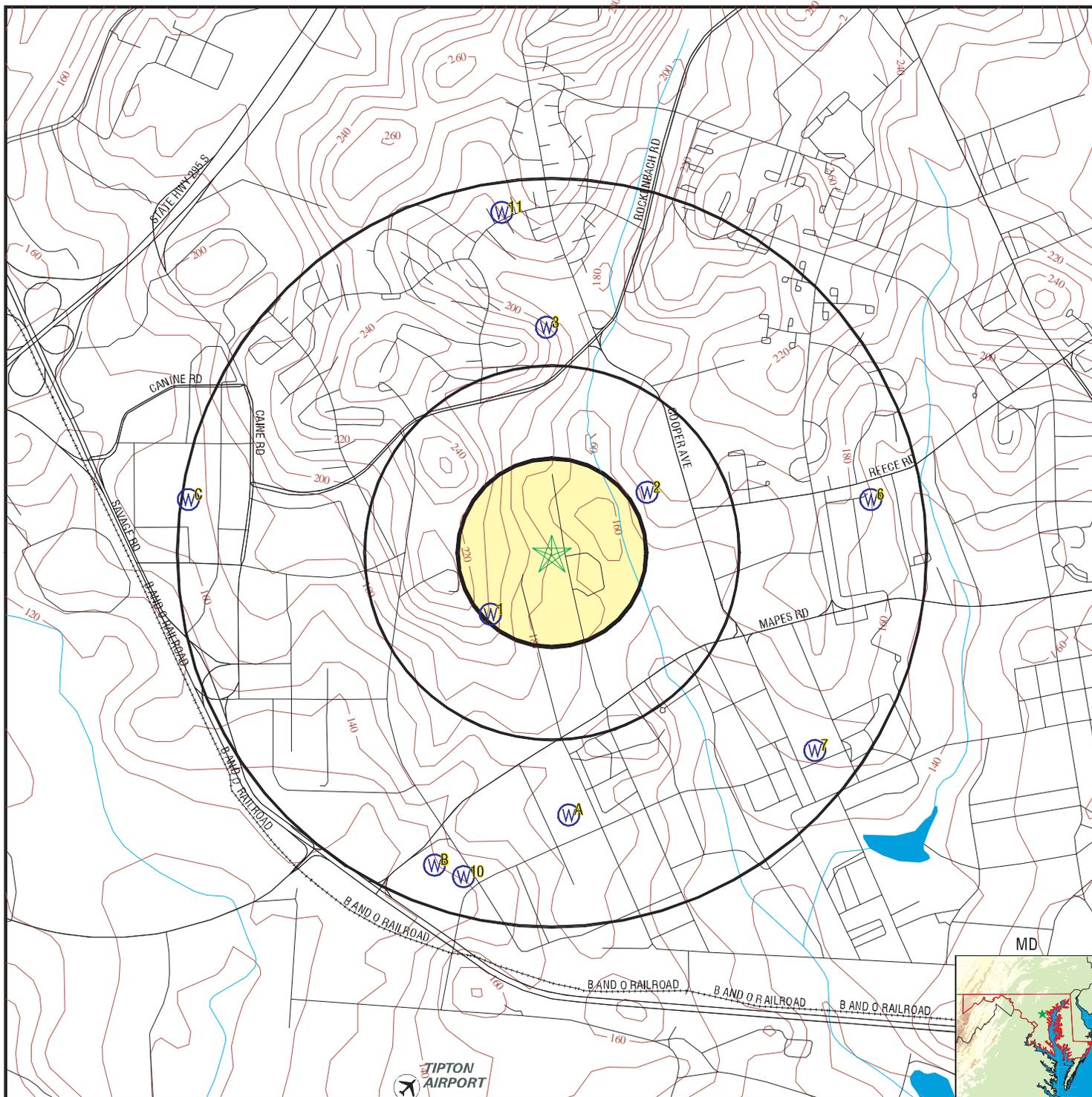
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
10	66	1/2 - 1 Mile SSW

PHYSICAL SETTING SOURCE MAP - 1026103.1s



- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location



TARGET PROPERTY: Taylor Road
ADDRESS: Taylor Road
CITY/STATE/ZIP: Fort George G Meade MD 20755
LAT/LONG: 39.1061 / 76.7522

CUSTOMER: EA Engineering Science & Tech.
CONTACT: Victoria Miller
INQUIRY #: 1026103.1s
DATE: August 07, 2003 6:54 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

1
SW
1/8 - 1/4 Mile
Higher **FED USGS** **USGS0385501**

Agency:	USGS	Site ID:	390613076452001
Site Name:	AA Bb 11		
Dec. Latitude:	39.10372		
Dec. Longitude:	-76.75525		
Coord Sys:	NAD83		
State:	MD		
County:	Anne Arundel County		
Altitude:	296.00		
Hydrologic code:	02060006		
Topographic:	Not Reported		
Site Type:	Ground-water other than Spring		
Const Date:	1917	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	217PTXN		
Aquifer type:	Not Reported	Well depth:	352
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

2
ENE
1/4 - 1/2 Mile
Lower **FED USGS** **USGS0385519**

Agency:	USGS	Site ID:	390630076445201
Site Name:	AA Bc 10		
Dec. Latitude:	39.10844		
Dec. Longitude:	-76.74747		
Coord Sys:	NAD83		
State:	MD		
County:	Anne Arundel County		
Altitude:	164		
Hydrologic code:	02060006		
Topographic:	Not Reported		
Site Type:	Ground-water other than Spring		
Const Date:	19170926	Inven Date:	19451211
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported	Well depth:	243
Hole depth:	Not Reported	Source:	R
Project no:	Not Reported		

3
North
1/2 - 1 Mile
Higher **FED USGS** **USGS0385623**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency:	USGS	Site ID:	390653076451001
Site Name:	AA Bb 46		
Dec. Latitude:	39.11483		
Dec. Longitude:	-76.75247		
Coord Sys:	NAD83		
State:	MD		
County:	Anne Arundel County		
Altitude:	200.00		
Hydrologic code:	02060006		
Topographic:	Not Reported		
Site Type:	Ground-water other than Spring		
Const Date:	1958	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported	Well depth:	218
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

**A4
South
1/2 - 1 Mile
Lower**

FED USGS USGS0385405

Agency:	USGS	Site ID:	390546076450701
Site Name:	AA Bb 9		
Dec. Latitude:	39.09622		
Dec. Longitude:	-76.75164		
Coord Sys:	NAD83		
State:	MD		
County:	Anne Arundel County		
Altitude:	160.00		
Hydrologic code:	02060006		
Topographic:	Not Reported		
Site Type:	Ground-water other than Spring		
Const Date:	1917	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported	Well depth:	96.0
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

**A5
South
1/2 - 1 Mile
Lower**

FED USGS USGS0385401

Agency:	USGS	Site ID:	390544076450501
Site Name:	AA Bb 10		
Dec. Latitude:	39.09566		
Dec. Longitude:	-76.75108		
Coord Sys:	NAD83		
State:	MD		
County:	Anne Arundel County		
Altitude:	183		
Hydrologic code:	02060006		
Topographic:	Not Reported		
Site Type:	Ground-water other than Spring		
Const Date:	1917	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported	Well depth:	186
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

6
East
1/2 - 1 Mile
Lower

FED USGS USGS0385449

Agency:	USGS	Site ID:	390629076441201
Site Name:	AA Bc 7		
Dec. Latitude:	39.10816		
Dec. Longitude:	-76.73636		
Coord Sys:	NAD83		
State:	MD		
County:	Anne Arundel County		
Altitude:	183		
Hydrologic code:	02060006		
Topographic:	Not Reported		
Site Type:	Ground-water other than Spring		
Const Date:	19171018	Inven Date:	19451211
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported	Well depth:	292
Hole depth:	Not Reported	Source:	R
Project no:	Not Reported		

7
SE
1/2 - 1 Mile
Lower

FED USGS USGS0385475

Agency:	USGS	Site ID:	390554076442201
Site Name:	AA Bc 9		
Dec. Latitude:	39.09844		
Dec. Longitude:	-76.73914		
Coord Sys:	NAD83		
State:	MD		
County:	Anne Arundel County		
Altitude:	148		
Hydrologic code:	02060006		
Topographic:	Not Reported		
Site Type:	Ground-water other than Spring		
Const Date:	1917	Inven Date:	19451211
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported	Well depth:	245
Hole depth:	Not Reported	Source:	R
Project no:	Not Reported		

B8
SSW
1/2 - 1 Mile
Lower

FED USGS USGS0385322

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency:	USGS	Site ID:	390538076453001
Site Name:	AA Bb 67		
Dec. Latitude:	39.094		
Dec. Longitude:	-76.75803		
Coord Sys:	NAD83		
State:	MD		
County:	Anne Arundel County		
Altitude:	133.00		
Hydrologic code:	02060006		
Topographic:	Not Reported		
Site Type:	Ground-water other than Spring		
Const Date:	1968	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	217PTXN		
Aquifer type:	Not Reported	Well depth:	516
Hole depth:	516	Source:	D
Project no:	Not Reported		

B9
SSW
1/2 - 1 Mile
Lower

FED USGS USGS0385323

Agency:	USGS	Site ID:	390538076453002
Site Name:	AA Bb 68		
Dec. Latitude:	39.094		
Dec. Longitude:	-76.75803		
Coord Sys:	NAD83		
State:	MD		
County:	Anne Arundel County		
Altitude:	130.00		
Hydrologic code:	02060006		
Topographic:	Not Reported		
Site Type:	Ground-water other than Spring		
Const Date:	1968	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	217PTXN		
Aquifer type:	C	Well depth:	497
Hole depth:	516	Source:	D
Project no:	Not Reported		

10
SSW
1/2 - 1 Mile
Lower

MD WELLS 66

Site Name:	Ft. George Meade	Total Depth:	497
Public Water Sys. ID:	0020012	NAD 27 Easting Coordinate:	869000
NAD 27 Northing Coordinate:	459000	Case Depth:	454
Aquifer Type:	Semi-confined	Depth to Top of 1st Screen:	0
Depth to Top of 1st Screen:	0	Depth to bot. of 1st Screen:	0
Depth to Top of 2nd Screen:	0	Depth to bot. of 2nd Screen:	0
Depth to Top of 3rd Screen:	0	Depth to bot. of 3rd Screen:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

11
North
1/2 - 1 Mile
Higher

FED USGS USGS0385637

Agency:	USGS	Site ID:	390709076451801
Site Name:	AA Bb 12		
Dec. Latitude:	39.11928		
Dec. Longitude:	-76.75469		
Coord Sys:	NAD83		
State:	MD		
County:	Anne Arundel County		
Altitude:	201		
Hydrologic code:	02060006		
Topographic:	Not Reported		
Site Type:	Ground-water other than Spring		
Const Date:	1917	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported	Well depth:	188
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

C12
West
1/2 - 1 Mile
Lower

FED USGS USGS0385450

Agency:	USGS	Site ID:	390629076461401
Site Name:	AA Bb 74		
Dec. Latitude:	39.10816		
Dec. Longitude:	-76.77025		
Coord Sys:	NAD83		
State:	MD		
County:	Anne Arundel County		
Altitude:	170.00		
Hydrologic code:	02060006		
Topographic:	Not Reported		
Site Type:	Ground-water other than Spring		
Const Date:	1961	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	217PTXN		
Aquifer type:	Not Reported	Well depth:	225
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

C13
West
1/2 - 1 Mile
Lower

FED USGS USGS0385451

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency:	USGS	Site ID:	390629076461402
Site Name:	AA Bb 75		
Dec. Latitude:	39.10816		
Dec. Longitude:	-76.77025		
Coord Sys:	NAD83		
State:	MD		
County:	Anne Arundel County		
Altitude:	170.00		
Hydrologic code:	02060006		
Topographic:	Not Reported		
Site Type:	Ground-water other than Spring		
Const Date:	1965	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	217PTXN		
Aquifer type:	Not Reported	Well depth:	195
Hole depth:	207	Source:	D
Project no:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

EPA Region 3 Statistical Summary Readings for Zip Code: 20755

Number of sites tested: 10.

Maximum Radon Level: 1.8 pCi/L.

Minimum Radon Level: 0.2 pCi/L.

pCi/L <4	pCi/L 4-10	pCi/L 10-20	pCi/L 20-50	pCi/L 50-100	pCi/L >100
10 (100.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)

Federal EPA Radon Zone for ANNE ARUNDEL County: 2

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002. 7.5-Minute DEMs correspond to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

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

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

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

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the national Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STATE RECORDS

Maryland Community Public Drinking Water Wells

Source: Department of the Environment
Telephone: 410-631-3586

RADON

Area Radon Information

Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

EPA Region 3 Statistical Summary Readings

Source: Region 3 EPA
Telephone: 215-814-2082
Radon readings for Delaware, D.C., Maryland, Pennsylvania, Virginia and West Virginia.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

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



EDR Site Report™

**GENERATOR PLANT. SAVAGE ROAD
GENERATOR PLANT. SAVAGE ROAD
FORT GORGE G. MEADE, MD**

Inquiry Number:

February 12, 2004

***The Source
For Environmental
Risk Management
Data***

3530 Post Road
Southport, Connecticut 06890

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

TABLE OF CONTENTS

The EDR-Site Report™ is a comprehensive presentation of government filings on a facility identified in a search of over 4 million government records from more than 600 federal, state and local environmental databases. The report is divided into three sections:

Section 1: Facility Summary Page 3

Summary of facility filings including a review of the following areas: waste management, waste disposal, multi-media issues, and Superfund liability.

Section 2: Facility Detail Reports Page 4

All available detailed information from databases where sites are identified.

Section 3: Databases Searched and Update Information. Page 5

Name, source, update dates, contact phone number and description of each of the databases searched for this report.

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

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SECTION 1: FACILITY SUMMARY

FACILITY	FACILITY 1 GENERATOR PLANT, SAVAGE ROAD GENERATOR PLANT, SAVAGE ROAD FORT GEORGE G. MEADE, MD EDR ID #90159638
AREA	
WASTE MANAGEMENT Facility generates hazardous waste (RCRIS)	NO
Facility treats, stores, or disposes of hazardous waste on-site (RCRIS/TSDf)	NO
Facility has received Notices of Violations (RCRIS/VIOL)	NO
Facility has been subject to RCRA administrative actions (RAATS)	NO
Facility has been subject to corrective actions (CORRACTS)	NO
Facility handles PCBs (PADS)	NO
Facility uses radioactive materials (MLTS)	NO
Facility manages registered aboveground storage tanks (AST)	NO
Facility manages registered underground storage tanks (UST)	NO
Facility has reported leaking underground storage tank incidents (LUST)	NO
Facility has reported emergency releases to the soil (ERNS)	YES - p4
Facility has reported hazardous material incidents to DOT (HMIRS)	NO
WASTE DISPOSAL Facility is a Superfund Site (NPL)	NO
Facility has a known or suspect abandoned, inactive or uncontrolled hazardous waste site (CERCLIS)	NO
Facility has a reported Superfund Lien on it (LIENS)	NO
Facility is listed as a state hazardous waste site (SHWS)	NO
Facility has disposed of solid waste on-site (SWF/LF)	NO
MULTIMEDIA Facility uses toxic chemicals and has notified EPA under SARA Title III, Section 313 (TRIS)	NO
Facility produces pesticides and has notified EPA under Section 7 of FIFRA (SSTS)	NO
Facility manufactures or imports toxic chemicals on the TSCA list (TSCA)	NO
Facility has inspections under FIFRA, TSCA or EPCRA (FTTS)	NO
Facility is listed in EPA's index system (FINDS)	NO
Facility is listed in a county/local unique database (LOCAL)	NO
POTENTIAL SUPERFUND LIABILITY Facility has a list of potentially responsible parties PRP	NO
TOTAL (YES)	1

SECTION 2: FACILITY DETAIL REPORTS

WASTE MANAGEMENT

Facility has reported emergency releases to the soil

DATABASE: Emergency Response Notification System (ERNS)

GENERATOR PLANT. SAVAGE ROAD
GENERATOR PLANT. SAVAGE ROAD
FORT GRORGE G. MEADE, MD
EDR ID #90159638

Site ID: 90159638

Site Location: GENERATOR PLANT. SAVAGE ROAD
FORT GRORGE G. MEADE, MD
ANNE ARUNDEL County

Report No: 07412

Spill Date: 02/06/1990

Medium Desc: Land

Evacuation: Yes

Fatalities: None

Disch Org: NATIONAL SECURITY AGENCY

Disch Add: 9800 SAVAGE ROAD

Disch City: FT. GEORGE G. MEADE

Disch ST: MD

Disch Zip: 20755-6000

Disch County: Not reported

C.G. Unit: Not reported

Cause: Not reported

EPA Region: 03

Spill Time: 13:30

Damage/Amt: Yes / \$0.00

Injured: None

Notes: CONCRETE/SOIL

Spilled Material	Total Qty	In Water	Undot	Cas	Qty
OIL: DIESEL	60.00 GAL	0.00 NON	Not reported	Not reported	420.00 lbs.

Description: DAY TANK/MECHANICAL FAILURE OF ALARM CAUSED TANK TO OVERFLOW.

Location: GENERATOR PLANT. SAVAGE ROAD

Action: PLACED SORBENTS ON SPILL TO CLEAN UP.

Comments: 40 GAL RECOVERED

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

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

WASTE MANAGEMENT

RCRIS: Resource Conservation and Recovery Information System

Source: EPA

Telephone: 800-424-9346

Resource Conservation and Recovery Information System. RCRIS includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs): generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs): generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs): generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 01/12/2004
Database Release Frequency: Varies

Date of Last EDR Contact: 01/19/2004
Date of Next Scheduled Update: 04/19/2004

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Date of Government Version: 12/01/2001
Database Release Frequency: Biennially

Date of Last EDR Contact: 12/16/2003
Date of Next Scheduled Update: 03/15/2004

RAATS: RCRA Administrative Action Tracking System

Source: EPA

Telephone: 202-564-4104

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
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 12/08/2003
Date of Next Scheduled Update: 03/08/2004

CORRACTS: Corrective Action Report

Source: EPA

Telephone: 800-424-9346

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/18/2003
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 12/08/2003
Date of Next Scheduled Update: 03/08/2004

PADS: PCB Activity Database System

Source: EPA

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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: 09/30/2003
Database Release Frequency: Annually

Date of Last EDR Contact: 11/12/2003
Date of Next Scheduled Update: 02/09/2004

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MLTS: Material Licensing Tracking System

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169

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

Date of Government Version: 10/16/2003
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/06/2004
Date of Next Scheduled Update: 04/05/2004

MD AST: Permitted Aboveground Storage Tanks

Source: Department of The Environment
Telephone: 410-537-3000

Registered Aboveground Storage Tanks.

Date of Government Version: 11/14/2003
Database Release Frequency: Quarterly

Date of Last EDR Contact: 11/12/2003
Date of Next Scheduled Update: 02/09/2004

MD UST: Registered Underground Storage Tank List

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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: 12/04/2003
Database Release Frequency: Varies

Date of Last EDR Contact: 11/12/2003
Date of Next Scheduled Update: 02/09/2004

ERNS: Emergency Response Notification System

Source: National Response Center, United States Coast Guard
Telephone: 202-260-2342

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

Date of Government Version: 12/31/2002
Database Release Frequency: Annually

Date of Last EDR Contact: 01/26/2004
Date of Next Scheduled Update: 04/26/2004

HMIRS: Hazardous Materials Information Reporting System

Source: U.S. Department of Transportation
Telephone: 202-366-4555

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

Date of Government Version: 12/18/2003
Database Release Frequency: Annually

Date of Last EDR Contact: 01/19/2004
Date of Next Scheduled Update: 04/19/2004

WASTE DISPOSAL

NPL: National Priority List

Source: EPA
Telephone: Not reported

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: 10/21/2003
Date Made Active at EDR: 12/08/2003
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 11/03/2003
Elapsed ASTM Days: 35
Date of Last EDR Contact: 11/03/2003

PROPOSED NPL: Proposed National Priority List Sites

Source: EPA
Telephone: Not reported

Date of Government Version: 10/14/2003
Date Made Active at EDR: 12/08/2003
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 12/01/2003
Elapsed ASTM Days: 7
Date of Last EDR Contact: 11/03/2003

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

...Continued...

DELISTED NPL: National Priority List Deletions

Source: EPA

Telephone: Not reported

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: 10/21/2003

Date Made Active at EDR: 12/08/2003

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 11/03/2003

Elapsed ASTM Days: 35

Date of Last EDR Contact: 11/03/2003

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

Source: EPA

Telephone: 703-413-0223

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: 11/17/2003

Date Made Active at EDR: 02/02/2004

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 12/22/2003

Elapsed ASTM Days: 42

Date of Last EDR Contact: 12/22/2003

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Source: EPA

Telephone: 703-413-0223

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

Date of Government Version: 11/17/2003

Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/22/2003

Date of Next Scheduled Update: 03/22/2004

NPL LIENS: Federal Superfund Liens

Source: EPA

Telephone: 202-564-4267

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

Date of Government Version: 10/15/1991

Date Made Active at EDR: 03/30/1994

Database Release Frequency: No Update Planned

Date of Data Arrival at EDR: 02/02/1994

Elapsed ASTM Days: 56

Date of Last EDR Contact: 11/21/2003

MD SHWS: Notice of Potential Hazardous Waste Sites

Source: Department of the Environment

Telephone: 410-537-3000

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 09/01/2003

Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 12/08/2003

Date of Next Scheduled Update: 03/08/2004

MD SWF/LF: Permitted Solid Waste Disposal Facilities

Source: Department of the Environment

Telephone: 410-537-3375

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 10/08/2003

Database Release Frequency: Annually

Date of Last EDR Contact: 01/19/2004

Date of Next Scheduled Update: 04/19/2004

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

...Continued...

MULTIMEDIA

TRIS: Toxic Chemical Release Inventory System

Source: EPA

Telephone: 202-566-0250

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: 12/31/2001
Database Release Frequency: Annually

Date of Last EDR Contact: 12/22/2003
Date of Next Scheduled Update: 03/22/2004

SSTS: Section 7 Tracking Systems

Source: EPA

Telephone: 202-564-5008

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: 12/31/2001
Database Release Frequency: Annually

Date of Last EDR Contact: 01/19/2004
Date of Next Scheduled Update: 04/19/2004

TSCA: Toxic Substances Control Act

Source: EPA

Telephone: 202-260-5521

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

Date of Government Version: 12/31/2002
Database Release Frequency: N/A

Date of Last EDR Contact: 12/08/2003
Date of Next Scheduled Update: 03/08/2004

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-564-2501

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/16/2003
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/22/2003
Date of Next Scheduled Update: 03/22/2004

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Source: EPA

Telephone: 202-564-2501

Date of Government Version: 10/16/2003
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/22/2003
Date of Next Scheduled Update: 03/22/2004

FINDS: Facility Index System/Facility Identification Initiative Program Summary Report

Source: EPA

Telephone: Not reported

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: 10/23/2003
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/06/2004
Date of Next Scheduled Update: 04/05/2004

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

...Continued...

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

Disclaimer Provided by Real Property Scan, Inc.

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

POTENTIAL SUPERFUND LIABILITY

PRP: Potentially Responsible Parties

Source: EPA

Telephone: 202-564-6064

A listing of verified Potentially Responsible Parties

Date of Government Version: 11/24/2003

Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/16/2003

Date of Next Scheduled Update: 04/05/2004



EDR Site Report™

**USA FORT GEORGE MEADE
FT MEADE
FT MEADE, MD 20755**

Inquiry Number:

February 12, 2004

***The Source*
For Environmental
Risk Management
Data**

3530 Post Road
Southport, Connecticut 06890

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

TABLE OF CONTENTS

The EDR-Site Report™ is a comprehensive presentation of government filings on a facility identified in a search of over 4 million government records from more than 600 federal, state and local environmental databases. The report is divided into three sections:

Section 1: Facility Summary Page 3

Summary of facility filings including a review of the following areas: waste management, waste disposal, multi-media issues, and Superfund liability.

Section 2: Facility Detail Reports Page 4

All available detailed information from databases where sites are identified.

Section 3: Databases Searched and Update Information. Page 5

Name, source, update dates, contact phone number and description of each of the databases searched for this report.

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

Disclaimer

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SECTION 1: FACILITY SUMMARY

FACILITY	FACILITY 1 USA FORT GEORGE MEADE FT MEADE FT MEADE, MD 20755 EDR ID #S101517292
AREA	
WASTE MANAGEMENT Facility generates hazardous waste (RCRIS)	NO
Facility treats, stores, or disposes of hazardous waste on-site (RCRIS/TSDf)	NO
Facility has received Notices of Violations (RCRIS/VIOL)	NO
Facility has been subject to RCRA administrative actions (RAATS)	NO
Facility has been subject to corrective actions (CORRACTS)	NO
Facility handles PCBs (PADS)	NO
Facility uses radioactive materials (MLTS)	NO
Facility manages registered aboveground storage tanks (AST)	NO
Facility manages registered underground storage tanks (UST)	NO
Facility has reported leaking underground storage tank incidents (LUST)	NO
Facility has reported emergency releases to the soil (ERNS)	NO
Facility has reported hazardous material incidents to DOT (HMIRS)	NO
WASTE DISPOSAL Facility is a Superfund Site (NPL)	NO
Facility has a known or suspect abandoned, inactive or uncontrolled hazardous waste site (CERCLIS)	NO
Facility has a reported Superfund Lien on it (LIENS)	NO
Facility is listed as a state hazardous waste site (SHWS)	YES - p4
Facility has disposed of solid waste on-site (SWF/LF)	NO
MULTIMEDIA Facility uses toxic chemicals and has notified EPA under SARA Title III, Section 313 (TRIS)	NO
Facility produces pesticides and has notified EPA under Section 7 of FIFRA (SSTS)	NO
Facility manufactures or imports toxic chemicals on the TSCA list (TSCA)	NO
Facility has inspections under FIFRA, TSCA or EPCRA (FTTS)	NO
Facility is listed in EPA's index system (FINDS)	NO
Facility is listed in a county/local unique database (LOCAL)	NO
POTENTIAL SUPERFUND LIABILITY Facility has a list of potentially responsible parties PRP	NO
TOTAL (YES)	1

SECTION 2: FACILITY DETAIL REPORTS

WASTE DISPOSAL

Facility is listed as a state hazardous waste site

DATABASE: State Hazardous Waste Sites (SHWS)

USA FORT GEORGE MEADE
FT MEADE
FT MEADE, MD 20755
EDR ID #S101517292

SHWS:

Facility ID: (MD-067)
Facility Type: State Master List
Status: NPL
Alias Name: USA 144TH ORDINANCE DETACHMENT, USA LUMBER STORAGE YARD,
USA BLDG T37 SUB STA 3, USA TRAINING AREA T38, USA BUILDING
6527, CAMP MEADE

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Date Made Active at EDR: 12/08/2003
Database Release Frequency: Semi-Annually

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Date of Last EDR Contact: 11/03/2003

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Telephone: Not reported

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Database Release Frequency: Quarterly

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Date of Last EDR Contact: 12/08/2003

Date of Next Scheduled Update: 03/08/2004

MD SWF/LF: Permitted Solid Waste Disposal Facilities

Source: Department of the Environment

Telephone: 410-537-3375

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 10/08/2003

Database Release Frequency: Annually

Date of Last EDR Contact: 01/19/2004

Date of Next Scheduled Update: 04/19/2004

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

...Continued...

MULTIMEDIA

TRIS: Toxic Chemical Release Inventory System

Source: EPA

Telephone: 202-566-0250

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: 12/31/2001
Database Release Frequency: Annually

Date of Last EDR Contact: 12/22/2003
Date of Next Scheduled Update: 03/22/2004

SSTS: Section 7 Tracking Systems

Source: EPA

Telephone: 202-564-5008

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: 12/31/2001
Database Release Frequency: Annually

Date of Last EDR Contact: 01/19/2004
Date of Next Scheduled Update: 04/19/2004

TSCA: Toxic Substances Control Act

Source: EPA

Telephone: 202-260-5521

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

Date of Government Version: 12/31/2002
Database Release Frequency: N/A

Date of Last EDR Contact: 12/08/2003
Date of Next Scheduled Update: 03/08/2004

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-564-2501

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/16/2003
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/22/2003
Date of Next Scheduled Update: 03/22/2004

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Source: EPA

Telephone: 202-564-2501

Date of Government Version: 10/16/2003
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/22/2003
Date of Next Scheduled Update: 03/22/2004

FINDS: Facility Index System/Facility Identification Initiative Program Summary Report

Source: EPA

Telephone: Not reported

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: 10/23/2003
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/06/2004
Date of Next Scheduled Update: 04/05/2004

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

...Continued...

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

Disclaimer Provided by Real Property Scan, Inc.

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POTENTIAL SUPERFUND LIABILITY

PRP: Potentially Responsible Parties

Source: EPA

Telephone: 202-564-6064

A listing of verified Potentially Responsible Parties

Date of Government Version: 11/24/2003

Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/16/2003

Date of Next Scheduled Update: 04/05/2004



EDR Site Report™

**FORT GEORGE G. MEADE
MARYLAND ROUTE 175
ODENTON, MD 21113**

Inquiry Number:

February 12, 2004

***The Source
For Environmental
Risk Management
Data***

3530 Post Road
Southport, Connecticut 06890

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

TABLE OF CONTENTS

The EDR-Site Report™ is a comprehensive presentation of government filings on a facility identified in a search of over 4 million government records from more than 600 federal, state and local environmental databases. The report is divided into three sections:

Section 1: Facility Summary Page 3

Summary of facility filings including a review of the following areas: waste management, waste disposal, multi-media issues, and Superfund liability.

Section 2: Facility Detail Reports Page 4

All available detailed information from databases where sites are identified.

Section 3: Databases Searched and Update Information. Page 39

Name, source, update dates, contact phone number and description of each of the databases searched for this report.

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

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SECTION 1: FACILITY SUMMARY

FACILITY	FACILITY 1 FORT GEORGE G. MEADE MARYLAND ROUTE 175 ODENTON, MD 21113 EDR ID #1000114335 EPA #MD9210020567
AREA	
WASTE MANAGEMENT Facility generates hazardous waste (RCRIS)	YES - p4
Facility treats, stores, or disposes of hazardous waste on-site (RCRIS/TSDf)	YES - p4
Facility has received Notices of Violations (RCRIS/VIOL)	YES - p6
Facility has been subject to RCRA administrative actions (RAATS)	NO
Facility has been subject to corrective actions (CORRACTS)	YES - p17
Facility handles PCBs (PADS)	YES - p18
Facility uses radioactive materials (MLTS)	NO
Facility manages registered aboveground storage tanks (AST)	NO
Facility manages registered underground storage tanks (UST)	NO
Facility has reported leaking underground storage tank incidents (LUST)	NO
Facility has reported emergency releases to the soil (ERNS)	NO
Facility has reported hazardous material incidents to DOT (HMIRS)	NO
WASTE DISPOSAL Facility is a Superfund Site (NPL)	YES - p19
Facility has a known or suspect abandoned, inactive or uncontrolled hazardous waste site (CERCLIS)	YES - p30
Facility has a reported Superfund Lien on it (LIENS)	NO
Facility is listed as a state hazardous waste site (SHWS)	NO
Facility has disposed of solid waste on-site (SWF/LF)	NO
MULTIMEDIA Facility uses toxic chemicals and has notified EPA under SARA Title III, Section 313 (TRIS)	NO
Facility produces pesticides and has notified EPA under Section 7 of FIFRA (SSTS)	NO
Facility manufactures or imports toxic chemicals on the TSCA list (TSCA)	NO
Facility has inspections under FIFRA, TSCA or EPCRA (FTTS)	NO
Facility is listed in EPA's index system (FINDS)	YES - p38
Facility is listed in a county/local unique database (LOCAL)	NO
POTENTIAL SUPERFUND LIABILITY Facility has a list of potentially responsible parties PRP	NO
TOTAL (YES)	8

SECTION 2: FACILITY DETAIL REPORTS

WASTE MANAGEMENT

Facility generates hazardous waste

Facility treats, stores, or disposes of hazardous waste on-site

DATABASE: Resource Conservation and Recovery Information System (RCRIS)

FORT GEORGE G. MEADE
MARYLAND ROUTE 175
ODENTON, MD 21113
EDR ID #1000114335

Facility Name: USARMY DIRECTORATE OF PUBLIC WORKS
MD RTE 175
FORT GEORGE G MEADE, MD 20755

Mailing Address: ATTN AFZI-FE-E
FORT GEORGE G MEADE, MD 20755

Contact: RICHARD LUQUETTE
(301) 677-3648

EPA-ID: MD9210020567

Classification: Large Quantity Generator, TSDF

Description: Handler:
- generates 1,000 kg or more of hazardous waste during any calendar month; or
- generates more than 1 kg of acutely hazardous waste during any calendar month; or
- generates more than 100 kg 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; or
- generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; 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 more than 100 kg of that material at any time
Handler is engaged in the treatment, storage or disposal of hazardous waste

TSDF Activities: Not reported

Legal Status: Federal

Operator: OPERNAME
OPERSTREET
OPERCITY, AK 21555 - 5121
(215) 555-1212

BIENNIAL REPORTS

Last Biennial Reporting Year: 2001

Annual Waste Handled:

Waste Code	Amount (Lbs)	Waste Code	Amount (Lbs)
D001	9105.00	D002	1470.00
D006	1125.00	D007	1125.00
D008	58672.00	D009	4810.00
D011	149.00	D016	6.00
D018	1397.00	D026	1.00
F002	1297.00	U031	10.00
U044	16.00	U115	1.00
U123	4.00	U188	1.00
U226	5.00	U248	26.00

CORRECTIVE ACTION SUMMARY

Event: CA Responsibility Referred To A Non-RCRA Federal Authority, Corrective Action at the facility or area referred to CERCLA.
Event Date: 09/30/1988

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Event: CA Prioritization, Facility or area was assigned a high corrective action priority.
Event Date: 05/28/1993

NY MANIFEST DATA

Document ID:	NYA7365231	Manifest Status:	C
Trans1 State ID:	S09908STI	Trans2 State ID:	TP79967PA
Generator Ship Date:	02/16/94	Trans1 Recv Date:	02/16/94
Trans2 Recv Date:	02/24/94	TSD Site Recv Date:	02/25/94
Part A Recv Date:	03/07/94	Part B Recv Date:	03/08/94
Generator EPA ID:	MD9210020567	Trans1 EPA ID:	ILD099202681
Trans2 EPA ID:	PAD146714878	TSD ID:	NYD000632372
Facility Type:	GEN		
Facility Name :	UNITED STATES NAVY-DLA DEFENSE PROPERTY		
Facility Address :	DISPOSAL OFFICE-PO BX 388 FORT MEADE, MD 20755		
Country :	Not reported		
County :	Not reported	Code :	Not reported
Mailing Name :	UNITED STATES NAVY-DLA DEFENSE PROPERTY		
Mailing Contact :	EUGENE BARTLINSKI		
Mailing Address :	P.O. BOX 388 FORT MEADE, MD 20755		
Mailing Country :	Not reported		

Waste Code	Quantity	Num of Containers	Container Type	Handling Method	Specific Gravity
D001	01537 Pounds	014	Fiber or plastic boxes, cartons	Treat	100

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

WASTE MANAGEMENT

Facility Has Received Notices of Violations

DATABASE: Resource Conservation and Recovery Information System (RCRIS)

FORT GEORGE G. MEADE
MARYLAND ROUTE 175
ODENTON, MD 21113
EDR ID #1000114335

Regulation Violated: 40 CFR 262.34
Area of Violation: GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined: 08/17/1999
Actual Date Achieved Compliance: Not reported

Enforcement Action: SITE COMPLAINT
Enforcement Action Date: 02/04/1994

Enforcement Action: WRITTEN COMPLAINT
Enforcement Action Date: 05/19/1994

Enforcement Action: COMPLAINT AND ORDER
Enforcement Action Date: 06/27/1994

Regulation Violated: 40 CFR 262.34
Area of Violation: GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined: 08/17/1999
Actual Date Achieved Compliance: Not reported

Enforcement Action: SITE COMPLAINT
Enforcement Action Date: 02/04/1994

Enforcement Action: COMPLAINT AND ORDER
Enforcement Action Date: 06/27/1994

Regulation Violated: 40 CFR 265.50
Area of Violation: TSD-CONTINGENCY PLAN REQUIREMENTS
Date Violation Determined: 08/17/1999
Actual Date Achieved Compliance: Not reported

Enforcement Action: SITE COMPLAINT
Enforcement Action Date: 02/04/1994

Enforcement Action: WRITTEN COMPLAINT
Enforcement Action Date: 05/19/1994

Enforcement Action: COMPLAINT AND ORDER
Enforcement Action Date: 06/27/1994

Regulation Violated: COMAR 26.13.03.04F
Area of Violation: GENERATOR-MANIFEST REQUIREMENTS
Date Violation Determined: 06/25/1997
Actual Date Achieved Compliance: 07/16/1997

Regulation Violated: 40 CFR 268.7(a)(1)
Area of Violation: GENERATOR-LAND BAN REQUIREMENTS
Date Violation Determined: 06/25/1997
Actual Date Achieved Compliance: 07/10/1997

Regulation Violated: COMAR 26.13.03.04F
Area of Violation: TSD-MANIFEST REQUIREMENTS
Date Violation Determined: 03/05/1996
Actual Date Achieved Compliance: 03/18/1996

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Enforcement Action:	SITE COMPLAINT
Enforcement Action Date:	03/07/1996
Regulation Violated:	COMAR 26.13.03.04F
Area of Violation:	TSD-MANIFEST REQUIREMENTS
Date Violation Determined:	03/05/1996
Actual Date Achieved Compliance:	03/18/1996
Enforcement Action:	SITE COMPLAINT
Enforcement Action Date:	03/07/1996
Regulation Violated:	COMAR 06.13.03.06C
Area of Violation:	TSD-MANIFEST REQUIREMENTS
Date Violation Determined:	03/05/1996
Actual Date Achieved Compliance:	03/20/1996
Regulation Violated:	40CFR 268
Area of Violation:	TSD-LAND BAN REQUIREMENTS
Date Violation Determined:	03/05/1996
Actual Date Achieved Compliance:	03/18/1996
Enforcement Action:	SITE COMPLAINT
Enforcement Action Date:	03/07/1996
Regulation Violated:	COMAR 26.13.07.01A-C,26.04.07
Area of Violation:	TSD-PART B APPLICATION
Date Violation Determined:	06/12/1995
Actual Date Achieved Compliance:	07/26/1996
Enforcement Action:	COMPLAINT AND ORDER
Enforcement Action Date:	09/08/1997
Enforcement Action:	COMPLAINT AND ORDER
Enforcement Action Date:	08/24/1998
Regulation Violated:	COMAR 26.08.03.01
Area of Violation:	TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined:	06/12/1995
Actual Date Achieved Compliance:	07/26/1996
Enforcement Action:	COMPLAINT AND ORDER
Enforcement Action Date:	09/08/1997
Enforcement Action:	COMPLAINT AND ORDER
Enforcement Action Date:	08/24/1998
Regulation Violated:	COMAR 26.13.03.05E(1)(g)
Area of Violation:	GENERATOR-OTHER REQUIREMENTS
Date Violation Determined:	06/05/1995
Actual Date Achieved Compliance:	12/01/1995
Enforcement Action:	WRITTEN COMPLAINT
Enforcement Action Date:	06/21/1995
Regulation Violated:	COMAR 23.13.03.05E(1)(e)+(f)
Area of Violation:	GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined:	06/05/1995
Actual Date Achieved Compliance:	12/01/1995
Enforcement Action:	WRITTEN COMPLAINT
Enforcement Action Date:	06/21/1995
Regulation Violated:	COMAR 26.13.03.05E(1)(g)
Area of Violation:	GENERATOR-RECORDKEEPING REQUIREMENTS
Date Violation Determined:	06/05/1995
Actual Date Achieved Compliance:	12/01/1995
Enforcement Action:	WRITTEN COMPLAINT
Enforcement Action Date:	06/21/1995
Regulation Violated:	COMAR 26.13.03.05E(1)(d)+(k)
Area of Violation:	GENERATOR-RECORDKEEPING REQUIREMENTS
Date Violation Determined:	06/01/1995
Actual Date Achieved Compliance:	06/01/1995

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Enforcement Action:	WRITTEN COMPLAINT
Enforcement Action Date:	06/21/1995
Regulation Violated:	COMAR 26.13.03.05E(1)(g)
Area of Violation:	GENERATOR-RECORDKEEPING REQUIREMENTS
Date Violation Determined:	06/01/1995
Actual Date Achieved Compliance:	01/22/1997
Enforcement Action:	WRITTEN COMPLAINT
Enforcement Action Date:	06/21/1995
Regulation Violated:	COMAR 26.13.03.05E(1)(g)
Area of Violation:	GENERATOR-OTHER REQUIREMENTS
Date Violation Determined:	06/01/1995
Actual Date Achieved Compliance:	01/22/1997
Enforcement Action:	WRITTEN COMPLAINT
Enforcement Action Date:	06/21/1995
Regulation Violated:	COMAR 26.13.03.05E(1)(e)
Area of Violation:	GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined:	05/11/1995
Actual Date Achieved Compliance:	05/11/1995
Enforcement Action:	WRITTEN COMPLAINT
Enforcement Action Date:	06/21/1995
Regulation Violated:	COMAR 26.13.03.05E(1)(d)
Area of Violation:	GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined:	05/11/1995
Actual Date Achieved Compliance:	05/11/1995
Enforcement Action:	WRITTEN COMPLAINT
Enforcement Action Date:	06/21/1995
Regulation Violated:	COMAR 26.13.03.05F
Area of Violation:	TSD-MANIFEST REQUIREMENTS
Date Violation Determined:	05/09/1995
Actual Date Achieved Compliance:	05/09/1995
Regulation Violated:	COMAR 26.13.05.02I
Area of Violation:	TSD-CONTAINERS REQUIREMENTS
Date Violation Determined:	05/09/1995
Actual Date Achieved Compliance:	07/18/1995
Regulation Violated:	COMAR 26.13.03.05E(1)(a)
Area of Violation:	GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined:	11/30/1994
Actual Date Achieved Compliance:	12/06/1994
Enforcement Action:	SITE COMPLAINT
Enforcement Action Date:	11/30/1994
Regulation Violated:	COMAR 26.13.03
Area of Violation:	GENERATOR-GENERAL REQUIREMENTS
Date Violation Determined:	11/30/1994
Actual Date Achieved Compliance:	01/17/1995
Enforcement Action:	SITE COMPLAINT
Enforcement Action Date:	11/30/1994
Regulation Violated:	COMAR 26.13.03.05.E(3)(b)
Area of Violation:	GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined:	08/24/1994
Actual Date Achieved Compliance:	01/17/1995
Enforcement Action:	VERBAL INFORMAL
Enforcement Action Date:	01/24/1992
Regulation Violated:	COMAR 26.13.03.05.E(3)(a)
Area of Violation:	GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined:	08/24/1994
Actual Date Achieved Compliance:	01/17/1995

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Enforcement Action:	VERBAL INFORMAL
Enforcement Action Date:	01/24/1992
Regulation Violated:	COMAR 26.13.03.05.E(3)
Area of Violation:	GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined:	08/24/1994
Actual Date Achieved Compliance:	01/17/1995
Enforcement Action:	VERBAL INFORMAL
Enforcement Action Date:	01/24/1992
Regulation Violated:	COMAR 26.B.03.05.E(1)
Area of Violation:	GENERATOR-GENERAL REQUIREMENTS
Date Violation Determined:	08/24/1994
Actual Date Achieved Compliance:	01/17/1995
Enforcement Action:	VERBAL INFORMAL
Enforcement Action Date:	01/24/1992
Regulation Violated:	COMAR 26.13.05.E.(1)(b)
Area of Violation:	GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined:	08/24/1994
Actual Date Achieved Compliance:	01/17/1995
Enforcement Action:	SITE COMPLAINT
Enforcement Action Date:	02/04/1994
Regulation Violated:	COMAR 26.13.03.05.E(1)(e)
Area of Violation:	GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined:	08/24/1994
Actual Date Achieved Compliance:	01/17/1995
Enforcement Action:	SITE COMPLAINT
Enforcement Action Date:	02/04/1994
Regulation Violated:	COMAR 26.13.03.04.C(1)(c)
Area of Violation:	GENERATOR-MANIFEST REQUIREMENTS
Date Violation Determined:	08/24/1994
Actual Date Achieved Compliance:	01/17/1995
Enforcement Action:	SITE COMPLAINT
Enforcement Action Date:	02/04/1994
Regulation Violated:	COMAR 26.13.03.06.C(1)
Area of Violation:	GENERATOR-MANIFEST REQUIREMENTS
Date Violation Determined:	08/24/1994
Actual Date Achieved Compliance:	01/17/1995
Enforcement Action:	SITE COMPLAINT
Enforcement Action Date:	02/04/1994
Regulation Violated:	COMAR 26.13.03.06.C(2)
Area of Violation:	GENERATOR-MANIFEST REQUIREMENTS
Date Violation Determined:	08/24/1994
Actual Date Achieved Compliance:	01/17/1995
Enforcement Action:	SITE COMPLAINT
Enforcement Action Date:	02/04/1994
Enforcement Action:	COMPLAINT AND ORDER
Enforcement Action Date:	06/27/1994
Regulation Violated:	COMAR 26.13.05.10.E(1)(a)
Area of Violation:	GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined:	08/24/1994
Actual Date Achieved Compliance:	01/17/1995
Enforcement Action:	VERBAL INFORMAL
Enforcement Action Date:	01/24/1992
Regulation Violated:	COMAR 26.13.03.05.E(1)(d)&(k)
Area of Violation:	GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined:	04/08/1994
Actual Date Achieved Compliance:	06/10/1994

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Enforcement Action:	SITE COMPLAINT
Enforcement Action Date:	04/08/1994
Enforcement Action:	SITE COMPLAINT
Enforcement Action Date:	04/08/1994
Enforcement Action:	WRITTEN COMPLAINT
Enforcement Action Date:	05/19/1994
Enforcement Action:	COMPLAINT AND ORDER
Enforcement Action Date:	06/27/1994
Regulation Violated:	COMAR 26.13.03.05.E(1)(d)
Area of Violation:	GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined:	04/08/1994
Actual Date Achieved Compliance:	05/19/1994
Enforcement Action:	SITE COMPLAINT
Enforcement Action Date:	04/08/1994
Enforcement Action:	SITE COMPLAINT
Enforcement Action Date:	04/08/1994
Enforcement Action:	COMPLAINT AND ORDER
Enforcement Action Date:	06/27/1994
Regulation Violated:	COMAR 26.13.05.09.H
Area of Violation:	GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined:	04/08/1994
Actual Date Achieved Compliance:	06/10/1994
Enforcement Action:	SITE COMPLAINT
Enforcement Action Date:	04/08/1994
Enforcement Action:	SITE COMPLAINT
Enforcement Action Date:	04/08/1994
Enforcement Action:	WRITTEN COMPLAINT
Enforcement Action Date:	05/19/1994
Enforcement Action:	COMPLAINT AND ORDER
Enforcement Action Date:	06/27/1994
Regulation Violated:	COMAR 26.13.03.05.E(1)(e)
Area of Violation:	GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined:	04/08/1994
Actual Date Achieved Compliance:	06/10/1994
Enforcement Action:	SITE COMPLAINT
Enforcement Action Date:	04/08/1994
Enforcement Action:	SITE COMPLAINT
Enforcement Action Date:	04/08/1994
Enforcement Action:	SITE COMPLAINT
Enforcement Action Date:	04/08/1994
Enforcement Action:	SITE COMPLAINT
Enforcement Action Date:	04/08/1994
Enforcement Action:	SITE COMPLAINT
Enforcement Action Date:	04/08/1994
Enforcement Action:	WRITTEN COMPLAINT
Enforcement Action Date:	05/19/1994
Enforcement Action:	COMPLAINT AND ORDER
Enforcement Action Date:	06/27/1994
Regulation Violated:	COMAR 26.13.03.05.E(1)
Area of Violation:	GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined:	04/08/1994
Actual Date Achieved Compliance:	06/10/1994

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Enforcement Action:	SITE COMPLAINT
Enforcement Action Date:	04/08/1994
Enforcement Action:	SITE COMPLAINT
Enforcement Action Date:	04/08/1994
Enforcement Action:	WRITTEN COMPLAINT
Enforcement Action Date:	05/19/1994
Enforcement Action:	COMPLAINT AND ORDER
Enforcement Action Date:	06/27/1994
Regulation Violated:	COMAR 26.13.03
Area of Violation:	GENERATOR-GENERAL REQUIREMENTS
Date Violation Determined:	04/08/1994
Actual Date Achieved Compliance:	05/19/1994
Enforcement Action:	COMPLAINT AND ORDER
Enforcement Action Date:	06/27/1994
Regulation Violated:	COMAR 26.13.03.05E(1)(d)&(k)
Area of Violation:	GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined:	02/01/1994
Actual Date Achieved Compliance:	04/15/1994
Enforcement Action:	SITE COMPLAINT
Enforcement Action Date:	02/04/1994
Enforcement Action:	COMPLAINT AND ORDER
Enforcement Action Date:	06/27/1994
Regulation Violated:	COMAR 26.13.05.02G(2)&(5)
Area of Violation:	TSD-GENERAL STANDARDS
Date Violation Determined:	02/01/1994
Actual Date Achieved Compliance:	06/10/1994
Enforcement Action:	SITE COMPLAINT
Enforcement Action Date:	02/04/1994
Enforcement Action:	WRITTEN COMPLAINT
Enforcement Action Date:	05/19/1994
Enforcement Action:	COMPLAINT AND ORDER
Enforcement Action Date:	06/27/1994
Regulation Violated:	COMAR 26.13.03.05E(1)(d)
Area of Violation:	GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined:	02/01/1994
Actual Date Achieved Compliance:	04/15/1994
Enforcement Action:	SITE COMPLAINT
Enforcement Action Date:	02/04/1994
Enforcement Action:	COMPLAINT AND ORDER
Enforcement Action Date:	06/27/1994
Regulation Violated:	COMAR 26.13.03.05E(1)(e)
Area of Violation:	GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined:	02/01/1994
Actual Date Achieved Compliance:	06/10/1994
Enforcement Action:	SITE COMPLAINT
Enforcement Action Date:	02/04/1994
Enforcement Action:	WRITTEN COMPLAINT
Enforcement Action Date:	05/19/1994
Enforcement Action:	COMPLAINT AND ORDER
Enforcement Action Date:	06/27/1994
Regulation Violated:	COMAR 26.13.03.05E(1)
Area of Violation:	GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined:	02/01/1994
Actual Date Achieved Compliance:	04/15/1994

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Enforcement Action:	SITE COMPLAINT
Enforcement Action Date:	02/04/1994
Enforcement Action:	COMPLAINT AND ORDER
Enforcement Action Date:	06/27/1994
Regulation Violated:	COMAR 26.13.03
Area of Violation:	GENERATOR-GENERAL REQUIREMENTS
Date Violation Determined:	02/01/1994
Actual Date Achieved Compliance:	05/19/1994
Enforcement Action:	SITE COMPLAINT
Enforcement Action Date:	02/04/1994
Enforcement Action:	COMPLAINT AND ORDER
Enforcement Action Date:	06/27/1994
Regulation Violated:	COMAR 26.13
Area of Violation:	GENERATOR-GENERAL REQUIREMENTS
Date Violation Determined:	02/01/1994
Actual Date Achieved Compliance:	04/07/1994
Enforcement Action:	SITE COMPLAINT
Enforcement Action Date:	02/04/1994
Enforcement Action:	COMPLAINT AND ORDER
Enforcement Action Date:	06/27/1994
Regulation Violated:	COMAR 26.13.03.05E(1)(d)
Area of Violation:	GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined:	02/01/1994
Actual Date Achieved Compliance:	05/19/1994
Enforcement Action:	SITE COMPLAINT
Enforcement Action Date:	02/04/1994
Enforcement Action:	COMPLAINT AND ORDER
Enforcement Action Date:	06/27/1994
Regulation Violated:	COMAR 26.13.05.02.G.(2) & (5)
Area of Violation:	TSD-GENERAL STANDARDS
Date Violation Determined:	07/27/1993
Actual Date Achieved Compliance:	05/19/1994
Enforcement Action:	SITE COMPLAINT
Enforcement Action Date:	02/04/1994
Regulation Violated:	COMAR 26.13.03.05.E.(1).(d)
Area of Violation:	GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined:	07/26/1993
Actual Date Achieved Compliance:	05/19/1994
Enforcement Action:	SITE COMPLAINT
Enforcement Action Date:	02/04/1994
Regulation Violated:	COMAR 26.13.03.05.E.(1)(d)&(k)
Area of Violation:	GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined:	07/22/1993
Actual Date Achieved Compliance:	05/19/1994
Enforcement Action:	SITE COMPLAINT
Enforcement Action Date:	02/04/1994
Regulation Violated:	COMAR 26.13.03.05.E.(1).(e)
Area of Violation:	GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined:	07/22/1993
Actual Date Achieved Compliance:	05/19/1994
Enforcement Action:	SITE COMPLAINT
Enforcement Action Date:	02/04/1994
Regulation Violated:	Not reported
Area of Violation:	GENERATOR-LAND BAN REQUIREMENTS
Date Violation Determined:	01/27/1992
Actual Date Achieved Compliance:	02/03/1992

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Enforcement Action:	VERBAL INFORMAL
Enforcement Action Date:	01/24/1992
Regulation Violated:	Not reported
Area of Violation:	TSD-CONTINGENCY PLAN REQUIREMENTS
Date Violation Determined:	01/27/1992
Actual Date Achieved Compliance:	02/11/1992
Enforcement Action:	VERBAL INFORMAL
Enforcement Action Date:	01/24/1992
Regulation Violated:	Not reported
Area of Violation:	GENERATOR-GENERAL REQUIREMENTS
Date Violation Determined:	01/24/1992
Actual Date Achieved Compliance:	02/03/1992
Enforcement Action:	VERBAL INFORMAL
Enforcement Action Date:	01/24/1992
Regulation Violated:	Not reported
Area of Violation:	GENERATOR-GENERAL REQUIREMENTS
Date Violation Determined:	01/24/1992
Actual Date Achieved Compliance:	02/03/1992
Enforcement Action:	VERBAL INFORMAL
Enforcement Action Date:	01/24/1992
Regulation Violated:	Not reported
Area of Violation:	GENERATOR-GENERAL REQUIREMENTS
Date Violation Determined:	01/24/1992
Actual Date Achieved Compliance:	02/03/1992
Enforcement Action:	VERBAL INFORMAL
Enforcement Action Date:	01/24/1992
Regulation Violated:	Not reported
Area of Violation:	GENERATOR-GENERAL REQUIREMENTS
Date Violation Determined:	01/24/1992
Actual Date Achieved Compliance:	02/11/1992
Enforcement Action:	VERBAL INFORMAL
Enforcement Action Date:	01/24/1992
Regulation Violated:	Not reported
Area of Violation:	GENERATOR-GENERAL REQUIREMENTS
Date Violation Determined:	01/24/1992
Actual Date Achieved Compliance:	02/11/1992
Enforcement Action:	VERBAL INFORMAL
Enforcement Action Date:	01/24/1992
Regulation Violated:	Not reported
Area of Violation:	TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined:	03/28/1991
Actual Date Achieved Compliance:	04/11/1991
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	03/28/1991
Regulation Violated:	COMAR 26.13.05.02G
Area of Violation:	TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined:	11/30/1990
Actual Date Achieved Compliance:	12/19/1990
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	11/30/1990
Regulation Violated:	Not reported
Area of Violation:	TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined:	11/29/1990
Actual Date Achieved Compliance:	12/19/1990
Regulation Violated:	Not reported
Area of Violation:	TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined:	11/29/1990
Actual Date Achieved Compliance:	12/19/1990
Regulation Violated:	Not reported
Area of Violation:	TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined:	11/29/1990
Actual Date Achieved Compliance:	12/19/1990
Regulation Violated:	Not reported
Area of Violation:	TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined:	11/29/1990
Actual Date Achieved Compliance:	12/19/1990

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Enforcement Action:	VERBAL INFORMAL
Enforcement Action Date:	01/24/1992
Regulation Violated:	Not reported
Area of Violation:	TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined:	11/29/1990
Actual Date Achieved Compliance:	12/19/1990
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	03/28/1991
Regulation Violated:	Not reported
Area of Violation:	TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined:	08/15/1990
Actual Date Achieved Compliance:	12/07/1990
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	08/15/1990
Regulation Violated:	Not reported
Area of Violation:	TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined:	11/30/1989
Actual Date Achieved Compliance:	12/07/1990
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	11/30/1989
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	11/07/1990
Regulation Violated:	Not reported
Area of Violation:	TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined:	11/30/1989
Actual Date Achieved Compliance:	12/07/1990
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	12/02/1989
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	11/07/1990
Regulation Violated:	40 CFR 268.7 & 265.13(b)(6)
Area of Violation:	GENERATOR-LAND BAN REQUIREMENTS
Date Violation Determined:	11/29/1989
Actual Date Achieved Compliance:	12/07/1990
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	11/07/1990
Regulation Violated:	Not reported
Area of Violation:	TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined:	11/29/1989
Actual Date Achieved Compliance:	12/19/1990
Regulation Violated:	Not reported
Area of Violation:	TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined:	11/29/1989
Actual Date Achieved Compliance:	12/19/1990
Regulation Violated:	Not reported
Area of Violation:	TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined:	09/15/1989
Actual Date Achieved Compliance:	12/07/1990
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	09/15/1989
Regulation Violated:	Not reported
Area of Violation:	TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined:	03/30/1988
Actual Date Achieved Compliance:	12/13/1988

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	03/30/1988
Regulation Violated:	Not reported
Area of Violation:	TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined:	12/14/1987
Actual Date Achieved Compliance:	12/17/1987
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	12/14/1987
Regulation Violated:	Not reported
Area of Violation:	FORMAL ENFORCEMENT AGREEMENT
Date Violation Determined:	10/21/1987
Actual Date Achieved Compliance:	12/19/1990
Regulation Violated:	Not reported
Area of Violation:	TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined:	06/05/1987
Actual Date Achieved Compliance:	11/30/1989
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	06/05/1987
Regulation Violated:	Not reported
Area of Violation:	TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined:	06/05/1987
Actual Date Achieved Compliance:	12/19/1990

PENALTY SUMMARY

Penalty Description	Date	Amount	Lead Agency
Proposed Monetary Penalty	8/24/1998	75000	STATE
Proposed Monetary Penalty	9/8/1997	75000	STATE
Proposed Monetary Penalty	6/27/1994	7500	STATE

COMPLIANCE AND ENFORCEMENT SUMMARY

Responsible Agency:	EPA Personnel
Compliance Evaluation Inspection	Evaluation Date: 01/22/2003
Compliance Evaluation Inspection	Evaluation Date: 01/22/2003
Other Evaluation	Evaluation Date: 02/23/2001
Compliance Evaluation Inspection	Evaluation Date: 08/17/1999
Compliance Evaluation Inspection	Evaluation Date: 05/26/1999
Compliance Evaluation Inspection	Evaluation Date: 08/04/1998
Compliance Evaluation Inspection	Evaluation Date: 06/25/1997
Compliance Schedule Evaluation	Evaluation Date: 01/22/1997
Compliance Schedule Evaluation	Evaluation Date: 03/20/1996
Compliance Evaluation Inspection	Evaluation Date: 03/05/1996
Compliance Evaluation Inspection	Evaluation Date: 06/12/1995
Compliance Evaluation Inspection	Evaluation Date: 06/05/1995
Compliance Evaluation Inspection	Evaluation Date: 05/09/1995
Compliance Schedule Evaluation	Evaluation Date: 01/17/1995
Compliance Evaluation Inspection	Evaluation Date: 11/30/1994
Compliance Evaluation Inspection	Evaluation Date: 08/24/1994
Compliance Schedule Evaluation	Evaluation Date: 06/10/1994
Compliance Schedule Evaluation	Evaluation Date: 05/19/1994
Compliance Eval Insp without Sampling	Evaluation Date: 04/15/1994
Compliance Evaluation Inspection	Evaluation Date: 02/04/1994
Compliance Evaluation Inspection	Evaluation Date: 07/22/1993
Compliance Schedule Evaluation	Evaluation Date: 02/11/1992
Compliance Schedule Evaluation	Evaluation Date: 02/03/1992
Compliance Evaluation Inspection	Evaluation Date: 01/24/1992

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Compliance Schedule Evaluation	Evaluation Date: 04/11/1991
Compliance Evaluation Inspection	Evaluation Date: 03/28/1991
Compliance Schedule Evaluation	Evaluation Date: 12/19/1990
Other Evaluation	Evaluation Date: 11/30/1990
Compliance Evaluation Inspection	Evaluation Date: 11/29/1990
Compliance Schedule Evaluation	Evaluation Date: 08/17/1990
Compliance Evaluation Inspection	Evaluation Date: 08/15/1990
Compliance Evaluation Inspection	Evaluation Date: 11/30/1989
Compliance Evaluation Inspection	Evaluation Date: 11/29/1989
Compliance Evaluation Inspection	Evaluation Date: 09/15/1989
Compliance Evaluation Inspection	Evaluation Date: 12/13/1988
Compliance Evaluation Inspection	Evaluation Date: 03/30/1988
Compliance Evaluation Inspection	Evaluation Date: 12/14/1987
Compliance Schedule Evaluation	Evaluation Date: 10/27/1987
Compliance Evaluation Inspection	Evaluation Date: 10/21/1987
Compliance Evaluation Inspection	Evaluation Date: 10/21/1987
Compliance Schedule Evaluation	Evaluation Date: 06/24/1987
Compliance Evaluation Inspection	Evaluation Date: 06/05/1987
Compliance Schedule Evaluation	Evaluation Date: 03/17/1986
Compliance Evaluation Inspection	Evaluation Date: 02/24/1986

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

WASTE MANAGEMENT

Facility has been subject to corrective actions

DATABASE: Corrective Actions (CORRACTS)

FORT GEORGE G. MEADE
MARYLAND ROUTE 175
ODENTON, MD 21113
EDR ID #1000114335

EPA Id: MD9210020567
Region: 3
Area Name: ENTIRE FACILITY
Actual Date: 09/30/1988
Corrective Action: CA210SF - CA Responsibility Referred To A Non-RCRA Federal Authority , Corrective Action
at the facility or area referred to CERCLA
2002 NAICS Title: National Security

EPA Id: MD9210020567
Region: 3
Area Name: ENTIRE FACILITY
Actual Date: 05/28/1993
Corrective Action: CA075HI - CA Prioritization, Facility or areawas assigned a high corrective action priority
2002 NAICS Title: National Security

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

WASTE MANAGEMENT

Facility handles PCBs

DATABASE: PCB Activity Database System (PADS)

FORT GEORGE G. MEADE
MARYLAND ROUTE 175
ODENTON, MD 21113
EDR ID #1000114335

EPA Id:	MD9210020567	Generator:	Yes
Region:	3.00000	Transporter:	No
Store:	No	Federal Facility:	No
Disposal:	No		
Form Id:	No	Alternate EPA ID:	MD5214020567
Research:	Not reported	Smelter:	Not reported
Sign:	8/3/1992	Form Code:	1
Date Signed:	8/11/1992	Report Date:	Not reported
Report Time:	Not reported	Printed:	True
Reprint:	False	Date Mailed:	8/9/1992
Date Confirmed:	Not reported	Report Date:	8/9/1992
Date Mailed:	8/9/1992	PADS Comments:	Not reported
Facility Owner Name:	WILMER O. ELLIOTT, COL EN		
Contact Name:	PULS, TERENCE		
Mailing Address:	DEH-EMO AFKA-ZI-EH-E MD, FORT MEADE 20755		
Contact Phone:	(410)677-3648	Extension:	Not reported
Address Canadian:	False		

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

WASTE DISPOSAL

Facility is a Superfund Site

DATABASE: National Priority List (NPL)

FORT GEORGE G. MEADE
MARYLAND ROUTE 175
ODENTON, MD 21113
EDR ID #1000114335

NPL:

EPA ID: MD9210020567
Region: 03
Federal: Federal
Final Date: 07/28/1998

NPL Contaminant:

NPL Status:	Final
Substance Id:	C613
Case Num:	106-44-5
Pathway:	NOT INDICATED
GW Scoring:	Not reported
SW Scoring:	Not reported
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	C636
Case Num:	Not reported
Pathway:	NOT INDICATED
GW Scoring:	Not reported
SW Scoring:	Not reported
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	U039
Case Num:	59-50-7
Pathway:	NOT INDICATED
GW Scoring:	Not reported
SW Scoring:	Not reported
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	U071
Case Num:	541-73-1
Pathway:	NOT INDICATED
GW Scoring:	Not reported
SW Scoring:	Not reported
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	U088
Case Num:	84-66-2
Pathway:	NOT INDICATED
GW Scoring:	Not reported
SW Scoring:	Not reported
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	U247
Case Num:	72-43-5
Pathway:	NOT INDICATED
GW Scoring:	Not reported
SW Scoring:	Not reported
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	A023
Case Num:	72-55-9
Pathway:	The Ground water migration route , or pathway.
GW Scoring:	Observed Release
SW Scoring:	Not reported
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	A035
Case Num:	1024-57-3
Pathway:	The Ground water migration route , or pathway.
GW Scoring:	Observed Release & Toxicity
SW Scoring:	Not reported
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	A079
Case Num:	Not reported
Pathway:	The Ground water migration route , or pathway.
GW Scoring:	Observed Release
SW Scoring:	Not reported
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	A080
Case Num:	Not reported
Pathway:	The Ground water migration route , or pathway.
GW Scoring:	Observed Release

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

SW Scoring:	Not reported
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	C049
Case Num:	100-41-4
Pathway:	The Ground water migration route , or pathway.
GW Scoring:	Observed Release
SW Scoring:	Not reported
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	C516
Case Num:	105-67-9
Pathway:	The Ground water migration route , or pathway.
GW Scoring:	Observed Release
SW Scoring:	Not reported
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	C525
Case Num:	314-40-9
Pathway:	The Ground water migration route , or pathway.
GW Scoring:	Observed Release
SW Scoring:	Not reported
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	C646
Case Num:	319-86-8
Pathway:	The Ground water migration route , or pathway.
GW Scoring:	Observed Release
SW Scoring:	Not reported
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	P004
Case Num:	309-00-2
Pathway:	The Ground water migration route , or pathway.
GW Scoring:	Toxicity
SW Scoring:	Not reported
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	P037

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Case Num: 160-57-1
Pathway: The Ground water migration route , or pathway.
GW Scoring: Observed Release & Toxicity
SW Scoring: Not reported
Air Scoring: Not reported
Soil Scoring: Not reported
DC Scoring: Not reported
FE Scoring: Not reported
NPL Status: Final
Substance Id: P050
Case Num: 115-29-7
Pathway: The Ground water migration route , or pathway.
GW Scoring: Observed Release
SW Scoring: Not reported
Air Scoring: Not reported
Soil Scoring: Not reported
DC Scoring: Not reported
FE Scoring: Not reported
NPL Status: Final
Substance Id: P051
Case Num: 72-20-8
Pathway: The Ground water migration route , or pathway.
GW Scoring: Observed Release & Toxicity
SW Scoring: Not reported
Air Scoring: Not reported
Soil Scoring: Not reported
DC Scoring: Not reported
FE Scoring: Not reported
NPL Status: Final
Substance Id: P059
Case Num: 76-44-8
Pathway: The Ground water migration route , or pathway.
GW Scoring: Observed Release
SW Scoring: Not reported
Air Scoring: Not reported
Soil Scoring: Not reported
DC Scoring: Not reported
FE Scoring: Not reported
NPL Status: Final
Substance Id: P060
Case Num: Not reported
Pathway: The Ground water migration route , or pathway.
GW Scoring: Observed Release
SW Scoring: Not reported
Air Scoring: Not reported
Soil Scoring: Not reported
DC Scoring: Not reported
FE Scoring: Not reported
NPL Status: Final
Substance Id: U019
Case Num: 71-43-2
Pathway: The Ground water migration route , or pathway.
GW Scoring: Observed Release
SW Scoring: Not reported
Air Scoring: Not reported
Soil Scoring: Not reported

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	U025
Case Num:	Not reported
Pathway:	The Ground water migration route , or pathway.
GW Scoring:	Observed Release
SW Scoring:	Not reported
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	U037
Case Num:	108-90-7
Pathway:	The Ground water migration route , or pathway.
GW Scoring:	Observed Release
SW Scoring:	Not reported
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	U044
Case Num:	67-66-3
Pathway:	The Ground water migration route , or pathway.
GW Scoring:	Observed Release
SW Scoring:	Not reported
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	U060
Case Num:	72-54-8
Pathway:	The Ground water migration route , or pathway.
GW Scoring:	Observed Release
SW Scoring:	Not reported
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	U061
Case Num:	50-29-3
Pathway:	The Ground water migration route , or pathway.
GW Scoring:	Observed Release
SW Scoring:	Not reported
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	U070
Case Num:	95-50-1
Pathway:	The Ground water migration route , or pathway.
GW Scoring:	Observed Release

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

SW Scoring:	Not reported
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	U072
Case Num:	106-46-7
Pathway:	The Ground water migration route , or pathway.
GW Scoring:	Observed Release
SW Scoring:	Not reported
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	U076
Case Num:	72-54-8
Pathway:	The Ground water migration route , or pathway.
GW Scoring:	Observed Release
SW Scoring:	Not reported
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	U083
Case Num:	78-87-5
Pathway:	The Ground water migration route , or pathway.
GW Scoring:	Observed Release
SW Scoring:	Not reported
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	U121
Case Num:	75-69-4
Pathway:	The Ground water migration route , or pathway.
GW Scoring:	Observed Release
SW Scoring:	Not reported
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	U129
Case Num:	58-89-9
Pathway:	The Ground water migration route , or pathway.
GW Scoring:	Observed Release & Toxicity
SW Scoring:	Not reported
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Substance Id:	U165
Case Num:	91-20-3
Pathway:	The Ground water migration route , or pathway.
GW Scoring:	Observed Release
SW Scoring:	Not reported
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	U210
Case Num:	79-34-5
Pathway:	The Ground water migration route , or pathway.
GW Scoring:	Observed Release
SW Scoring:	Not reported
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	U211
Case Num:	56-23-5
Pathway:	The Ground water migration route , or pathway.
GW Scoring:	Observed Release & Toxicity
SW Scoring:	Not reported
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	U220
Case Num:	108-88-3
Pathway:	The Ground water migration route , or pathway.
GW Scoring:	Observed Release
SW Scoring:	Not reported
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	U228
Case Num:	79-01-6
Pathway:	The Ground water migration route , or pathway.
GW Scoring:	Observed Release
SW Scoring:	Not reported
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	U239
Case Num:	1330-20-7
Pathway:	The Ground water migration route , or pathway.
GW Scoring:	Observed Release
SW Scoring:	Not reported
Air Scoring:	Not reported
Soil Scoring:	Not reported

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	C629
Case Num:	11096-82-5
Pathway:	SW
GW Scoring:	Not reported
SW Scoring:	Observed Release & Toxicity
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	P060
Case Num:	Not reported
Pathway:	SW
GW Scoring:	Not reported
SW Scoring:	Observed Release
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	U037
Case Num:	108-90-7
Pathway:	SW
GW Scoring:	Not reported
SW Scoring:	Observed Release & Toxicity
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	U044
Case Num:	67-66-3
Pathway:	SW
GW Scoring:	Not reported
SW Scoring:	Observed Release & Toxicity
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	U061
Case Num:	50-29-3
Pathway:	SW
GW Scoring:	Not reported
SW Scoring:	Observed Release & Toxicity
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	U129
Case Num:	58-89-9
Pathway:	SW

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

GW Scoring:	Not reported
SW Scoring:	Observed Release
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	U210
Case Num:	79-34-5
Pathway:	SW
GW Scoring:	Not reported
SW Scoring:	Observed Release
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported
NPL Status:	Final
Substance Id:	U228
Case Num:	79-01-6
Pathway:	SW
GW Scoring:	Not reported
SW Scoring:	Observed Release
Air Scoring:	Not reported
Soil Scoring:	Not reported
DC Scoring:	Not reported
FE Scoring:	Not reported

NPL Site:

CERCLIS Id:	MD9210020567
Site City:	Odenton
Site State:	MD
NPL Status:	Final
Status Date:	07/28/98
Status Date:	07/28/98
Federal Site:	Yes
HRS Score:	51.44
GW Score:	24.21
SW Score:	100.00
Air Score:	0.00
Soil Score:	0.00
DC Score:	0.00
FE Score:	0.00

NPL Status:	Final
Category Description:	DEPTH TO AQUIFER
Category Value:	>25 and <=50 feet
NPL Status:	Final
Category Description:	DISTANCE TO NEAREST POPULATION
Category Value:	0 Mile
NPL Status:	Final
Category Description:	OBSERVED RELEASE-Ground Water
Category Value:	Not reported
NPL Status:	Final
Category Description:	OBSERVED RELEASE-Surface Water
Category Value:	Not reported
NPL Status:	Final

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Category Description:	OBSERVED RELEASE-Surface Water Overland Flood Threat
Category Value:	Not reported
NPL Status:	Final
Category Description:	OTHER GROUND WATER USE-None
Category Value:	Not reported
NPL Status:	Final
Category Description:	PHYSICAL STATE-Liquid
Category Value:	Not reported
NPL Status:	Final
Category Description:	PHYSICAL STATE-Sludge
Category Value:	Not reported
NPL Status:	Final
Category Description:	PHYSICAL STATE-Solid
Category Value:	Not reported
NPL Status:	Final
Category Description:	SITE ACTIVITY WASTE SOURCE-Federal
Category Value:	Not reported
NPL Status:	Final
Category Description:	SITE ACTIVITY WASTE SOURCE-Federal DOD
Category Value:	Not reported
NPL Status:	Final
Category Description:	SURFACE WATER ADJACENT TO SITE-Drainage Ditch
Category Value:	Contamination
NPL Status:	Final
Category Description:	SURFACE WATER ADJACENT TO SITE-Intermittent Stream
Category Value:	Contamination
NPL Status:	Final
Category Description:	SURFACE WATER ADJACENT TO SITE-Lake/Reservoir
Category Value:	Contamination
NPL Status:	Final
Category Description:	SURFACE WATER ADJACENT TO SITE-Perennial Stream
Category Value:	Suspected Contamination
NPL Status:	Final
Category Description:	SURFACE WATER ADJACENT TO SITE-River
Category Value:	Suspected Contamination

Site Status:

NPL Status:	Final
Proposed Date:	04/01/1997
Final Date:	07/28/1998
Deleted Date:	Not reported

Narrative Summary:

Conditions at Proposal April 1997): Fort George G. Meade FGGM) is located in the northwestern corner of Anne Arundel County, Maryland, midway between Baltimore, Maryland, and Washington, D.C. The boundaries of the facility include the Baltimore-Washington parkway to the northwest, the Little Patuxent River and AMTRAK railroad tracks to the southeast, residential areas and the Patuxent River to the southwest, and State Route 175 to the northeast. FGGM's current mission is to provide a wide range of support to 114 tenant organizations from all four services and to several Federal agencies. Major tenant units include the National Security Agency, the Defense Information School and the U.S. Army Intelligence and Security Command. The population of FGGM includes approximately 8,000 military personnel, 25,000 civilian employees, and 5,700 family members of military personnel. Four sources of potential contamination were evaluated: the Defense Property Disposal Office (DPDO) (now Defense Reutilization Marketing Office (DRMO) salvage yard Source 5), the Active Sanitary Landfill (ASL) Source 6), the inactive Clean Fill Dump (CFD) Source 7), and the Post Laundry Facility (PLF) Source 10). The DPDO was previously used as a storage area for a wide range of materials including discarded vehicles, electrical transformers, electrical equipment and scrap metal, as well as a drum disposal

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

area. Construction of a covered storage facility has been completed at the DPDO to facilitate recycling of surplus U.S. Government property. Solid wastes were previously disposed at the ASL under a Maryland Department of the Environment (MDE) Solid Waste Division permit. In November 1995, MDE issued a Disposal Permit that allowed continued operation of the ASL until November 2000. However, since the issuance of this permit, FGGM has decided to cease solid waste disposal operations and the ASL was closed in January 1996. The CFD operated from 1972 until 1985 and was used for the disposal of miscellaneous objects such as timber, concrete, old appliances, fill, garbage, ash and, possibly, hazardous wastes. The PLF has been in operation since 1941. From 1941 until late 1991, the PLF operated mainly as a laundry with dry cleaning operations introduced in the late 1960s. In 1991, laundry and dry cleaning operations were discontinued and the PLF was converted into a recycling center. FGGM continues to perform environmental investigations at these and other sources in consultation with Federal and state regulators. Wastes stored at and disposed of in the source areas were generated from operations at the FGGM facility. The wastes include municipal and domestic wastes, pesticides, electrical transformers, solvents, polychlorinated biphenyls (PCBs), inert material, and waste petroleum, oil, and lubricant products. Hazardous substances detected in the source areas include volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), metals, pesticides, and PCBs. A release from the sources to the Upper and Lower Patuxent River watershed of VOCs, SVOCs, and pesticides has been documented. A release to the Patuxent River watershed of PCBs, VOCs, and pesticides from the sources has also been documented. The Patuxent River and its tributaries include wetlands, fisheries, and habitats for endangered species. Status July 1998): EPA is considering various alternatives for the site. The description of the site release is based on information available at the time the site was scored. The description may change as additional information is gathered on the sources and extent of contamination. See 56 FR 5600, February 11, 1991, or subsequent FR notices.

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

WASTE DISPOSAL

DATABASE: Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS)

FORT GEORGE G. MEADE
MARYLAND ROUTE 175
ODENTON, MD 21113
EDR ID #1000114335

CERCLIS Name: FORT GEORGE G. MEADE
MARYLAND ROUTE 175
ODENTON, MD 21113
ANNE ARUNDEL County

Congressional Dist: 02 RCRA Facility: Not reported

IFMS ID: 03CC SMSA Num: 0720

USGS Hydro Unit: 02060006 Federal Facility: Federal Facility

NPL Update Num: 22 Federal Register Date: 19970401
NPL Update Num: 29 Federal Register Date: 19980728

Fed Haz Waste: Yes Site Incident: Not reported

EPA-ID: MD9210020567

Non NPL Status: Not reported

Latlong: +39.083333 / -076.715278

EPA Region: Region 3
r3cerc01.r03tok.epa.gov 204.46.100.28
841 Chestnut Building
19

NPL Status: Currently on the Final NPL Ownership Status: Federally Owned

Classification: Not Reported

Site Description: DRMO located on non-BRAC portion of FGGM.

ENFORCEMENT ACTIVITY

Action Type: DISCOVERY
Action Anomaly: Not reported
Planning Status: Not reported
Priority Level: Not reported
Operable Unit: SITEWIDE
Urgency: Not reported
Actual Start Date: Not reported
Actual Complete Date: 19791201
Primary Responsibility: EPA Fund-Financed

Action Type: PRELIMINARY ASSESSMENT
Action Anomaly: Not reported
Planning Status: Not reported
Priority Level: Low
Operable Unit: SITEWIDE
Urgency: Not reported
Actual Start Date: Not reported
Actual Complete Date: 19801101
Primary Responsibility: Federal Facilities

Action Type: FF REMOVAL
Action Anomaly: Not reported
Planning Status: Not reported
Priority Level: Not reported
Operable Unit: SITEWIDE
Urgency: Not reported
Actual Start Date: 19920203
Actual Complete Date: 19930630
Primary Responsibility: Federal Facilities

Action Type: FF REMOVAL
Action Anomaly: Not reported
Planning Status: Not reported
Priority Level: Not reported
Operable Unit: SITEWIDE

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Urgency: Not reported
Actual Start Date: 19911209
Actual Complete Date: 19930930
Primary Responsibility: Federal Facilities

Action Type: FF REMOVAL
Action Anomaly: Not reported
Planning Status: Not reported
Priority Level: Not reported
Operable Unit: DRMO
Urgency: Not reported
Actual Start Date: 19950615
Actual Complete Date: 19960927
Primary Responsibility: Federal Facilities

Action Type: HRS PACKAGE
Action Anomaly: Not reported
Planning Status: Not reported
Priority Level: Not reported
Operable Unit: SITEWIDE
Urgency: Not reported
Actual Start Date: 19940301
Actual Complete Date: 19970219
Primary Responsibility: EPA Fund-Financed

Action Type: PROPOSAL TO NPL
Action Anomaly: Not reported
Planning Status: Not reported
Priority Level: Not reported
Operable Unit: SITEWIDE
Urgency: Not reported
Actual Start Date: Not reported
Actual Complete Date: 19970401
Primary Responsibility: EPA Fund-Financed

Action Type: FF REMOVAL
Action Anomaly: Not reported
Planning Status: Not reported
Priority Level: Not reported
Operable Unit: SITEWIDE
Urgency: Not reported
Actual Start Date: 19951023
Actual Complete Date: 19970430
Primary Responsibility: Federal Facilities

Action Type: FINAL LISTING ON NPL
Action Anomaly: Not reported
Planning Status: Not reported
Priority Level: Not reported
Operable Unit: SITEWIDE
Urgency: Not reported
Actual Start Date: Not reported
Actual Complete Date: 19980728
Primary Responsibility: EPA Fund-Financed

Action Type: FF REMOVAL
Action Anomaly: Not reported
Planning Status: Approved
Priority Level: Cleaned up
Operable Unit: TIPTON AIR FIELD-FTA HHA ILF#3
Urgency: Time Critical
Actual Start Date: 19980420
Actual Complete Date: 19981218
Primary Responsibility: Federal Facilities

Action Type: FF RI/FS
Action Anomaly: Not reported
Planning Status: Not reported
Priority Level: Not reported
Operable Unit: TIPTON AIR FIELD-FTA HHA ILF#3
Urgency: Not reported
Actual Start Date: 19950117
Actual Complete Date: 19981230
Primary Responsibility: Federal Facilities

Transaction ID: 0008
Transaction Type: Actual Obligation
Transaction Date: 20021113
Transaction Amount: \$ 291.00

Transaction ID: 0013
Transaction Type: Actual Obligation
Transaction Date: 20030616
Transaction Amount: \$ 663.00

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Transaction ID: 0012
Transaction Type: Actual Obligation
Transaction Date: 20030415
Transaction Amount: \$ 44.00

Transaction ID: 0011
Transaction Type: Actual Obligation
Transaction Date: 20030218
Transaction Amount: \$ 1,054.00

Transaction ID: 0010
Transaction Type: Actual Obligation
Transaction Date: 20030115
Transaction Amount: \$ 2,240.00

Transaction ID: 0009
Transaction Type: Actual Obligation
Transaction Date: 20021218
Transaction Amount: \$ 297.00

Transaction ID: 0014
Transaction Type: Actual Obligation
Transaction Date: 20030815
Transaction Amount: \$ 201.00

Transaction ID: 0007
Transaction Type: Actual Obligation
Transaction Date: 20021016
Transaction Amount: \$ 560.00

Transaction ID: 0006
Transaction Type: Actual Obligation
Transaction Date: 20020911
Transaction Amount: \$ 514.00

Transaction ID: 0005
Transaction Type: Actual Obligation
Transaction Date: 20020815
Transaction Amount: \$ 10,242.00

Transaction ID: 0004
Transaction Type: Actual Obligation
Transaction Date: 20020716
Transaction Amount: \$ 5,524.00

Transaction ID: 0003
Transaction Type: Actual Obligation
Transaction Date: 20020403
Transaction Amount: \$ 542.00

Transaction ID: 0001
Transaction Type: Actual Obligation
Transaction Date: 19981022
Transaction Amount: \$ 150.00

Transaction ID: 0002
Transaction Type: Actual Obligation
Transaction Date: 20020403
Transaction Amount: \$ 2,572.00

Transaction ID: 0002
Transaction Type: Deobligation
Transaction Date: 20020403
Transaction Amount: \$ 542.00

Transaction ID: 0013
Transaction Type: Deobligation
Transaction Date: 20030616
Transaction Amount: \$ 663.00

Transaction ID: 0009
Transaction Type: Deobligation
Transaction Date: 20021218
Transaction Amount: \$ 297.00

Transaction ID: 0012
Transaction Type: Deobligation
Transaction Date: 20030415
Transaction Amount: \$ 44.00

Transaction ID: 0014
Transaction Type: Deobligation
Transaction Date: 20030815
Transaction Amount: \$ 201.00

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Transaction ID: 0011
Transaction Type: Deobligation
Transaction Date: 20030218
Transaction Amount: \$ 1,054.00

Transaction ID: 0010
Transaction Type: Deobligation
Transaction Date: 20030115
Transaction Amount: \$ 2,240.00

Transaction ID: 0007
Transaction Type: Deobligation
Transaction Date: 20021016
Transaction Amount: \$ 560.00

Transaction ID: 0006
Transaction Type: Deobligation
Transaction Date: 20020911
Transaction Amount: \$ 514.00

Transaction ID: 0005
Transaction Type: Deobligation
Transaction Date: 20020815
Transaction Amount: \$ 10,242.00

Transaction ID: 0003
Transaction Type: Deobligation
Transaction Date: 20020403
Transaction Amount: \$ 2,572.00

Transaction ID: 0001
Transaction Type: Deobligation
Transaction Date: 19981022
Transaction Amount: \$ 150.00

Transaction ID: 0004
Transaction Type: Deobligation
Transaction Date: 20020716
Transaction Amount: \$ 5,524.00

Transaction ID: 0008
Transaction Type: Deobligation
Transaction Date: 20021113
Transaction Amount: \$ 291.00

Action Type: RECORD OF DECISION
Action Anomaly: Not reported
Planning Status: Not reported
Priority Level: Not reported
Operable Unit: TIPTON AIR FIELD-FTA HHA ILF#3
Urgency: Not reported
Actual Start Date: Not reported
Actual Complete Date: 19981230
Primary Responsibility: Federal Facilities

Action Type: FF REMOVAL
Action Anomaly: Not reported
Planning Status: Not reported
Priority Level: Not reported
Operable Unit: TIPTON AIR FIELD-ILF#1 ILF#2
Urgency: Not reported
Actual Start Date: 19990301
Actual Complete Date: 19990610
Primary Responsibility: Federal Facilities

Action Type: FF RI/FS
Action Anomaly: Not reported
Planning Status: Not reported
Priority Level: Not reported
Operable Unit: TIPTON AIR FIELD-ILF#1 ILF#2
Urgency: Not reported
Actual Start Date: 19950117
Actual Complete Date: 19990720
Primary Responsibility: Federal Facilities

Transaction ID: 0011
Transaction Type: Actual Obligation
Transaction Date: 19990602
Transaction Amount: \$ 4,393.00

Transaction ID: 0018
Transaction Type: Actual Obligation
Transaction Date: 20021223
Transaction Amount: \$ 82.00

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Transaction ID: 0017
Transaction Type: Actual Obligation
Transaction Date: 20021223
Transaction Amount: \$ 65.00

Transaction ID: 0016
Transaction Type: Actual Obligation
Transaction Date: 19991020
Transaction Amount: \$ 170.00

Transaction ID: 0015
Transaction Type: Actual Obligation
Transaction Date: 19990928
Transaction Amount: \$ 4,154.00

Transaction ID: 0014
Transaction Type: Actual Obligation
Transaction Date: 19990813
Transaction Amount: \$ 254.00

Transaction ID: 0012
Transaction Type: Actual Obligation
Transaction Date: 19990616
Transaction Amount: \$ 442.00

Transaction ID: 0010
Transaction Type: Actual Obligation
Transaction Date: 19990413
Transaction Amount: \$ 372.00

Transaction ID: 0001
Transaction Type: Actual Obligation
Transaction Date: 19980916
Transaction Amount: \$ 13,397.00

Transaction ID: 0008
Transaction Type: Actual Obligation
Transaction Date: 19990223
Transaction Amount: \$ 3,102.00

Transaction ID: 0007
Transaction Type: Actual Obligation
Transaction Date: 19990211
Transaction Amount: \$ 10,593.00

Transaction ID: 0006
Transaction Type: Actual Obligation
Transaction Date: 19990211
Transaction Amount: \$ 696.00

Transaction ID: 0005
Transaction Type: Actual Obligation
Transaction Date: 19990202
Transaction Amount: \$ 3.00

Transaction ID: 0004
Transaction Type: Actual Obligation
Transaction Date: 19981231
Transaction Amount: \$ 1,030.00

Transaction ID: 0003
Transaction Type: Actual Obligation
Transaction Date: 19981231
Transaction Amount: \$ 6,676.00

Transaction ID: 0002
Transaction Type: Actual Obligation
Transaction Date: 19980730
Transaction Amount: \$ 14,312.00

Transaction ID: 0009
Transaction Type: Actual Obligation
Transaction Date: 19990323
Transaction Amount: \$ 512.00

Transaction ID: 0013
Transaction Type: Actual Obligation
Transaction Date: 19990719
Transaction Amount: \$ 5,070.00

Transaction ID: 0011
Transaction Type: Deobligation
Transaction Date: 19990602
Transaction Amount: \$ 4,393.00

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Transaction ID: 0012
Transaction Type: Deobligation
Transaction Date: 19990616
Transaction Amount: \$ 442.00

Transaction ID: 0013
Transaction Type: Deobligation
Transaction Date: 19990719
Transaction Amount: \$ 5,070.00

Transaction ID: 0014
Transaction Type: Deobligation
Transaction Date: 19990813
Transaction Amount: \$ 254.00

Transaction ID: 0015
Transaction Type: Deobligation
Transaction Date: 19990928
Transaction Amount: \$ 4,154.00

Transaction ID: 0016
Transaction Type: Deobligation
Transaction Date: 19991020
Transaction Amount: \$ 170.00

Transaction ID: 0017
Transaction Type: Deobligation
Transaction Date: 20021227
Transaction Amount: \$ 62.00

Transaction ID: 0001
Transaction Type: Deobligation
Transaction Date: 19980916
Transaction Amount: \$ 13,397.00

Transaction ID: 0010
Transaction Type: Deobligation
Transaction Date: 19990408
Transaction Amount: \$ 372.00

Transaction ID: 0008
Transaction Type: Deobligation
Transaction Date: 19990223
Transaction Amount: \$ 3,102.00

Transaction ID: 0007
Transaction Type: Deobligation
Transaction Date: 19990211
Transaction Amount: \$ 10,593.00

Transaction ID: 0006
Transaction Type: Deobligation
Transaction Date: 19990211
Transaction Amount: \$ 696.00

Transaction ID: 0005
Transaction Type: Deobligation
Transaction Date: 19990202
Transaction Amount: \$ 3.00

Transaction ID: 0004
Transaction Type: Deobligation
Transaction Date: 19981231
Transaction Amount: \$ 6,676.00

Transaction ID: 0009
Transaction Type: Deobligation
Transaction Date: 19990319
Transaction Amount: \$ 512.00

Transaction ID: 0002
Transaction Type: Deobligation
Transaction Date: 19980730
Transaction Amount: \$ 14,312.00

Transaction ID: 0003
Transaction Type: Deobligation
Transaction Date: 19981231
Transaction Amount: \$ 1,030.00

Action Type: RECORD OF DECISION
Action Anomaly: Not reported
Planning Status: Not reported
Priority Level: Not reported
Operable Unit: TIPTON AIR FIELD-ILF#1 ILF#2

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Urgency: Not reported
Actual Start Date: Not reported
Actual Complete Date: 19990720
Primary Responsibility: Federal Facilities

Action Type: NOTICE OF INTENT TO PARTIALLY DELETE
Action Anomaly: Not reported
Planning Status: Not reported
Priority Level: Not reported
Operable Unit: TIPTON AIR FIELD-ILF#1 ILF#2
Urgency: Not reported
Actual Start Date: Not reported
Actual Complete Date: 19990917
Primary Responsibility: EPA Fund-Financed

Action Type: PARTIAL NPL DELETION
Action Anomaly: Not reported
Planning Status: Not reported
Priority Level: Not reported
Operable Unit: TIPTON AIR FIELD-ILF#1 ILF#2
Urgency: Not reported
Actual Start Date: 19990917
Actual Complete Date: 19991112
Primary Responsibility: EPA Fund-Financed

Action Type: FF REMOVAL
Action Anomaly: Not reported
Planning Status: Not reported
Priority Level: Not reported
Operable Unit: POST LAUNDRY
Urgency: Not reported
Actual Start Date: 20000713
Actual Complete Date: 20000713
Primary Responsibility: Federal Facilities

Action Type: FF RI/FS
Action Anomaly: Not reported
Planning Status: Not reported
Priority Level: Not reported
Operable Unit: CLEAN FILL DUMP
Urgency: Not reported
Actual Start Date: 19990429
Actual Complete Date: 20000929
Primary Responsibility: Federal Facilities

Action Type: RECORD OF DECISION
Action Anomaly: Not reported
Planning Status: Not reported
Priority Level: Not reported
Operable Unit: CLEAN FILL DUMP
Urgency: Not reported
Actual Start Date: Not reported
Actual Complete Date: 20000929
Primary Responsibility: Federal Facilities

Action Type: FF RD
Action Anomaly: Not reported
Planning Status: Not reported
Priority Level: Not reported
Operable Unit: CLEAN FILL DUMP
Urgency: Not reported
Actual Start Date: 20020530
Actual Complete Date: 20020630
Primary Responsibility: Federal Facilities

This site is also known under one or more aliases as follows:

USA 144TH ORDINANCE DETACHMENT
20755 MD
FORT MEADE

USA LUMBER STORAGE YARD
1ST STREET & FOX RD
FORT MEADE MD

USA BLDG T37 SUB STA 3
ROCK AVE
FORT MEADE MD

USA TRAINING AREA T38
SWITCHBOARD RD
FORT MEADE MD

USA BUILDING 6527
TAYLOR AVE

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

FORT MEADE MD

FORT GEORGE G. MEADE *

USA FORT GEORGE MEADE

FORT GEORGE G. MEADE

FORT MEADE

FORT MEADE, MD 20755

FORT GEORGE G. MEADE

MARYLAND ROUTE 175

ODENTON, MD 21113

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

MULTIMEDIA

Facility is listed in EPA's index system

DATABASE: Facility Index System (FINDS)

FORT GEORGE G. MEADE
MARYLAND ROUTE 175
ODENTON, MD 21113
EDR ID #1000114335

This site is listed in the Federal FINDS database. The FINDS database may contain references to records from government databases included elsewhere in the report. Please note: the FINDS database may also contain references to out of date records formerly associated with the site.

Registry ID: 110002069813

Facility Name: US DEPT OF ARMY FT MEADE
Facility Address: 2837 ERNIE PYLE STREET
FT MEADE, MD 20755 - 5025

Facility County: ANNE ARUNDEL

Facility EPA Region: 03

US Fed Gov Facility: Yes

Indian Tribal Land: Not reported

Alternative Facility Names:

FORT GEORGE G. MEADE
US DEPT OF ARMY
US DEPT OF ARMY FT MEADE
USA 144TH ORDINANCE DETACHMENT
USA BLDG T37 SUB STA 3
USA BUILDING 6527
USA FORT GEORGE MEADE
USA LUMBER STORAGE YARD
USA TRAINING AREA T38

EPA Records Indicate Facility Is Listed In:
Biennial Reporting System (BRS)
Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS)
Integrated Compliance Information System (ICIS)
National Compliance Database (NCDB)
Permit Compliance System (PCS)
Resource Conservation and Recovery Act Information system (RCRAINFO)

Facility SIC Codes:
3992
4971
9711

Facility NAICS Codes:
92811

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

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

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

WASTE MANAGEMENT

RCRIS: Resource Conservation and Recovery Information System

Source: EPA

Telephone: 800-424-9346

Resource Conservation and Recovery Information System. RCRIS includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs): generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs): generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs): generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 01/12/2004
Database Release Frequency: Varies

Date of Last EDR Contact: 01/19/2004
Date of Next Scheduled Update: 04/19/2004

BRS: Biennial Reporting System

Source: EPA/NTIS

Telephone: 800-424-9346

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

Date of Government Version: 12/01/2001
Database Release Frequency: Biennially

Date of Last EDR Contact: 12/16/2003
Date of Next Scheduled Update: 03/15/2004

RAATS: RCRA Administrative Action Tracking System

Source: EPA

Telephone: 202-564-4104

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
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 12/08/2003
Date of Next Scheduled Update: 03/08/2004

CORRACTS: Corrective Action Report

Source: EPA

Telephone: 800-424-9346

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/18/2003
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 12/08/2003
Date of Next Scheduled Update: 03/08/2004

PADS: PCB Activity Database System

Source: EPA

Telephone: 202-564-3887

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: 09/30/2003
Database Release Frequency: Annually

Date of Last EDR Contact: 11/12/2003
Date of Next Scheduled Update: 02/09/2004

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

...Continued...

MLTS: Material Licensing Tracking System

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169

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

Date of Government Version: 10/16/2003
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/06/2004
Date of Next Scheduled Update: 04/05/2004

MD AST: Permitted Aboveground Storage Tanks

Source: Department of The Environment
Telephone: 410-537-3000

Registered Aboveground Storage Tanks.

Date of Government Version: 11/14/2003
Database Release Frequency: Quarterly

Date of Last EDR Contact: 11/12/2003
Date of Next Scheduled Update: 02/09/2004

MD UST: Registered Underground Storage Tank List

Source: Department of the Environment
Telephone: 410-537-3433

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: 12/04/2003
Database Release Frequency: Varies

Date of Last EDR Contact: 11/12/2003
Date of Next Scheduled Update: 02/09/2004

ERNS: Emergency Response Notification System

Source: National Response Center, United States Coast Guard
Telephone: 202-260-2342

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

Date of Government Version: 12/31/2002
Database Release Frequency: Annually

Date of Last EDR Contact: 01/26/2004
Date of Next Scheduled Update: 04/26/2004

HMIRS: Hazardous Materials Information Reporting System

Source: U.S. Department of Transportation
Telephone: 202-366-4555

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

Date of Government Version: 12/18/2003
Database Release Frequency: Annually

Date of Last EDR Contact: 01/19/2004
Date of Next Scheduled Update: 04/19/2004

WASTE DISPOSAL

NPL: National Priority List

Source: EPA
Telephone: Not reported

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: 10/21/2003
Date Made Active at EDR: 12/08/2003
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 11/03/2003
Elapsed ASTM Days: 35
Date of Last EDR Contact: 11/03/2003

PROPOSED NPL: Proposed National Priority List Sites

Source: EPA
Telephone: Not reported

Date of Government Version: 10/14/2003
Date Made Active at EDR: 12/08/2003
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 12/01/2003
Elapsed ASTM Days: 7
Date of Last EDR Contact: 11/03/2003

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

...Continued...

DELISTED NPL: National Priority List Deletions

Source: EPA

Telephone: Not reported

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: 10/21/2003

Date Made Active at EDR: 12/08/2003

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 11/03/2003

Elapsed ASTM Days: 35

Date of Last EDR Contact: 11/03/2003

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

Source: EPA

Telephone: 703-413-0223

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: 11/17/2003

Date Made Active at EDR: 02/02/2004

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 12/22/2003

Elapsed ASTM Days: 42

Date of Last EDR Contact: 12/22/2003

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Source: EPA

Telephone: 703-413-0223

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

Date of Government Version: 11/17/2003

Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/22/2003

Date of Next Scheduled Update: 03/22/2004

NPL LIENS: Federal Superfund Liens

Source: EPA

Telephone: 202-564-4267

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

Date of Government Version: 10/15/1991

Date Made Active at EDR: 03/30/1994

Database Release Frequency: No Update Planned

Date of Data Arrival at EDR: 02/02/1994

Elapsed ASTM Days: 56

Date of Last EDR Contact: 11/21/2003

MD SHWS: Notice of Potential Hazardous Waste Sites

Source: Department of the Environment

Telephone: 410-537-3000

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 09/01/2003

Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 12/08/2003

Date of Next Scheduled Update: 03/08/2004

MD SWF/LF: Permitted Solid Waste Disposal Facilities

Source: Department of the Environment

Telephone: 410-537-3375

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 10/08/2003

Database Release Frequency: Annually

Date of Last EDR Contact: 01/19/2004

Date of Next Scheduled Update: 04/19/2004

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

...Continued...

MULTIMEDIA

TRIS: Toxic Chemical Release Inventory System

Source: EPA

Telephone: 202-566-0250

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: 12/31/2001
Database Release Frequency: Annually

Date of Last EDR Contact: 12/22/2003
Date of Next Scheduled Update: 03/22/2004

SSTS: Section 7 Tracking Systems

Source: EPA

Telephone: 202-564-5008

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: 12/31/2001
Database Release Frequency: Annually

Date of Last EDR Contact: 01/19/2004
Date of Next Scheduled Update: 04/19/2004

TSCA: Toxic Substances Control Act

Source: EPA

Telephone: 202-260-5521

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

Date of Government Version: 12/31/2002
Database Release Frequency: N/A

Date of Last EDR Contact: 12/08/2003
Date of Next Scheduled Update: 03/08/2004

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-564-2501

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/16/2003
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/22/2003
Date of Next Scheduled Update: 03/22/2004

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Source: EPA

Telephone: 202-564-2501

Date of Government Version: 10/16/2003
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/22/2003
Date of Next Scheduled Update: 03/22/2004

FINDS: Facility Index System/Facility Identification Initiative Program Summary Report

Source: EPA

Telephone: Not reported

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: 10/23/2003
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/06/2004
Date of Next Scheduled Update: 04/05/2004

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

...Continued...

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

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POTENTIAL SUPERFUND LIABILITY

PRP: Potentially Responsible Parties

Source: EPA

Telephone: 202-564-6064

A listing of verified Potentially Responsible Parties

Date of Government Version: 11/24/2003

Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/16/2003

Date of Next Scheduled Update: 04/05/2004

EPA Waste Codes Addendum

Code	Description
D001	IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
D002	A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
D006	CADMIUM
D007	CHROMIUM
D008	LEAD
D009	MERCURY
D011	SILVER
D016	2,4-D
D018	BENZENE
D026	CRESOL
F002	THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
U031	1-BUTANOL (I)N-BUTYL ALCOHOL (I)
U044	CHLOROFORMMETHANE, TRICHLORO-
U115	ETHYLENE OXIDE (I,T)OXIRANE (I,T)
U123	FORMIC ACID (C,T)
U188	PHENOL
U226	ETHANE, 1,1,1-TRICHLORO-METHYL CHLOROFORM
U248	2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYL-BUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS OF 0.3% OR LESSWARFARIN & SALTS, WHEN PRESENT AT CONCENTRATIONS OF 0.3% OR LESS



EDR Site Report™

**NATIONAL SECURITY AGENCY
9800 SAVAGE RD
FORT GEORGE G MEADE, MD 20755**

Inquiry Number:

February 12, 2004

***The Source
For Environmental
Risk Management
Data***

3530 Post Road
Southport, Connecticut 06890

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

TABLE OF CONTENTS

The EDR-Site Report™ is a comprehensive presentation of government filings on a facility identified in a search of over 4 million government records from more than 600 federal, state and local environmental databases. The report is divided into three sections:

Section 1: Facility Summary Page 3

Summary of facility filings including a review of the following areas: waste management, waste disposal, multi-media issues, and Superfund liability.

Section 2: Facility Detail Reports Page 4

All available detailed information from databases where sites are identified.

Section 3: Databases Searched and Update Information. Page 11

Name, source, update dates, contact phone number and description of each of the databases searched for this report.

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

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SECTION 1: FACILITY SUMMARY

FACILITY	FACILITY 1 NATIONAL SECURITY AGENCY 9800 SAVAGE RD FORT GEORGE G MEADE, MD 20755 EDR ID #1000259815 EPA #MD2970590004
AREA	
WASTE MANAGEMENT Facility generates hazardous waste (RCRIS)	YES - p4
Facility treats, stores, or disposes of hazardous waste on-site (RCRIS/TSDf)	NO
Facility has received Notices of Violations (RCRIS/VIOL)	NO
Facility has been subject to RCRA administrative actions (RAATS)	NO
Facility has been subject to corrective actions (CORRACTS)	NO
Facility handles PCBs (PADS)	YES - p6
Facility uses radioactive materials (MLTS)	NO
Facility manages registered aboveground storage tanks (AST)	NO
Facility manages registered underground storage tanks (UST)	NO
Facility has reported leaking underground storage tank incidents (LUST)	NO
Facility has reported emergency releases to the soil (ERNS)	NO
Facility has reported hazardous material incidents to DOT (HMIRS)	NO
WASTE DISPOSAL Facility is a Superfund Site (NPL)	NO
Facility has a known or suspect abandoned, inactive or uncontrolled hazardous waste site (CERCLIS)	NO
Facility has a reported Superfund Lien on it (LIENS)	NO
Facility is listed as a state hazardous waste site (SHWS)	NO
Facility has disposed of solid waste on-site (SWF/LF)	NO
MULTIMEDIA Facility uses toxic chemicals and has notified EPA under SARA Title III, Section 313 (TRIS)	NO
Facility produces pesticides and has notified EPA under Section 7 of FIFRA (SSTS)	NO
Facility manufactures or imports toxic chemicals on the TSCA list (TSCA)	NO
Facility has inspections under FIFRA, TSCA or EPCRA (FTTS)	NO
Facility is listed in EPA's index system (FINDS)	YES - p7
Facility is listed in a county/local unique database (LOCAL)	YES - p8
POTENTIAL SUPERFUND LIABILITY Facility has a list of potentially responsible parties PRP	NO
TOTAL (YES)	4

SECTION 2: FACILITY DETAIL REPORTS

WASTE MANAGEMENT

Facility generates hazardous waste

DATABASE: Resource Conservation and Recovery Information System (RCRIS)

NATIONAL SECURITY AGENCY
9800 SAVAGE RD
FORT GEORGE G MEADE, MD 20755
EDR ID #1000259815

Facility Name: NATIONAL SECURITY AGENCY
9800 SAVAGE RD
FORT GEORGE G MEADE, MD 20755

Mailing Address: DIRECTOR NSA ATTN L542
FORT GEORGE G MEADE, MD 20755

Contact: JOHN ROBINSON
(301) 688-6981

EPA-ID: MD2970590004

Classification: Large Quantity Generator

Description: Handler:
- generates 1,000 kg or more of hazardous waste during any calendar month; or
- generates more than 1 kg of acutely hazardous waste during any calendar month; or
- generates more than 100 kg 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; or
- generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; 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 more than 100 kg of that material at any time

Legal Status: Federal

Owner: DEPT OF DEFENSE
OWNER STREET
OWNERCITY, AK 21555 - 5121
(215) 555-1212

NY MANIFEST DATA

Document ID:	NYB1904535	Manifest Status:	K
Trans1 State ID:	8075	Trans2 State ID:	75231BNY
Generator Ship Date:	02/28/91	Trans1 Recv Date:	02/28/91
Trans2 Recv Date:	Not reported	TSD Site Recv Date:	03/18/91
Part A Recv Date:	03/13/91	Part B Recv Date:	03/28/91
Generator EPA ID:	MD2970590004	Trans1 EPA ID:	ILD099202681
Trans2 EPA ID:	Not reported	TSD ID:	NYD049836679
Facility Type:	GEN		
Facility Name :	UNITED STATES MILITARY		
Facility Address :	NATIONAL SECURITY AGENCY FT MEADE 9800 SAVAGE RD, MD 20755		
Country :	Not reported		
County :	Not reported	Code :	Not reported
Mailing Name :	UNITED STATES MILITARY		
Mailing Contact :	TOM LAGO		
Mailing Address :	NATL SEC AGENCY PO BOX 388 FT MEADE 9800 SAVAGE RD, MD 20755		
Mailing Country :	Not reported		

Waste Code	Quantity	Num of Containers	Container Type	Handling Method	Specific Gravity
D002	00055 Gallons	001	Metal drums, barrels	Treat	120

CT MANIFEST DATA

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Transporter 2 EPA # :	Not reported	Transporter 1 EPA # :	Not reported
Generator EPA # :	Not reported	Manifest Number :	DEP0007954
Manifest Document # :	Not reported	Page Number :	Not reported
Generator Name :	ID NOT IN TRANSPORTER FILE		
Generator Address :	Not reported		
Generator Zip Code :	Not reported	Generator Phone :	Not reported
State Generator Id :	Not reported	State Generator Zip :	Not reported
Transporter 1 :	ID NOT IN TRANSPORTER FILE		
State Transporter 1 Id :	Not reported		
Transporter 1 Phone :	Not reported	Transporter 2 :	WILLS TRUCKING INC
State Transporter 2 Id :	Not reported	Transporter 2 Phone :	9999999999
TSD Facility Name :	THERMALKEM, INC. (AN AMERICAN NUKEM CO.)		
TSD Facility Site :	RTE 5 - P.O. BOX 2664CRS, ROCK HILL, S.C.		
TSD Facility Zip Code :	29731	State Facility Id :	Not reported
State Facility Phone :	8033245310	Us Dot :	WASTE LTHIUM BATTERY
Hazard Class :	9	Unna :	3090
Container Number :	001	Container Type :	DF
Quantity :	71	Weight/volume :	pounds
Waste Number :	D003	Us Dot :	ENV. HAZARDOUS SUBSTANCE LIQUID NOS
Hazard Class :	9	Unna :	3082
Container Number :	003	Container Type :	DF
Quantity :	252	Weight/volume :	P
Waste Number :	D011	Us Dot :	ENVIRONMENTALLY HAZ. SUBSTANCES,SOLID
Hazard Class :	9	Unna :	3077
Container Number :	001	Container Type :	DF
Quantity :	4	Weight/volume :	P
Waste Number :	D009		
US DOT :	BATTERIES, DRY FILLED WITH POTASSIUM		
Hazard Class :	8	Container Number :	001
UNNA :	3028	Quantity :	377
Container Type :	DM	Waste Number :	D006
Weight/volume :	P	Additional B :	Not reported
Additional A :	Not reported	Additional D :	Not reported
Additional C :	Not reported	Handling Code :	Not reported
Handling Code :	Not reported	Handling Code :	Not reported
Special Handling :	Not reported	Generators Name :	CONT.
Transporter 1 Name :	Not reported	Transporter 2 Name :	Not reported
Discrepancy :	Yes	Facilty Owner :	Not reported
Copy Number :	.	Date Shipped :	02/28/96
Date Received :	03/30/96	Transporter 1 Date :	02/28/96
Transporter 2 Date :	02/28/96	Copy 1 :	Not reported
Copy 2 :	X	Copy 6 :	Not reported
Copy 7 :	Not reported	Desc Man :	Not reported

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

WASTE MANAGEMENT

Facility handles PCBs

DATABASE: PCB Activity Database System (PADS)

NATIONAL SECURITY AGENCY
9800 SAVAGE RD
FORT GEORGE G MEADE, MD 20755
EDR ID #1000259815

EPA Id:	MD2970590004	Generator:	Yes
Region:	3.00000	Transporter:	No
Store:	No	Federal Facility:	No
Disposal:	No		
Form Id:	No	Alternate EPA ID:	MD5214020567
Research:	Not reported	Smelter:	Not reported
Sign:	6/8/1990	Form Code:	2
Date Signed:	4/30/1992	Report Date:	Not reported
Report Time:	Not reported	Printed:	True
Reprint:	False	Date Mailed:	7/13/1990
Date Confirmed:	Not reported	Report Date:	7/13/1990
Date Mailed:	7/13/1990	PADS Comments:	Not reported
Facility Owner Name:	US DOD		
Contact Name:	GRIMES JACKIE		
Mailing Address:	9800 SAVAGE RD MD, FT MEADE 20755		
Contact Phone:	(301)859-4643	Extension:	Not reported
Address Canadian:	False		

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

MULTIMEDIA

Facility is listed in EPA's index system

DATABASE: Facility Index System (FINDS)

NATIONAL SECURITY AGENCY
9800 SAVAGE RD
FORT GEORGE G MEADE, MD 20755
EDR ID #1000259815

This site is listed in the Federal FINDS database. The FINDS database may contain references to records from government databases included elsewhere in the report. Please note: the FINDS database may also contain references to out of date records formerly associated with the site.

Registry ID: 110000796112

Facility Name: NATIONAL SECURITY AGENCY

Facility Address: 9800 SAVAGE RD
FORT MEADE, MD 20755 - 6629

Facility County: ANNE ARUNDEL

Facility EPA Region: 03

US Fed Gov Facility: Yes

Indian Tribal Land: Not reported

Alternative Facility Names:
NATIONAL SECURITY AGENCY

EPA Records Indicate Facility Is Listed In:
AIRS/AIRS Facility Subsystem (AIRS/AFS)
Biennial Reporting System (BRS)
Integrated Compliance Information System (ICIS)
Maryland Environmental Permit Service Center (MD-EPSC)
National Compliance Database (NCDB)
National Emissions Inventory (NEI)
National Emissions Trends (NET)
National Toxics Inventory (NTI)
Resource Conservation and Recovery Act Information system (RCRAINFO)
Toxic Chemical Release Inventory System (TRIS)

Facility SIC Codes:
3672
8999
9711

Facility NAICS Codes:
928110

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

MULTIMEDIA

Facility is listed in a county/local unique database

DATABASE: State/County (LOCAL)

NATIONAL SECURITY AGENCY
9800 SAVAGE RD
FORT GEORGE G MEADE, MD 20755
EDR ID #1000259815

Database: MD Historical UST

UST HISTORICAL:

ENVID:	1000259815	Tank ID:	001
Facility ID:	3000748	Capacity:	20000
Age:	7	Product:	Diesel
Tank Status:	Currently in use		
Product:	Diesel		
ENVID:	1000259815	Tank ID:	01A
Facility ID:	3000748	Capacity:	25000
Age:	42	Product:	Diesel
Tank Status:	Permanently out of use		
Product:	Diesel		
ENVID:	1000259815	Tank ID:	01B
Facility ID:	3000748	Capacity:	500
Age:	42	Product:	Diesel
Tank Status:	Permanently out of use		
Product:	Diesel		
ENVID:	1000259815	Tank ID:	002
Facility ID:	3000748	Capacity:	20000
Age:	7	Product:	Diesel
Tank Status:	Currently in use		
Product:	Diesel		
ENVID:	1000259815	Tank ID:	02A
Facility ID:	3000748	Capacity:	25000
Age:	42	Product:	Diesel
Tank Status:	Permanently out of use		
Product:	Diesel		
ENVID:	1000259815	Tank ID:	02B
Facility ID:	3000748	Capacity:	500
Age:	42	Product:	Diesel
Tank Status:	Permanently out of use		
Product:	Diesel		
ENVID:	1000259815	Tank ID:	003
Facility ID:	3000748	Capacity:	20000
Age:	7	Product:	Diesel
Tank Status:	Currently in use		
Product:	Diesel		
ENVID:	1000259815	Tank ID:	03A
Facility ID:	3000748	Capacity:	25000
Age:	42	Product:	Diesel
Tank Status:	Permanently out of use		
Product:	Diesel		
ENVID:	1000259815	Tank ID:	03B
Facility ID:	3000748	Capacity:	500
Age:	42	Product:	Diesel
Tank Status:	Permanently out of use		
Product:	Diesel		
ENVID:	1000259815	Tank ID:	004
Facility ID:	3000748	Capacity:	5000
Age:	27	Product:	Diesel
Tank Status:	Currently in use		
Product:	Diesel		
ENVID:	1000259815	Tank ID:	005
Facility ID:	3000748	Capacity:	5000
Age:	27	Product:	Gasoline
Tank Status:	Currently in use		
Product:	Gasoline		
ENVID:	1000259815		

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Facility ID:	3000748	Tank ID:	006
Age:	7	Capacity:	550
Tank Status:	Temporarily out of use	Product:	Empty
Product:	Empty		
ENVID:	1000259815		
Facility ID:	3000748	Tank ID:	06A
Age:	22	Capacity:	550
Tank Status:	Permanently out of use	Product:	Diesel
Product:	Diesel		
ENVID:	1000259815		
Facility ID:	3000748	Tank ID:	007
Age:	8	Capacity:	3000
Tank Status:	Currently in use	Product:	Diesel
Product:	Diesel		
ENVID:	1000259815		
Facility ID:	3000748	Tank ID:	008
Age:	9	Capacity:	12000
Tank Status:	Currently in use	Product:	Diesel
Product:	Diesel		
ENVID:	1000259815		
Facility ID:	3000748	Tank ID:	009
Age:	9	Capacity:	19000
Tank Status:	Temporarily out of use	Product:	Diesel
Product:	Diesel		
ENVID:	1000259815		
Facility ID:	3000748	Tank ID:	010
Age:	9	Capacity:	19000
Tank Status:	Temporarily out of use	Product:	Diesel
Product:	Diesel		
ENVID:	1000259815		
Facility ID:	3000748	Tank ID:	011
Age:	9	Capacity:	1000
Tank Status:	Temporarily out of use	Product:	Other
Product:	Other		
ENVID:	1000259815		
Facility ID:	3000748	Tank ID:	012
Age:	9	Capacity:	600
Tank Status:	Temporarily out of use	Product:	Other
Product:	Other		
ENVID:	1000259815		
Facility ID:	3000748	Tank ID:	13A
Age:	22	Capacity:	6000
Tank Status:	Currently in use	Product:	Diesel
Product:	Diesel		
ENVID:	1000259815		
Facility ID:	3000748	Tank ID:	014
Age:	12	Capacity:	48000
Tank Status:	Temporarily out of use	Product:	Diesel
Product:	Diesel		
ENVID:	1000259815		
Facility ID:	3000748	Tank ID:	015
Age:	52	Capacity:	48000
Tank Status:	Temporarily out of use	Product:	Diesel
Product:	Diesel		
ENVID:	1000259815		
Facility ID:	3000748	Tank ID:	016
Age:	12	Capacity:	48000
Tank Status:	Temporarily out of use	Product:	Diesel
Product:	Diesel		
ENVID:	1000259815		
Facility ID:	3000748	Tank ID:	017
Age:	12	Capacity:	48000
Tank Status:	Temporarily out of use	Product:	Diesel
Product:	Diesel		
ENVID:	1000259815		
Facility ID:	3000748	Tank ID:	018
Age:	12	Capacity:	48000
Tank Status:	Temporarily out of use	Product:	Diesel
Product:	Diesel		
ENVID:	1000259815		
Facility ID:	3000748	Tank ID:	019

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Age:	12	Capacity:	48000
Tank Status:	Currently in use	Product:	Diesel
Product:	Diesel		
ENVID:	1000259815	Tank ID:	20A
Facility ID:	3000748	Capacity:	550
Age:	27	Product:	Diesel
Tank Status:	Permanently out of use		
Product:	Diesel		
ENVID:	1000259815	Tank ID:	21A
Facility ID:	3000748	Capacity:	20000
Age:	42	Product:	Diesel
Tank Status:	Permanently out of use		
Product:	Diesel		
ENVID:	1000259815	Tank ID:	21B
Facility ID:	3000748	Capacity:	1000
Age:	27	Product:	Diesel
Tank Status:	Permanently out of use		
Product:	Diesel		
ENVID:	1000259815	Tank ID:	21C
Facility ID:	3000748	Capacity:	1000
Age:	27	Product:	Gasoline
Tank Status:	Permanently out of use		
Product:	Gasoline		
ENVID:	1000259815	Tank ID:	031
Facility ID:	3000748	Capacity:	550
Age:	27	Product:	Gasoline
Tank Status:	Permanently out of use		
Product:	Gasoline		
ENVID:	1000259815	Tank ID:	032
Facility ID:	3000748	Capacity:	4000
Age:	8	Product:	Diesel
Tank Status:	Currently in use		
Product:	Diesel		
ENVID:	1000259815	Tank ID:	033
Facility ID:	3000748	Capacity:	3000
Age:	10	Product:	Diesel
Tank Status:	Currently in use		
Product:	Diesel		
ENVID:	1000259815	Tank ID:	MOS
Facility ID:	3000748	Capacity:	550
Age:	7	Product:	Kerosene
Tank Status:	Currently in use		
Product:	Kerosene		

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

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

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

WASTE MANAGEMENT

RCRIS: Resource Conservation and Recovery Information System

Source: EPA

Telephone: 800-424-9346

Resource Conservation and Recovery Information System. RCRIS includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs): generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs): generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs): generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 01/12/2004
Database Release Frequency: Varies

Date of Last EDR Contact: 01/19/2004
Date of Next Scheduled Update: 04/19/2004

BRS: Biennial Reporting System

Source: EPA/NTIS

Telephone: 800-424-9346

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

Date of Government Version: 12/01/2001
Database Release Frequency: Biennially

Date of Last EDR Contact: 12/16/2003
Date of Next Scheduled Update: 03/15/2004

RAATS: RCRA Administrative Action Tracking System

Source: EPA

Telephone: 202-564-4104

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
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 12/08/2003
Date of Next Scheduled Update: 03/08/2004

CORRACTS: Corrective Action Report

Source: EPA

Telephone: 800-424-9346

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/18/2003
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 12/08/2003
Date of Next Scheduled Update: 03/08/2004

PADS: PCB Activity Database System

Source: EPA

Telephone: 202-564-3887

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: 09/30/2003
Database Release Frequency: Annually

Date of Last EDR Contact: 11/12/2003
Date of Next Scheduled Update: 02/09/2004

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

...Continued...

MLTS: Material Licensing Tracking System

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169

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

Date of Government Version: 10/16/2003
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/06/2004
Date of Next Scheduled Update: 04/05/2004

MD AST: Permitted Aboveground Storage Tanks

Source: Department of The Environment
Telephone: 410-537-3000

Registered Aboveground Storage Tanks.

Date of Government Version: 11/14/2003
Database Release Frequency: Quarterly

Date of Last EDR Contact: 11/12/2003
Date of Next Scheduled Update: 02/09/2004

MD UST: Registered Underground Storage Tank List

Source: Department of the Environment
Telephone: 410-537-3433

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: 12/04/2003
Database Release Frequency: Varies

Date of Last EDR Contact: 11/12/2003
Date of Next Scheduled Update: 02/09/2004

ERNS: Emergency Response Notification System

Source: National Response Center, United States Coast Guard
Telephone: 202-260-2342

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

Date of Government Version: 12/31/2002
Database Release Frequency: Annually

Date of Last EDR Contact: 01/26/2004
Date of Next Scheduled Update: 04/26/2004

HMIRS: Hazardous Materials Information Reporting System

Source: U.S. Department of Transportation
Telephone: 202-366-4555

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

Date of Government Version: 12/18/2003
Database Release Frequency: Annually

Date of Last EDR Contact: 01/19/2004
Date of Next Scheduled Update: 04/19/2004

WASTE DISPOSAL

NPL: National Priority List

Source: EPA
Telephone: Not reported

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: 10/21/2003
Date Made Active at EDR: 12/08/2003
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 11/03/2003
Elapsed ASTM Days: 35
Date of Last EDR Contact: 11/03/2003

PROPOSED NPL: Proposed National Priority List Sites

Source: EPA
Telephone: Not reported

Date of Government Version: 10/14/2003
Date Made Active at EDR: 12/08/2003
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 12/01/2003
Elapsed ASTM Days: 7
Date of Last EDR Contact: 11/03/2003

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

...Continued...

DELISTED NPL: National Priority List Deletions

Source: EPA

Telephone: Not reported

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: 10/21/2003

Date Made Active at EDR: 12/08/2003

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 11/03/2003

Elapsed ASTM Days: 35

Date of Last EDR Contact: 11/03/2003

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

Source: EPA

Telephone: 703-413-0223

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: 11/17/2003

Date Made Active at EDR: 02/02/2004

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 12/22/2003

Elapsed ASTM Days: 42

Date of Last EDR Contact: 12/22/2003

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Source: EPA

Telephone: 703-413-0223

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

Date of Government Version: 11/17/2003

Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/22/2003

Date of Next Scheduled Update: 03/22/2004

NPL LIENS: Federal Superfund Liens

Source: EPA

Telephone: 202-564-4267

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

Date of Government Version: 10/15/1991

Date Made Active at EDR: 03/30/1994

Database Release Frequency: No Update Planned

Date of Data Arrival at EDR: 02/02/1994

Elapsed ASTM Days: 56

Date of Last EDR Contact: 11/21/2003

MD SHWS: Notice of Potential Hazardous Waste Sites

Source: Department of the Environment

Telephone: 410-537-3000

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 09/01/2003

Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 12/08/2003

Date of Next Scheduled Update: 03/08/2004

MD SWF/LF: Permitted Solid Waste Disposal Facilities

Source: Department of the Environment

Telephone: 410-537-3375

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 10/08/2003

Database Release Frequency: Annually

Date of Last EDR Contact: 01/19/2004

Date of Next Scheduled Update: 04/19/2004

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

...Continued...

MULTIMEDIA

TRIS: Toxic Chemical Release Inventory System

Source: EPA

Telephone: 202-566-0250

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: 12/31/2001
Database Release Frequency: Annually

Date of Last EDR Contact: 12/22/2003
Date of Next Scheduled Update: 03/22/2004

SSTS: Section 7 Tracking Systems

Source: EPA

Telephone: 202-564-5008

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: 12/31/2001
Database Release Frequency: Annually

Date of Last EDR Contact: 01/19/2004
Date of Next Scheduled Update: 04/19/2004

TSCA: Toxic Substances Control Act

Source: EPA

Telephone: 202-260-5521

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

Date of Government Version: 12/31/2002
Database Release Frequency: N/A

Date of Last EDR Contact: 12/08/2003
Date of Next Scheduled Update: 03/08/2004

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-564-2501

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/16/2003
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/22/2003
Date of Next Scheduled Update: 03/22/2004

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Source: EPA

Telephone: 202-564-2501

Date of Government Version: 10/16/2003
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/22/2003
Date of Next Scheduled Update: 03/22/2004

FINDS: Facility Index System/Facility Identification Initiative Program Summary Report

Source: EPA

Telephone: Not reported

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: 10/23/2003
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/06/2004
Date of Next Scheduled Update: 04/05/2004

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

...Continued...

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

Disclaimer Provided by Real Property Scan, Inc.

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

POTENTIAL SUPERFUND LIABILITY

PRP: Potentially Responsible Parties

Source: EPA

Telephone: 202-564-6064

A listing of verified Potentially Responsible Parties

Date of Government Version: 11/24/2003

Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/16/2003

Date of Next Scheduled Update: 04/05/2004

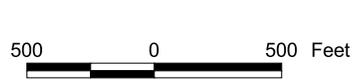
EPA Waste Codes Addendum

Code	Description
D002	A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

APPENDIX C: AERIAL PHOTOGRAPHS



1938 AERIAL PHOTOGRAPH
FT. MEADE GOLF COURSE



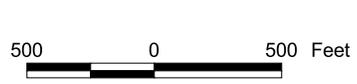


1943 AERIAL PHOTOGRAPH
FT. MEADE GOLF COURSE





1947 AERIAL PHOTOGRAPH
FT. MEADE GOLF COURSE



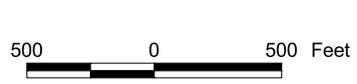


1952 AERIAL PHOTOGRAPH
FT. MEADE GOLF COURSE





1963 AERIAL PHOTOGRAPH
FT. MEADE GOLF COURSE



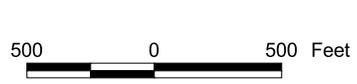


1970 AERIAL PHOTOGRAPH
FT. MEADE GOLF COURSE





1977 AERIAL PHOTOGRAPH
FT. MEADE GOLF COURSE



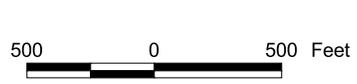


1988 AERIAL PHOTOGRAPH
FT. MEADE GOLF COURSE





1996 AERIAL PHOTOGRAPH
FT. MEADE GOLF COURSE

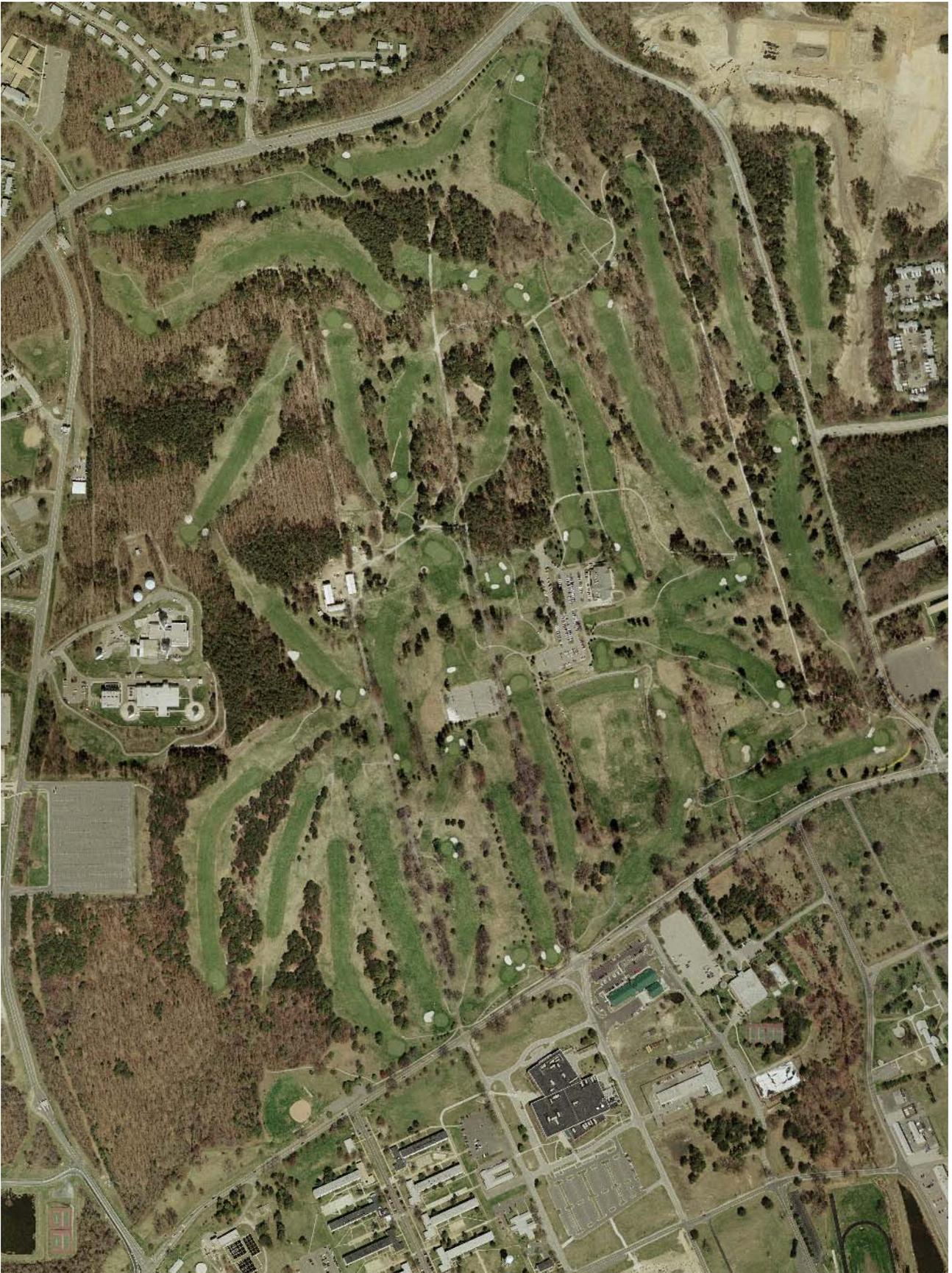




2000 AERIAL PHOTOGRAPH
FT. MEADE GOLF COURSE

500 0 500 Feet





2003 AERIAL PHOTOGRAPH
FT. MEADE GOLF COURSE

500 0 500 Feet



APPENDIX D: ENVIRONMENTAL TITLE HISTORY REPORT

130

Ex

TITLE GUARANTEE AND TRUST COMPANY

DEED

FROM

SUMMERFIELD C. DISNEY

AND WIFE

TO

UNITED STATES OF AMERICA

Received for Record 7 5 June 1914

at o'clock M. Same day recorded

in Liber. P. M. No. 16 Folio 57

etc., one of the Land Records of Anne

Arundel County, and examined per

W. W. Woodward, Clerk.

Cost of Record, \$ 2.75

No. 2-5 28 19-1000

Application No. 41576

Written by 3

Approved by C. H. H. Examiner.

Ready for Record C. H. H.

No. 6 22-1

98

100



This Deed, Made this 21st day of June
in the year one thousand nine hundred and nineteen, by and between SUMMERFIELD C. DISNEY
and M. ESTELLE DISNEY, his wife, of Anne Arundel County, State of
Maryland,

parties of the first part, and the UNITED STATES OF AMERICA, party of the second part.

Witnesseth, that in consideration of the sum of *Twenty seven thousand*
two hundred and fifty + 20/100 - Dollars, the receipt of which is hereby acknowl-
edged, the said parties of the first part doth hereby grant and convey unto the said party of the
second part, its successors and assigns, in fee-simple, all that parcel of ground situate in the Fourth
Election District of Anne Arundel County, in the State of Maryland, and described as follows, that
is to say:

BEGINNING for the first thereof at a stone marked with a
letter N, being the most northerly point of the 13 acre tract of land
that was conveyed to William Y. Wheeler, by Frank H. Stockett, trustee,
N.H.G. 8-275 ; and running thence along the outline thereof, south
six degrees east twenty-six perches to a stone ; thence south eighty
and one-half degrees east twenty-two and one-quarter perches to a
chestnut tree, now dead ; thence south one degree fifty minutes east
sixty-eight and one-fifth perches to a stone ; thence north fifty de-
grees west sixteen and one-half perches to a stone now planted ; thence
leaving said outline and running south fifteen degrees east fourteen
perches, more or less, to ~~the end of~~ the 3rd. line of the lot of
ground conveyed by Tyson and Anderson ; thence bounding on the 4th.
line of said Andersons land and on the 2nd. line of the 100 acre tract
of Wheeler's land, south thirteen degrees west one hundred and forty
perches to the end of the said line of said tract ; thence bounding
on the 3rd. line of said 100 acre tract, north forty-two and one-half
degrees west one hundred and fifty perches, more or less, to a stone
heretofore planted in the end of the 3rd. line ; thence in the given
line as heretofore bounded north eighteen and one-half degrees east
one hundred and twenty-eight perches to a stone now planted ; thence
north forty-five degrees west forty-five perches to a stone now set
to mark the end of ~~the end of~~ the south fifty-seven degrees west one
hundred and six perches line of said forty-six acre tract reversing
said line with a correction for variation, north sixty-two degrees
east sixty-two and one-half perches to the end of the 1st. line of
a lot of ground conveyed by Wheeler to Samuel Watts ; thence bounding
north the 2nd. 3rd. 4th. 5th. and 6th. lines thereof and in the centre
of the county road as follows : South forty-three and three-quarter de-
grees east twelve perches, south fifty-six and three-quarter degrees
east twelve perches ; thence south seventy-four and three-quarter de-
grees east twenty-seven and two-fifths perches ; thence south eighty

Together with the buildings and improvements thereupon; and the rights, alleys, ways, waters, privileges, appurtenances and advantages to the same belonging or in anywise appertaining.

To have and to hold the said lot s of ground and premises, unto and to the use of the said UNITED STATES OF AMERICA, its successors and assigns, in fee-simple.

And the said parties of the first part covenant that they will warrant specially the property hereby granted and conveyed, and that they will execute such further assurances of said land as may be requisite.

Witness the hands and seals of the said grantors.

WITNESS:

Milton Brandt

Summerfield C. Disney 

M. Estelle Disney 

State of Maryland, Baltimore City, to wit:

I HEREBY CERTIFY, that on this

21st

day of June,

in the year one thousand nine hundred and **nineteen** before me, the subscriber, a notary public of

the State of Maryland, in and for Baltimore City aforesaid, personally appeared **SUMMERFIELD C. DISNEY and M. ESTELLE DISNEY, his wife, the grantors hereinbefore named, and severally acknowledged the foregoing deed to be their respective act.**

IN TESTIMONY WHEREOF, I hereunto set my hand and affix my notarial seal.

NOTARY'S SEAL
HERE

Milton Brandt
Notary Public.

35

ANNE ARUNDEL COUNTY 6

TITLE GUARANTEE AND TRUST COMPANY

No. 2-5 28 19-1000

DEED

FROM

JOHN HENRY WRIGHT
HELEN WRIGHT

his wife

TO

UNITED STATES OF AMERICA.

Received for Record 14 Apr 1914
at 9 o'clock A M. Same day recorded
in Liber WM No 33 Folio 325
etc., one of the Land Records of Anne
Arundel County, and examined per

Wm A Woodward Clerk.

Cost of Record, \$ 3.75

Application No.
Written by
Approved by Examiner.
Ready for Record

for 288-4

ALL

28

privileges, appurtenances and advantages to the same belonging or in anywise appertaining.

TITLE GUARANTEE FEE.

This Deed, Made this 21st day of February in the year one thousand nine hundred and nineteen by and between JOHN HENRY WRIGHT and HELEN WRIGHT, his wife, of BALTIMORE CITY, STATE of MARYLAND,

part ies of the first part, and the UNITED STATES OF AMERICA, party of the second part.

Witnesseth, that in consideration of the sum of Twelve hundred seventy three and 44/100 Dollars, the receipt of which is hereby acknowledged, the said part ies of the first part doth hereby grant and convey unto the said party of the second part, its successors and assigns, in fee-simple, all that parcel of ground situate in the Fourth Election District of Anne Arundel County, in the State of Maryland, and described as follows, that

is to say: Blocks NOS. 101-37-74-58-104 in the Southeast Subdivision of Portland Park, as shown upon a plat thereof duly filed among the Land Records of Anne Arundel County; each of said blocks containing 32 lots. ALSO lots 2 to 32 inclusive in block 23^{SE} on said plat; also lots 1 to 31 inclusive in block 52^{SE} on said plat; also lots 1-3-5-7-9-11-13-15-17-19-21-23-25-27-28-29-30-31-32 in block 75^{SE} on said plat. BEING same property which, by deed dated January 18, 1908, and recorded among the Land Records of said County in Liber G.W.NO.57 folio 437, etc., was granted and conveyed by Daniel R. Randall, attorney in fact to J. Henry Wright in fee simple. BEING the same lots which are designated on a plat thereof filed herewith as part hereof. ALSO lots 10-12-14-16-18-20-22-24 in block 182 on the plat of Bertson Park which is duly filed among the Land Records of said County. BEING the same property which, by deed dated September 23, 1908, and recorded among said Land Records in Liber G.W. 63 folio 405 was granted and conveyed by Anton J. Albert to the said J. Henry Wright, in fee simple. ALSO lots 4-6-8-10-12-14-16-18-20-22-24-26-28-30 and 32 in block 199 on the said plat of Bertson Park. BEING same property which, by deed dated June 29, 1908, and recorded among the aforesaid Land Records in Liber G.W.NO.61 folio 30 was granted and conveyed by Anton J. Albert to Helen Wright, in fee simple. BEING also same lots which are designated on a plat thereof filed herewith as part hereof. ALSO all that tract of land situate, lying and being in said County, containing 7 acres, more or less, and being the same land which is fully and particularly described in a deed from Anton J. Albert and wife to the said parties of the first part dated May 31, 1910, and recorded among said Records in Liber G.W.NO.75-231, reference to which deed is intended to have the same effect as if the description therein contained was herein again fully set forth. BEING same property shown on a plat thereof filed herewith as part hereof. ALSO all that lot or parcel of land in said County containing 2-9/16 acres, more or less, which is contained by F. Edwin Baukhages, Jr. to Helen Wright, by deed dated June 27, 1908, and recorded in G.W. 61-7, reference to which deed is intended to have the same effect as if the description therein contained was herein fully set forth and incorporated. BEING also the same property which is shown on a plat thereof filed herewith as part hereof.

... second part.

This deed, Made this 24th day of February, 1927, by and between JOHN HENRY WRIGHT and HELEN WRIGHT, his wife, of BALTIMORE CITY, STATE of MARYLAND,



privileges, appurtenances and advantages to the same belonging or in anywise appertaining.

To have and to hold the said lot s of ground and premises, unto and to the use of the said UNITED STATES OF AMERICA, its successors and assigns, in fee-simple.

And the said parties of the first part covenant that they will warrant specially the property hereby granted and conveyed, and that they will execute such further assurances of said land as may be requisite.

Witness the hands and seals of the said grantors.

WITNESS:

Milton Brade

John Henry Wright } SEAL

Helen Wright } SEAL

State of Maryland, Baltimore City, to wit:

I HEREBY CERTIFY, that on this 24th day of February in the year one thousand nine hundred and twenty before me, the subscriber, a notary public of the State of Maryland, in and for Baltimore City aforesaid, personally appeared

John Henry Wright and Helen Wright, his wife, the grantors and acknowledged the foregoing deed to be their respective act

IN TESTIMONY WHEREOF, I hereunto set my hand and affix my notarial seal.

NOTARY'S SEAL HERE

Milton Brade - Notary Public.

ANNE ARUNDEL COUNTY 9
EX.

TITLE GUARANTEE AND TRUST COMPANY

No. 2-5-28 19-1000

DEED

FROM

STEPHEN HEBRON

TO

UNITED STATES OF AMERICA.

Received for Record 20 Aug 1919

at o'clock M. Same day recorded
in Liber WAV No. 16 Folio 221
etc., one of the Land Records of Anne
Arundel County, and examined per

Wm. H. Woodward Clerk.

Cost of Record, \$ 3.00

Application No.

Written by.....

Approved by.....*Examiner.*

Ready for Record.....

47

243



This Deed, Made this 5th day of August ~~JULY~~
 in the year one thousand nine hundred and nineteen, by and between STEPHEN HEBRON,
 widower, of *Baltimore City*, STATE of *Maryland*

part *Y* of the first part, and the UNITED STATES OF AMERICA, party of the second part.

Witnesseth, that in consideration of the sum of

Eight-hundred and no

00
 Dollars, the receipt of which is hereby acknowledged, the said part *Y* of the first part doth hereby grant and convey unto the said party of the second part, its successors and assigns, in fee-simple, all ~~that~~ **those two** parcel of ground situate in the Fourth Election District of Anne Arundel County, in the State of Maryland, and described as follows, that is to say:

BEGINNING for the first thereof in an old private road and at the northeast corner of a two acre lot conveyed by John G. Downs and wife to Stephen Hebron, by deed dated February 20, 1884, and recorded among the Land Records of Anne Arundel County in Liber S H 23 folio 194 and running from thence and binding on or near the middle of said road the several following courses and distances to wit: north twenty-four and one-half degrees east ten perches, north twenty-eight degrees east nine perches, north eight and one-half degrees east nine and two-fifth perches, north five and one-half degrees west sixteen perches, north sixteen degrees east sixteen perches, north twenty degrees east thirteen perches, north eight degrees east twenty perches, north nine and one-half degrees west three and five-eighth perches to intersect the one hundred and ninety-second ~~line~~ perch line of said John G. Downs' land; thence binding on said line south twenty-six and three-quarter degrees west ninety-nine perches, more or less, to the northwest corner of the two acre lot as aforesaid conveyed by John G. Downs and wife to Stephen Hebron; thence running with and binding on the second line of said conveyance south eighty degrees east twenty-five and two-third perches to the place of beginning. Containing eight and three-quarter acres of land, more or less.

BEING the same tract of land which, by deed dated September 3 1896, and recorded among the Land Records of Anne Arundel County in Liber ~~GW~~ NO. 3 folio 428 was granted and conveyed by John G. Downs and wife to the said party of the first part in fee simple.

BEING also the same tract which is designated on a plat thereof filed herewith as part hereof.

BEGINNING for the second in the road from the land of John G. Downs to Annapolis Junction and on and in one of the lines of the tract of land conveyed by John Brewer trustee to Archibald Mason January 25 1814 eleven and one-third perches north twenty-five degrees east from the last boundary of said land; and running reversed to said line north twenty-five degrees east twelve perches; thence leaving said line and running south eighty degrees east twenty-five and two-third perches to a road, thence binding on said road south twenty seven degrees thirty minutes west twelve and eight-tenth perches to the first mentioned road thence binding on said road north eighty-three degrees fifteen minutes

west sixteen perches north seventy degrees twenty minutes west nine and one-eighth perches to the place of beginning. Containing two acres of land, more or less.

BEING the same tract of land which, by deed dated February 20 1884, and recorded among the aforesaid Land Records in Liber S H 23 folio 194 was granted and conveyed by John G. Downs and wife to the said party of the first part, in fee simple.

BEING also the same tract of land designated on a plat thereof filed herewith as part hereof.

Together with the buildings and improvements thereupon; and the rights, alleys, ways, waters, privileges, appurtenances and advantages to the same belonging or in anywise appertaining.

To have and to hold the said lots of ground and premises, unto and to the use of the said UNITED STATES OF AMERICA, its successors and assigns, in fee-simple.

And the said party of the first part covenant that he will warrant specially the property hereby granted and conveyed, and that he will execute such further assurances of said land as may be requisite.

Witness the hand and seal of the said grantor

WITNESS:

Wilton Pruders
John B. Bly
Balt. City
Home M. Phipps

Stephen Hebron

SEAL

SEAL

State of Maryland, Baltimore City, to wit:

I HEREBY CERTIFY, that on this

19

day of *August* ~~July~~

in the year one thousand nine hundred and **nineteen** before me, the subscriber, a notary public of

the State of Maryland, in and for Baltimore City aforesaid, personally appeared **STEPHEN HEBRON,** the grantor hereinbefore named, and acknowledged the foregoing deed to be his act.

IN TESTIMONY WHEREOF, I hereunto set my hand and affix my notarial seal.

NOTARY'S SEAL
HERE

Wilton Pruders

Notary Public.
H

111
of
194
1884
land
one-
west

186

ANNE ARUNDEL COUNTY

58

TITLE GUARANTEE AND TRUST COMPANY

Ex

DEED

FROM

JOHN F. CLAUTICE
ELLA J. CLAUTICE
his wife

TO

UNITED STATES OF AMERICA.

Received for Record 20 Aug 1919

at o'clock M. Same day recorded

in Liber 27 No. 16 Folio 323

etc., one of the Land Records of Anne

Arundel County, and examined per

Wm Woodward Clerk.

Cost of Record, \$ 2.25

No. 2-5 28 19-1000

Application No.

Written by G.A.R.

Approved by Examiner.

Ready for Record

18

Together with the buildings and improvements thereupon; and the rights, alleys, ways, waters, privileges, appurtenances and advantages to the same belonging or in anywise appertaining.

To have and to hold the said lot of ground and premises, unto and to the use of the said UNITED STATES OF AMERICA, its successors and assigns, in fee-simple.

And the said parties of the first part covenant that they will warrant specially the property hereby granted and conveyed, and that they will execute such further assurances of said land as may be requisite.

Witness the hands and seals of the said grantors.

WITNESS:

Milton Braudi

John F. Clautice } SEAL

Ella J. Clautice } SEAL

State of Maryland, Baltimore City, to wit:

I HEREBY CERTIFY, that on this 22nd day of July in the year one thousand nine hundred and nineteen before me, the subscriber, a notary public of the State of Maryland, in and for Baltimore City aforesaid, personally appeared JOHN F. CLAUTICE and ELLA J. CLAUTICE, his wife, the grantors hereinbefore named, and severally acknowledged the foregoing deed to be their respective act.

IN TESTIMONY WHEREOF, I hereunto set my hand and affix my notarial seal,

NOTARY'S SEAL
HERE

Milton Braudi
Notary Public.

135

ANNE ARUNDEL COUNTY

63

TITLE GUARANTEE AND TRUST COMPANY

No. 2-5-28 19-1000

Application No. 41576

DEED

Written by G.A.R.

FROM

Approved by *C.A.H.* Examiner.

FRANKLIN H. BURKE

Ready for Record *C.A.H.*

TO

UNITED STATES OF AMERICA.

Received for Record *July* 191*9*

at o'clock M. Same day recorded

in Liber *26* No. *16* Folio *151*

etc., one of the Land Records of Anne

Arundel County, and examined per

Wm W. Woodard Clerk.

Cost of Record, \$ *2.75*

deed 4/1/19

27



This Deed, Made this 18th day of July
in the year one thousand nine hundred and nineteen, by and between FRANKLIN H. BURKE,
unmarried, of BALTIMORE CITY, STATE of MARYLAND,

part y of the first part, and the UNITED STATES OF AMERICA, party of the second part.

Witnesseth, that in consideration of the sum of Three hundred and seventy
five Dollars, the receipt of which is hereby acknowl-
edged, the said party of the first part doth hereby grant and convey unto the said party of the
second part, its successors and assigns, in fee-simple, all that parcel of ground situate in the Fourth
Election District of Anne Arundel County, in the State of Maryland, and described as follows, that
is to say:

BEGINNING for the same at a stone set on the southwest side of
the road from Annapolis Junction to Odenton and in the last line of
lot #1 of the property of the estate of Alexander Randall, and at the
fifth line of lot #1; and running on said fifth line reversed south
fifty-five and one-half degrees west forty-five and one-quarter perches
to a stone set at the end thereof; thence binding on a by road north
three degrees west forty-six perches, north fifteen degrees west twenty
and one-quarter perches to intersect the last line of said lot #1;
thence binding on said line reversed running with the road from Annapolis
Junction to Odenton south fifty and one-half degrees east fifty-eight
and three-quarter perches to the place of beginning. Containing seven
and three-quarter acres of land, more or less.

FR

BEING the same tract of land which, by deed dated October 14 1914, and recorded among the Land Records of Anne Arundel County in Liber G.W. NO. 108 folio 231, etc., was granted and conveyed by George W. Hall and wife to the said party of the first part, in fee simple.

BEING the same land which is designated on a plat thereof attached hereto as part hereof.

Together - with the buildings and improvements thereupon; and the rights, alleys, ways, waters, privileges, appurtenances and advantages to the same belonging or in anywise appertaining.

To have and to hold the said lot of ground and premises, unto and to the use of the said UNITED STATES OF AMERICA, its successors and assigns, in fee-simple.

And the said part of the first part covenant that he will warrant specially the property hereby granted and conveyed, and that he will execute such further assurances of said land as may be requisite.

Witness the hand and seal of the said grantor

WITNESS:

Milton Brande

Franklin H. Burke { SEAL }

_____ { SEAL }

State of Maryland, Baltimore City, to wit:

I HEREBY CERTIFY, that on this 15th day of July in the year one thousand nine hundred and nineteen before me, the subscriber, a notary public of the State of Maryland, in and for Baltimore City aforesaid, personally appeared FRANKLIN H. BURKE the grantor hereinbefore named, and acknowledged the foregoing deed to be his act.

IN TESTIMONY WHEREOF, I hereunto set my hand and affix my notarial seal.

NOTARY'S SEAL
HERE

Milton Brande

Notary Public.

APPENDIX E: LIMITED SITE INVESTIGATION REPORT

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- Attachment C Sample Chain-of-Custody Records
- Attachment D Laboratory Results
- Attachment E Laboratory QC Sample Result Evaluation

E1.0 INTRODUCTION

E1.1 PROJECT BACKGROUND

The Environmental Baseline Survey (EBS) presented in the main text of this report was performed to support a facility siting study for potential the development of Site M on Fort George G. Meade. This study included a limited site investigation (SI) to further characterize suspect areas identified during the EBS. The United States Army Corps of Engineers (USACE) contracted Berger/EA to complete the limited SI concurrently with the EBS. The limited SI was conducted between 15 December 2003 and 30 December 2003. The SI targeted areas of interest (AOIs) described by the EBS within the 460-acre Site M parcel, comprised of the Fort George G. Meade (Ft. Meade) golf course ([Figure E1-1](#)).

The intent of this investigation was to evaluate, prior to transfer of the property, whether environmental conditions have resulted in impacts to site soil or groundwater from constituents of potential concern.

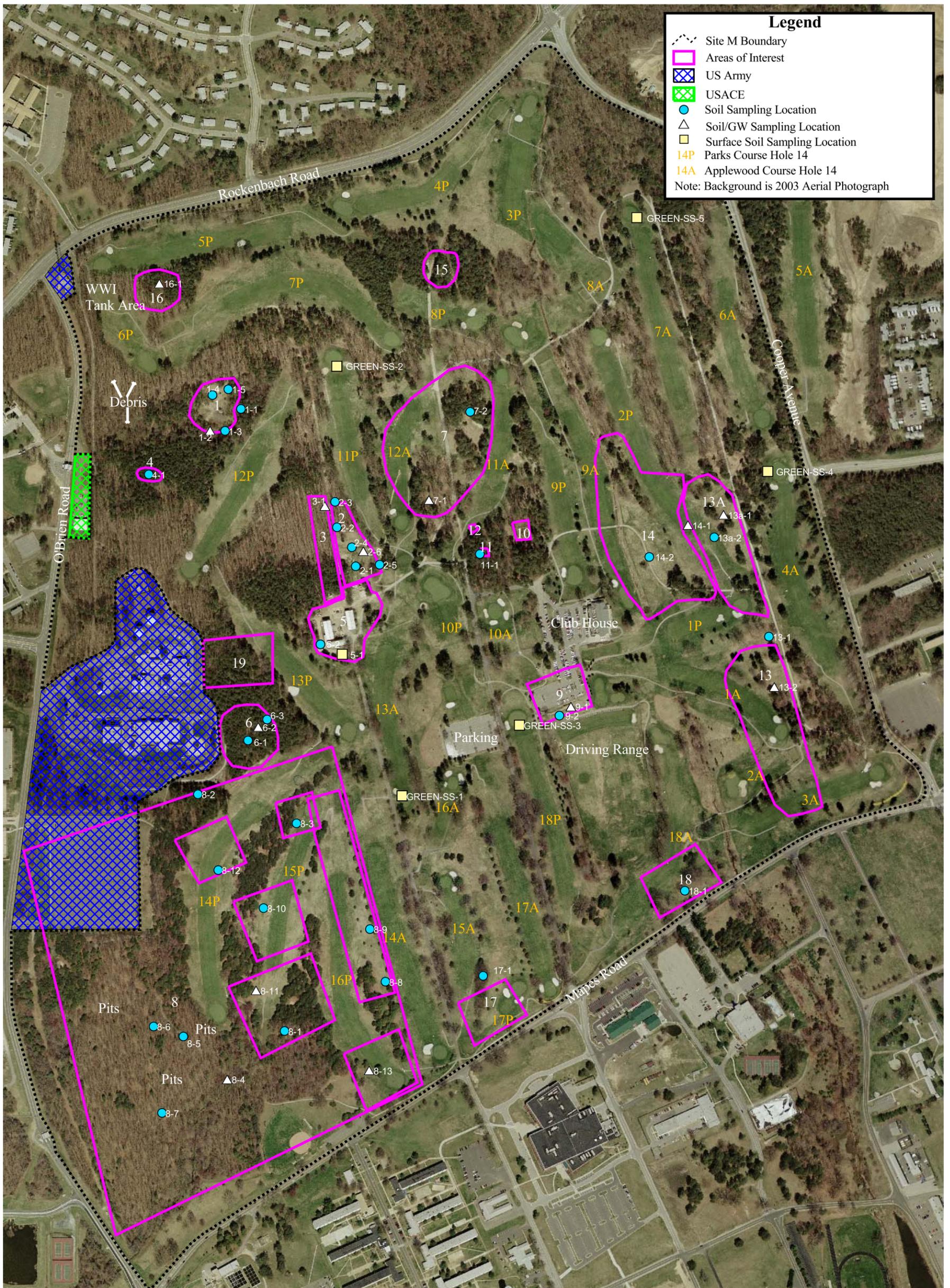
E1.2 ORGANIZATION OF REPORT

The EBS, to which this SI summary report is an appendix, provides detailed site history, setting, and background information. This SI Report is limited to details and information specific to the site investigation effort and is presented as support information for the EBS. Information gathered during the SI was also used to provide additional details for the EBS, particularly in reference to site geology. Therefore, some reiteration between the main text (EBS) and this appendix exists to maintain stand-alone character of each report.

This SI Report is organized in the following manner:

- Section E1 Includes discussion of the site background, scope and intent of investigation, and report organization.
- Section E2 Includes a discussion of the field and analytical programs for the limited SI, including non-conformance issues, and the on-site activities conducted during the investigation.
- Section E3 Presents the results of the investigation.
- Section E4 Presents a summary and conclusions of the investigation.
- References

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Legend

- Site M Boundary
- Areas of Interest
- US Army
- USACE
- Soil Sampling Location
- Soil/GW Sampling Location
- Surface Soil Sampling Location
- 14P Parks Course Hole 14
- 14A Applewood Course Hole 14

Note: Background is 2003 Aerial Photograph

Areas of Interest

- | | | |
|--|--|--|
| 1 Landfill #1 | 8 Former Training Area (1943) | 15 Current Wood/Clipping Placement Area |
| 2 Possible Landfill #2/
Former Golf Cart Washing Area | 9 Former Club House Area | 16 Possible Disposal Area/Training Area (1943) |
| 3 Possible Landfill #3 | 10 Former Farmhouse Location | 17 Disturbed Ground/Scarring (1938) |
| 4 Small Concrete Pit | 11 Concrete Pit/Telephone Pole | 18 Disturbed Ground/Scarring (1938) |
| 5 Golf Course Maintenance Area | 12 Downs Grave Site | 19 Disturbed Ground/Scarring (1938) |
| 6 Potential Landfill #4 | 13 Possible Burial Area #1 (per Interview) | |
| 7 Former Training Area (1943) | 13A Ground Scar from Aerial Review | |
| | 14 Possible Burial Area #2 (per Interview) | |

500 0 500 Feet



Completed
Sampling Areas
1, 2, 3, 4, 5, 6, 7, 8, 9,
11, 13, 13A, 14, 16, 17, 18

Completed
Geophysics Areas
2, 3, 6, 8, 13,
13A, 14, 17

**SITE M
FT. MEADE, MARYLAND**

**FIGURE E1-1:
LIMITED SITE INVESTIGATION
SAMPLING LOCATIONS
FEBRUARY 2004**

E1.3 SITE BACKGROUND

A detailed description of site history and previous investigations is presented in the EBS. Information specific to the limited SI is summarized below.

E1.3.1 Hydrology

The site lies within the drainage of the Little Patuxent River. Topographically, the site slopes slightly to the southwest, south, southeast, and east from a topographic high located in the northwestern portion of the site and to the southwest from a secondary topographic high in the eastern portion of the site. Elevation ranges from approximately 250 feet (ft) above mean sea level (msl) in the northwestern portion of the site to approximately 159 ft above msl in the east-central portion of the site, along an intermittent site drainage, known as Midway Branch, which flows to the south. Midway Branch flows through Allen Lake (also described as Soldier Lake), approximately 1.25 miles south of the site, and eventually to the Little Patuxent River (USGS 7.5 Quad, 2002). There are no Federally recognized wetlands within the site (EDR 2003).

E1.3.2 Geology and Soils

The site, located in the Atlantic Coastal Plain Physiographic Province, is underlain by igneous and metamorphic crystalline rock of the Precambrian to early Cambrian ages. The bedrock surface dips to the southeast and is the lower confining layer for the overlying Potomac Group unconsolidated sediments, consisting of (oldest to youngest) the Patuxent, Arundel, and Patapsco Formations. The youngest, Patapsco Formation, is comprised of an upper, middle, and lower unit.

Drilling activities during the SI were limited to 27 ft below ground surface (bgs) and were therefore confined to the Patapsco Formation. The upper Patapsco unit varies in thickness, up to 40 ft, and is distinguished by medium to fine, yellow-brown, orange-brown, and tan sand and silty-sand. The upper unit is underlain by the middle Patapsco unit, consisting of thick, tough, highly plastic, mottled, reddish-brown to light gray clay that provides the upper confining unit for the lower Patapsco aquifer. The middle unit typically occurs between 1 ft and 41 ft bgs and can range in thickness to 102 ft (Versar 2001). Note that this middle unit may be discontinuous across the Ft. Meade area. The lower Patapsco unit is comprised of medium-fine, silty-sand, grading with depth to coarser sand. This lower unit overlies the approximately 250-ft thick Arundel Formation, comprised of red, brown, and gray Arundel clay with some ironstone nodules and plant remains (Mack and Achmad 1986). The Patapsco Formation is non-existent to the west of the site, where the surface outcrop consists of the Arundel and Patuxent Formations.

E1.3.3 Hydrogeology

There are three distinct aquifers within the Ft. Meade installation: the Patuxent Formation, the lower Patapsco unit, and the upper Patapsco unit. The Patapsco Formation is separated from the Patuxent Formation by the tough, hard, Arundel Clay.

The United States Department of Agriculture (USDA) Natural Resources Conservation Service indicates that the soil in the upper Patapsco unit is of high hydraulic conductivity with high infiltration rates and lists permeabilities ranging from 2 to 20 inches/hour (in/hr). This was confirmed by EA Engineering Science & Technology, Inc. during a 1992 Site Inspection Study. Hydraulic conductivities were estimated to range as high as 8.5 in/hr in the upper aquifer and 2.85 in/hr in the lower Patapsco aquifer (EA 1992). Observations of soil lithology during the SI tend to support this, with the only exception being a dense, extremely light gray silty/clay and clayey/silt encountered intermittently in several borings. This clay is more indicative of the material comprising the middle Patapsco unit and has an estimated vertical hydraulic conductivity ranging up to 2.8×10^{-4} in/hr (Mack and Achmad 1986). This fine material has a considerably lower hydraulic conductivity and acts as a confining layer. Whether this layer is continuous across the site was not established during the SI. Groundwater flow in the Patapsco aquifers is to the east/southeast (Versar 2001). The water table encountered during the limited SI within Site M is comprised of the lower Patapsco unit.

The Patuxent Formation is a confined aquifer that directly overlies the igneous and metamorphic crystalline bedrock and is confined above by the Arundel Clay. The Patuxent aquifer was not targeted during the SI.

E2.0 SITE INVESTIGATION ACTIVITIES

E2.1 REVIEW OF EBS INFORMATION

Prior to initiating field activities for the limited SI, information gathered during the EBS document review period was evaluated for potential AOIs to be included in the site investigation. The evaluation included review of historical aerial photography, historical maps, and site reconnaissance notes, as well as interviews with site personnel to identify possible disposal areas. The evaluation resulted in identification of AOIs (Figure E1-1). Table E2-1 lists each AOI, the SI activity performed there, and the rationale for the activity.

E2.2 NON-CONFORMANCE ISSUES

The following summarizes those tasks performed differently than proposed in the Final Work Plan (USACE 2003), and the rationale for the change.

E2.2.1 Geophysical Investigation

Three of the areas proposed in the Work Plan for a geophysical survey (AOIs 1, 2, and 16) were included in a more in-depth survey by the contractor (Versar) supporting the Installation Restoration Program (IRP). Therefore, a survey was not performed in AOI 1 or 16. The survey of AOI 2 was not removed from this investigation due to the larger proposed areal extent of the survey in comparison with the IRP survey. The results of the IRP survey were reviewed by EA prior to the SI and will be available for review in the report of results for the IRP (Versar 2003).

Because a geophysical investigation was no longer needed in AOI 1, AOI 17 was included for survey in lieu of AOI 1. AOI 17 was not originally proposed for geophysical investigation.

In addition, a Schonstedt model GA-52B was used to perform the geophysical survey of AOI 8. This was necessitated by size of the AOI (approximately 82 acres, over 40 of which exhibited ground disturbance in historical aerial photographs). The Schonstedt is a passive ferrous-metal magnetic locator used to detect anomalies in the earth's magnetic field that are produced by ferromagnetic targets. It uses a fluxgate technology that responds to the gradient or rate of change of the field. The locator measures the gradient or peak of change of the magnetic field along the axis of the probe bar and has a detection capability of up to 4 ft for items as small as a 75-millimeter projectile, and up to approximately 12 ft for larger items.

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TABLE E2-1 SUMMARY OF SI ACTIVITY AND RATIONALE FOR INCLUSION OF AREAS OF INTEREST INTO THE SI

Area of Interest Identifier	Rationale for Identification as AOI	Investigation Activity	Rationale for Activity
AOI 1	Visible fill material evident during EBS site reconnaissance. Also visible ground disturbance on historical photos. Area was identified during interviews as a disposal area.	Subsurface soil and groundwater sampling.*	To evaluate the potential presence of contaminants of potential concern in the soil and groundwater.
AOI 2	Former golf cart washing area along Zimborski Avenue. Also area of visible ground disturbance in historical aerial photographs.	EM-31 geophysical survey. Subsurface soil and groundwater sampling.*	To evaluate the potential presence of EM anomalies in the area to target for placement of sampling locations. To evaluate the potential presence of contaminants of potential concern in the vicinity of EM anomalies and within the AOI.
AOI 3	Area of visible ground disturbance in historical aerial photographs. Also debris visible during EBS site reconnaissance.	EM-31 geophysical survey. Subsurface soil and groundwater sampling.	To evaluate the potential presence of EM anomalies in the area to target for placement of sampling locations. To evaluate the potential presence of contaminants of potential concern in the vicinity of EM anomalies and within the AOI.
AOI 4	Small 2.8ft x 3.8ft concrete pit discovered in the woods during EBS site reconnaissance. Origin and use unknown.	Subsurface soil sampling.	To evaluate the presence of potential contaminants of potential concern within or just below the pit.
AOI 5	Area currently used as a maintenance facility and chemical storage area. Area was included in previous investigation, with the exception of the immediate vicinity of the hazardous waste storage locker and Building 8890A. Also, dark, oily, staining on the wooden floor of Building 8860 was observed during EBS site reconnaissance.	Surface and subsurface soil sampling.	Assess whether the dark oil staining impacted shallow soil beneath the wooden floor. Evaluate the potential presence of contaminants of potential concern have impacted subsurface soil.
AOI 6	Debris visible during EBS site reconnaissance. Historical maps indicate that this area is in the northern portion of a mortar range. Review of aerial photographs indicates extensive ground disturbance.	Subsurface soil and groundwater sampling.	To evaluate the potential presence of EM anomalies in the area to target for placement of sampling locations. To evaluate the potential presence of potential contaminants of potential concern in the subsurface soil and groundwater in the vicinity of EM anomalies and within the AOI.
AOI 7	Historical information identifies area as a former training area. Small areas of ground disturbance visible in historical aerial photos.	Subsurface soil and groundwater sampling.	To evaluate for the potential presence of EM anomalies in the area to target for placement of sampling locations. To evaluate the potential presence of potential contaminants of potential concern in subsurface soil within the AOI.
AOI 8	Historical information indicates that area was a training area. In addition, historical maps indicate the eastern portion of the AOI was a former mortar range.	Meandering magnetometry survey. Subsurface soil and groundwater sampling.	To evaluate the potential presence of EM anomalies in the area to target for placement of sampling locations. To evaluate the potential presence of contaminants of potential concern in the vicinity of EM anomalies and within the AOI.
AOI 9	Former Club House location. Possible location of former USTs.	Subsurface soil and groundwater sampling.	To evaluate the potential presence of contaminants of potential concern in the subsurface soil or groundwater.
AOI 10	Former farmhouse north of current Club House.	Not included.	Not applicable.

* A geophysical survey was performed by Versar, Inc. in support of the Ft. Meade IRP. The data was reviewed by EA Engineering prior to placement of sampling locations.

TABLE E2-1 SUMMARY OF SI ACTIVITY AND RATIONALE FOR INCLUSION OF AREAS OF INTEREST INTO THE SI

Area of Interest Identifier	Rationale for Identification as AOI	Investigation Activity	Rationale for Activity
AOI 11	Concrete pit/telephone pole in wooded area north of Applewood course hole 10. Former use unknown.	Subsurface soil sampling.	To evaluate the potential presence of contaminants in the subsurface soil in the vicinity of the pit.
AOI 12	“Downs” cemetery in wooded area south of Applewood course hole 11.	Not included.	Not applicable.
AOI 13	Historical aerials indicate extensive ground disturbance in the area. Interviews with site personnel indicate parts of grenades were found in the western portion of the area.	EM-31 geophysical survey. Subsurface soil and groundwater sampling.	To evaluate the potential presence of EM anomalies in the area to target for placement of sampling locations. To evaluate the potential presence of contaminants of potential concern in the vicinity of EM anomalies and within the AOI.
AOI 13A	Historical aerials indicate extensive ground disturbance in the area. Interviews with site personnel indicate artifacts from former training area found in the western portion of the area.	EM-31 geophysical survey. Subsurface soil and groundwater sampling.	To evaluate the presence of EM anomalies in the area to target for placement of sampling locations. To evaluate for the presence of contaminants of potential concern in the vicinity of EM anomalies and within the AOI.
AOI 14	Historical aerials indicate ground disturbance. Interviews with site personnel indicated possible burial area.	EM-31 geophysical survey. Subsurface soil and groundwater sampling.	To evaluate the potential presence of EM anomalies in the area to target for placement of sampling locations. To evaluate the potential presence of contaminants of potential concern in the vicinity of EM anomalies and within the AOI.
AOI 15	Current wood/clipping disposal area in northern most wooded area along Taylor Avenue.	Not included.	Not applicable.
AOI 16	Historical aerials indicate ground disturbance within this area. Interviews and historical maps indicate the area was used for training with tanks.	Subsurface soil and groundwater sampling.*	To evaluate the potential presence of contaminants of potential concern in the subsurface soil or groundwater.
AOI 17	Historical aerials indicate some ground disturbance in the area.	EM-31 geophysical survey. Subsurface soil sampling.	To evaluate the potential presence of EM anomalies in the area to target for placement of sampling locations. To evaluate the potential presence of contaminants of potential concern in the vicinity of EM anomalies and within the AOI.
AOI 18	Historical aerials indicate some ground disturbance in the area.	Subsurface soil sampling.	To evaluate the potential presence of contaminants of potential concern in the subsurface soil.
AOI 19	Historical aerials indicate some ground disturbance in the area.	Not included.	Not applicable.
Golf greens	Pesticides and herbicides have been applied to the greens and fairways.	Surface soil sampling.	Presumably the golf greens would have experienced the highest herbicide and pesticide application at the golf course. Therefore the area downslope and at the fringe of the green was targeted to evaluate whether herbicide and pesticide application has impacted the surface soil.

* A geophysical survey was performed by Versar, Inc. in support of the Ft. Meade IRP. The data was reviewed by EA Engineering prior to placement of sampling locations.

E2.2.2 Unexploded Ordnance Avoidance

Unexploded ordnance (UXO) avoidance was performed as indicated in the Work Plan (USACE 2003) with the exception of instrumentation. A Schonstedt magnetometer was used to perform the clearance rather than the Foerster FEREX[®] K4.021. The Schonstedt was selected due to the longer probe and smaller housing, allowing for easier insertion into deeper hand auger holes.

E2.3 GEOPHYSICAL SURVEY

During the EBS records review, specific information or detailed photographs indicating burial trenches, pits, or obvious storage areas were not encountered. Therefore, ground disturbances appearing on the historical aerial photos were the main target feature used to select the areas for the geophysical survey. Further, there were several areas of the site that exhibited such ground disturbance. The AOIs selected for inclusion into the geophysical survey were based upon a qualitative assessment of the severity of the disturbance (i.e, brighter light-tone features were presumed to be more severely disturbed areas); the size of the disturbance; number of trails through the area; and correlation of the disturbance with interviews with site personnel.

AOIs 2, 6, 8, 13, 13A, 14, and 17 were selected as having the most severe ground disturbances, based upon the qualitative parameters listed above, and were included in the geophysical survey. A Geonics Ltd. EM-31 terrain conductivity meter was utilized to conduct the survey at AOIs 2, 6, 13, 13A, 14, and 17. The surveys were performed in accordance with methodologies described in the Work Plan (USACE 2003) with the following exception. Data was collected at 10-foot intervals along survey lines established for AOIs 2, 6, 14, and 17, allowing for better resolution of the data. Grids were established to include the areal extent of the historical ground disturbance.

At AOI 8, a meandering magnetometer survey was performed using a Schonstedt magnetometer. The Schonstedt magnetometer effectively locates large magnetic anomalies to depths of approximately 12 ft, but is particularly efficient at detecting smaller anomalies at shallow intervals. This instrument was selected for its capabilities of detecting the smaller anomalies that, in this area (formerly identified as a mortar range), may be indicative of possible ordnance or ordnance-related material.

A meandering survey allows a greater area to be covered, but with less resolution. This methodology was chosen for AOI 8 due to the size of the area. AOI 8 extends approximately 1,800 east to west and 2,000 ft north to south and encompasses approximately 82 acres. The extreme size of the area is beyond the scope of the electromagnetometer (EM) geophysical survey as proposed for this project. Therefore, actual survey was limited to the most severely disturbed areas, predominantly in the eastern portion of the AOI, as described in Section E3.1.4. The intent of the meandering Schonstedt magnetometer survey was to evaluate whether there was a likelihood of a large burial area and whether small anomalies, possibly indicative of ordnance, were present.

E2.4 UTILITY CLEARANCE

Prior to conducting intrusive work (direct push drilling), an excavation permit, as well as pertinent utility drawings, were acquired from the Ft. Meade Directorate of Public Works. In addition, each proposed drilling location was inspected by a utility locating crew and surveyed to ensure there were no utilities in the vicinity of the drilling location.

E2.5 UXO AVOIDANCE

Due to the possibility for the presence of UXO, Human Factors Inc. was contracted to perform UXO avoidance for each proposed drilling location. Two UXO specialists performed the avoidance as per the Work Plan, with the exception of the change in instrumentation as indicated in Section E2.2.2. Generally, locations required little or no offset to avoid magnetic anomalies (possible UXO). The exception was AOI 1, where a drilling location originally proposed for the upper, central portion of the fill, could not be placed due to the number of magnetic hits in the area. The UXO crew attempted 15 hand auger (including hand-digging the first 18 inches to by-pass concrete and debris) locations in a 20-foot radius around the originally proposed location. Auger refusal and/or anomalies prohibited the clearance of this location. The location (1-1) was eventually moved to the east side of the visible fill area.

Several other minor offsets (within 3 ft of the originally proposed locations) were required at AOI 2 (locations 2-4, 2-6) and AOI 8 (8-9) to avoid magnetic anomalies.

E2.6 SOIL SAMPLING

Soil sampling was performed using direct push methodology as describe in the Work Plan (USACE 2003). A total of 44 borings were installed for collection of subsurface soil samples and an additional six surface soil samples were collected. Figure E1-1 illustrates the sampling locations on a site-wide basis. Figures included in Section E3 illustrate sampling locations on an AOI basis.

E2.6.1 Rationale for Placement of Boring Locations

The intent of the soil sampling and analysis program was to evaluate whether current or historical site use has impacted soil within Site M. To accomplish this, sample locations were biased toward areas where current site use, historical data and aerial photograph review, or the geophysical investigation indicated possible impact from site activities. Table E2-2 presents rationale for placement of sampling locations in each AOI included in the limited SI.

TABLE E2-2: RATIONALE FOR SAMPLE LOCATION PLACEMENT AT EACH AOI

Sampling Location	Sample Placement Rationale for Each AOI				
	AOI 14	AOI 16	AOI 17	AOI 18	Golf Green Surface Soil Sampling
1	Placed adjacent to a large magnetic anomaly. No visible soil impact. Sample collected from capillary fringe (6.5-8 ft bgs).	No significant anomalies reported in this area. Location placed in unnaturally humocky area, in ground disturbance from historical photos. No visible soil impact. Potential impact most likely at a shallow depth. Sample collected from 3-5 ft bgs.	Placed adjacent to geophysical anomaly. No visible soil impact. Sample collected from capillary fringe (21.5-23 ft bgs).	Randomly placed in area of ground disturbance on historical aerial photos. No visible impact to soil. Sample collected from 2-4 ft bgs.	Placed on the downslope fringe to catch possible impact from pesticide and herbicide application.
2	Placed in low lying area, adjacent to small anomaly. No visible impact to soil. Sample collected from capillary fringe (4-5.5 ft bgs).	Not applicable, only 1 location placed.	Not applicable, only 1 location placed.	Not applicable, only 1 location placed.	Placed on the downslope fringe to catch possible impact from pesticide and herbicide application.
3	Not applicable, only 2 locations placed.				Placed on the downslope fringe to catch possible impact from pesticide and herbicide application.
4					Placed on the downslope fringe to catch possible impact from pesticide and herbicide application.
5					Placed on the downslope fringe to catch possible impact from pesticide and herbicide application.

Shading indicates groundwater sample collected from the location.

E2.6.2 Sample Collection and Analysis

The interval for sample collection at each location was based upon a hierarchy of decision parameters. Ultimately, if there was visual evidence of impact, for example, fill material, staining of soil, noticeable odors or elevated organic vapor concentrations, samples were collected from the interval exhibiting these characteristics. In lieu of these noticeable impacts, samples were collected from intervals presumed by the site geologist to have had the highest possibility of impact, based on review of historical information, site physical characteristics, or suspected contaminant. For example, a shallower interval (up to 8 ft bgs) was selected when the presumed impact was from possible ground disturbance or surface/shallow disposal activities. Where there were no visible or historical indications to support possible surface impact, a deeper interval, near the groundwater interface was selected for the sampling interval. The rationale was that constituents, if present in site groundwater, would be transported by the groundwater and may impact soil in the capillary fringe of the water table aquifer. Intervals for sample selection are noted on the lithology logs included in Attachment B, and the rationale for selection is summarized in Table E2-2.

The samples collected from the 44 borings were submitted for laboratory analysis of volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), pesticides, polychlorinated biphenyls (PCBs), explosives, diesel-range organics (DRO), and gasoline-range organics (GRO), oil and grease, and metals. The surface soil samples collected from around the fringe of the golf greens were analyzed for herbicides and pesticides. Table E2-3 presents the laboratory methods used for sample analyses.

TABLE E2-3: SUMMARY OF ANALYTICAL METHODS

Analyte Group	Preparatory Method	Analytical Method
Volatile Organic Compounds + MTBE	SW-846 Method 5030(aqueous) 5035 (solid)	SW-846 Method 8260B(aqueous) 8260B (solid)
Semi-volatile Organic Compounds		SW-846 Method 8270C
Herbicides	Inherent to Method	SW-846 Method 8151
Pesticides/PCB	SW-846 Method 3520C	SW-846 Method 8081A(pesticides)/8082 for PCB
Explosives	SW-846 353A (aqueous) and 8330 (soil)	SW-846 Method 8330
Metals	SW-846 3050B	SW-846 Method 3010A/3050A/6010B
Mercury	Inherent to Method	SW-846 Method 7470/7471
Oil and Grease	Inherent to Method	SW-846 Method 1664A
Total Petroleum Hydrocarbons – GRO, DRO	SW-846 Method 5030(aqueous) 5035 (solid) for GRO, 3510 (aqueous) 3540(solid) for DRO	EPA 8015 M, DRO and GRO

GRO = Gasoline Range Organic Compounds

DRO = Diesel Range Organic Compounds

MTBE = Methyl tert butyl ether

E2.6.3 Quality Control Sample Type and Frequency

A total of three duplicate soil samples were collected to assess precision. Table E2-4 relates the normal sample to the associated duplicate sample. Duplicates were collected as described in the Work Plan (USACE 2003). Section E3.3.1 discusses the results of the duplicate analyses and effect on data quality.

TABLE E2-4: SUMMARY OF QUALITY CONTROL SAMPLES

Quality Control Sample Designation	Type of Sample	Parent Sample/Comment
SO-DUP1	Duplicate Subsurface Soil Sample	13A-1-3-5.5
03-DE-29-DP1	Duplicate Subsurface Soil Sample	1-2-3.5-5
03-DE-30-DP2	Duplicate Subsurface Soil Sample	2-6-2-4
GREEN-DUP1	Surface Soil Duplicate	Green-SS-2. Submitted for herbicides and pesticides only.
03-DE-22-DP1	Duplicate Groundwater Sample	8-4
TRIPBLANKA	Trip Blank.	Submitted with sample shipment picked up on 16 December 2003.
TRIPBLANKB	Trip Blank.	Submitted with sample shipment picked up on 19 December 2003.
TRIPBLANKC	Trip Blank.	Submitted with sample shipment picked up on 22 December 2003.
TRIPBLANKD	Trip Blank.	Submitted with sample shipment picked up on 30 December 2003.
RinseBlank	Equipment Rinsate Blank	Not applicable.
2-6	Matrix Spike and Matrix Spike Duplicate for Groundwater	Not applicable.
8-8-10.5-13.7	Matrix Spike and Matrix Spike Duplicate for Soil	Not applicable.
GREEN-SS-4	Matrix Spike and Matrix Spike Duplicate for Soil	Requested spike for herbicides only.

Trip blanks were maintained with the bottles and jars used for collection of the VOC aliquots and were submitted with these aliquots to evaluate whether bottles or samples absorbed VOCs during handling or shipment. Results of the evaluation are presented in Section E3.3.1. A total of four sample pickup/shipments were performed. Therefore, a total of four trip blanks were submitted.

One rinsate blank was performed by capturing reagent grade distilled and de-ionized water into decontaminated stainless steel bowls, and transferring to appropriate bottles for analysis. The bowls had been used for homogenization of the soil sample prior to distributing into soil jars. Results of the rinsate blank are present in Section E3.3.1.

A matrix spike (MS) and matrix spike duplicate (MSD) of site soil was requested to evaluate possible site-specific matrix effects on sample analysis results. One MS/MSD was requested for each requested analysis method, for soil and groundwater. Results of the evaluation are presented in Attachment E.

E2.7 GROUNDWATER SAMPLING

Groundwater sampling was also performed using direct push methodology as describe in the Work Plan (USACE 2003). Sampling was proposed for up to 15 locations. A total of 13 groundwater samples were collected from soil borings installed during the investigation (Table E2-2 and Figure E1-1).

E2.7.1 Rationale for Sample Location Placement

The intent of the groundwater sampling and analysis program was to assess whether there had been impact to groundwater due to site activities. Historical information and site reconnaissance indicated that most of the impact to the site would be from activities taking place on the surface (e.g., pesticide application) or shallow subsurface (landfilling operations at AOI 1). Therefore, the shallow water table aquifer was targeted for sampling.

Generally, groundwater sampling was attempted at the location within the AOI that was most likely to have been impacted, based upon review of available information and site characteristics. This was typically in the most obviously impacted area of the site (based upon observations of surface debris or subsurface contamination) or toward the eastern or southern portion of the site, as groundwater flow is to the east and southeast (Versar 2001). In some areas, groundwater was not encountered at the locations with the highest probability of impact. In those areas, the groundwater sampling location was moved to the east or south.

E2.7.2 Sample Collection and Analysis

Samples were collected from temporary groundwater sampling points using a peristaltic pump as described in the Work Plan (USACE 2003). Groundwater samples were submitted for analysis of VOCs, SVOCs, pesticides, PCBs, explosives, oil and grease, DRO, GRO, and dissolved metals. The aliquot for analysis of dissolved metals required field filtration performed by placing an in-line 0.45 micrometer filter at the discharge of the sampling tubing.

E2.7.3 Quality Control Sample Type and Frequency

A summary of the quality control samples submitted during the limited SI is presented in Table E2-4. One duplicate sample, designated 03-DE-22-DP, was collected from location 8-4 to evaluate analysis precision. The results of the evaluation are presented in Section E3.3.1.

Trip blanks were maintained with the bottles and jars used for collection of the VOC aliquots and were submitted with these aliquots to evaluate whether bottles or samples absorbed VOCs during handling or shipment. Note that both soil and groundwater aliquots for analysis of VOCs were shipped together, such that the same trip blank could be used to evaluate possible trip contamination for each matrix. Results of the evaluation are presented in Section E3.3.1.

A MS/MSD of site groundwater was requested to evaluate possible site-specific matrix effects on sample analysis results. One MS/MSD was requested for each requested groundwater analysis method. Results of the evaluation are presented in Attachment E.

E2.8 SAMPLE LOCATION SURVEYING

Upon completion of the geophysical investigation and sampling effort, each sampling location and a subset of survey grid points were surveyed using a Trimble Pro XRS differential global positioning system (GPS) capable of a 3-foot horizontal resolution. The following setup and datum were used to generate coordinates for the locations:

- US State Plane 1983
- Zone: Maryland 1900
- Datum: North American Datum (NAD) 1983 (CONUS)
- Coordinate Units: Feet

E2.9 INVESTIGATIVE DERIVED MATERIALS

Both liquid and solid investigative derived materials (IDM) were generated during the limited SI. The solid IDM consisting of gloves, plastic, cardboard, core liners, tubing, and filters was disposed in plastic garbage bags within an on-site solid waste receptacle. Soil IDM was disposed within the boring from which it was removed.

Less than one gallon of liquid IDM, consisting of decontamination solution, was generated during the investigation. The volume of liquid IDM was such that the IDM was added to an absorbent material, bagged, and placed in the waste receptacle.

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E3.0 SITE INVESTIGATION RESULTS

E3.1 RESULTS OF GEOPHYSICAL INVESTIGATION AND SAMPLE LOCATION PLACEMENT RATIONALE

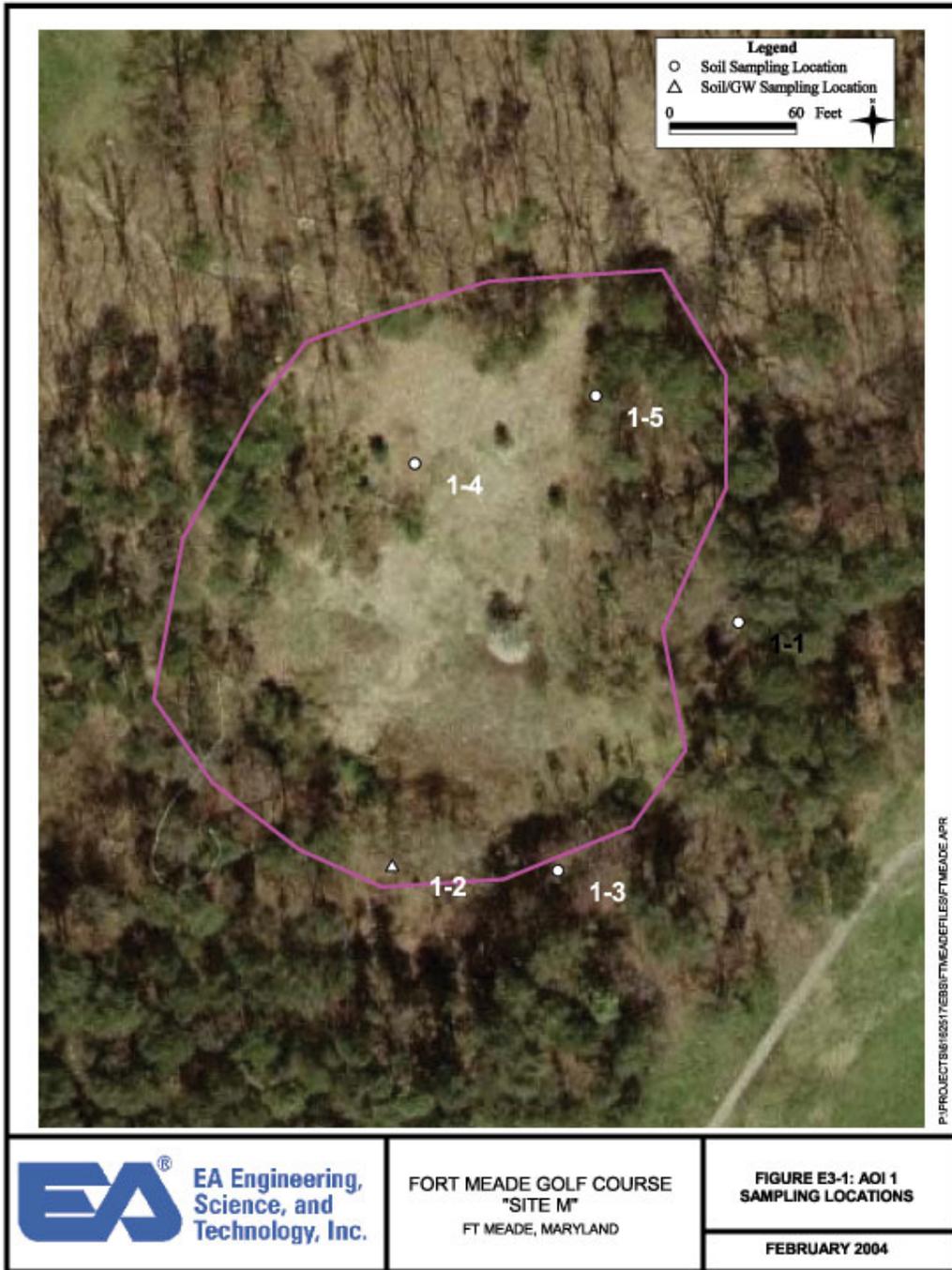
Electromagnetic anomalies were encountered in each of the AOIs included for geophysical investigation. This limited SI effort did not include test pitting. Therefore, in most cases, the identity of the anomalies could not be confirmed. However, where surface features were present that would indicate the reason for the anomaly, or if the shape of the anomaly provided information to support a reasonable conjecture, presumptions were given to the cause of the anomaly. For example, the linear anomalies were typically presumed to be underground utilities. Some of these presumptions were confirmed during the utility survey.

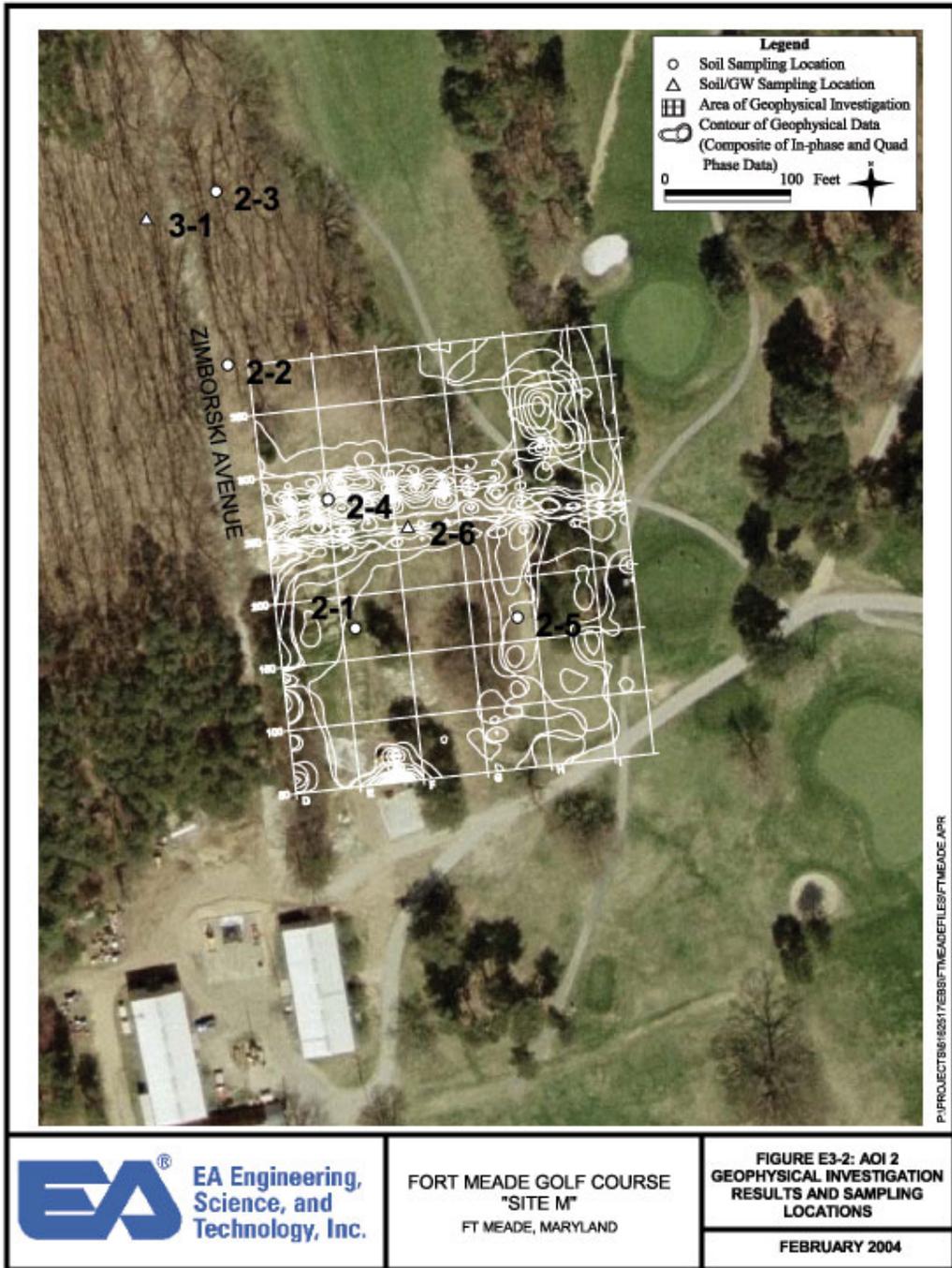
In each of the AOIs included in the geophysical investigation, sampling locations were placed based upon anomalies encountered during the survey to assess the presence of potential contaminants migrating from the anomaly. The rationale for placement of these locations is also discussed in the sections below.

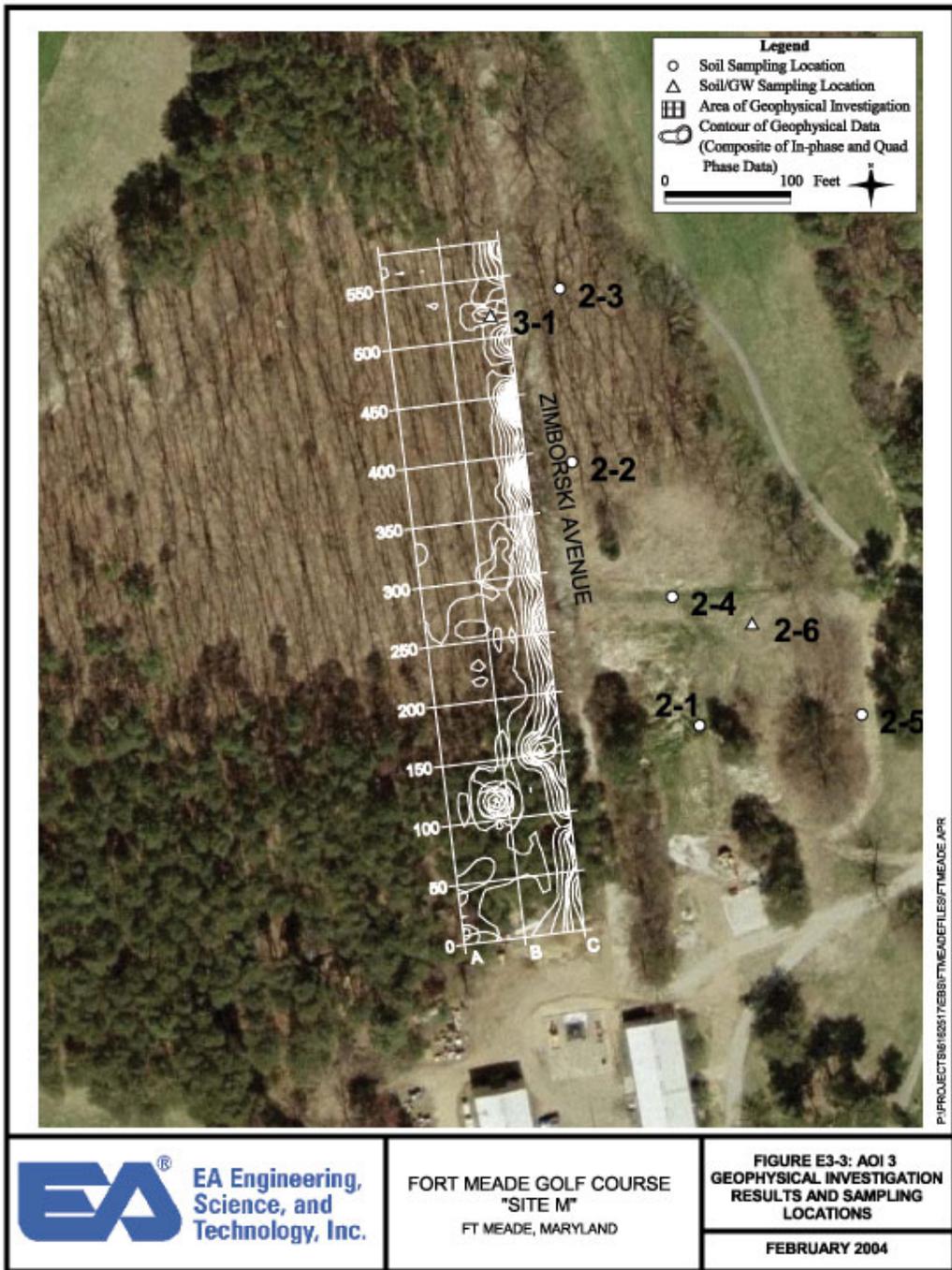
Grids were established within each AOI to facilitate the electromagnetic survey. Locations and descriptions in this section are referenced alphanumerically to the grid. The alpha designation refers to each north south trending line, beginning with "A", and continuing in 50-foot increments to lines "B", "C", etc. Where an anomaly occurred between lines, a distance qualifier is added to the line designation. For example, A+30 is 30 ft from line A in the direction of line B. The numeric portion of the designation refers to the distance in feet, north/south, along each line. For example B100 is located on the "B" line, 100 ft north of the baseline. Similarly, C+20/250 is located 20 ft from the C line, in the direction of the D line, and 250 ft north of the baseline. Figures E3-1 through E3-16 illustrate the results of the geophysical survey as well as the sampling locations within each AOI.

E3.1.1 AOI 2

The grid for AOI 2 extended approximately 350 ft south to north, and 280 ft west to east (Figure E3-2). The westernmost survey line was adjacent to and east of Zimborski Avenue.

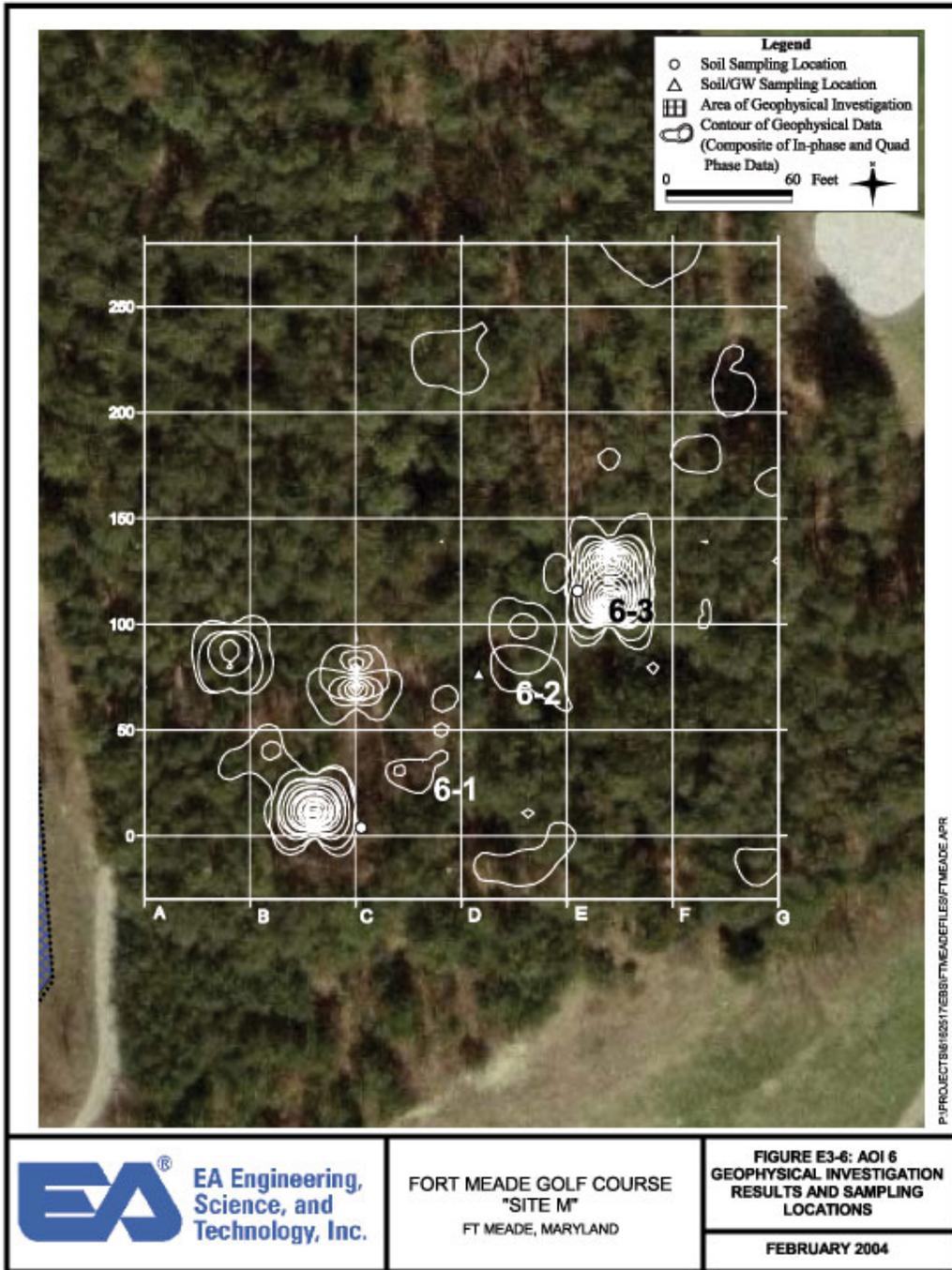




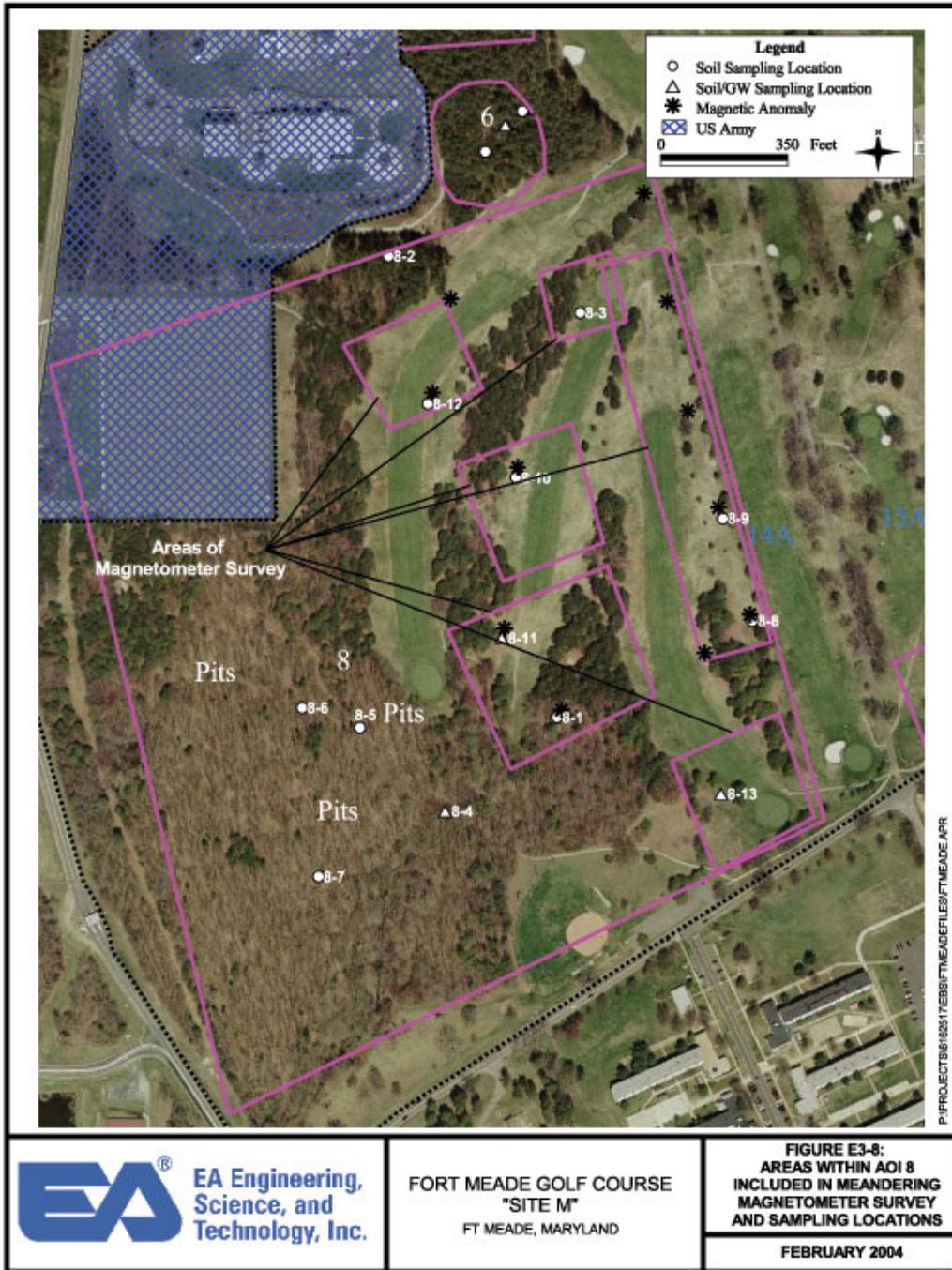










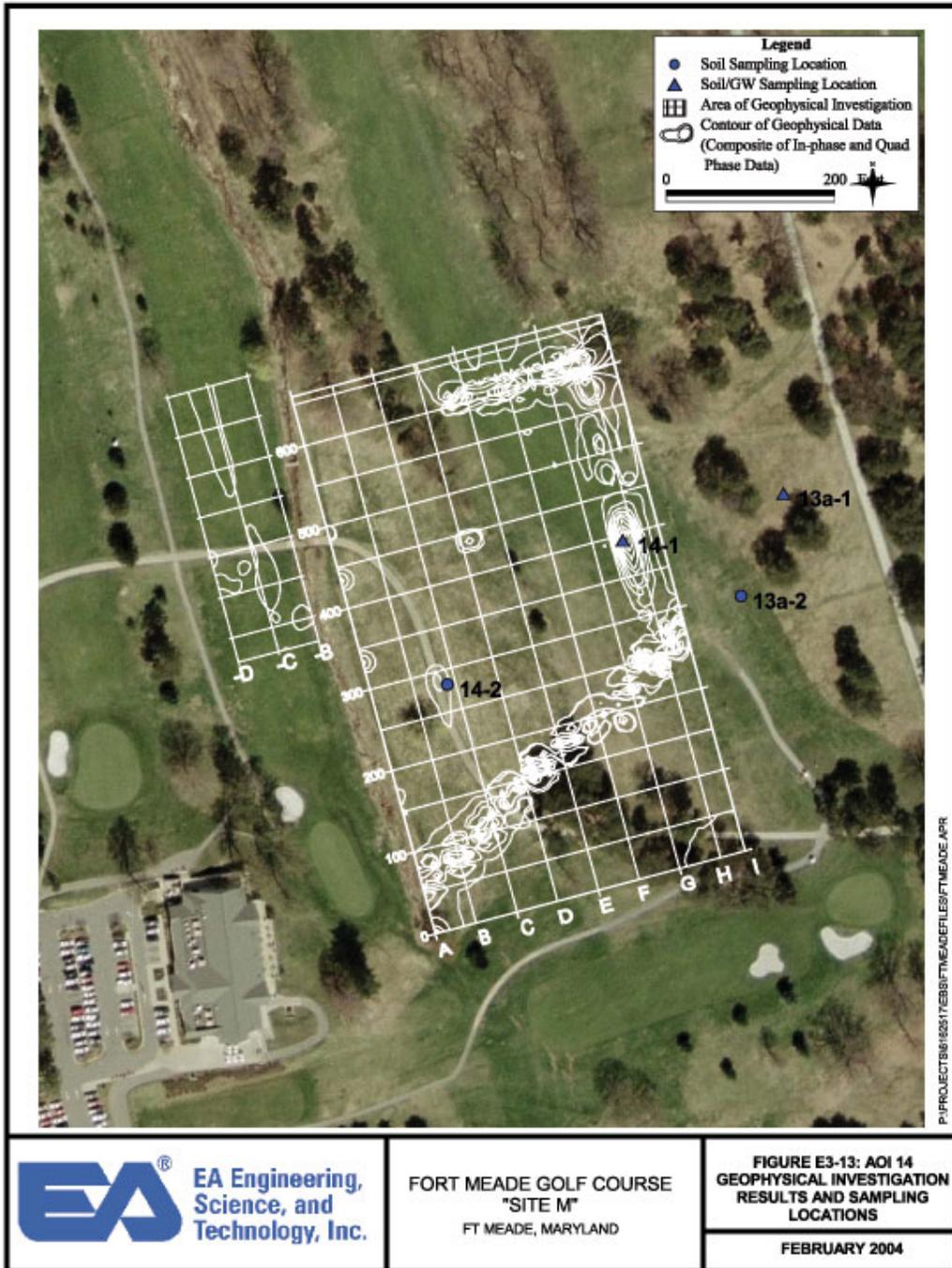


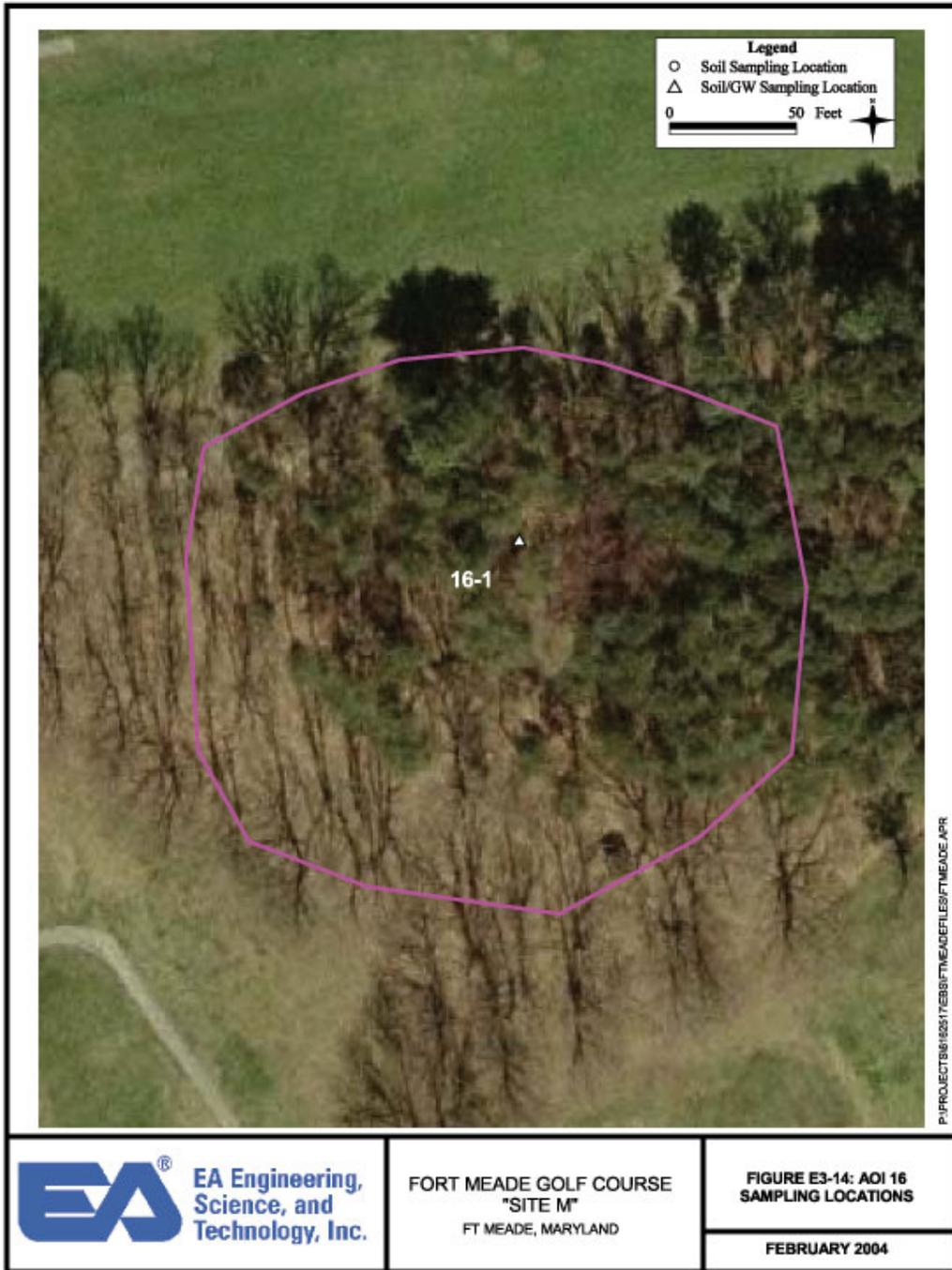


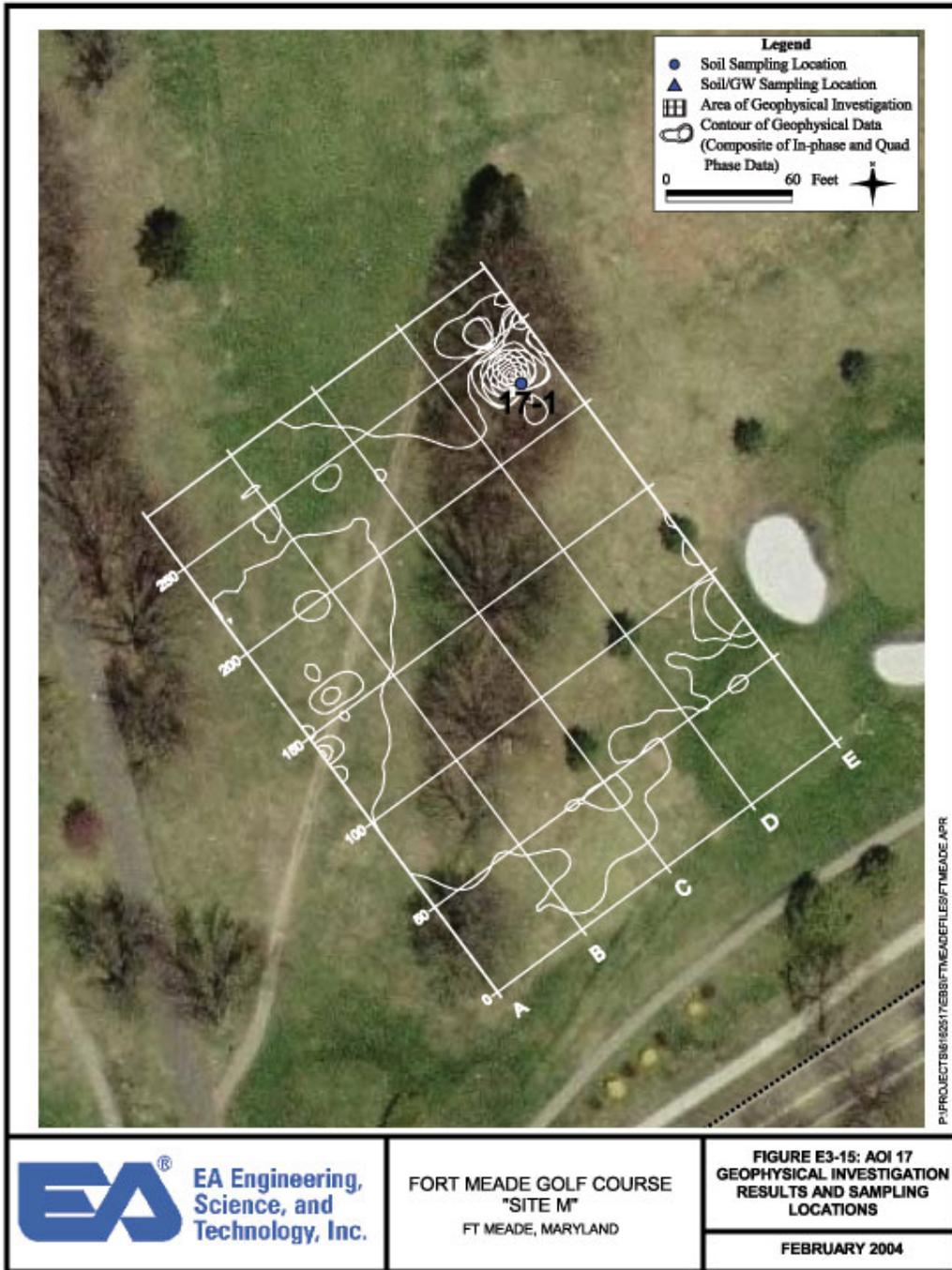














The strongest anomaly was linear, trending east/west, through the north-central portion of the area. The linear feature appears to be an underground utility line. Utility locators confirmed the presence of a line in this area. However, due to the obvious ground disturbance noticeable in this area on historical aerial photos, a sampling location was placed near the anomaly (Location 2-4).

Additional anomalies were located in the northeastern portion of the area (attributed to a convergence of utility lines, golf tee, bench near H+20/325) and the eastern and western areas of the southern half of the site. The anomaly in the western portion of the site, near D+25/175 is likely attributable to the mound of fill material that is being stored here. The fill appears to be soil, but some debris is visible as well. Location 2-1 was placed adjacent to and down slope of this fill pile.

A southern finger of the linear anomaly was encountered between the G and H line (west to east) and from 125 ft to 250 ft (south to north). Surface debris was not visible in this area, and the utility locator was not able to confirm the presence of a utility line. The cause of this anomaly is unknown. Sample location 2-5 was placed adjacent to the anomaly (at G+40/175) to evaluate potential impact from possible constituents. An additional anomaly was discovered in the vicinity of F260 during the geophysical survey performed by Versar. Therefore, an additional sampling location, 2-6, was placed in the vicinity of this anomaly.

E3.1.2 AOI 3

The grid for AOI 3 extended approximately 575 ft south to north and 100 ft west to east. The easternmost survey line was adjacent to the west side of Zimborski Avenue, north of the maintenance shop (Figure E3-3).

The largest anomaly was located adjacent to the road and was likely an artifact of the road and of metal debris adjacent to the road. Another anomaly, located near grid coordinate A+40/120 was attributed to a partially buried set of metal stairs. An empty 55-gallon metal drum also resulted in a strong in-phase response in the northern portion of the grid (near B+25/520). A single sampling location was placed adjacent to the drum in a low-lying area that would collect surface run-off from the area to the south.

E3.1.3 AOI 6

The grid established for AOI 6 extended approximately 250 ft south to north, and approximately 300 ft west to east (Figure E3-6). Quadrature and in-phase results were similar, indicating discontinuous, discrete, anomalies trending from the southwest to the northeast within the area. These anomalies correspond to locations of visible surface debris consisting of concrete, metal, and asphalt. Sampling locations 6-1 and 6-3 were placed at the two strongest anomalies. Sampling location 6-2 was placed in an area of surface debris that did not induce a response on the EM.

E3.1.4 AOI 8

Results of the meandering survey through AOI 8 indicated metallic anomalies scattered throughout the area. The density of the anomalies was low, and the sizes of the encountered anomalies were small. The identity of the anomalies could not be confirmed and the possible existence of ordnance or explosive related material can not be ruled out. Historical maps indicate that portions of AOI 8 were part of a former mortar range. Figure E3-8 illustrates those areas where magnetic anomalies were encountered.

Note that only the most severely disturbed portions of AOI 8, based upon review of aerial photographs, were included in the meandering survey (see Figure E3-8). There is the possibility that buried metallic items may be present in areas that were not surveyed. In addition, the resolution of a meandering survey is less than that of traditional survey methods. Although it can be stated with confidence that large metallic anomalies (greater than 15 ft in diameter) are not present in the areas that were surveyed, there may be additional small metallic articles present in the areas surveyed that were not encountered due to the design of the survey method.

E3.1.5 AOI 13

The grid established for the geophysical survey at AOI 13 extended approximately 960 ft north to south and approximately 350 ft east to west. The easternmost line was established along a jogging/cart path east of golf fairways 1A and 1P (Figure E2-1). Several large anomalies were encountered in the area. Several of these were linear and may be attributable to underground utility lines. For example, strong linear anomalies were encountered trending east/west in the northern portion of the area and northwest/southeast across the area. The northern anomaly, visually confirmed as a utility line, and the suspect northwest/southeast utility line, were not selected for sample location placement. The anomaly on the eastern perimeter of the area (along line A) is likely due to the cart path and was not included for sample location placement.

The strong anomaly in the center of the site may be due to intersecting underground utilities. However, the size of the anomaly indicates that other conductive material may be present. Therefore, a sampling location (13-2) was placed adjacent to the anomaly and was targeted for both soil and groundwater sample collection. The second sampling location (13-1) in this area was placed due to a topographic low on the site, and was not selected based on the geophysical survey results.

E3.1.6 AOI 13A

The grid established for AOI 13A extended approximately 660 ft south to north and 240 ft east to west, and was placed adjacent to and west of a jogging trail/cart path west of fairway 4A (Figure E3-12).

The strongest anomalies were encountered trending east/west in the northern portion of the area, and in a comma shape in the center of the area. The northern anomaly is likely attributable to an underground utility line and continues to the west, beyond the western

boundary of the survey in this AOI. This anomaly is continuous with the anomaly encountered in the northern portion of AOI 14 (Section E3.1.7). An additional anomaly, trending north/south on the eastern perimeter of the grid (along line A), is likely attributable to the cart path.

There was no visible evidence of utility lines (i.e., manhole covers) or debris in the vicinity of the central anomaly. However, a weak signal was encountered in this vicinity during the utility clearance of the area. This may be indicative of a line constructed of non-conductive material or an abandoned utility line. Because the identity of the anomaly could not be confidently established, two sampling locations were placed in the vicinity of this anomaly. The first (13A-1) was placed near the center of the anomaly. Location 13A-2 was placed near the southwestern extension of the anomaly.

E3.1.7 AOI 14

The geophysical survey for AOI 14 was bisected in the western portion of the area by Midway Branch (Figure E3-13). Therefore, an eastern and western survey grid was established, with Midway Branch separating the two sub-areas. The eastern, larger, portion of the survey grid extended approximately 660 ft south to north and approximately 350 ft west to east. The western, smaller, grid extended 350 ft south to north, and 120 ft east to west. There were no significant anomalies encountered in the smaller, western grid.

Several large, strong, anomalies were encountered in the eastern survey area. Two of the anomalies were linear and are likely underground utilities. The first was located, trending east/west, in the northern portion of the AOI. This anomaly continues east into AOI 13A. The second linear anomaly trends northeast/southwest through the southern portion of the AOI.

A third large anomaly was encountered along the eastern boundary of the survey area. The shape of the anomaly does not indicate a probable utility. The cause of the anomaly is unknown. Therefore, a sampling location (14-1) was placed here.

An additional, small anomaly, appearing in the in-phase results, was encountered adjacent to and east of a cart path traversing the area. The cause of the anomaly could not be attributed to visible features. Therefore, the second sampling location for this area (14-2) was placed adjacent to this anomaly.

E3.1.8 AOI 17

The grid for the geophysical survey performed in AOI 17 extended approximately 280 ft south to north, and 200 ft west to east. One strong anomaly was encountered in the northeastern portion of the survey area. This anomaly was selected as a target sampling location for collection of subsurface soil.

E3.2 SITE GEOLOGY AND HYDROGEOLOGY

Soil borings were installed to a maximum depth of 27 ft during the limited SI. Typically, orange-brown sand, varying from clean, medium to coarse, to silty and clayey sand was encountered. Intercalated intervals of sub-rounded gravel, very light beige-gray silt, or light gray or red clay were encountered in some borings. Site soil and lithology was consistent with that described for the lower unit of the Patapsco formation. Although intermittent intervals of the clay that typify the middle unit of the Patapsco formation were encountered in several borings, the intervals were small, indicating that the actual unit was not encountered.

Groundwater was encountered in approximately 50 percent of the borings installed during the limited SI. Perched groundwater was often observed above intercalated clay or fine silt layers.

E3.3 RESULTS OF LABORATORY ANALYSES

The following discussion is a summary of the results, discussing the distribution of reported constituents on an AOI basis. Tables E3-1 and E3-4 present reported constituents in quality assurance samples and site samples. For ease of review, if an analyte was not detected in any of the submitted samples, the results are not included on these tables. Attachment D provides the laboratory data summary tables for all analytical results, regardless of whether the analyte was detected. The first page of Attachment D presents the definitions of data qualifiers used by the laboratory.

Results are discussed in reference to Maryland Department of Environment (MDE) cleanup standards for soil and groundwater. These standards are based on potential risk to human health and were developed by MDE to represent concentration levels at which no further remedial action would be required. The values mirror the U.S. Environmental Protection Agency (EPA) Region III Risk-Based Concentration (RBC) values developed on a standard EPA residential exposure scenario. These standards are guidance values only and are not promulgated, but may be proposed for inclusion into Maryland law in the future. Note that the standards do not take into account possible adverse effects on potential ecological receptors at the site. At properties where ecological receptors may be of concern, MDE recommends an ecological risk assessment.

Alternatively, reference values (often described as “background” values) for several metals have been developed by MDE and are used as alternative comparison criteria to assess potential impact to the site. These reference values are defined as Anticipated Typical Concentrations (ATCs) and represent the mean concentration of the metal plus one standard deviation, as determined through collection and analysis of samples gathered in three separate regions of the state (Eastern Maryland, Central Maryland, and Western Maryland). The ATC developed for Eastern Maryland was utilized for comparison to results of site samples (MDE 2001). These ATC values are greater than the MDE standard, but represent background metals concentrations and are, therefore, acceptable for use as a screening value.

Typically, for sites included in the Maryland Voluntary Cleanup Program (VCP) or State Superfund Program, exceedance of the standards would mandate a remedial response, or demonstration of acceptable risk for current or intended property use through a traditional human health risk assessment.

E3.3.1 Data Quality Analysis

Groundwater and soil samples were submitted to GPL Laboratory in four separate batches. As is typical, analysis of quality control samples, such as surrogates, laboratory control samples, method blanks, sample spikes, were performed for each batch to assess potential bias and precision. A qualitative review of the analysis of quality control samples was performed to assess potential impact to data usability. A detail of the review is presented in Attachment E. Overall, the assessment concluded that there was no impact to data usability.

Below is a discussion of the possible impact to data based upon results of the analysis of field quality control samples.

E3.3.2 Trip Blanks

Methylene chloride, carbon disulfide, and acetone were reported in the trip blanks submitted with the sample aliquots for VOC analysis (Table E3-1). Acetone and methylene chloride are common laboratory contaminants. Their presence in the trip blanks indicates that the reported concentrations in the normal samples are suspect. The contamination may have occurred during transport or through an artifact of the laboratory analysis. Carbon disulfide was not reported in the site groundwater samples. Therefore, the reported concentration in the trip blank is insignificant.

E3.3.3 Rinsate Blank

Oil and grease, DRO, methylene chloride, two phthalates, and some metals were reported in the rinsate blank (Table E3-1). The reported metals were qualified with a “B” indicating that the concentration was below the reporting limit, but greater than the instrument detection limit. The “J” qualifier on the phthalate results also indicate an estimated concentration. The concentration of methylene chloride was qualified with a “B” indicating that the compound was also reported in the associated laboratory blank and is likely an artifact of method carry-over.

The concentrations reported for oil and grease (7.4 milligrams per liter (mg/L)) and DRO (0.2 mg/L) were not qualified and indicate the presence of these analytes in concentrations exceeding the reporting limit. The concentration of oil and grease in the rinsate blank was comparable to the concentrations reported in all (ranging from 5.8 milligrams per kilogram (mg/kg) to 16 mg/kg) but one of the soil samples (5-1-0-0.5 at a concentration of 180 mg/kg). This indicates that the oil and grease may be due to carry-over from incomplete decontamination in all but sample 5-1-0-0.5.

**TABLE E3-1: SUMMARY OF REPORTED CONSTITUENTS
IN TRIP BLANKS AND RINSE BLANKS**

Analyte	MDE	Unit	RINSE BLANK	TRIPBLANKA	TRIP BLANKB	TRIP BLANK	TRIP BLANK
			12/30/2003	12/16/2003	12/19/2003	12/22/2003	12/30/2003
VOC							
Acetone	N/A	ug/L	10 U	10 U	13	10	12
Carbon Disulfide	100	ug/L	5 U	5 U	1.1 J	5 U	5 U
Methylene Chloride	5	ug/L	14 B	2.4 JB	2.7 JB	1.7 JB	11 B
SVOC							
bis(2-Ethylhexyl) Phthalate	20	ug/L	1.7 J	NA	NA	NA	NA
di-n-Butyl Phthalate	370	ug/L	1.6 J	NA	NA	NA	NA
Metals							
Antimony	6	ug/L	2.6 B	NA	NA	NA	NA
Barium	2000	ug/L	0.38 B	NA	NA	NA	NA
Calcium	N/A	ug/L	127 B	NA	NA	NA	NA
Magnesium	N/A	ug/L	19.9 B	NA	NA	NA	NA
Manganese	50	ug/L	2.4 BE	NA	NA	NA	NA
Sodium	N/A	ug/L	259 B	NA	NA	NA	NA
Vanadium	50	ug/L	0.51 B	NA	NA	NA	NA
Zinc	1100	ug/L	3.5 B	NA	NA	NA	NA
General Chemistry							
Oil & Grease, Total Recovered	N/A	mg/L	7.4	NA	NA	NA	NA
TPH-DRO	0.047	mg/L	0.2	NA	NA	NA	NA

Definition of qualifiers located in Attachment D
Shading indicates exceedance of MDE standard

E3.3.4 Duplicate Analyses

A quantitative evaluation of the precision between duplicate soil and groundwater analyses is presented in Tables E3-2 and E3-3, respectively. The evaluation was performed by calculating the relative percent difference (RPD) between the results from the duplicate and the normal sample, and could only be performed for those analytes that were reported in both the normal and duplicate sample. Generally, there was good agreement between the samples, as defined by a RPD of less than 20 percent (EPA 2002). However, the majority of the RPDs for metals in both soil and groundwater exceeded 20 percent indicating low precision. This may be due to matrix effects or, for soil, incomplete homogenization of the sample prior to splitting for duplicate analysis.

Although data is still usable, it is cautioned that metals reported in concentrations less than, but close to, cleanup standards, may actually be in exceedance of the standard. Conversely, concentrations of metals exceeding cleanup standards by just a small margin (for example, arsenic in soil) may not be present in concentrations of concern.

E3.3.5 AOI 1

Reported constituents in soil and groundwater are presented in Table E3-4 and E3-5, respectively.

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TABLE E3-2 EVALUATION OF SOIL DUPLICATE ANALYSES

Sample Name:	1-2-3.5-5.0	03-DE-29-DP1	RPD	2-6-2-4	03-DE-30-DP2	RPD	13A-1-3-5.5	SO-DUP1	RPD	GREEN-SS-2	GREEN-DUP1	RPD	
Sample Date:	12/29/2003	12/29/2003	(%)	12/30/2003	12/30/2003	(%)	12/16/2003	12/16/2003	(%)	12/18/2003	12/18/2003	(%)	
Parent Name:		1-2-3.5-5.0			2-6-2-4			13A-1-3-5.5			GREEN-SS-2		
Analyte	Unit												
VOC													
1,1,1-Trichloroethane	ug/kg	2 J	2.3 J	14	2.2 J	1.8 J	20	5.7 U	5.7 U	NA	NA	NA	NA
Acetone	ug/kg	12 U	11 U	9	12 U	12 U	NA	11 U	11 U	NA	NA	NA	NA
Carbon Disulfide	ug/kg	5.8 U	5.7 U	2	5.8 U	5.9 U	2	5.7 U	5.7 U	NA	NA	NA	NA
Dichloromethane	ug/kg	11 JB	11 JB	NA	12 B	10 JB	18	3 JB	3.2 JB	6	NA	NA	NA
SVOC													
1,2-Benzphenanthracene	ug/kg	380 U	380 U	NA	52 J	400 U	NA	380 U	380 U	NA	NA	NA	NA
2-Methylnaphthalene	ug/kg	380 U	380 U	NA	46 J	61 J	28	380 U	380 U	NA	NA	NA	NA
Benzaldehyde	ug/kg	380 U	380 U	NA	390 U	400 U	NA	380 U	380 U	NA	NA	NA	NA
Benzo(a)anthracene	ug/kg	380 U	380 U	NA	57 J	400 U	NA	380 U	380 U	NA	NA	NA	NA
Benzo(a)pyrene	ug/kg	380 U	380 U	NA	47 J	400 U	NA	380 U	380 U	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/kg	380 U	380 U	NA	73 J	400 U	NA	380 U	380 U	NA	NA	NA	NA
bis(2-Ethylhexyl) Phthalate	ug/kg	380 U	380 U	NA	390 U	400 U	NA	380 U	380 U	NA	NA	NA	NA
Diethyl Phthalate	ug/kg	380 U	380 U	NA	390 U	9100	NA	380 U	380 U	NA	NA	NA	NA
Fluoranthene	ug/kg	380 U	380 U	NA	110 J	71 J	43	380 U	380 U	NA	NA	NA	NA
Naphthalene	ug/kg	380 U	380 U	NA	390 U	400 U	NA	380 U	380 U	NA	NA	NA	NA
Nitrobenzene	ug/kg	380 U	380 U	NA	390 U	400 U	NA	380 U	380 U	NA	NA	NA	NA
Phenanthrene	ug/kg	380 U	380 U	NA	110 J	74 J	39	380 U	380 U	NA	NA	NA	NA
Pyrene	ug/kg	380 U	380 U	NA	84 J	400 U	NA	380 U	380 U	NA	NA	NA	NA
Pest/PCB													
4,4-DDD	ug/kg	1.9 U	1.9 U	NA	1.9 U	0.7 JP	NA	1.9 U	1.9 U	NA	11 U	11 U	NA
4,4-DDE	ug/kg	1.9 U	1.9 U	NA	1.9 U	2.4	NA	1.9 U	1.9 U	NA	11 U	11 U	NA
4,4-DDT	ug/kg	1.9 U	1.9 U	NA	1.9 U	2.4 P	NA	1.9 U	1.9 U	NA	11 U	11 U	NA
alpha-BHC	ug/kg	1.9 U	1.9 U	NA	1.9 U	2 U	NA	1.9 U	1.9 U	NA	11 U	11 U	NA
alpha-Chlordane	ug/kg	1.9 U	1.9 U	NA	1.9 U	2 U	NA	1.9 U	1.9 U	NA	200 P	180 P	11
delta-BHC	ug/kg	1.9 U	1.9 U	NA	1.9 U	2 U	NA	1.9 U	1.9 U	NA	11 U	11 U	NA
Dieldrin	ug/kg	1.9 U	1.9 U	NA	1.9 U	2 U	NA	1.9 U	1.9 U	NA	6.6 J	6.6 J	NA
Endosulfan Sulfate	ug/kg	1.9 U	1.9 U	NA	1.9 U	2 U	NA	1.9 U	1.9 U	NA	11 U	11 U	NA
Endrin Ketone	ug/kg	1.9 U	1.9 U	NA	1.9 U	2 U	NA	1.9 U	1.9 U	NA	11 U	11 U	NA
gamma-BHC	ug/kg	1.9 U	1.9 U	NA	1.9 U	2 U	NA	1.9 U	1.9 U	NA	11 U	11 U	NA
gamma-Chlordane	ug/kg	1.9 U	1.9 U	NA	1.9 U	2 U	NA	1.9 U	1.9 U	NA	54	58	7
Heptachlor	ug/kg	1.9 U	1.9 U	NA	1.9 U	2 U	NA	1.9 U	1.9 U	NA	11 U	11 U	NA
Heptachlor Epoxide	ug/kg	1.9 U	1.9 U	NA	1.9 U	2 U	NA	1.9 U	1.9 U	NA	44 P	41 P	7
PCB-1260	ug/kg	38 U	38 U	NA	39 U	40 U	NA	38 U	38 U	NA	NA	NA	NA

Definition of qualifiers located in Attachment D

Shading provided for ease of review of RPD and does not represent exceedance of standards

TABLE E3-2 EVALUATION OF SOIL DUPLICATE ANALYSES

Sample Name:	1-2-3.5-5.0	03-DE-29-DP1	RPD	2-6-2-4	03-DE-30-DP2	RPD	13A-1-3-5.5	SO-DUP1	RPD	GREEN-SS-2	GREEN-DUP1	RPD	
Sample Date:	12/29/2003	12/29/2003	(%)	12/30/2003	12/30/2003	(%)	12/16/2003	12/16/2003	(%)	12/18/2003	12/18/2003	(%)	
Parent Name:		1-2-3.5-5.0			2-6-2-4			13A-1-3-5.5			GREEN-SS-2		
Explosives													
2,4,6-Trinitrotoluene	ug/kg	100 U	100 U	NA	100 U	100 U	NA	100 U	100 U	NA	NA	NA	NA
Nitrobenzene	ug/kg	100 U	100 U	NA	35 J	100 U	NA	38 J	100 U	NA	NA	NA	NA
RDX	ug/kg	200 U	200 U	NA	200 U	200 U	NA	200 U	200 U	NA	NA	NA	NA
Metals													
Aluminum	mg/kg	2500 N	2450 N	2	4700 N	3610 N	26	3180	2900	9	NA	NA	NA
Antimony	mg/kg	0.31 BN	0.32 BN	3	0.52 BN	0.45 BN	14	0.26 BN	0.22 UN	NA	NA	NA	NA
Arsenic	mg/kg	1.2 B	1.8	40	3.5	7.1	68	1.6	1.7	6	NA	NA	NA
Barium	mg/kg	13.6	14.6	7	27.6	31.3	13	20.4	30.8	41	NA	NA	NA
Beryllium	mg/kg	0.0094 U	0.02 B	NA	0.13 B	0.12 B	8	0.13 B	0.12 B	8	NA	NA	NA
Cadmium	mg/kg	0.02 U	0.02 U	NA	0.02 U	0.02 U	NA	0.01 U	0.01 U	NA	NA	NA	NA
Calcium	mg/kg	78.1 B	104	28	694	382	58	133	116	14	NA	NA	NA
Chromium	mg/kg	5.5	8	37	14	23.9	52	12.6	12.2	3	NA	NA	NA
Cobalt	mg/kg	0.26 B	0.83	105	2.5	0.48	136	0.13 B	0.14 B	7	NA	NA	NA
Copper	mg/kg	4.4	4.9	11	16.7	22.8	31	12.3	12.3	NA	NA	NA	NA
Iron	mg/kg	2580 N	4000 N	43	7620 N	9420 N	21	1590	1980	22	NA	NA	NA
Lead	mg/kg	2.4	2.7	12	17.3	12.7	31	6.6	5.9	11	NA	NA	NA
Magnesium	mg/kg	106	130	20	295	120	84	80.1	75.6	6	NA	NA	NA
Manganese	mg/kg	5.4	21.2	119	29.8	8.3	113	3.6	4.4	20	NA	NA	NA
Mercury	mg/kg	0.01 U	0.01 U	NA	0.04	0.03	29	0.01 U	0.01 U	NA	NA	NA	NA
Nickel	mg/kg	0.53 B	0.81 B	42	4.5	1.6	95	0.4 B	0.49 B	20	NA	NA	NA
Potassium	mg/kg	461 N	296 N	44	448 N	912 N	68	612 N	514 N	17	NA	NA	NA
Selenium	mg/kg	0.26 U	0.25 U	NA	0.25 U	0.49 B	NA	0.25 U	0.23 U	NA	NA	NA	NA
Silver	mg/kg	0.04 U	0.04 U	NA	0.04 U	0.04 U	NA	0.05 U	0.04 U	NA	NA	NA	NA
Sodium	mg/kg	90.1 B	81.1 B	11	72.5 B	75.6 B	4	60.9 B	49.4 B	21	NA	NA	NA
Thallium	mg/kg	0.38 U	0.37 U	3	0.36 U	0.39 U	NA	0.39 U	0.37 U	NA	NA	NA	NA
Vanadium	mg/kg	8.3	15.1	58	22.4	79.5	112	23.1	20.1	14	NA	NA	NA
Zinc	mg/kg	2.3	7.3	104	18.5	6.8	92	4.6	5.6	20	NA	NA	NA
General Chemistry													
Oil & Grease, Total Recovered	mg/kg	5.7 U	5.6 U	2	5.6 U	7.7	NA	5.6 U	5.5 U	NA	NA	NA	NA
TPH-DRO	mg/kg	7	5.7	20	10	14	33	4.6	4.8	4	NA	NA	NA
TPH-GRO	ug/kg	120 U	120 U	NA	120 U	120 U	NA	110 U	110 U	NA	NA	NA	NA

Definition of qualifiers located in Attachment D

Shading provided for ease of review of RPD and does not represent exceedance of standards

TABLE E3-3: EVALUATION OF DUPLICATE GROUNDWATER ANALYSES

			Sample Name:	8-4	03-DE-22-DP1	RPD
			Sample Date:	12/22/2003	12/22/2003	(%)
			Parent Name:		8-4	
Analyte	Unit	T/D				
VOC						
Methylene Chloride	ug/L	N	1.4 JB	10 U	NA	
SVOC						
bis(2-Ethylhexyl) Phthalate	ug/L	N	1.5 JB	1.9 JB	24	
di-n-Butyl Phthalate	ug/L	N	10 U	2.1 JB	NA	
Metals						
Aluminum	ug/L	T	225	531	81	
Antimony	ug/L	T	2.9 B	1.9 U	NA	
Barium	ug/L	T	50	77.9	44	
Calcium	ug/L	T	6620	6790	3	
Chromium	ug/L	T	0.8 B	0.5 B	46	
Cobalt	ug/L	T	114	49.6	79	
Copper	ug/L	T	0.89 B	2.4 B	92	
Iron	ug/L	T	2420	1320	59	
Magnesium	ug/L	T	1790	1910	6	
Manganese	ug/L	T	1460 E	780 E	61	
Nickel	ug/L	T	16.2	12.8	23	
Potassium	ug/L	T	975	789	21	
Sodium	ug/L	T	1650 B	1550 B	6	
Zinc	ug/L	T	125	102	20	
General Chemistry						
Oil & Grease, Total Recovered	mg/L	N	10	11	10	
TPH-DRO	mg/L	N	0.22	0.24	9	

Definition of qualifiers located in Attachment D

Shading provided for ease of review of RPD and does not indicate exceedance of standards

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TABLE E3-4 SUMMARY OF REPORTED CONSTITUENTS IN SOIL

							Sample Name:	1-1-6-8	1-2-3.5-5.0	03-DE-29-DP1	1-3-6-8	1-4-6-8	1-5-4-6
							Sample Date:	12/30/2003	12/29/2003	12/29/2003	12/30/2003	12/22/2003	12/22/2003
							Parent Name:			1-2-3.5-5.0			
Analyte	MDE Residential	MDE Non-Residential	MDE GW Protection	Back-ground	Meade Bkgnd	Unit							
VOC													
1,1,1-Trichloroethane	2200000	57000000	60000	N/A		ug/kg	1.9 J	2 J	2.3 J	1.7 J	5.2 U	5.3 U	
Acetone	N/A		N/A	N/A		ug/kg	11 U	12 U	11 U	4.8 JB	10 U	5.5 J	
Carbon Disulfide	780000	20000000	19000	N/A		ug/kg	5.7 U	5.8 U	5.7 U	5.7 U	5.2 U	5.3 U	
Methylene Chloride	85000	760000	19	N/A		ug/kg	9.9 JB	11 JB	11 JB	11 JB	5.4 JB	6.4 JB	
SVOC													
1,2-Benzphenanthracene	87000	780000	150000	N/A		ug/kg	380 U	380 U	380 U	380 U	350 U	360 U	
2-Methylnaphthalene	160000	4100000	22000	N/A		ug/kg	380 U	380 U	380 U	380 U	350 U	360 U	
Benzaldehyde	N/A		N/A	N/A		ug/kg	380 U	380 U	380 U	380 U	350 U	360 U	
Benzo(a)anthracene	870	7800	1500	N/A		ug/kg	380 U	380 U	380 U	380 U	350 U	360 U	
Benzo(a)pyrene	330	780	370	N/A		ug/kg	380 U	380 U	380 U	380 U	350 U	360 U	
Benzo(b)fluoranthene	870	7800	4500	N/A		ug/kg	380 U	380 U	380 U	380 U	350 U	360 U	
bis(2-Ethylhexyl) Phthalate	46000	410000	2900000	N/A		ug/kg	380 U	380 U	380 U	380 U	350 U	360 U	
Diethyl Phthalate	6300000	160000000	450000	N/A		ug/kg	380 U	380 U	380 U	380 U	350 U	360 U	
Fluoranthene	310000	8200000	6300000	N/A		ug/kg	380 U	380 U	380 U	380 U	350 U	360 U	
Naphthalene	160000	4100000	330	N/A		ug/kg	380 U	380 U	380 U	380 U	350 U	360 U	
Nitrobenzene	3900	100000	670	N/A		ug/kg	380 U	380 U	380 U	380 U	350 U	360 U	
Phenanthrene	2300000	61000000	470000	N/A		ug/kg	380 U	380 U	380 U	380 U	350 U	360 U	
Pyrene	230000	6100000	680000	N/A		ug/kg	380 U	380 U	380 U	380 U	350 U	360 U	
Pesticides/PCB													
4,4-DDD	2700	24000	11000	N/A		ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.7 U	1.8 U	
4,4-DDE	1900	17000	35000	N/A		ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.7 U	1.8 U	
4,4-DDT	1900	17000	1200	N/A		ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.7 U	1.8 U	
alpha-BHC	100	910	4	N/A		ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.7 U	1.8 U	
alpha-Chlordane	1800	16000	920	N/A		ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.7 U	1.8 U	
delta-BHC	490	4400	4.3	N/A		ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.7 U	1.8 U	
Dieldrin	40	360	4	N/A		ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.7 U	1.8 U	
Endosulfan Sulfate	47000	1200000	20000	N/A		ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.7 U	1.8 U	
Endrin Ketone	2300	61000	5400	N/A		ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.7 U	1.8 U	
gamma-BHC	490	4400	4.3	N/A		ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.7 U	1.8 U	
gamma-Chlordane	1800	16000	920	N/A		ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.7 U	1.8 U	
Heptachlor	140	1300	840	N/A		ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.7 U	1.8 U	
Heptachlor Epoxide	70	630	25	N/A		ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.7 U	1.8 U	
PCB-1260	320	2900	N/A	N/A		ug/kg	38 U	38 U	38 U	38 U	35 U	36 U	
Explosives													
2,4,6-Trinitrotoluene	N/A		N/A	N/A		ug/kg	100 U	100 U	100 U	100 U	58 J	100 U	
Nitrobenzene	3900	100000	670	N/A		ug/kg	100 U	100 U	100 U	100 U	36 J	33 J	
RDX	N/A		N/A	N/A		ug/kg	200 U	200 U	200 U	200 U	200 U	200 U	

Shading = > MDE Residential Soil and/or Protection of Groundwater Standard

Italicized = > the ATC

Bold Border = > the MDE Non-Residential Standard

See Att D for qualifiers

TABLE E3-4 SUMMARY OF REPORTED CONSTITUENTS IN SOIL

							Sample Name:	1-1-6-8	1-2-3.5-5.0	03-DE-29-DP1	1-3-6-8	1-4-6-8	1-5-4-6
							Sample Date:	12/30/2003	12/29/2003	12/29/2003	12/30/2003	12/22/2003	12/22/2003
							Parent Name:			1-2-3.5-5.0			
Analyte	MDE Residential	MDE Non-Residential	MDE GW Protection	Back-ground	Meade Bkgnd	Unit							
Metals													
Aluminum	7800	200000	N/A	11000	3300	mg/kg	3380 N	2500 N	2450 N	5950 N	5400	995	
Antimony	12	82	N/A	N/A	0.387	mg/kg	0.61 BN	0.31 BN	0.32 BN	0.32 BN	0.24 B	0.25 U	
Arsenic	2	3.8	N/A	3.6	1.67	mg/kg	5.4	1.2 B	1.8	1.6 B	3.4	1.6 B	
Barium	550	14000	N/A	N/A	16.8	mg/kg	10.3	13.6	14.6	25.8	14.7	5.7	
Beryllium	16	410	N/A	N/A	1.6	mg/kg	0.05 B	0.0094 U	0.02 B	0.09 B	0.17	0.04 B	
Cadmium	3.9	100	N/A	N/A	0.057	mg/kg	0.05 U	0.02 U	0.02 U	0.02 U	0.09 B	0.03 B	
Calcium	N/A		N/A	N/A	46.4	mg/kg	40.4 B	78.1 B	104	256	209	156	
Chromium	23	610	N/A	28	17.3	mg/kg	19.9	5.5	8	10.2	16.7 E	3.4 E	
Cobalt	160	4100	N/A	N/A	4.5	mg/kg	0.21 B	0.26 B	0.83	0.87	1.4	0.57	
Copper	310	8200	N/A	N/A	39.2	mg/kg	8.4	4.4	4.9	3.7	6.9	1.8	
Iron	2300	61000	N/A	15000	33154	mg/kg	19300 N	2580 N	4000 N	4350 N	7860	1760	
Lead	400	400	N/A	N/A	3.58	mg/kg	3.7	2.4	2.7	5.5	3.1	1.6	
Magnesium	N/A		N/A	N/A	400	mg/kg	128	106	130	327	352	66.7	
Manganese	160	4100	N/A	480	54	mg/kg	7.6	5.4	21.2	16.9	27.8	18.1	
Mercury	0.1	0.12	N/A	0.51	0.0047	mg/kg	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 B	
Nickel	160	4100	N/A	N/A	3.92	mg/kg	0.57 B	0.53 B	0.81 B	1.8	2.7	0.2 B	
Potassium	N/A		N/A	N/A	453	mg/kg	331 N	461 N	296 N	560 N	243	75.4	
Selenium	39	1000	N/A	N/A	0.27	mg/kg	0.25 B	0.26 U	0.25 U	0.24 U	0.25 U	0.27 U	
Silver	39	1000	N/A	N/A	0.07	mg/kg	0.04 U	0.04 U	0.04 U	0.04 U	0.05 U	0.05 U	
Sodium	N/A		N/A	N/A	25.9	mg/kg	59 B	90.1 B	81.1 B	63.7 B	61.9 B	55.7 B	
Thallium	2	14	N/A	3.8	0.2	mg/kg	0.63 B	0.38 U	0.37 U	0.35 U	0.39 U	0.42 U	
Vanadium	55	1400	N/A	N/A	23.2	mg/kg	37.3	8.3	15.1	13.2	14.5	6.8	
Zinc	2300	61000	N/A	N/A	33.5	mg/kg	5.3	2.3	7.3	15.3	8.9	2.1	
General Chemistry													
Oil & Grease, Total	N/A		N/A	N/A		mg/kg	5.6 U	5.7 U	5.6 U	5.5 U	5.1 U	5.2 U	
TPH-DRO	230	620	N/A	N/A		mg/kg	8.2	7	5.7	5.5	3.4	8.6	
TPH-GRO	230000	620000	N/A	N/A		ug/kg	110 U	120 U	120 U	120 U	100 U	110 U	

Shading = > MDE Residential Soil and/or Protection of Groundwater Standard

Italicized = > the ATC

Bold Border = > the MDE Non-Residential Standard

See Att D for qualifiers

TABLE E3-4 SUMMARY OF REPORTED CONSTITUENTS IN SOIL

							Sample Name:	2-1-0.9-2.2	2-2-12-16	2-3-6.5-8	2-4-7-8.5	2-5-10.5-12	2-6-2-4
							Sample Date:	12/16/2003	12/15/2003	12/16/2003	12/16/2003	12/16/2003	12/30/2003
							Parent Name:						
Analyte	MDE Residential	MDE Non-Residential	MDE GW Protection	Back-ground	Meade Bkgnd	Unit							
VOC													
1,1,1-Trichloroethane	2200000	57000000	60000	N/A		ug/kg	5.3 U	5.5 U	5.5 U	5.7 U	5.2 U	2.2 J	
Acetone	N/A		N/A	N/A		ug/kg	11 U	11 U	11 U	8.6 J	10 U	12 U	
Carbon Disulfide	780000	20000000	19000	N/A		ug/kg	5.3 U	5.5 U	5.5 U	5.7 U	5.2 U	5.8 U	
Methylene Chloride	85000	760000	19	N/A		ug/kg	7.7 JB	2.7 JB	3.9 JB	8.7 JB	2.7 JB	12 B	
SVOC													
1,2-Benzphenanthracene	87000	780000	150000	N/A		ug/kg	90 J	360 U	370 U	380 U	350 U	52 J	
2-Methylnaphthalene	160000	4100000	22000	N/A		ug/kg	170 J	360 U	370 U	380 U	350 U	46 J	
Benzaldehyde	N/A		N/A	N/A		ug/kg	360 U	360 U	370 U	380 U	14000	390 U	
Benzo(a)anthracene	870	7800	1500	N/A		ug/kg	63 J	360 U	370 U	380 U	350 U	57 J	
Benzo(a)pyrene	330	780	370	N/A		ug/kg	54 J	360 U	370 U	380 U	350 U	47 J	
Benzo(b)fluoranthene	870	7800	4500	N/A		ug/kg	91 J	360 U	370 U	380 U	350 U	73 J	
bis(2-Ethylhexyl) Phthalate	46000	410000	2900000	N/A		ug/kg	360 U	360 U	370 U	99 J	43 J	390 U	
Diethyl Phthalate	6300000	160000000	450000	N/A		ug/kg	360 U	360 U	370 U	380 U	350 U	390 U	
Fluoranthene	310000	8200000	6300000	N/A		ug/kg	110 J	360 U	370 U	380 U	350 U	110 J	
Naphthalene	160000	4100000	330	N/A		ug/kg	100 J	360 U	370 U	380 U	350 U	390 U	
Nitrobenzene	3900	100000	670	N/A		ug/kg	360 U	360 U	370 U	380 U	350 U	390 U	
Phenanthrene	2300000	61000000	470000	N/A		ug/kg	130 J	360 U	370 U	380 U	350 U	110 J	
Pyrene	230000	6100000	680000	N/A		ug/kg	120 J	360 U	370 U	380 U	350 U	84 J	
Pesticides/PCB													
4,4-DDD	2700	24000	11000	N/A		ug/kg	24 P	1.8 U	1.8 U	16	0.33 J	1.9 U	
4,4-DDE	1900	17000	35000	N/A		ug/kg	24	1.8 U	1.8 U	8.9	0.32 J	1.9 U	
4,4-DDT	1900	17000	1200	N/A		ug/kg	26 *P	1.8 U	1.8 U	2.5 *	0.35 J*P	1.9 U	
alpha-BHC	100	910	4	N/A		ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.7 U	1.9 U	
alpha-Chlordane	1800	16000	920	N/A		ug/kg	4.7 P	1.8 U	3.9	1.9 U	1.7 U	1.9 U	
delta-BHC	490	4400	4.3	N/A		ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.7 U	1.9 U	
Dieldrin	40	360	4	N/A		ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.7 U	1.9 U	
Endosulfan Sulfate	47000	1200000	20000	N/A		ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.7 U	1.9 U	
Endrin Ketone	2300	61000	5400	N/A		ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.7 U	1.9 U	
gamma-BHC	490	4400	4.3	N/A		ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.7 U	1.9 U	
gamma-Chlordane	1800	16000	920	N/A		ug/kg	5 P	1.8 U	3.1	1.9 U	1.7 U	1.9 U	
Heptachlor	140	1300	840	N/A		ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.7 U	1.9 U	
Heptachlor Epoxide	70	630	25	N/A		ug/kg	1.8 U	1.8 U	0.61 J	1.9 U	1.7 U	1.9 U	
PCB-1260	320	2900	N/A	N/A		ug/kg	280	36 U	37 U	38 U	35 U	39 U	
Explosives													
2,4,6-Trinitrotoluene	N/A		N/A	N/A		ug/kg	100 U	100 U	100 U	100 U	100 U	100 U	
Nitrobenzene	3900	100000	670	N/A		ug/kg	100 U	100 U	100 U	130	100 U	35 J	
RDX	N/A		N/A	N/A		ug/kg	200 U	91 J	200 U	200 U	200 U	200 U	

Shading = > MDE Residential Soil and/or Protection of Groundwater Standard

Italicized = > the ATC

Bold Border = > the MDE Non-Residential Standard

See Att D for qualifiers

TABLE E3-4 SUMMARY OF REPORTED CONSTITUENTS IN SOIL

							Sample Name:	2-1-0.9-2.2	2-2-12-16	2-3-6.5-8	2-4-7-8.5	2-5-10.5-12	2-6-2-4
							Sample Date:	12/16/2003	12/15/2003	12/16/2003	12/16/2003	12/16/2003	12/30/2003
							Parent Name:						
Analyte	MDE Residential	MDE Non-Residential	MDE GW Protection	Back-ground	Meade Bkgnd	Unit							
Metals													
Aluminum	7800	200000	N/A	11000	3300	mg/kg	1200	1080	2630	3330	355	4700 N	
Antimony	12	82	N/A	N/A	0.387	mg/kg	0.2 UN	0.25 UN	0.24 UN	0.26 UN	0.23 UN	0.52 BN	
Arsenic	2	3.8	N/A	3.6	1.67	mg/kg	1.4	2.4	1.4 B	1.9	0.33 B	3.5	
Barium	550	14000	N/A	N/A	16.8	mg/kg	6.1	4.2	9.9	20.5	2	27.6	
Beryllium	16	410	N/A	N/A	1.6	mg/kg	0.07 B	0.05 B	0.09 B	0.25	0.02 B	0.13 B	
Cadmium	3.9	100	N/A	N/A	0.057	mg/kg	0.05 B	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U	
Calcium	N/A		N/A	N/A	46.4	mg/kg	99.1	22.7 B	81.4	313	24.4 B	694	
Chromium	23	610	N/A	28	17.3	mg/kg	4.1	5.4	4.8	11	0.98	14	
Cobalt	160	4100	N/A	N/A	4.5	mg/kg	0.57	0.06 U	0.64	2.1	0.07 B	2.5	
Copper	310	8200	N/A	N/A	39.2	mg/kg	4.1	4.2	3.3	8.1	0.91	16.7	
Iron	2300	61000	N/A	15000	33154	mg/kg	2940	3700	3670	8300	880	7620 N	
Lead	400	400	N/A	N/A	3.58	mg/kg	5.6	1.2	2.1	6.6	0.52 B	17.3	
Magnesium	N/A		N/A	N/A	400	mg/kg	85.1	22.3	164	453	22	295	
Manganese	160	4100	N/A	480	54	mg/kg	12.3	2.1	12.2	67.6	3.7	29.8	
Mercury	0.1	0.12	N/A	0.51	0.0047	mg/kg	0.05	0.01 U	0.02 B	0.02	0.01 U	0.04	
Nickel	160	4100	N/A	N/A	3.92	mg/kg	0.79	0.08 U	1.3	3.7	0.08 U	4.5	
Potassium	N/A		N/A	N/A	453	mg/kg	74.5 N	153 N	162 N	390 N	30 N	448 N	
Selenium	39	1000	N/A	N/A	0.27	mg/kg	0.22 B	0.27 U	0.33 B	0.51 B	0.24 U	0.25 U	
Silver	39	1000	N/A	N/A	0.07	mg/kg	0.04 U	0.05 U	0.05 U	0.07 B	0.05 U	0.04 U	
Sodium	N/A		N/A	N/A	25.9	mg/kg	47.9 B	54.7 B	65.2 B	65.8 B	37.9 B	72.5 B	
Thallium	2	14	N/A	3.8	0.2	mg/kg	0.33 U	0.42 U	0.4 U	0.43 U	0.38 U	0.36 U	
Vanadium	55	1400	N/A	N/A	23.2	mg/kg	5.6	7	7.9	13.2	1.5	22.4	
Zinc	2300	61000	N/A	N/A	33.5	mg/kg	9.9	1.2 B	3.8	15.3	0.74 B	18.5	
General Chemistry													
Oil & Grease, Total	N/A		N/A	N/A		mg/kg	5.2 U	5.4 U	5.4 U	5.6 U	5.2 U	5.6 U	
TPH-DRO	230	620	N/A	N/A		mg/kg	14	4.6	8.4	86	12	10	
TPH-GRO	230000	620000	N/A	N/A		ug/kg	110 U	110 U	110 U	110 U	100 U	120 U	

Shading = > MDE Residential Soil and/or Protection of Groundwater Standard

Italicized = > the ATC

Bold Border = > the MDE Non-Residential Standard

See Att D for qualifiers

TABLE E3-4 SUMMARY OF REPORTED CONSTITUENTS IN SOIL

							Sample Name:	03-DE-30-DP2	3-1-7.5-9	4-1-6-8	5-1-0-0.5	5-2-8-12	6-1-6-8
							Sample Date:	12/30/2003	12/16/2003	12/29/2003	12/18/2003	12/15/2003	12/29/2003
							Parent Name:	2-6-2-4					
Analyte	MDE Residential	MDE Non-Residential	MDE GW Protection	Back-ground	Meade Bkgnd	Unit							
VOC													
1,1,1-Trichloroethane	2200000	57000000	60000	N/A		ug/kg	1.8 J	5.7 U	5.2 U	6 U	5.3 U	2.2 J	
Acetone	N/A		N/A	N/A		ug/kg	12 U	11 U	10 U	6.4 J	11 U	11 U	
Carbon Disulfide	780000	20000000	19000	N/A		ug/kg	5.9 U	5.7 U	5.2 U	6 U	5.3 U	5.3 U	
Methylene Chloride	85000	760000	19	N/A		ug/kg	10 JB	4.4 JB	18 B	25 B	2.5 JB	9.9 JB	
SVOC													
1,2-Benzphenanthracene	87000	780000	150000	N/A		ug/kg	400 U	380 U	350 U	100 J	350 U	360 U	
2-Methylnaphthalene	160000	4100000	22000	N/A		ug/kg	61 J	380 U	350 U	49 J	350 U	360 U	
Benzaldehyde	N/A		N/A	N/A		ug/kg	400 U	380 U	350 U	400 U	350 U	360 U	
Benzo(a)anthracene	870	7800	1500	N/A		ug/kg	400 U	380 U	350 U	400 U	350 U	360 U	
Benzo(a)pyrene	330	780	370	N/A		ug/kg	400 U	380 U	350 U	400 U	350 U	360 U	
Benzo(b)fluoranthene	870	7800	4500	N/A		ug/kg	400 U	380 U	350 U	120 J	350 U	360 U	
bis(2-Ethylhexyl) Phthalate	46000	410000	2900000	N/A		ug/kg	400 U	380 U	350 U	320 J	350 U	360 U	
Diethyl Phthalate	6300000	16000000	450000	N/A		ug/kg	9100	380 U	350 U	400 U	350 U	360 U	
Fluoranthene	310000	8200000	6300000	N/A		ug/kg	71 J	380 U	350 U	88 J	350 U	360 U	
Naphthalene	160000	4100000	330	N/A		ug/kg	400 U	380 U	350 U	400 U	350 U	360 U	
Nitrobenzene	3900	100000	670	N/A		ug/kg	400 U	380 U	350 U	400 U	350 U	360 U	
Phenanthrene	2300000	61000000	470000	N/A		ug/kg	74 J	380 U	350 U	58 J	350 U	360 U	
Pyrene	230000	6100000	680000	N/A		ug/kg	400 U	380 U	350 U	110 J	350 U	360 U	
Pesticides/PCB													
4,4-DDD	2700	24000	11000	N/A		ug/kg	0.7 JP	1.9 U	1.7 U	7.6 J	1.8 U	1.8 U	
4,4-DDE	1900	17000	35000	N/A		ug/kg	2.4	1.9 U	1.7 U	20 U	1.8 U	1.8 U	
4,4-DDT	1900	17000	1200	N/A		ug/kg	2.4 P	1.9 U	1.7 U	93	1.8 U	1.8 U	
alpha-BHC	100	910	4	N/A		ug/kg	2 U	1.9 U	1.7 U	20 U	1.8 U	1.8 U	
alpha-Chlordane	1800	16000	920	N/A		ug/kg	2 U	1.9 U	1.7 U	200	1.8 U	1.8 U	
delta-BHC	490	4400	4.3	N/A		ug/kg	2 U	1.9 U	1.7 U	20 U	1.8 U	0.48 JP	
Dieldrin	40	360	4	N/A		ug/kg	2 U	1.9 U	1.7 U	20 U	1.8 U	1.8 U	
Endosulfan Sulfate	47000	1200000	20000	N/A		ug/kg	2 U	1.9 U	1.7 U	20 U	1.8 U	1.8 U	
Endrin Ketone	2300	61000	5400	N/A		ug/kg	2 U	1.9 U	1.7 U	20 U	1.8 U	1.8 U	
gamma-BHC	490	4400	4.3	N/A		ug/kg	2 U	1.9 U	1.7 U	20 U	1.8 U	1.8 U	
gamma-Chlordane	1800	16000	920	N/A		ug/kg	2 U	1.9 U	1.7 U	220	1.8 U	1.8 U	
Heptachlor	140	1300	840	N/A		ug/kg	2 U	1.9 U	1.7 U	4.7 J	1.8 U	1.8 U	
Heptachlor Epoxide	70	630	25	N/A		ug/kg	2 U	1.9 U	1.7 U	20 U	1.8 U	1.8 U	
PCB-1260	320	2900	N/A	N/A		ug/kg	40 U	38 U	35 U	40 U	35 U	36 U	
Explosives													
2,4,6-Trinitrotoluene	N/A		N/A	N/A		ug/kg	100 U	100 U	59 J	100 U	100 U	100 U	
Nitrobenzene	3900	100000	670	N/A		ug/kg	100 U	100 U	100 U	100 U	100 U	41 J	
RDX	N/A		N/A	N/A		ug/kg	200 U	200 U	200 U	200 U	200 U	200 U	

Shading = > MDE Residential Soil and/or Protection of Groundwater Standard

Italicized = > the ATC

Bold Border = > the MDE Non-Residential Standard

See Att D for qualifiers

TABLE E3-4 SUMMARY OF REPORTED CONSTITUENTS IN SOIL

							Sample Name:	03-DE-30-DP2	3-1-7.5-9	4-1-6-8	5-1-0-0.5	5-2-8-12	6-1-6-8
							Sample Date:	12/30/2003	12/16/2003	12/29/2003	12/18/2003	12/15/2003	12/29/2003
							Parent Name:	2-6-2-4					
Analyte	MDE Residential	MDE Non-Residential	MDE GW Protection	Back-ground	Meade Bkgnd	Unit							
Metals													
Aluminum	7800	200000	N/A	11000	3300	mg/kg	3610 N	9000	681 N	5160 N	634	2910 N	
Antimony	12	82	N/A	N/A	0.387	mg/kg	0.45 BN	0.25 UN	0.42 BN	0.58 B	0.25 UN	0.37 BN	
Arsenic	2	3.8	N/A	3.6	1.67	mg/kg	<i>7.1</i>	<i>4.4</i>	2	<i>6.1</i>	<i>2.3</i>	<i>2.6</i>	
Barium	550	14000	N/A	N/A	16.8	mg/kg	31.3	28.3	4	76.2	2.2	9.2	
Beryllium	16	410	N/A	N/A	1.6	mg/kg	0.12 B	0.28	0.008 U	0.25	0.04 B	0.03 B	
Cadmium	3.9	100	N/A	N/A	0.057	mg/kg	0.02 U	0.01 U	0.02 U	1	0.01 U	0.02 U	
Calcium	N/A		N/A	N/A	46.4	mg/kg	382	125	261	9390	28.4 B	42.1 B	
Chromium	23	610	N/A	28	17.3	mg/kg	23.9	10.7	4	27.3 *	8.5	8	
Cobalt	160	4100	N/A	N/A	4.5	mg/kg	0.48	12.3	0.07 B	4.8	0.06 U	0.48	
Copper	310	8200	N/A	N/A	39.2	mg/kg	22.8	8.2	1.7	23.4 *	6.9	7.4	
Iron	2300	61000	N/A	15000	33154	mg/kg	9420 N	12100	2010 N	12900 N*	5020	6180 N	
Lead	400	400	N/A	N/A	3.58	mg/kg	12.7	6.8	1.1	108	0.92	2	
Magnesium	N/A		N/A	N/A	400	mg/kg	120	769	49.7	5650	19.6 B	89.7	
Manganese	160	4100	N/A	480	54	mg/kg	8.3	252	3.5	135	1.4	10.7	
Mercury	0.1	0.12	N/A	0.51	0.0047	mg/kg	0.03	0.02 B	0.01 U	0.65	0.01 U	0.01 U	
Nickel	160	4100	N/A	N/A	3.92	mg/kg	1.6	4.9	0.12 U	10.9	0.09 B	0.64 B	
Potassium	N/A		N/A	N/A	453	mg/kg	912 N	447 N	72.8 N	608 N	64.5 N	223 N	
Selenium	39	1000	N/A	N/A	0.27	mg/kg	0.49 B	0.42 B	0.22 U	0.64 B	0.4 B	0.23 U	
Silver	39	1000	N/A	N/A	0.07	mg/kg	0.04 U	0.05 U	0.04 U	0.37	0.05 U	0.04 U	
Sodium	N/A		N/A	N/A	25.9	mg/kg	75.6 B	51.7 B	56 B	64.9 B	51.3 B	69.2 B	
Thallium	2	14	N/A	3.8	0.2	mg/kg	0.39 U	0.42 U	0.33 U	0.42 U	0.41 U	0.34 U	
Vanadium	55	1400	N/A	N/A	23.2	mg/kg	79.5	20	8.8	20.8 *	8.7	16.7	
Zinc	2300	61000	N/A	N/A	33.5	mg/kg	6.8	16.4	2	206	1.9	3	
General Chemistry													
Oil & Grease, Total	N/A		N/A	N/A		mg/kg	7.7	5.7 U	5 U	180	5.2 U	5.2 U	
TPH-DRO	230	620	N/A	N/A		mg/kg	14	4.5	5.6	1200	3.6	7.6	
TPH-GRO	230000	620000	N/A	N/A		ug/kg	120 U	120 U	100 U	120 U	110 U	110 U	

Shading = > MDE Residential Soil and/or Protection of Groundwater Standard

Italicized = > the ATC

Bold Border = > the MDE Non-Residential Standard

See Att D for qualifiers

TABLE E3-4 SUMMARY OF REPORTED CONSTITUENTS IN SOIL

							Sample Name:	6-2-16.5-18	6-3-6-8	7-1-12-15	7-2-8-10	8-1-6-8	8-2-6-8
							Sample Date:	12/29/2003	12/29/2003	12/15/2003	12/15/2003	12/30/2003	12/30/2003
							Parent Name:						
Analyte	MDE Residential	MDE Non-Residential	MDE GW Protection	Back-ground	Meade Bkgnd	Unit							
VOC													
1,1,1-Trichloroethane	2200000	57000000	60000	N/A		ug/kg	5.6 U	5.2 U	5.3 U	5.3 U	1.5 J	2 J	
Acetone	N/A		N/A	N/A		ug/kg	13 B	8.1 JB	11 U	11 U	11 U	11 U	
Carbon Disulfide	780000	20000000	19000	N/A		ug/kg	5.6 U	5.2 U	5.3 U	5.3 U	5.3 U	5.3 U	
Methylene Chloride	85000	760000	19	N/A		ug/kg	10 JB	11 B	2.3 JB	2.2 JB	8.8 JB	9.9 JB	
SVOC													
1,2-Benzphenanthracene	87000	780000	150000	N/A		ug/kg	370 U	350 U	350 U	360 U	350 U	360 U	
2-Methylnaphthalene	160000	4100000	22000	N/A		ug/kg	370 U	350 U	350 U	360 U	350 U	360 U	
Benzaldehyde	N/A		N/A	N/A		ug/kg	370 U	350 U	350 U	360 U	350 U	360 U	
Benzo(a)anthracene	870	7800	1500	N/A		ug/kg	370 U	350 U	350 U	360 U	350 U	360 U	
Benzo(a)pyrene	330	780	370	N/A		ug/kg	370 U	350 U	350 U	360 U	350 U	360 U	
Benzo(b)fluoranthene	870	7800	4500	N/A		ug/kg	370 U	350 U	350 U	360 U	350 U	360 U	
bis(2-Ethylhexyl) Phthalate	46000	410000	2900000	N/A		ug/kg	370 U	350 U	350 U	360 U	350 U	360 U	
Diethyl Phthalate	6300000	160000000	450000	N/A		ug/kg	370 U	350 U	350 U	360 U	350 U	360 U	
Fluoranthene	310000	8200000	6300000	N/A		ug/kg	370 U	350 U	350 U	360 U	350 U	360 U	
Naphthalene	160000	4100000	330	N/A		ug/kg	370 U	350 U	350 U	360 U	350 U	360 U	
Nitrobenzene	3900	100000	670	N/A		ug/kg	370 U	350 U	350 U	360 U	350 U	360 U	
Phenanthrene	2300000	61000000	470000	N/A		ug/kg	370 U	350 U	350 U	360 U	350 U	360 U	
Pyrene	230000	6100000	680000	N/A		ug/kg	370 U	350 U	350 U	360 U	350 U	360 U	
Pesticides/PCB													
4,4-DDD	2700	24000	11000	N/A		ug/kg	1.9 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	
4,4-DDE	1900	17000	35000	N/A		ug/kg	1.9 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	
4,4-DDT	1900	17000	1200	N/A		ug/kg	1.9 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	
alpha-BHC	100	910	4	N/A		ug/kg	1.9 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	
alpha-Chlordane	1800	16000	920	N/A		ug/kg	1.9 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	
delta-BHC	490	4400	4.3	N/A		ug/kg	1.9 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	
Dieldrin	40	360	4	N/A		ug/kg	1.9 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	
Endosulfan Sulfate	47000	1200000	20000	N/A		ug/kg	1.9 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	
Endrin Ketone	2300	61000	5400	N/A		ug/kg	1.9 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	
gamma-BHC	490	4400	4.3	N/A		ug/kg	1.9 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	
gamma-Chlordane	1800	16000	920	N/A		ug/kg	1.9 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	
Heptachlor	140	1300	840	N/A		ug/kg	1.9 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	
Heptachlor Epoxide	70	630	25	N/A		ug/kg	1.9 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	
PCB-1260	320	2900	N/A	N/A		ug/kg	37 U	35 U	35 U	36 U	35 U	36 U	
Explosives													
2,4,6-Trinitrotoluene	N/A		N/A	N/A		ug/kg	100 U	100 U	100 U	100 U	100 U	100 U	
Nitrobenzene	3900	100000	670	N/A		ug/kg	100 U	100 U	100 U	68 J	82 J	100 U	
RDX	N/A		N/A	N/A		ug/kg	200 U	200 U	200 U	200 U	200 U	200 U	

Shading = > MDE Residential Soil and/or Protection of Groundwater Standard

Italicized = > the ATC

Bold Border = > the MDE Non-Residential Standard

See Att D for qualifiers

TABLE E3-4 SUMMARY OF REPORTED CONSTITUENTS IN SOIL

							Sample Name:	6-2-16.5-18	6-3-6-8	7-1-12-15	7-2-8-10	8-1-6-8	8-2-6-8
							Sample Date:	12/29/2003	12/29/2003	12/15/2003	12/15/2003	12/30/2003	12/30/2003
							Parent Name:						
Analyte	MDE Residential	MDE Non-Residential	MDE GW Protection	Back-ground	Meade Bkgnd	Unit							
Metals													
Aluminum	7800	200000	N/A	11000	3300	mg/kg	1260 N	478 N	840	1300	596 N	2260 N	
Antimony	12	82	N/A	N/A	0.387	mg/kg	0.43 BN	0.28 BN	0.25 UN	0.24 BN	0.33 BN	0.48 BN	
Arsenic	2	3.8	N/A	3.6	1.67	mg/kg	1.5 B	1 B	1.5 B	3	0.86 B	2.1	
Barium	550	14000	N/A	N/A	16.8	mg/kg	6.9	2.7	6.5	5.9	4.8	7.9	
Beryllium	16	410	N/A	N/A	1.6	mg/kg	0.0088 U	0.0076 U	0.04 B	0.06 B	0.0074 U	0.02 B	
Cadmium	3.9	100	N/A	N/A	0.057	mg/kg	0.02 U	0.02 U	0.01 U	0.01 U	0.02 U	0.02 U	
Calcium	N/A		N/A	N/A	46.4	mg/kg	8.8 B	5.6 U	19.4 B	42 B	23.4 B	6 U	
Chromium	23	610	N/A	28	17.3	mg/kg	10.6	3.3	4	6.9	2.4	8.4	
Cobalt	160	4100	N/A	N/A	4.5	mg/kg	0.3 B	0.05 B	0.11 B	0.19 B	0.03 B	0.33 B	
Copper	310	8200	N/A	N/A	39.2	mg/kg	4.3	5.1	2.6	2.8	3.3	3.8	
Iron	2300	61000	N/A	15000	33154	mg/kg	3890 N	3790 N	3410	3720	1500 N	5600 N	
Lead	400	400	N/A	N/A	3.58	mg/kg	2	0.9	1	1.6	0.85	2.5	
Magnesium	N/A		N/A	N/A	400	mg/kg	79.8	16.9 B	44.2	52.1	34.4	90.2	
Manganese	160	4100	N/A	480	54	mg/kg	9.2	2.3	11	4.3	1.9	5.9	
Mercury	0.1	0.12	N/A	0.51	0.0047	mg/kg	0.01 U						
Nickel	160	4100	N/A	N/A	3.92	mg/kg	0.57 B	0.11 U	0.19 B	0.36 B	0.11 U	0.61 B	
Potassium	N/A		N/A	N/A	453	mg/kg	78.3 N	51.5 N	69.6 N	149 N	93.2 N	170 N	
Selenium	39	1000	N/A	N/A	0.27	mg/kg	0.25 U	0.22 B	0.28 B	0.27 B	0.21 U	0.23 U	
Silver	39	1000	N/A	N/A	0.07	mg/kg	0.04 U	0.03 U	0.05 U	0.04 U	0.03 U	0.04 U	
Sodium	N/A		N/A	N/A	25.9	mg/kg	63.6 B	60 B	48.4 B	49.4 B	51.5 B	55.1 B	
Thallium	2	14	N/A	3.8	0.2	mg/kg	0.36 U	0.31 U	0.42 U	0.32 U	0.3 U	0.34 U	
Vanadium	55	1400	N/A	N/A	23.2	mg/kg	9.6	2.4	4.8	9.3	3.1	21.8	
Zinc	2300	61000	N/A	N/A	33.5	mg/kg	3	1.5 B	2.2	1.9	1.9	3.1	
General Chemistry													
Oil & Grease, Total	N/A		N/A	N/A		mg/kg	5.4 U	5.1 U	5.1 U	5.2 U	5.1 U	5.1 U	
TPH-DRO	230	620	N/A	N/A		mg/kg	6.9	4.9	4.1	3.5	5.1	8.4	
TPH-GRO	230000	620000	N/A	N/A		ug/kg	110 U						

Shading = > MDE Residential Soil and/or Protection of Groundwater Standard

Italicized = > the ATC

Bold Border = > the MDE Non-Residential Standard

See Att D for qualifiers

TABLE E3-4 SUMMARY OF REPORTED CONSTITUENTS IN SOIL

							Sample Name:	8-3-18-20	8-4-2-4	8-5-4-6	8-6-5-5-7	8-7-14-15.5	8-8-10.5-13.7
							Sample Date:	12/30/2003	12/22/2003	12/22/2003	12/22/2003	12/22/2003	12/19/2003
							Parent Name:						
Analyte	MDE Residential	MDE Non-Residential	MDE GW Protection	Back-ground	Meade Bkgnd	Unit							
VOC													
1,1,1-Trichloroethane	2200000	57000000	60000	N/A		ug/kg	5.2 U	5.8 U	5.3 U	5.7 U	5.5 U	5.6 U	
Acetone	N/A		N/A	N/A		ug/kg	5.3 J	6 J	11 U	6.9 J	7.7 J	11 U	
Carbon Disulfide	780000	20000000	19000	N/A		ug/kg	5.2 U	5.8 U	5.3 U	5.7 U	5.5 U	5.6 U	
Methylene Chloride	85000	760000	19	N/A		ug/kg	15 B	5.2 JB	6.8 JB	5.9 JB	4.9 JB	4.5 JB	
SVOC													
1,2-Benzphenanthracene	87000	780000	150000	N/A		ug/kg	350 U	390 U	350 U	380 U	370 U	370 U	
2-Methylnaphthalene	160000	4100000	22000	N/A		ug/kg	350 U	390 U	350 U	380 U	370 U	370 U	
Benzaldehyde	N/A		N/A	N/A		ug/kg	350 U	390 U	350 U	380 U	370 U	370 U	
Benzo(a)anthracene	870	7800	1500	N/A		ug/kg	350 U	390 U	350 U	380 U	370 U	370 U	
Benzo(a)pyrene	330	780	370	N/A		ug/kg	350 U	390 U	350 U	380 U	370 U	370 U	
Benzo(b)fluoranthene	870	7800	4500	N/A		ug/kg	350 U	390 U	350 U	380 U	370 U	370 U	
bis(2-Ethylhexyl) Phthalate	46000	410000	2900000	N/A		ug/kg	350 U	390 U	350 U	380 U	45 J	370 U	
Diethyl Phthalate	6300000	160000000	450000	N/A		ug/kg	350 U	390 U	350 U	380 U	370 U	370 U	
Fluoranthene	310000	8200000	6300000	N/A		ug/kg	350 U	390 U	350 U	380 U	370 U	370 U	
Naphthalene	160000	4100000	330	N/A		ug/kg	350 U	390 U	350 U	380 U	370 U	370 U	
Nitrobenzene	3900	100000	670	N/A		ug/kg	350 U	390 U	350 U	380 U	370 U	370 U	
Phenanthrene	2300000	61000000	470000	N/A		ug/kg	350 U	390 U	350 U	380 U	370 U	370 U	
Pyrene	230000	6100000	680000	N/A		ug/kg	350 U	390 U	350 U	380 U	370 U	370 U	
Pesticides/PCB													
4,4-DDD	2700	24000	11000	N/A		ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	
4,4-DDE	1900	17000	35000	N/A		ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	
4,4-DDT	1900	17000	1200	N/A		ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	
alpha-BHC	100	910	4	N/A		ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	
alpha-Chlordane	1800	16000	920	N/A		ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	
delta-BHC	490	4400	4.3	N/A		ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	
Dieldrin	40	360	4	N/A		ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	
Endosulfan Sulfate	47000	1200000	20000	N/A		ug/kg	1.7 U	1.9 U	0.5 J	1.9 U	1.8 U	1.9 U	
Endrin Ketone	2300	61000	5400	N/A		ug/kg	1.7 U	1.9 U	0.33 J	1.9 U	1.8 U	1.9 U	
gamma-BHC	490	4400	4.3	N/A		ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	
gamma-Chlordane	1800	16000	920	N/A		ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	
Heptachlor	140	1300	840	N/A		ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	
Heptachlor Epoxide	70	630	25	N/A		ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	
PCB-1260	320	2900	N/A	N/A		ug/kg	35 U	39 U	35 U	38 U	37 U	37 U	
Explosives													
2,4,6-Trinitrotoluene	N/A		N/A	N/A		ug/kg	100 U	100 U	100 U	100 U	53 J	100 U	
Nitrobenzene	3900	100000	670	N/A		ug/kg	61 J	100 U	100 U	38 J	34 J	52 J	
RDX	N/A		N/A	N/A		ug/kg	200 U	200 U	200 U	200 U	200 U	150 J	

Shading = > MDE Residential Soil and/or Protection of Groundwater Standard

Italicized = > the ATC

Bold Border = > the MDE Non-Residential Standard

See Att D for qualifiers

TABLE E3-4 SUMMARY OF REPORTED CONSTITUENTS IN SOIL

							Sample Name:	8-3-18-20	8-4-2-4	8-5-4-6	8-6-5-5-7	8-7-14-15.5	8-8-10.5-13.7
							Sample Date:	12/30/2003	12/22/2003	12/22/2003	12/22/2003	12/22/2003	12/19/2003
							Parent Name:						
Analyte	MDE Residential	MDE Non-Residential	MDE GW Protection	Back-ground	Meade Bkgnd	Unit							
Metals													
Aluminum	7800	200000	N/A	11000	3300	mg/kg	1240 N	3040	674	1540	1880	820 N	
Antimony	12	82	N/A	N/A	0.387	mg/kg	0.34 BN	0.18 U	0.25 U	0.33 B	0.32 B	0.2 U	
Arsenic	2	3.8	N/A	3.6	1.67	mg/kg	1.4 B	1.2	1.6 B	2.5	7.9	1 B	
Barium	550	14000	N/A	N/A	16.8	mg/kg	6.3	28.2	5.4	6.3	6.2	5.1	
Beryllium	16	410	N/A	N/A	1.6	mg/kg	0.0079 U	0.16	0.04 B	0.06 B	0.11 B	0.0087 U	
Cadmium	3.9	100	N/A	N/A	0.057	mg/kg	0.02 U	0.06 B	0.03 B	0.05 B	0.11 B	0.02 U	
Calcium	N/A		N/A	N/A	46.4	mg/kg	18.5 B	43.1 B	21 B	34.8 B	29.5 B	24.8 B	
Chromium	23	610	N/A	28	17.3	mg/kg	7.2	5 E	2.5 E	4.9 E	10.1 E	7.8 *	
Cobalt	160	4100	N/A	N/A	4.5	mg/kg	0.03 U	0.97	0.14 B	0.15 B	0.15 B	0.04 U	
Copper	310	8200	N/A	N/A	39.2	mg/kg	5	2.8	6.9	8.3	19.1	4 *	
Iron	2300	61000	N/A	15000	33154	mg/kg	4330 N	3690	2590	4900	10200	2040 N*	
Lead	400	400	N/A	N/A	3.58	mg/kg	1.2	2.7	0.81	1.3	1.7	1.5	
Magnesium	N/A		N/A	N/A	400	mg/kg	35.8	255	29.2	63.6	42.5	32.5	
Manganese	160	4100	N/A	480	54	mg/kg	2.7	64.7	4	2.7	4.2	3.7	
Mercury	0.1	0.12	N/A	0.51	0.0047	mg/kg	0.01 U	0.01 U	0.01 U	0.01 B	0.02	0.01 U	
Nickel	160	4100	N/A	N/A	3.92	mg/kg	0.13 B	1.6	0.08 U	0.13 B	0.29 B	0.13 U	
Potassium	N/A		N/A	N/A	453	mg/kg	177 N	120	70.1	156	179	177 N	
Selenium	39	1000	N/A	N/A	0.27	mg/kg	0.22 U	0.2 U	0.26 U	0.28 U	0.35 B	0.24 U	
Silver	39	1000	N/A	N/A	0.07	mg/kg	0.03 U	0.04 U	0.05 U	0.06 U	0.06 U	0.04 U	
Sodium	N/A		N/A	N/A	25.9	mg/kg	58.2 B	44.5 B	55.7 B	66.9 B	64.5 B	47 B	
Thallium	2	14	N/A	3.8	0.2	mg/kg	0.32 U	0.31 U	0.42 U	0.45 U	0.45 U	0.36 U	
Vanadium	55	1400	N/A	N/A	23.2	mg/kg	7.1	7.9	4.4	9.7	17.8	6.3 *	
Zinc	2300	61000	N/A	N/A	33.5	mg/kg	1.6 B	7.2	1.4 B	1.8	3	1.4 B	
General Chemistry													
Oil & Grease, Total	N/A		N/A	N/A		mg/kg	5.1 U	5.8	5.1 U	5.6 U	5.4 U	8.8	
TPH-DRO	230	620	N/A	N/A		mg/kg	10	4.4	3.1	4.2	4.6	3.3	
TPH-GRO	230000	620000	N/A	N/A		ug/kg	100 U	110 J	110 U	110 U	110 U	110 U	

Shading = > MDE Residential Soil and/or Protection of Groundwater Standard

Italicized = > the ATC

Bold Border = > the MDE Non-Residential Standard

See Att D for qualifiers

TABLE E3-4 SUMMARY OF REPORTED CONSTITUENTS IN SOIL

							Sample Name:	8-9-12.5-14	8-10-18-20	8-11-5-7	8-12-0.5-2	8-13-15-16.5	9-1-12-16
							Sample Date:	12/19/2003	12/22/2003	12/22/2003	12/22/2003	12/19/2003	12/15/2003
							Parent Name:						
Analyte	MDE Residential	MDE Non-Residential	MDE GW Protection	Back-ground	Meade Bkgnd	Unit							
VOC													
1,1,1-Trichloroethane	2200000	57000000	60000	N/A		ug/kg	5.5 U	5.4 U	5.5 U	5.3 U	5.6 U	5.7 U	
Acetone	N/A		N/A	N/A		ug/kg	4.3 J	8.1 J	3.9 J	11 U	25	12 U	
Carbon Disulfide	780000	20000000	19000	N/A		ug/kg	5.5 U	5.4 U	5.5 U	5.3 U	5.6 U	5.7 U	
Methylene Chloride	85000	760000	19	N/A		ug/kg	3.2 JB	7.9 JB	4.7 JB	9.1 JB	4.2 JB	3.8 JB	
SVOC													
1,2-Benzphenanthracene	87000	780000	150000	N/A		ug/kg	370 U	360 U	370 U	360 U	380 U	380 U	
2-Methylnaphthalene	160000	4100000	22000	N/A		ug/kg	370 U	360 U	370 U	360 U	380 U	380 U	
Benzaldehyde	N/A		N/A	N/A		ug/kg	370 U	360 U	370 U	360 U	380 U	380 U	
Benzo(a)anthracene	870	7800	1500	N/A		ug/kg	370 U	360 U	370 U	360 U	380 U	380 U	
Benzo(a)pyrene	330	780	370	N/A		ug/kg	370 U	360 U	370 U	360 U	380 U	380 U	
Benzo(b)fluoranthene	870	7800	4500	N/A		ug/kg	370 U	360 U	370 U	360 U	380 U	380 U	
bis(2-Ethylhexyl) Phthalate	46000	410000	2900000	N/A		ug/kg	370 U	360 U	370 U	360 U	380 U	380 U	
Diethyl Phthalate	6300000	16000000	450000	N/A		ug/kg	370 U	360 U	370 U	360 U	380 U	380 U	
Fluoranthene	310000	8200000	6300000	N/A		ug/kg	370 U	360 U	370 U	360 U	380 U	380 U	
Naphthalene	160000	4100000	330	N/A		ug/kg	370 U	360 U	370 U	360 U	380 U	380 U	
Nitrobenzene	3900	100000	670	N/A		ug/kg	370 U	360 U	370 U	360 U	380 U	380 U	
Phenanthrene	2300000	61000000	470000	N/A		ug/kg	370 U	360 U	370 U	360 U	380 U	380 U	
Pyrene	230000	6100000	680000	N/A		ug/kg	370 U	360 U	370 U	360 U	380 U	380 U	
Pesticides/PCB													
4,4-DDD	2700	24000	11000	N/A		ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	
4,4-DDE	1900	17000	35000	N/A		ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	
4,4-DDT	1900	17000	1200	N/A		ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	
alpha-BHC	100	910	4	N/A		ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	
alpha-Chlordane	1800	16000	920	N/A		ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	
delta-BHC	490	4400	4.3	N/A		ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	
Dieldrin	40	360	4	N/A		ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	
Endosulfan Sulfate	47000	1200000	20000	N/A		ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	
Endrin Ketone	2300	61000	5400	N/A		ug/kg	1.9 U	1.8 U	1.8 U	0.49 J	1.9 U	1.9 U	
gamma-BHC	490	4400	4.3	N/A		ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	
gamma-Chlordane	1800	16000	920	N/A		ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	
Heptachlor	140	1300	840	N/A		ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	
Heptachlor Epoxide	70	630	25	N/A		ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	
PCB-1260	320	2900	N/A	N/A		ug/kg	37 U	36 U	37 U	36 U	38 U	38 U	
Explosives													
2,4,6-Trinitrotoluene	N/A		N/A	N/A		ug/kg	100 U	100 U	100 U	76 J	100 U	100 U	
Nitrobenzene	3900	100000	670	N/A		ug/kg	51 J	100 U	100 U	100 U	100 U	47 J	
RDX	N/A		N/A	N/A		ug/kg	180 J	200 U	200 U	200 U	150 J	200 U	

Shading = > MDE Residential Soil and/or Protection of Groundwater Standard

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See Att D for qualifiers

TABLE E3-4 SUMMARY OF REPORTED CONSTITUENTS IN SOIL

							Sample Name:	8-9-12.5-14	8-10-18-20	8-11-5-7	8-12-0.5-2	8-13-15-16.5	9-1-12-16
							Sample Date:	12/19/2003	12/22/2003	12/22/2003	12/22/2003	12/19/2003	12/15/2003
							Parent Name:						
Analyte	MDE Residential	MDE Non-Residential	MDE GW Protection	Back-ground	Meade Bkgnd	Unit							
Metals													
Aluminum	7800	200000	N/A	11000	3300	mg/kg	1690 N	2020	1050	2770	364 N	2080	
Antimony	12	82	N/A	N/A	0.387	mg/kg	0.26 B	0.24 U	0.28 B	0.24 U	0.19 U	0.29 UN	
Arsenic	2	3.8	N/A	3.6	1.67	mg/kg	1.9	1.2 B	0.81 B	1.1 B	1.2 B	1.8 B	
Barium	550	14000	N/A	N/A	16.8	mg/kg	11.9	14	3.4	14.5	1.9	7.4	
Beryllium	16	410	N/A	N/A	1.6	mg/kg	0.01 B	0.09 B	0.05 B	0.09 B	0.0082 U	0.07 B	
Cadmium	3.9	100	N/A	N/A	0.057	mg/kg	0.02 U	0.03 B	0.03 B	0.04 B	0.02 U	0.01 U	
Calcium	N/A		N/A	N/A	46.4	mg/kg	60.8 B	83.4	30.7 B	243	23.2 B	202	
Chromium	23	610	N/A	28	17.3	mg/kg	17.5 *	22.7 E	2.8 E	3.4 E	1.8 *	6.9	
Cobalt	160	4100	N/A	N/A	4.5	mg/kg	0.2 B	0.25 B	0.49	0.48	0.04 U	0.16 B	
Copper	310	8200	N/A	N/A	39.2	mg/kg	4.6 *	3.1	1.8	3	6.4 *	4.1	
Iron	2300	61000	N/A	15000	33154	mg/kg	3230 N*	2440	1810	2690	2260 N*	4240	
Lead	400	400	N/A	N/A	3.58	mg/kg	3.3	2.7	1.4	3.2	0.55 B	2.5	
Magnesium	N/A		N/A	N/A	400	mg/kg	63.4	59.9	84.3	169	18.4 B	93.7	
Manganese	160	4100	N/A	480	54	mg/kg	8.1	10.8	21.5	32.3	2	6.4	
Mercury	0.1	0.12	N/A	0.51	0.0047	mg/kg	0.01 U	0.01 U	0.01 U	0.02 B	0.01 U	0.01 U	
Nickel	160	4100	N/A	N/A	3.92	mg/kg	0.68 B	0.92	0.54 B	1.2	0.12 U	0.47 B	
Potassium	N/A		N/A	N/A	453	mg/kg	416 N	497	60.2	103	37.6 N	205 N	
Selenium	39	1000	N/A	N/A	0.27	mg/kg	0.23 U	0.26 U	0.28 U	0.26 U	0.23 U	0.3 U	
Silver	39	1000	N/A	N/A	0.07	mg/kg	0.04 U	0.06 B	0.05 U	0.05 U	0.04 U	0.06 U	
Sodium	N/A		N/A	N/A	25.9	mg/kg	48.9 B	65.8 B	54.2 B	51.2 B	47.7 B	62.3 B	
Thallium	2	14	N/A	3.8	0.2	mg/kg	0.33 U	0.41 U	0.44 U	0.41 U	0.34 U	0.48 U	
Vanadium	55	1400	N/A	N/A	23.2	mg/kg	11.9 *	12.4	4.2	6.2	2.7 *	12.8	
Zinc	2300	61000	N/A	N/A	33.5	mg/kg	2.9	1.5 B	1.8	7.9	1.1 B	10.6	
General Chemistry													
Oil & Grease, Total	N/A		N/A	N/A		mg/kg	7.9	5.3 U	5.3 U	5.2 U	5.5 U	5.6 U	
TPH-DRO	230	620	N/A	N/A		mg/kg	3.2	3	6.6	3.5	4.2	4.6	
TPH-GRO	230000	620000	N/A	N/A		ug/kg	110 U	110 U	110 U	110 U	110 U	120 U	

Shading = > MDE Residential Soil and/or Protection of Groundwater Standard

Italicized = > the ATC

Bold Border = > the MDE Non-Residential Standard

See Att D for qualifiers

TABLE E3-4 SUMMARY OF REPORTED CONSTITUENTS IN SOIL

							Sample Name:	9-2-8-12	11-1-5-5-7	13-2-4-8	13-1-3-4-6	13A-1-3-5.5	SO-DUP1
							Sample Date:	12/15/2003	12/22/2003	12/19/2003	12/19/2003	12/16/2003	12/16/2003
							Parent Name:						13A-1-3-5.5
Analyte	MDE Residential	MDE Non-Residential	MDE GW Protection	Back-ground	Meade Bkgnd	Unit							
VOC													
1,1,1-Trichloroethane	2200000	57000000	60000	N/A		ug/kg	5.9 U	6.1 U	5.6 U	5.7 U	5.7 U	5.7 U	5.7 U
Acetone	N/A		N/A	N/A		ug/kg	12 U	7.5 J	11 U	11 U	11 U	11 U	11 U
Carbon Disulfide	780000	20000000	19000	N/A		ug/kg	5.9 U	3.7 J	5.6 U	5.7 U	5.7 U	5.7 U	5.7 U
Methylene Chloride	85000	760000	19	N/A		ug/kg	2.8 JB	11 JB	11 JB	8.1 JB	3 JB	3 JB	3.2 JB
SVOC													
1,2-Benzphenanthracene	87000	780000	150000	N/A		ug/kg	390 U	410 U	380 U	380 U	380 U	380 U	380 U
2-Methylnaphthalene	160000	4100000	22000	N/A		ug/kg	390 U	410 U	43 J	380 U	380 U	380 U	380 U
Benzaldehyde	N/A		N/A	N/A		ug/kg	390 U	410 U	380 U	380 U	380 U	380 U	380 U
Benzo(a)anthracene	870	7800	1500	N/A		ug/kg	390 U	410 U	380 U	380 U	380 U	380 U	380 U
Benzo(a)pyrene	330	780	370	N/A		ug/kg	390 U	410 U	380 U	380 U	380 U	380 U	380 U
Benzo(b)fluoranthene	870	7800	4500	N/A		ug/kg	390 U	410 U	380 U	380 U	380 U	380 U	380 U
bis(2-Ethylhexyl) Phthalate	46000	410000	2900000	N/A		ug/kg	390 U	410 U	380 U	380 U	380 U	380 U	380 U
Diethyl Phthalate	6300000	160000000	450000	N/A		ug/kg	390 U	410 U	380 U	380 U	380 U	380 U	380 U
Fluoranthene	310000	8200000	6300000	N/A		ug/kg	390 U	410 U	380 U	380 U	380 U	380 U	380 U
Naphthalene	160000	4100000	330	N/A		ug/kg	390 U	410 U	380 U	380 U	380 U	380 U	380 U
Nitrobenzene	3900	100000	670	N/A		ug/kg	390 U	410 U	380 U	380 U	380 U	380 U	380 U
Phenanthrene	2300000	61000000	470000	N/A		ug/kg	390 U	410 U	380 U	380 U	380 U	380 U	380 U
Pyrene	230000	6100000	680000	N/A		ug/kg	390 U	410 U	380 U	380 U	380 U	380 U	380 U
Pesticides/PCB													
4,4-DDD	2700	24000	11000	N/A		ug/kg	2 U	2 U	1.9 U	0.41 J	1.9 U	1.9 U	1.9 U
4,4-DDE	1900	17000	35000	N/A		ug/kg	2 U	2 U	1.9 U	0.51 J	1.9 U	1.9 U	1.9 U
4,4-DDT	1900	17000	1200	N/A		ug/kg	2 U	2 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
alpha-BHC	100	910	4	N/A		ug/kg	2 U	2 U	1.9 U	0.38 JP	1.9 U	1.9 U	1.9 U
alpha-Chlordane	1800	16000	920	N/A		ug/kg	2 U	2 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
delta-BHC	490	4400	4.3	N/A		ug/kg	2 U	2 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Dieldrin	40	360	4	N/A		ug/kg	2 U	2 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Endosulfan Sulfate	47000	1200000	20000	N/A		ug/kg	2 U	2 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Endrin Ketone	2300	61000	5400	N/A		ug/kg	2 U	2 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
gamma-BHC	490	4400	4.3	N/A		ug/kg	2 U	2 U	1.9 U	0.46 JP	1.9 U	1.9 U	1.9 U
gamma-Chlordane	1800	16000	920	N/A		ug/kg	2 U	2 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Heptachlor	140	1300	840	N/A		ug/kg	2 U	2 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Heptachlor Epoxide	70	630	25	N/A		ug/kg	2 U	2 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
PCB-1260	320	2900	N/A	N/A		ug/kg	39 U	41 U	38 U	38 U	38 U	38 U	38 U
Explosives													
2,4,6-Trinitrotoluene	N/A		N/A	N/A		ug/kg	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Nitrobenzene	3900	100000	670	N/A		ug/kg	100 U	100 U	39 J	97 J	38 J	100 U	100 U
RDX	N/A		N/A	N/A		ug/kg	200 U	200 U	200 U	200 U	200 U	200 U	200 U

Shading => MDE Residential Soil and/or Protection of Groundwater Standard

Italicized => the ATC

Bold Border => the MDE Non-Residential Standard

See Att D for qualifiers

TABLE E3-4 SUMMARY OF REPORTED CONSTITUENTS IN SOIL

							Sample Name:	9-2-8-12	11-1-5-5-7	13-2-4-8	13-1-3-4.6	13A-1-3-5.5	SO-DUP1
							Sample Date:	12/15/2003	12/22/2003	12/19/2003	12/19/2003	12/16/2003	12/16/2003
							Parent Name:						13A-1-3-5.5
Analyte	MDE Residential	MDE Non-Residential	MDE GW Protection	Back-ground	Meade Bkgnd	Unit							
Metals													
Aluminum	7800	200000	N/A	11000	3300	mg/kg	2910	20100	2240 N	4410 N	3180	2900	
Antimony	12	82	N/A	N/A	0.387	mg/kg	0.28 UN	0.28 U	0.18 U	0.18 U	0.26 BN	0.22 UN	
Arsenic	2	3.8	N/A	3.6	1.67	mg/kg	1.1 B	6.4	1.3 B	1.7	1.6	1.7	
Barium	550	14000	N/A	N/A	16.8	mg/kg	14.7	68.7	15.9	21.9	20.4	30.8	
Beryllium	16	410	N/A	N/A	1.6	mg/kg	0.07 B	0.83	0.03 B	0.05 B	0.13 B	0.12 B	
Cadmium	3.9	100	N/A	N/A	0.057	mg/kg	0.01 U	0.34 B	0.02 U	0.02 U	0.01 U	0.01 U	
Calcium	N/A		N/A	N/A	46.4	mg/kg	231	386	209	155	133	116	
Chromium	23	610	N/A	28	17.3	mg/kg	6.3	30.4 E	5.6 *	6.4 *	12.6	12.2	
Cobalt	160	4100	N/A	N/A	4.5	mg/kg	0.07 U	6.9	0.45	0.87	0.13 B	0.14 B	
Copper	310	8200	N/A	N/A	39.2	mg/kg	1.7	14.2	2.7 *	5.2 *	12.3	12.3	
Iron	2300	61000	N/A	15000	33154	mg/kg	658	26900	2790 N*	3160 N*	1590	1980	
Lead	400	400	N/A	N/A	3.58	mg/kg	4.1	10	6.3	4.9	6.6	5.9	
Magnesium	N/A		N/A	N/A	400	mg/kg	101	2470	130	244	80.1	75.6	
Manganese	160	4100	N/A	480	54	mg/kg	1.6	205	14.6	10.8	3.6	4.4	
Mercury	0.1	0.12	N/A	0.51	0.0047	mg/kg	0.01 U	0.03 B	0.01 U	0.01 U	0.01 U	0.01 U	
Nickel	160	4100	N/A	N/A	3.92	mg/kg	0.1 U	14.1	0.87	1.9	0.4 B	0.49 B	
Potassium	N/A		N/A	N/A	453	mg/kg	394 N	890	267 N	198 N	612 N	514 N	
Selenium	39	1000	N/A	N/A	0.27	mg/kg	0.3 U	0.42 B	0.21 U	0.24 B	0.25 U	0.23 U	
Silver	39	1000	N/A	N/A	0.07	mg/kg	0.06 U	0.06 U	0.03 U	0.04 U	0.05 U	0.04 U	
Sodium	N/A		N/A	N/A	25.9	mg/kg	76.1 B	77.8 B	46.2 B	42.9 B	60.9 B	49.4 B	
Thallium	2	14	N/A	3.8	0.2	mg/kg	0.47 U	0.47 U	0.31 U	0.33 U	0.39 U	0.37 U	
Vanadium	55	1400	N/A	N/A	23.2	mg/kg	6.8	40.2	10.2 *	9.1 *	23.1	20.1	
Zinc	2300	61000	N/A	N/A	33.5	mg/kg	0.98 B	38.3	8	8.2	4.6	5.6	
General Chemistry													
Oil & Grease, Total	N/A		N/A	N/A		mg/kg	5.7 U	6 U	16	5.7 U	5.6 U	5.5 U	
TPH-DRO	230	620	N/A	N/A		mg/kg	5.7	4.6	10	5.9	4.6	4.8	
TPH-GRO	230000	620000	N/A	N/A		ug/kg	120 U	120 U	110 U	110 U	110 U	110 U	

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Italicized = > the ATC

Bold Border = > the MDE Non-Residential Standard

See Att D for qualifiers

TABLE E3-4 SUMMARY OF REPORTED CONSTITUENTS IN SOIL

							Sample Name:	13A-2-6-7.5	14-1-6.5-8	14-2-4-5.5	16-1-3-5	17-1-21.5-23	18-1-2-4
							Sample Date:	12/16/2003	12/16/2003	12/19/2003	12/22/2003	12/19/2003	12/22/2003
							Parent Name:						
Analyte	MDE Residential	MDE Non-Residential	MDE GW Protection	Back-ground	Meade Bkgnd	Unit							
VOC													
1,1,1-Trichloroethane	2200000	57000000	60000	N/A		ug/kg	5.6 U	5.3 U	5.5 U	5.4 U	5.8 U	5.5 U	
Acetone	N/A		N/A	N/A		ug/kg	11 U	11 U	7.3 J	5 J	12 U	11 U	
Carbon Disulfide	780000	20000000	19000	N/A		ug/kg	5.6 U	5.3 U	5.5 U	5.4 U	5.8 U	5.5 U	
Methylene Chloride	85000	760000	19	N/A		ug/kg	2.8 JB	2.9 JB	5.4 JB	6.8 JB	8 JB	6.5 JB	
SVOC													
1,2-Benzphenanthracene	87000	780000	150000	N/A		ug/kg	380 U	350 U	370 U	360 U	390 U	370 U	
2-Methylnaphthalene	160000	4100000	22000	N/A		ug/kg	42 J	350 U	370 U	360 U	390 U	370 U	
Benzaldehyde	N/A		N/A	N/A		ug/kg	380 U	350 U	370 U	360 U	390 U	370 U	
Benzo(a)anthracene	870	7800	1500	N/A		ug/kg	380 U	350 U	370 U	360 U	390 U	370 U	
Benzo(a)pyrene	330	780	370	N/A		ug/kg	380 U	350 U	370 U	360 U	390 U	370 U	
Benzo(b)fluoranthene	870	7800	4500	N/A		ug/kg	380 U	350 U	370 U	360 U	390 U	370 U	
bis(2-Ethylhexyl) Phthalate	46000	410000	2900000	N/A		ug/kg	380 U	350 U	370 U	360 U	390 U	370 U	
Diethyl Phthalate	6300000	160000000	450000	N/A		ug/kg	380 U	350 U	370 U	360 U	390 U	370 U	
Fluoranthene	310000	8200000	6300000	N/A		ug/kg	380 U	350 U	370 U	360 U	390 U	370 U	
Naphthalene	160000	4100000	330	N/A		ug/kg	380 U	350 U	370 U	360 U	390 U	370 U	
Nitrobenzene	3900	100000	670	N/A		ug/kg	380 U	350 U	370 U	360 U	390 U	370 U	
Phenanthrene	2300000	61000000	470000	N/A		ug/kg	380 U	350 U	370 U	360 U	390 U	370 U	
Pyrene	230000	6100000	680000	N/A		ug/kg	380 U	350 U	370 U	360 U	390 U	370 U	
Pesticides/PCB													
4,4-DDD	2700	24000	11000	N/A		ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	2 U	1.8 U	
4,4-DDE	1900	17000	35000	N/A		ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	2 U	1.8 U	
4,4-DDT	1900	17000	1200	N/A		ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	2 U	1.8 U	
alpha-BHC	100	910	4	N/A		ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	2 U	1.8 U	
alpha-Chlordane	1800	16000	920	N/A		ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	2 U	1.8 U	
delta-BHC	490	4400	4.3	N/A		ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	2 U	1.8 U	
Dieldrin	40	360	4	N/A		ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	2 U	1.8 U	
Endosulfan Sulfate	47000	1200000	20000	N/A		ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	2 U	1.8 U	
Endrin Ketone	2300	61000	5400	N/A		ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	2 U	1.8 U	
gamma-BHC	490	4400	4.3	N/A		ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	2 U	1.8 U	
gamma-Chlordane	1800	16000	920	N/A		ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	2 U	1.8 U	
Heptachlor	140	1300	840	N/A		ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	2 U	1.8 U	
Heptachlor Epoxide	70	630	25	N/A		ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	2 U	1.8 U	
PCB-1260	320	2900	N/A	N/A		ug/kg	38 U	35 U	37 U	36 U	39 U	37 U	
Explosives													
2,4,6-Trinitrotoluene	N/A		N/A	N/A		ug/kg	100 U	100 U	100 U	100 U	100 U	100 U	
Nitrobenzene	3900	100000	670	N/A		ug/kg	88 J	100 U	51 J	100 U	100 U	100 U	
RDX	N/A		N/A	N/A		ug/kg	200 U	200 U	200 U	200 U	200 U	200 U	

Shading => MDE Residential Soil and/or Protection of Groundwater Standard

Italicized => the ATC

Bold Border => the MDE Non-Residential Standard

See Att D for qualifiers

TABLE E3-4 SUMMARY OF REPORTED CONSTITUENTS IN SOIL

							Sample Name:	13A-2-6-7.5	14-1-6.5-8	14-2-4-5.5	16-1-3-5	17-1-21.5-23	18-1-2-4
							Sample Date:	12/16/2003	12/16/2003	12/19/2003	12/22/2003	12/19/2003	12/22/2003
							Parent Name:						
Analyte	MDE Residential	MDE Non-Residential	MDE GW Protection	Back-ground	Meade Bkgnd	Unit							
Metals													
Aluminum	7800	200000	N/A	11000	3300	mg/kg	3420	10900	649 N	4030	241 N	4090	
Antimony	12	82	N/A	N/A	0.387	mg/kg	0.25 UN	0.24 UN	0.17 B	1.8	0.2 U	0.3 B	
Arsenic	2	3.8	N/A	3.6	1.67	mg/kg	2.2	2.3	3.9	2.1	1.1 B	2.2	
Barium	550	14000	N/A	N/A	16.8	mg/kg	12.7	38.7	2.5	14.9	1.1	14.5	
Beryllium	16	410	N/A	N/A	1.6	mg/kg	0.13 B	0.42	0.0062 U	0.14 B	0.0086 U	0.15 B	
Cadmium	3.9	100	N/A	N/A	0.057	mg/kg	0.01 U	0.01 U	0.01 U	0.08 B	0.02 U	0.09 B	
Calcium	N/A		N/A	N/A	46.4	mg/kg	142	488	50.5 B	60.3 B	16 B	209	
Chromium	23	610	N/A	28	17.3	mg/kg	8.4	11.8	8.7 *	6.3 E	1.5 *	7.3 E	
Cobalt	160	4100	N/A	N/A	4.5	mg/kg	1	3.3	0.09 B	1.4	0.04 U	1.3	
Copper	310	8200	N/A	N/A	39.2	mg/kg	6.8	7.8	3.8 *	30.3	1.6 *	4.2	
Iron	2300	61000	N/A	15000	33154	mg/kg	4710	10100	5000 N*	4980	4450 N*	5790	
Lead	400	400	N/A	N/A	3.58	mg/kg	3.6	5	1	364	0.44 B	3.9	
Magnesium	N/A		N/A	N/A	400	mg/kg	220	1400	28.1	288	7.9 B	356	
Manganese	160	4100	N/A	480	54	mg/kg	21.4	98	3.5	33.8	0.9	32.3	
Mercury	0.1	0.12	N/A	0.51	0.0047	mg/kg	0.02 B	0.01 U	0.01 U	0.01 U	0.01 U	0.01 B	
Nickel	160	4100	N/A	N/A	3.92	mg/kg	1.5	7.7	0.13 B	9.9	0.13 U	2.5	
Potassium	N/A		N/A	N/A	453	mg/kg	333 N	593 N	37.7 N	150	32 N	185	
Selenium	39	1000	N/A	N/A	0.27	mg/kg	0.26 U	0.4 B	0.17 U	0.26 U	0.24 U	0.27 U	
Silver	39	1000	N/A	N/A	0.07	mg/kg	0.05 U	0.05 U	0.03 U	0.05 U	0.04 U	0.05 U	
Sodium	N/A		N/A	N/A	25.9	mg/kg	57.9 B	92 B	32.8 B	67.2 B	44.8 B	58.2 B	
Thallium	2	14	N/A	3.8	0.2	mg/kg	0.41 U	0.4 U	0.25 U	0.42 U	0.35 U	0.43 U	
Vanadium	55	1400	N/A	N/A	23.2	mg/kg	14.9	21	7.2 *	10	2.3 *	11	
Zinc	2300	61000	N/A	N/A	33.5	mg/kg	5.1	22.2	1.9	8.6	1.3 B	8.3	
General Chemistry													
Oil & Grease, Total	N/A		N/A	N/A		mg/kg	5.6 U	5.1 U	8.5	5.2 U	6.5	5.5 U	
TPH-DRO	230	620	N/A	N/A		mg/kg	4.5	4	3.5	8	4.9	3.2	
TPH-GRO	230000	620000	N/A	N/A		ug/kg	110 U	110 U	110 U	110 U	120 U	110 U	

Shading = > MDE Residential Soil and/or Protection of Groundwater Standard

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Bold Border = > the MDE Non-Residential Standard

See Att D for qualifiers

TABLE E3-5 SUMMARY OF REPORTED CONSTITUENTS IN GROUNDWATER

Sample Name:					1-2	2-6	3-1	6-2	AREA7-1	8-4	03-DE-22-DPI	8-11	8-13	AREA9-1	13A-1	13-2	14-1	16-1
Sample Date:					12/29/2003	12/30/2003	12/16/2003	12/29/2003	12/15/2003	12/22/2003	12/22/2003	12/22/2003	12/18/2003	12/15/2003	12/16/2003	12/18/2003	12/16/2003	12/22/2003
Parent Name:											8-4							
Analyte	MDE	G B G U	Unit	T/D														
VOC																		
Acetone	N/A		ug/L	N	7.8 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U					
Methylene Chloride	5		ug/L	N	9.3 JB	10 B	2.5 JB	7.2 JB	1.9 JB	1.4 JB	10 U	10 U	2.1 JB	1.8 JB	2 JB	2.2 JB	1.9 JB	1.2 JB
SVOC																		
bis(2-Ethylhexyl) Phthalate	20		ug/L	N	1.7 J	1.4 J	3.1 J	1.9 J	28 B	1.5 JB	1.9 JB	1.8 JB	1.1 J	1.8 JB	6.6 J	11 U	2.2 J	2.1 JB
di-n-Butyl Phthalate	370		ug/L	N	10 U	3.5 J	13 U	1.4 J	11 U	10 U	2.1 JB	1.4 JB	10 U	11 U	12 U	11 U	11 U	10 U
di-n-Octyl Phthalate	73		ug/L	N	10 U	10 U	13 U	11 U	8.4 J	10 U	10 U	10 U	10 U	11 U	12 U	11 U	11 U	10 U
Pesticides/PCB																		
4,4-DDD	0.28		ug/L	N	0.05 U	0.05 U	0.06 U	0.05 U	0.06 U	0.05 U	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.03 JP	0.05 U	0.05 U
4,4-DDE	0.2		ug/L	N	0.05 U	0.05 U	0.06 U	0.05 U	0.06 U	0.05 U	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.03 J	0.05 U	0.05 U
4,4-DDT	0.2		ug/L	N	0.05 U	0.05 U	0.06 U	0.05 U	0.06 U	0.05 U	0.05 U	0.05 U	0.03 JP	0.05 U	0.05 U	0.05 JP	0.05 U	0.05 U
alpha-BHC	0.08		ug/L	N	0.05 U	0.05 U	0.06 U	0.05 U	0.06 U	0.05 U	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.02 J	0.05 U	0.05 U
gamma-BHC	0.2		ug/L	N	0.05 U	0.05 U	0.06 U	0.05 U	0.06 U	0.05 U	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.04 JP	0.05 U	0.05 U
Heptachlor	0.4		ug/L	N	0.05 U	0.05 U	0.06 U	0.05 J	0.06 U	0.05 U	0.05 U	0.05 U	0.06 U	0.05 U				
PCB-1260	0.5		ug/L	N	1 U	1 U	1.1 U	1 U	1.1 U	1 U	1 U	1 U	1.1 U	1 U	1 U	0.52 J	1 U	1 U
Explosives																		
2,4,6-Trinitrotoluene	N/A		ug/L	N	0.32	0.18 J	0.26 U	0.24 J	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Metals																		
Aluminum	50	879	ug/L	T	100 B	55.5 B	279	284	448	225	531	73.4 B	17.7 U	17.7 U	143 B	410	17.7 U	381
Antimony	6		ug/L	T	1.9 U	1.9 U	2.6 U	1.9 U	2.6 U	2.9 B	1.9 U	5.8 B	2.6 U	2.6 U	2.6 U	2.9 B	3 B	5.6 B
Barium	2000	150	ug/L	T	145	38.7	160	59.9	92.1	50	77.9	95.8	61.7	10.4	26.7	54.3	43.3	134
Beryllium	4	1.1	ug/L	T	0.1 U	0.1 U	0.23 B	0.1 U	0.3 B	0.1 U	0.1 U	0.1 U	0.2 U	0.26 B				
Cadmium	5	32	ug/L	T	0.44 B	0.39 B	0.43 B	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.33 B	0.72 B	0.3 U	0.67 B
Calcium	N/A	21000	ug/L	T	98100	24200	13000	3410	11200	6620	6790	6170	19000	17900	8030	12100	25400	6420
Chromium	100		ug/L	T	0.74 B	0.57 B	1 B	0.69 B	2.3 B	0.8 B	0.5 B	0.49 B	1.4 B	35.7	1.8 B	2.5 B	1.2 B	1.2 B
Cobalt	73	18.9	ug/L	T	9.6	0.4 U	43.5	5.3	3.4 B	114	49.6	10.6	4.5 B	0.9 U	2.9 B	4.1 B	5.3	18.5
Copper	1300	241	ug/L	T	4.1 B	2.4 B	2.7 B	0.8 U	4.3 B	0.89 B	2.4 B	0.8 U	3.7 B	2.7 B	8.8 B	14.8	4.5 B	37.1
Iron	300	45160	ug/L	T	714	650	314	2250	4040	2420	1320	1210	4560	229	1210	2170	487	1250
Lead	15	1.5	ug/L	T	2.2 U	2.2 U	1.1 B	2.2 U	1.5 B	2.2 U	2.2 U	2.2 U	1.3 B	1.3 B	1.9 B	4.1 B	1.5 B	313
Magnesium	N/A	10900	ug/L	T	19100	3390	4130	1000	3310	1790	1910	2100	5040	1690	1130	1360	5720	3700
Manganese	50	528	ug/L	T	295 E	36.4 E	517	139 E	89.3	1460 E	780 E	118 E	117	19.2	101	202	140	211 E
Nickel	73	24.6	ug/L	T	3.9 B	3.4 B	6.4 B	4 B	5.6 B	16.2	12.8	2.2 B	4.6 B	17.2	3 B	2.5 B	2.2 B	300
Potassium	N/A	4832	ug/L	T	22200	2130	2340	1090	4100	975	789	4730	5280	1370	1050	860	7470	1710
Silver	18		ug/L	T	0.7 U	0.7 U	1.1 B	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	1.2 B
Sodium	N/A		ug/L	T	2630	2570	4210	1470 B	10300	1650 B	1550 B	1400 B	9080	1160 B	1050 B	1600 B	11900	4410
Vanadium	50		ug/L	T	0.9 B	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	1 U	1 U	1.4 B	1 U	0.72 B
Zinc	1100	68.7	ug/L	T	22.7	127	34.2	44.7	27.1	125	102	8.8 B	8.4 B	5.1 B	86.3	119	12 B	64.7
General Chemistry																		
Oil & Grease, Total Recovered	N/A		mg/L	N	8.1	6.7	5 U	5 U	11	10	11	5 U	5 U	5 U	21	8.2	5 U	11
TPH-DRO	0.047		mg/L	N	0.33	0.21	0.15	0.21	0.15	0.22	0.24	0.17	0.17	0.11	0.19	0.23	0.11	0.18

Soil

One subsurface soil sample was collected from each of five locations within AOI 1. Concentrations of VOCs, explosives, and DRO were reported in soil samples collected from AOI 1 in concentrations that did not exceed MDE standards. Two metals were reported in concentrations that exceeded both MDE standards and ATC. SVOCs, pesticides, PCBs, oil and grease, and GRO were not reported.

Trace concentrations of VOCs 1,1,1-trichloroethane, acetone, and methylene chloride were reported in soil samples collected from AOI 1 in concentration that did not exceed MDE standards. The concentrations of 1,1,1-trichloroethane, ranging up to 2.3 micrograms per kilogram ($\mu\text{g}/\text{kg}$) in location 1-2(duplicate), were reported in locations 1-1, 1-2, and 1-3, located south and east, and at the edge of the fill area. Explosive compounds 2,4,6-trinitrotoluene (TNT) was reported in location 1-4 (58 $\mu\text{g}/\text{kg}$), and nitrobenzene was reported in the soil samples collected from locations 1-4 (36 $\mu\text{g}/\text{kg}$) and 1-5 (33 $\mu\text{g}/\text{kg}$). Locations 1-4 and 1-5 were located on top of and within the fill area.

Several metals were reported in each of the soil samples. Arsenic (5.4 mg/kg) and iron (19,300 mg/kg) were reported in concentrations exceeding both the MDE cleanup standard for residential use scenario and the ATC in location 1-1. The reported concentration of arsenic also exceeded the MDE standard for non-residential site use.

Groundwater

One groundwater sample was collected from location 1-2, located on the south side and down slope from the fill area. Methylene chloride was reported at a concentration exceeding the MDE standard. However, methylene chloride was also reported in the laboratory blank, and is therefore not likely attributable to site impact. Similarly, DRO exceeded the MDE standard, but was also reported in the rinsate blank at a similar concentration, and is not a likely site contaminant.

The SVOC bis (2-ethylhexyl) phthalate as well as oil and grease were reported at a concentration below the MDE standard.

TNT was reported at 0.32 microgram per liter ($\mu\text{g}/\text{L}$). There is no MDE standard for TNT.

Several metals were reported, with concentrations of aluminum (100 $\mu\text{g}/\text{L}$), iron (714 $\mu\text{g}/\text{L}$), and manganese (295 $\mu\text{g}/\text{L}$) exceeding the MDE cleanup standard.

Pesticides and PCBs were not reported in the groundwater sample collected from AOI 1.

E3.3.6 AOI 2

Soil

One subsurface soil sample was collected from each of six locations within AOI 2. Concentrations of VOCs, SVOCs, pesticides, PCBs, explosives, oil and grease, and DRO were reported in soil samples collected from AOI 2 in concentrations that did not exceed

MDE standards. Five metals were reported in concentrations exceeding the MDE cleanup standard. One metal exceeded both MDE standards and ATC. GRO were not reported.

The reported VOCs included methylene chloride, acetone, and 1,1,1-trichloroethane (ranging up to 2.2 µg/kg in location 2-6). The majority of the SVOCs were reported in the samples collected from locations 2-5, 2-6, and 2-1. The majority of the SVOC constituents in locations 2-1 and 2-6 were polynuclear aromatic hydrocarbons (PAHs) and phthalates. Benzaldehyde was reported at a concentration of 14,000 µg/kg at location 2-5. However, an MDE standard was not available for benzaldehyde. The highest concentrations of pesticides and PCB were reported in the sample collected from 2-1, ranging in concentration to 26 µg/kg of 4,4'-DDT and 280 µg/kg PCB. Reported concentrations of explosives included cyclotrimethylene trinitramine (RDX) (91 µg/kg) in 2-2 and nitrobenzene (ranging to 130 µg/kg in 2-4) in locations 2-4 and 2-6. DRO were reported in each of the soil samples, ranging in concentration up to 86 µg/kg reported in the soil sample collected from 2-4. Oil and grease was reported in one sample, the duplicate collected from 2-6.

Arsenic, reported in the sample collected from 2-6 (7.1 mg/kg), exceeded both the MDE (residential and non-residential) standard and the ATC. Vanadium was also reported exceeding the MDE residential soil standard in location 2-6 (79.5 mg/kg), but did not exceed the non-residential standard. Vanadium does not have an associated ATC.

Groundwater

One groundwater sample was collected from location 2-6, located on the east side of a geophysical anomaly (Versar 2003). Methylene chloride was reported at a concentration exceeding the MDE standard. However, methylene chloride was also reported in the laboratory blank, and is therefore not likely attributable to site impact. Similarly, DRO exceeded the MDE standard, but was also reported in the rinsate blank at a similar concentration, and is not a likely site contaminant.

Trace concentrations of phthalates, which are SVOCs, and oil and grease were reported in concentrations that did not exceed the MDE cleanup standard. A trace concentration of TNT (0.18 µg/L) was also reported. TNT does not have an associated MDE cleanup standard. Several metals were reported in the groundwater sample collected from AOI 2. Both aluminum (55.5 µg/L) and iron (650 µg/L) exceeded the MDE standard.

E3.3.7 AOI 3

Soil

One subsurface soil sample was collected from one location within AOI 3. A trace concentration of methylene chloride was reported. However, methylene chloride was also reported in the associated laboratory blank. DRO (4.5 mg/kg) were also reported in concentrations that did not exceed MDE standards. Several metals were reported in concentrations that did not exceed the MDE standard or the ATC. However, the reported concentration of arsenic (4.4 mg/kg) exceeded both the MDE standard (residential and

non-residential) and the ATC. SVOCs, pesticides, PCBs, explosives, oil and grease, and GRO were not reported.

Groundwater

One groundwater sample was collected from location 3-1. A trace concentration of the VOC methylene chloride and the SVOC bis(2-ethylhexyl) phthalate were reported in concentrations that did not exceed the MDE groundwater standard. DRO exceeded the MDE standard, but was also reported in the rinsate blank at a similar concentration, and is not a likely site contaminant.

Several metals were reported, three of which exceeded the MDE cleanup standard: aluminum, iron, and manganese were reported at concentrations of 279 µg/L, 314 µg/L, and 517 µg/L, respectively.

Pesticides, PCBs, explosives, oil and grease, and GRO were not reported.

E3.3.8 AOI 4

Soil

One subsurface soil sample was collected from one location within AOI 4. A trace concentration of methylene chloride was reported. However, methylene chloride was also reported in the associated laboratory blank. DRO (5.6 mg/kg) were reported in concentrations that did not exceed MDE standards. A trace concentration of TNT (59 µg/kg) was reported. TNT does not have a MDE cleanup standard. Several metals were reported in concentrations that did not exceed the MDE standard or the ATC.

SVOCs, pesticides, PCB, oil and grease, and GRO were not reported.

Groundwater

Groundwater was not collected from AOI 4.

E3.3.9 AOI 5

Soil

One surface soil (location 5-1) sample and one subsurface soil (location 5-2) sample were collected from within AOI 5. The surface soil sample was collected from a container storage area with a visibly stained ground surface. As discussed below, results indicate substantially more impact to the surface soil.

VOCs were not reported, with the exception of methylene chloride. The concentration of methylene chloride reported in the surface soil sample exceeded the protection of groundwater standard. However, methylene chloride is a common laboratory contaminant that was also reported in the associated laboratory blank.

SVOCs, pesticides, PCBs, explosives, oil and grease, and GRO were not reported in the subsurface soil sample. Two metals were reported in the subsurface soil results in concentrations that exceeded the associated MDE cleanup standard for residential site use. However, neither exceeded the ATC or the MDE standard for non-residential site use. A trace concentration of DRO (3.6 mg/kg) was also reported.

Several PAHs (ranging up to 120 µg/kg of benzo(b)fluoranthene) and pesticides (ranging up to 220 µg/kg of gamma chlordane) were reported in the surface soil sample in concentrations that did not exceed the MDE standards. Oil and grease were reported at a concentration of 180 mg/kg. A MDE standard does not exist for oil and grease.

Several metals reported in the surface soil sample collected from 5-1 exceeded the MDE cleanup standard for residential use. Two metals, arsenic (6.1 mg/kg) and mercury (0.65 mg/kg) also exceeded the ATC and the MDE standard for non-residential site use. DRO, reported at 1,200 mg/kg, also exceeded MDE cleanup standards for residential and non-residential use.

Additional data gathered during an SI conducted by Versar also indicated elevated concentrations of several constituents in this area (Versar 2001).

Groundwater

Groundwater was not encountered at AOI 5 during the limited SI.

E3.3.10 AOI 6

Soil

One subsurface soil sample was collected from each of three locations within AOI 6. Trace concentrations of 1,1,1-trichloroethane, acetone, and methylene chloride reported in concentrations that did not exceed MDE cleanup standards. A trace concentration of the pesticide delta-BHC (0.48 µg/kg) and the explosive nitrobenzene (0.41 µg/kg) were reported in the subsurface soil sample collected from location 6-1. Metals were reported in each of the three samples in concentrations that did not exceed ATCs. Concentrations of DRO, ranging up to 7.6 mg/kg in the sample collected from 6-1 were also reported, but did not exceed the MDE standard.

SVOCs, PCBs, GRO, and oil and grease were not reported in the soil samples collected from AOI 6.

Groundwater

One groundwater sample was collected from within AOI 6, from location 6-2. Trace concentrations of the VOC methylene chloride (7.2 µg/L), the SVOCs bis(2-ethylhexyl) phthalate (1.9 µg/L) and di-n-butyl phthalate (1.4 µg/L), the pesticide heptachlor (0.05 µg/L), and the explosive TNT (0.24 µg/L) were reported in the groundwater sample collected from 6-2. The reported concentration of methylene chloride exceeded the MDE standard. However, methylene chloride was also reported in the laboratory blank, and is therefore not likely attributable to site impact. Similarly, DRO, reported at a

concentration of 0.21 mg/L, exceeded the MDE standard, but was also reported in the rinsate blank at a similar concentration, and is not a likely site contaminant.

Several metals were reported in the groundwater sample collected from AOI 6. Concentrations of aluminum (270 µg/L), iron (2,250 µg/L), and manganese (139 µg/L) were reported in concentrations exceeding the MDE groundwater cleanup standard.

PCB and oil and grease were not reported in the groundwater sample collected from AOI 6.

E3.3.11 AOI 7

Soil

One subsurface soil sample was collected from each of two locations within AOI 7. Trace concentrations of methylene chloride were reported in each sample. Methylene chloride was also reported in the associated laboratory blanks in similar concentrations. A trace concentration of the explosive nitrobenzene (68 µg/kg) was reported in the subsurface soil sample collected from location 7-2. The reported concentration did not exceed the MDE soil cleanup standard. Similarly, the reported concentrations of DRO in 7-1 (4.1 mg/kg) and 7-2 (3.5 mg/kg) did not exceed the standard.

Metals were reported in each of the samples. The reported concentrations of iron in 7-1 and iron and arsenic in 7-2 exceeded the MDE cleanup standard for residential site use. However, the reported concentrations did not exceed the ATC or the MDE standard for non-residential site use.

SVOCs, pesticides, PCB, oil and grease, and GRO were not reported in the soil samples collected from AOI 7.

Groundwater

One groundwater sample was collected from within AOI 7, from location 7-1. Methylene chloride was reported in concentrations that did not exceed the MDE cleanup standard. Methylene chloride was also reported in the associated laboratory blank. Similarly, DRO was reported in concentrations that exceeded the MDE standard, but was also reported in the rinsate blank at a similar concentration, and is not a likely site contaminant.

Two phthalates were reported in the groundwater sample collected from AOI 7. The reported concentration of bis(2-ethylhexyl) phthalate (28 µg/L) exceeded the MDE cleanup standard. However, the phthalate was also reported in the blank, and is therefore not a likely site contaminant.

Reported concentrations of aluminum (448 µg/L), iron (4040 µg/L), and manganese (89.3 µg/L) exceeded the MDE groundwater cleanup standard.

Pesticides, PCBs, explosives, oil and grease, and GRO were not reported.

E3.3.12 AOI 8

Soil

One subsurface soil sample was collected from each of 13 locations placed within AOI 8. Trace concentrations of the VOCs 1,1,1-trichloroethane, acetone, and methylene chloride, as well as oil and grease, DRO and GRO, were reported in concentrations that did not exceed the MDE soil cleanup standards. Concentrations of 1,1,1-trichloroethane ranged up to 2 µg/kg in the soil sample collected from location 8-2.

One SVOC, bis(2-ethylhexyl)phthalate, was reported in the sample collected from location 8-7 at a concentration that did not exceed the MDE standard. Pesticides were reported in samples collected from locations 8-12 and 8-5, ranging in concentration up to 0.5 µg/kg of endosulfan sulfate. Reported pesticide concentrations did not exceed the MDE standards.

One or more of the explosives compounds TNT, nitrobenzene, and/or RDX were reported in 8 of the 13 samples (8-1, 8-3, 8-6, 8-7, 8-8, 8-9, 8-12, and 8-13), ranging in concentration up to 180 µg/kg of RDX in the sample collected from location 8-9. Reported concentrations of nitrobenzene did not exceed the MDE standards. Note that TNT and RDX do not have associated MDE standards.

Several metals were reported in the soil samples collected from AOI 8. The arsenic concentration reported in the sample collected from location 8-7 (7.9 mg/kg) exceeded both the MDE cleanup standards (for residential and non-residential site use) and the ATC.

PCBs were not reported in the samples collected from AOI 8.

Groundwater

Groundwater samples were collected from three locations, 8-4, 8-11, and 8-13, within AOI 8. Trace concentrations of VOCs, SVOCs, pesticides, and oil and grease were reported in concentrations that did not exceed the MDE cleanup standards for groundwater. DRO was reported in concentrations exceeding the standard in each of the samples. However, DRO was also reported in the rinsate blank at a similar concentration, and is not a likely site contaminant.

Reported concentrations of aluminum, iron, and manganese exceeded the MDE standards in each of the groundwater samples. Cobalt also exceeded the standard in a duplicate collected from location 8-4.

PCBs, explosives, and DRO were not reported in the groundwater samples collected from AOI 8.

E3.3.13 AOI 9

Soil

One subsurface soil sample was collected from each of two locations within AOI 9. The VOC methylene chloride, the explosive compound nitrobenzene, and DRO were reported in the subsurface soil samples in trace concentrations that did not exceed the MDE soil cleanup criteria. The concentration of nitrobenzene (47 µg/kg) was reported in the sample collected from location 9-1.

Iron was reported at a concentration exceeding the MDE standard for residential site use in the sample collected from location 9-1. However, the reported concentration did not exceed the ATC or the MDE standard for non-residential site use.

SVOCs, pesticides, PCBs, oil and grease, and GRO were not reported.

Groundwater

One groundwater sample was collected from location 9-1. Methylene chloride and bis (2-ethylhexyl)phthalate were reported in trace concentrations that did not exceed the MDE cleanup standard for groundwater. The reported concentration of DRO exceeded the standard. However, DRO was also reported in the rinsate blank at a similar concentration, and is not a likely site contaminant.

Several metals were reported, but concentrations did not exceed the MDE standard. The reduced concentrations of manganese and iron, in comparison with other groundwater samples collected at site, may indicate possible biological activity in the vicinity of AOI 9.

E3.3.14 AOI 11

Soil

One subsurface soil sample was collected adjacent to a presumed foundation within AOI 11. The VOCs acetone, carbon disulfide, and methylene chloride, as well as DRO, were reported in concentrations that did not exceed the MDE soil cleanup criteria.

Several metals, including aluminum (20,100 mg/kg), arsenic (6.4 mg/kg), chromium (30.4 mg/kg), and iron (26,900 mg/kg) were reported in concentrations that exceeded both the MDE cleanup standard for residential site use and the ATC. The reported concentration of arsenic also exceeded the MDE standard for non-residential site use. Several other metals, such as barium, nickel, vanadium, and zinc, were generally elevated in comparison to concentrations reported in samples collected from other AOIs.

SVOCs, pesticides, PCBs, explosives, oil and grease, and GRO were not reported.

Groundwater

Groundwater was not encountered in AOI 11.

E3.3.15 AOI 13

Soil

One subsurface soil sample was collected from each of two locations within AOI 13. The VOC methylene chloride, the SVOC/PAH 2-methylnaphthalene, several pesticides, the explosive nitrobenzene, as well as oil and grease, and DRO were reported in concentrations that did not exceed MDE cleanup standards for soil.

The pesticides, ranging in concentration to 0.51 µg/kg of 4,4'-DDT, were reported in the sample collected from 13-1. The PAH, 2-methylnaphthalene (43 µg/kg), and oil and grease (16 µg/kg) were reported in the soil sample collected from 13-2. Methylene chloride, nitrobenzene, and DRO were reported in each of the two samples.

The reported concentration of iron in each of the two samples exceeded the MDE standard for residential site use, but did not exceed the ATC or MDE standard for non-residential site use.

PCBs and GRO were not reported in the soil samples collected from AOI 13.

Groundwater

One groundwater sample was collected from location 13-2. Methylene chloride, oil and grease, bis (2-ethylhexyl)phthalate, and several pesticides were reported in trace concentrations that did not exceed the MDE cleanup standard for groundwater. The reported pesticides ranged in concentration to 0.05 µg/L of 4,4'-DDT. The reported concentration of DRO exceeded the standard. However, DRO was also reported in the rinsate blank at a similar concentration, and is not a likely site contaminant.

The PCB aroclor 1260, reported at a concentration of 0.52 µg/L, exceeded the MDE cleanup standard.

Reported concentrations of aluminum (410 µg/L), iron (2,170 µg/L), and manganese (202 µg/L), exceeded the MDE groundwater cleanup standard.

Explosives and GRO were not reported.

E3.3.16 AOI 13A

Soil

One subsurface soil sample was collected from each of two locations within AOI 13A. The VOC methylene chloride, the SVOC/PAH 2-methylnaphthalene, the explosive nitrobenzene, and DRO were reported in concentrations that did not exceed MDE cleanup standards for soil. The PAH, 2-methylnaphthalene was reported in the sample collected from 13A-2 at a concentration of 42 µg/kg. DRO, methylene chloride, and nitrobenzene were reported in both samples. The concentration of nitrobenzene ranged up to 88 µg/kg in the sample collected from 13A-2.

The reported concentrations of arsenic and iron from the sample collected from 13A-2 exceeded the MDE standard for residential site use, but did not exceed the ATC or the MDE standard for non-residential site use.

Pesticides, PCBs, oil and grease, and GRO were not reported in the soil samples collected from AOI 13A.

Groundwater

One groundwater sample was collected from location 13A-1. Methylene chloride, bis (2-ethylhexyl)phthalate, and oil and grease were reported in trace concentrations that did not exceed the MDE cleanup standard for groundwater. The reported concentration of DRO exceeded the standard. However, DRO was also reported in the rinsate blank at a similar concentration, and is not a likely site contaminant.

Reported concentrations of aluminum (143 µg/L), iron (1,210 µg/L), and manganese (101 µg/L), exceeded the MDE groundwater cleanup standard.

Pesticides, PCBs, explosives, and GRO were not reported.

E3.3.17 AOI 14

Soil

One subsurface soil sample was collected from each of two locations within AOI 14. Acetone, methylene chloride, nitrobenzene, oil and grease and DRO were reported in trace concentrations that did not exceed the MDE soil cleanup standards. Acetone (7.3 µg/kg), nitrobenzene (51 µg/kg) and oil and grease (8.5 mg/kg) were reported in the sample collected from location 14-2. Methylene chloride and DRO were reported in both samples.

The arsenic concentration reported in the sample collected from 14-2 (3.9 mg/kg) exceeded both MDE soil cleanup standards (for residential and non-residential site use) and the ATC.

SVOCs, pesticides, PCBs, and GRO were not reported.

Groundwater

One groundwater sample was collected from location 14-1. Methylene chloride and bis(2-ethylhexyl)phthalate were reported in trace concentrations that did not exceed the MDE groundwater cleanup standard. The reported concentration of DRO exceeded the standard. However, DRO was also reported in the rinsate blank at a similar concentration, and is not a likely site contaminant.

Reported concentrations of iron (487 µg/L) and manganese (140 µg/L) exceeded the MDE standard.

Pesticides, PCBs, explosives, oil and grease, and GRO were not reported in the groundwater sample collected from AOI 14.

E3.3.18 AOI 16

Soil

One subsurface soil sample was collected from one location within AOI 16. Acetone (5 µg/kg), methylene chloride, and DRO were reported in trace concentrations that did not exceed the MDE soil cleanup standard.

Some metals concentrations, such as lead (364 mg/kg), antimony (1.8 mg/kg), and copper (30.3 mg/kg) were higher in concentration than the metals concentrations reported in soil samples from other AOIs. However, the reported concentrations did not exceed the ATC.

SVOCs, pesticides, PCBs, explosives, oil and grease, and GRO were not reported in the soil sample collected from AOI 16.

Groundwater

One groundwater sample was collected from location 16-1. Methylene chloride, oil and grease, and bis(2-ethylhexyl)phthalate were reported in trace concentrations that did not exceed the MDE groundwater cleanup standard. The reported concentration of DRO exceeded the standard. However, DRO was also reported in the rinsate blank at a similar concentration, and is not a likely site contaminant.

Reported concentrations of aluminum (381 µg/L), iron (1,250 µg/L), lead (313 µg/L), manganese (211 µg/L), and nickel (300 µg/L) exceeded the MDE standard.

Pesticides, PCBs, explosives, and GRO were not reported in the groundwater sample collected from 16-1.

E3.3.19 AOI 17

Soil

One subsurface soil sample was collected from AOI 17. Methylene chloride, oil and grease, and DRO were reported in trace concentrations that did not exceed the MDE soil cleanup standard.

The reported concentration of iron exceeded the MDE standard for residential site use. However the concentration of iron did not exceed the ATC or the MDE standard for non-residential site use.

SVOCs, pesticides, PCBs, explosives, and GRO were not reported.

Groundwater

Groundwater samples were not collected from AOI 17.

E3.3.20 AOI 18

Soil

One subsurface soil sample was collected from AOI 18. Methylene chloride, oil and grease, and DRO were reported in trace concentrations that did not exceed the MDE soil cleanup standard.

The reported concentrations of arsenic and iron exceeded the MDE standard for residential site use. However the concentrations did not exceed the ATCs or the MDE standard for non-residential site use.

SVOCs, pesticides, PCBs, explosives, oil and grease, and GRO were not reported.

Groundwater

Groundwater samples were not collected from AOI 18.

E3.3.21 Golf Greens

Soil

One surface soil sample was collected from each of five locations placed at the down slope fringe of golf greens (Figure E1-1). A duplicate sample was also collected from Green-SS-2.

The samples were analyzed for herbicides and pesticides only. Herbicides were not reported. Reported concentrations of the pesticides alpha chlordane, dieldrin, gamma chlordane, and heptachlor epoxide exceeded the MDE soil cleanup standards for residential use and protection of groundwater.

Alpha chlordane exceeded both the residential soil cleanup standard and protection of groundwater standard in the samples collected from Green-SS-1 (2,300 µg/kg) and Green-SS-3 (2,200 µg/kg). The reported concentration in Green-SS-5 (1,300 µg/kg) exceeded the groundwater protection standard but not the residential soil standard.

Dieldrin exceeded the protection of groundwater standard in the samples collected from Green-SS-2 (6.6 µg/kg), Green-SS-4 (12 µg/kg), and Green-SS-5 (43 µg/kg). The reported dieldrin concentration from Green-SS-5 also exceeded the MDE residential soil cleanup standard.

Gamma chlordane exceeded both standards in the sample collected from Green-SS-1 and exceeded the protection of groundwater standard only in the samples collected from Green-SS-3 and Green-SS-5.

Heptachlor epoxide, ranging in concentration up to 730 µg/kg in the sample collected from Green-SS-3, exceeded the MDE soil cleanup standard and protection of groundwater criteria in each of the samples. The concentration reported in Green-SS-3 also exceeded the MDE standard for non-residential site use.

Groundwater

Groundwater samples were not collected from the vicinity of the golf greens.

E4.0 SUMMARY AND CONCLUSION

Although this investigation was not performed under the MDE VCP, the VCP sets parameters, based in part on ASTM site assessment standards and EPA Comprehensive Environmental Restoration, Compensation, and Liability Act (CERCLA) regulations and guidance, to assist in assessing whether the site may require further evaluation. The determination lies primarily in assessing site chemical constituents in reference to MDE cleanup standards and site reconnaissance and historical data review results.

E4.1 SUMMARY OF SOIL QUALITY

VOCs, SVOCs, pesticides, PCBs, explosives, metals, oil and grease, DRO and GRO were reported in soil at the site. Pesticides, metals, and DRO exceeded MDE soil cleanup standards.

The pesticides alpha-chlordane, dieldrin, and heptachlor epoxide exceeded MDE soil cleanup standards in the surface soil samples collected from around the golf greens. Reported pesticide concentrations in four of the five surface soil samples exceeded the residential MDE standards. Each of the samples exhibited concentrations exceeding protection of groundwater standard. One reported concentration of heptachlor epoxide exceeded the non-residential MDE standard.

The metals aluminum, arsenic, chromium, iron, manganese, mercury, and vanadium were reported in concentrations exceeding MDE soil cleanup standards. However, reported concentrations of manganese did not exceed the ATC for Eastern Maryland, and is likely to be attributable to natural background concentrations. The concentration of aluminum exceeded the ATC in the sample collected from AOI 11. Arsenic was reported in concentrations exceeding the ATC in seven samples, collected from AOIs 1, 2, 3, 5, 8, 11, and 14, and ranging up to 7.9 mg/kg in location 8-7. The reported concentration of chromium and mercury exceeded the ATCs in the subsurface soil sample collected from AOI 11 and the surface soil sample from AOI 5, respectively. The reported concentration of vanadium exceeded the MDE cleanup value in just one sample, 11-1. Vanadium does not have an associated ATC.

The highest concentrations of six metals (barium, cadmium, mercury, selenium, silver, and zinc) were reported in the sample collected from 5-1. The highest concentrations of five metals (aluminum, beryllium, chromium, iron, and nickel) were reported in the sample collected from 11-1. The highest concentrations of copper and lead were reported in the sample collected from 16-1. The highest concentrations of cobalt and manganese were reported in the sample collected from 3-1.

Additional constituents such as explosive compounds TNT (ranging up to 76 µg/kg at location 8-12) and RDX (ranging up to 180 µg/kg at location 8-9) were reported in subsurface soil samples collected from AOIs 1, 4 and 8, and 2 and 8, respectively. Although the reported constituents do not have associated MDE standards, their existence indicates possible impact from former site activities.

DRO exceeded the MDE standard in one sample, collected from an area of stained surface soil in AOI 5.

E4.2 SUMMARY OF GROUNDWATER QUALITY

VOCs, SVOCs, pesticides, PCBs, TNT, metals, oil and grease, and DRO were reported in groundwater at the site. Of the reported constituents, the VOC methylene chloride, the SVOC bis (2-ethylhexyl) phthalate, and DRO were reported in concentrations exceeding MDE standard for groundwater. However, these constituents were also reported in laboratory blanks or equipment blanks in similar concentrations. Therefore, the reported concentrations are likely laboratory carry-over and do not represent site groundwater quality.

PCB Aroclor 1260 at AOI 13 was reported at an estimated concentration slightly exceeding the groundwater standard.

Aluminum, cobalt, iron, lead, manganese, and nickel also exceeded groundwater standards. Aluminum, iron, and manganese exceeded the standard in the majority of the groundwater samples, indicating that these may be representative of background concentrations. A background metals evaluation for groundwater was not performed. Lead and nickel exceeded the standard in the sample collected from AOI 16. The reported concentration of lead was over 100 times greater than the standard. Note that the highest concentration of lead in soil was reported in the sample from 16-1. Additional metals, such as cobalt, copper, and silver were also comparatively higher in AOI 16 groundwater, indicating potential impact from site constituents. Cobalt was reported at AOI 8-4 in concentrations exceeding the MDE standard. Location 8-4 was in a low-lying forested area. It is uncertain whether the cobalt is likely due to site impact or differing natural water quality. Other constituents reported in this sample were comparatively similar in concentration to those reported in the groundwater samples from other areas.

The reported concentrations of pesticides in groundwater did not exceed the MDE standard. A MDE standard did not exist for the reported TNT and oil and grease.

E4.3 CONCLUSIONS

Based upon results of the limited SI, it appears as though constituents, possibly attributable to site activities and in concentrations exceeding the MDE cleanup standard for residential areas, have impacted soil within AOIs 1, 2, 3, 5, 8, 11, 14 as well as the golf greens. The impact was reported in subsurface soil and limited to metals in AOIs 1, 2, 3, 8, 11 and 14. The impact was reported in surface soil for the golf greens and AOI 5, and was limited to DRO and metals in AOI 5, and to pesticides around the golf greens. One pesticide, heptachlor epoxide, also exceeded the non-residential MDE cleanup standard in a sample collected from the around the greens. Similarly, the reported concentration of DRO from the surface soil sample collected from AOI 5 exceeded the non-residential standard, and arsenic exceeded the non-residential MDE cleanup standard

in subsurface soil samples collected from AOIs 1, 2, 3, 5, 8, 11, and 14. The lateral and vertical extent of the constituents was not addressed during this limited SI.

Similarly for groundwater, it appears as though constituents, possibly attributable to site activities and in concentrations exceeding the MDE standards, have impacted groundwater in the vicinity of AOIs 13 and 16. Other AOIs, including AOIs 1, 2, 3, 6, 7, 8, 13A, 14, have concentrations of aluminum, iron, and manganese in exceedance of the MDE groundwater cleanup standard. Because these concentrations were reported throughout groundwater collected from Site M, they are likely indicative of background concentrations. However, a background evaluation for metals in groundwater was not performed and could not be located to confirm this presumption. Other AOIs may have been impacted by site constituents, but concentrations were either below the MDE standard, or a MDE groundwater standard did not exist (e.g., TNT in AOIs 1 and 2).

Further, the geophysical investigation indicated suspect buried conductive items in AOIs 2, 8, 14, 17. The Schonstedt magnetometer survey conducted for UXO avoidance within AOI 1 indicated substantial conductive metallic items in this area as well. Review of geophysical results obtained by Versar for AOIs 2 and 3 confirm the existence of targets in this area (Versar 2003). Many of these AOIs had been used as former training areas, and AOI 8 was indicated as a former mortar range. This, in conjunction with reported concentrations of explosives TNT in AOIs 1, 2, 4, 6 and 8 and RDX in AOIs 2 and 8 indicate that ordnance and explosive related material may be present in these areas. Whether the reported geophysical targets were UXO could not be confirmed due to the avoidance nature of this limited investigation. However, the possibility for UXO to exist at Site M cannot be dismissed. Based on results of the limited SI and historical records review, the highest possibility for the existence of UXO or ordnance and explosive materials likely lies within AOIs 1, 2, 6, and 8.

Under MDE guidance, exceedances of MDE standards may require additional evaluation to assess the extent of potential impact. Additionally, exceedance of MDE standards would typically require implementation of a remedial action plan to address the exceedance. One definition of a successful remediation under MDE guidance would be removal of impacted media such that constituents of potential concern are reported in concentrations exceeding the cleanup standards in less than 25 percent of samples collected from within the AOI, and no one constituent was reported in concentrations of more than 10 times the cleanup standard. Under this definition, Site M would require implementation of a remedial action plan due to exceedances of the “10 times” rule (for example, lead in groundwater in AOI 16).

In addition, MDE also defines chemical contaminant “hot spots” as any area with constituents exceeding 100 times the MDE standard, or with visible staining, imminent threat of release of hazardous substances (from drums, tanks, etc.), or actual or potential exposure routes to humans, animals, or the food chain for chemical concentrations in exceedance of the hot spot definition. Under the MDE guidance, these areas would be expected to be addressed and remediated under a remedial action plan. There are three locations that potentially represent hot spots based upon results gathered during the limited SI. The first is GREEN-SS-3 where heptachlor epoxide was reported in

concentrations exceeding 100 times the MDE residential cleanup standard. The second is groundwater at location 16-1 where lead was reported in concentrations exceeding 100 times the MDE groundwater standard. The third location is location 5-1, where visible staining was apparent. Containers of hazardous substances were also observed in the area of 5-1 and the maintenance shop. However, the containers were intact and did not appear to be an imminent threat for uncontrolled release.

Due to the large number of metallic hits observed during UXO avoidance within AOI 1, the potential exists in this area for possible buried drums, which would also indicate a hot spot under MDE definition.

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ACRONYMS AND ABBREVIATIONS

AOI(s)	Area(s) of Interest
ATC	Anticipated Typical Concentration
bgs	Below Ground Surface
CERCLA	Comprehensive Environmental Restoration, Compensation, & Liability Act
DRO	Diesel-Range Organics
EA	EA Engineering, Science, and Technology, Inc.
EBS	Environmental Baseline Survey
EDR	Environmental Data Resources, Inc.
EM	Electromagnetometer
EPA	U.S. Environmental Protection Agency
ft	Feet
GPS	Global Positioning System
GRO	Gasoline-Range Organics
HFA	Human Factors Applications
hr	Hour
IDM	Investigative-Derived Material
in.	Inches
IRP	Installation Restoration Program
LBA	Louis Berger Associates
MDE	Maryland Department of the Environment
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
msl	mean sea level
MS/MSD	matrix spike/matrix spike duplicate
mS/m	millisiemens per minute
MTBE	Methey tertiary butyl ether
NAD	North American Datum
NSA	National Security Agency
PAH	Polynuclear Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyl
PID	Photoionization Detector
ppm	Parts per million

QA/QC	Quality Assurance/Quality Control
RBC	Risk-Based Concentration
RPD	Relative Percent Difference
SI	Site Investigation
SVOC	Semivolatile Organic Compound
TNT	2,4,6-trinitrotoluene
TPH	Total Petroleum Hydrocarbon
μg/kg	microgram per kilogram
μg/L	microgram per liter
USDA	United States Department of Agriculture
USGS	United States Geologic Service
USACE	U.S. Army Corps of Engineers
UXO	Unexploded Ordnance
VOC	Volatile Organic Compound
VCP	Voluntary Cleanup Program

ATTACHMENT A
HUMAN FACTORS APPLICATIONS (HFA)
UXO AVOIDANCE DAILY LOGS

ATTACHMENT B

BOREHOLE LOGS

1. COMPANY NAME: EA Engineering
 2. DRILL SUBCONTRACTOR: GREEN
 SHEET 1 OF 1 SHEETS

3. PROJECT: 01625.17 FT. MEADE GOLF COURSE EBS/SI
 4. COMPONENT: N/A
 5. AREA OF INT.:
 6. GRID LOC./BIASED POINT:

7. NAME OF DRILLER:
 8. MANUFACTURER'S DESIGNATION OF DRILL: Direct Push or HSA

9. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: MACROCORE LEOPROBE
 TYPE OF LINER USED, IF APPLICABLE: ACETATE
 10. SURFACE ELEVATION AND CONDITIONS: METR

11. DIRECT READING PARAMETERS: VOC- PID, ppm
RAD-Victoreen, uR/hr e
 12. DATE STARTED: 12/30/03
 13. DATE COMPLETED: 12/30/03

14. OVERBURDEN THICKNESS:
 15. DEPTH GROUNDWATER ENCOUNTERED:
 16. DEPTH DRILLED INTO ROCK: N/A
 17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED:
 18. TOTAL DEPTH OF HOLE: 24
 19. OTHER WATER LEVEL MEASUREMENTS (SPECIFY):

20. WELL INSTALLED? IF SO COMPLETE CONSTRUCTION DIAGRAM: SAMPLE TYPE: Grab

21. SAMPLE INTERVAL AND DESIGNATION FOR LAB ANALYSIS: SAMPLE INTERVAL AND DESIGNATION FOR FIELD SCREENING ANALYSIS: SCREENING ANALYSIS: PAH- PCB- VOG- TNT- N/A

22. DISPOSITION OF HOLE: IF NOT A WELL, BACKFILLED WITH: 23. GEOLOGIST: Aim

USCS LOG (a)	DEPTH (FT) (b)	DESCRIPTION OF MATERIALS (c)	DIRECT READING (d)		ANALYTICAL SAMPLE DESIGN. (e)	DEPTH (FT) (f)	RECOVERY (IN.) (g)	REMARKS
			VOC (ppm)	RAD (uR/hr)				
	0-8'	Black, moist, silty SAND w/ some organic matter.	0	N/A				
2	8'-3.5'	Brown, moist, med. SAND w/ some gravel (0.1-2cm)	0	N/A				
4	3.5-4.0'	Gray w/ brown mottles, moist, clayey sand SILT.	0	N/A				
6	4.0-4.5'	Same as above.	0	N/A	VOC @ 1430			sampled 1-1-6-8 @ 1435
8	4.5-5.0'	Gray, moist, silty sandy CLAY	0	N/A				
8	5.0-8.5'	Gray, moist sandy tan CLAY	0	N/A				
10	8.5-12.0'	Moist, med. SAND	0	N/A				
12		↓	0	N/A				
14		↓	0	N/A				
16	12-16.0'	Same as above	0	N/A				
18		↓	0	N/A				
20	16-20'	Same as above w/ brown striations.	0	N/A				

BORING/WELL LOG		USACE DISTRICT BALTO./NSA	HOLE NUMBER 1-3
1. COMPANY NAME EA Engineering		2. DRILL SUBCONTRACTOR GREEN	
3. PROJECT 01625.17 FT. MEADE GOLF COURSE EBS/SI		4. COMPONENT N/A	5. AREA OF INT.
7. NAME OF DRILLER		8. MANUFACTURER'S DESIGNATION OF DRILL Direct Push or HSA	
9. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT MACROCORE BEDPROBE		10. SURFACE ELEVATION AND CONDITIONS	
TYPE OF LINER USED, IF APPLICABLE ACETATE			
11. DIRECT READING PARAMETERS: VOC- PID, ppm RAD: Victoreen, uR/hr =		12. DATE STARTED 12/30/03	13. DATE COMPLETED 12/30/03
14. OVERBURDEN THICKNESS		15. DEPTH GROUNDWATER ENCOUNTERED	
16. DEPTH DRILLED INTO ROCK N/A		17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
18. TOTAL DEPTH OF HOLE		19. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	
20. WELL INSTALLED? IF SO COMPLETE CONSTRUCTION DIAGRAM		SAMPLE TYPE: Grab	
21. SAMPLE INTERVAL AND DESIGNATION FOR LAB ANALYSIS		SAMPLE INTERVAL AND DESIGNATION FOR FIELD SCREENING ANALYSIS	
		SCREENING ANALYSIS PAH- PCB- VOC- TNT N/A	

22. DISPOSITION OF HOLE		IF NOT A WELL, BACKFILLED WITH:		23. GEOLOGIST				
USCS LOG (a)	DEPTH (FT) (b)	DESCRIPTION OF MATERIALS (c)	DIRECT READING (d)		ANALYTICAL SAMPLE DESIGN. (e)	DEPTH (FT) (f)	RECOVERY (IN.) (g)	REMARKS
			VOC (ppm)	RAD (uR/hr)				
	0-6"	Brown, moist, silty SAND w/ organic matter.	0	N/A				
	6"-4'	Light brown, moist, clayey SAND.	0	N/A				
		↓	0	N/A				
	4'-6'	same as above	0	N/A	VOC @ 1347	6.0-6.4'		
	6'-6.9'	Gray, Moist, silty CLAY	0	N/A	Sampled 1-3-6-8 @ 1350.			
	6.9'-8'	Gray, Moist, fine SAND w/ some silt.	0	N/A				
	8'-11'	same as above	0	N/A				
	11'-12'	light tan, wet, med. SAND	0	N/A	wet @ 11.0			
		↓	0	N/A				
	12-16	Tan, wet, med. SAND becoming coarse @ 15.8-16.0'	0	N/A				
		END @ 16.0'		N/A				

BORING/WELL LOG		USACE DISTRICT BALTO./NSA	HOLE NUMBER 1-4					
1. COMPANY NAME EA Engineering		2. DRILL SUBCONTRACTOR GREEN		SHEET 1 OF 1 SHEETS				
3. PROJECT 01625.17 FT. MEADE GOLF COURSE EBS/SI		4. COMPONENT N/A	5. AREA OF INT. 1	6. GRID LOC/BIASED POINT N/A				
7. NAME OF DRILLER		8. MANUFACTURER'S DESIGNATION OF DRILL Direct Push or HSA						
9. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT MACROCORE GEOPROBE TYPE OF LINER USED, IF APPLICABLE ACETATE		10. SURFACE ELEVATION AND CONDITIONS scrub/grass						
11. DIRECT READING PARAMETERS: VOC- PID, ppm RAD - Victoreen, uR/hr e		12. DATE STARTED 22 Dec 03	13. DATE COMPLETED 22 Dec 03					
14. OVERBURDEN THICKNESS		15. DEPTH GROUNDWATER ENCOUNTERED NOT ENCOUNTERED						
16. DEPTH DRILLED INTO ROCK N/A		17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED						
18. TOTAL DEPTH OF HOLE 25'		19. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)						
20. WELL INSTALLED? IF SO COMPLETE CONSTRUCTION DIAGRAM NO		SAMPLE TYPE: Grab						
21. SAMPLE INTERVAL AND DESIGNATION FOR LAB ANALYSIS 1-4-6-8 @ B55		SAMPLE INTERVAL AND DESIGNATION FOR FIELD SCREENING ANALYSIS N/A		SCREENING ANALYSIS PAH N/A PCB N/A VOG N/A TNT N/A				
22. DISPOSITION OF HOLE IF NOT A WELL, BACKFILLED WITH:		23. GEOLOGIST SMS						
USCS LOG (a)	DEPTH (FT) (b)	DESCRIPTION OF MATERIALS (c)	DIRECT READING (d)		ANALYTICAL SAMPLE DESIGN. (e)	DEPTH (FT) (f)	RECOVERY (IN.%) (g)	REMARKS
			VOC (ppm)	RAD (uR/hr)				
	0-0.3	dark brown SAND, little silt	0.0	N/A			↓ 4	
	0.3-8	yellowish brown medium SAND grading to tan sand and increasing in coarse ness w/ depth. with some fine gravel from 4.8-6.9	0.0	N/A	1-4-6-8 e 1353 w/ ec.		↓ 4	
	8-12	tan to grayish tan medium SAND, fr. silt.	0.0	N/A			↓ 4	34'
	12-15	Same as above.		N/A			↓ 3	
	15-17	- " " "		N/A			↓	
	17-18	v. light gray gravelly SILT with little sand. hard gravel is fine (up to 0.3cm).	0.0	N/A			↓	
	18-18.5	yellowish tan v. fine SAND.		N/A			↓ 3.5	
	18.5-21.5	light tan fine to medium SAND w/ orange mottling	0.0	N/A			↓ 3	
	21.5-25	Same as above		N/A				160 Gw encountered
				N/A				
				N/A				
				N/A				
PROJECT: [REDACTED]		HOLE NO.: 1-4						

BORING/WELL LOG		USACE DISTRICT BALTO./NSA	HOLE NUMBER 1-5
1. COMPANY NAME EA Engineering		2. DRILL SUBCONTRACTOR GREEN	
3. PROJECT 61625.17 FT. MEADE GOLF COURSE EBS/SI		4. COMPONENT N/A	5. AREA OF INT. 1
7. NAME OF DRILLER DON		6. GRID LOC./BIASED POINT N/A	
9. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT MACROCORE LED PROBE		8. MANUFACTURER'S DESIGNATION OF DRILL Direct Push or HSA	
TYPE OF LINER USED, IF APPLICABLE ACETATE		10. SURFACE ELEVATION AND CONDITIONS Brush. Locations on top of fill & edged trees - tree line	
11. DIRECT READING PARAMETERS: VOC- PID, ppm RAD - Victoreen, uR/hr e		12. DATE STARTED 22 DEC 03	13. DATE COMPLETED 22 DEC 03
14. OVERBURDEN THICKNESS		15. DEPTH GROUNDWATER ENCOUNTERED NOT ENCOUNTERED	
16. DEPTH DRILLED INTO ROCK N/A		17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
18. TOTAL DEPTH OF HOLE 25'		19. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	
20. WELL INSTALLED? IF SO COMPLETE CONSTRUCTION DIAGRAM NO		SAMPLE TYPE: Grab	
21. SAMPLE INTERVAL AND DESIGNATION FOR LAB ANALYSIS 1-5-4-6 @ 130		23. GEOLOGIST JMS	
SAMPLE INTERVAL AND DESIGNATION FOR FIELD SCREENING ANALYSIS N/A		SCREENING ANALYSIS PAH PCB VOC TNT N/A	
22. DISPOSITION OF HOLE Seal IF NOT A WELL, BACKFILLED WITH:			

USCS LOG (a)	DEPTH (FT) (b)	DESCRIPTION OF MATERIALS (c)	DIRECT READING (d)		ANALYTICAL SAMPLE DESIGN. (e)	DEPTH (FT) (f)	RECOVERY (ft) (g)	REMARKS
			VOC (ppm)	RAD (uR/hr)				
	0-4'	yellow sh brown SAND medium, moist. tr. silt	0.0	N/A			↓ 2'	
	4-6.1	Same as above			1-5-4-6			
	6.1-7.4	v. light gray SILT, little clay, trace gravel e		N/A	voc @ 6			
	7.3'							
	7.4-8.7	tan coarse SAND with some gravel. gravel s subrounded. tr. silt.	0.0	N/A			↓ 4'	
	8.7-11	v. light gray SILT with little gravel. Gravel is sub rounded.	0.0	N/A				
	11-12.1	Orangeish brown moist, medium SAND w/tr. silt, tr. gravel.	0.0	N/A			↓ 4'	
	12.1-12.2	v. light gray SILT little sand.						
	12.2-14.8	orangeish brown SAND, mottled tr. silt, clay	0.0	N/A				
	14.8-14.9	v. light gray plastic CLAY	0.0	N/A				
	14.9-15.6	grayish brown gravelly coarse SAND. tr. silt.	0.0	N/A			↓ 3'	
	15.6-18.2	orangeish brown medium SAND tr. silt, tr. clay.	0.0	N/A	Ground water		not encountered	
	18.2-18.5	v. light gray SILT					↓ 3.5'	
	18.5-21.5	tan, mottled with orange silt SAND moist.	0.0	N/A			↓ 3'	
	21.5-25'	same as above - but with dark gray yellow orange mottling					↓ 3.5'	

BORING/WELL LOG		USACE DISTRICT BALTO./NSA	HOLE NUMBER 2-2
1. COMPANY NAME EA Engineering		2. DRILL SUBCONTRACTOR GREEN	SHEET 1 OF 2 SHEETS
3. PROJECT 01625-17 FT. MEADE GOLF COURSE EBS/SI		4. COMPONENT N/A	5. AREA OF INT. 2 6. GRID LOC./BIASED POINT 2-N/A
7. NAME OF DRILLER JEFF GREENE		8. MANUFACTURER'S DESIGNATION OF DRILL Direct Push or HSA	
9. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT MACROCORE BEDPROBE		10. SURFACE ELEVATION AND CONDITIONS IN SWIRLE DOWN GRADE FROM TOP ROCK W/ST AREA FOR GOLF CARTS	
TYPE OF LINER USED, IF APPLICABLE ACETATE		11. DIRECT READING PARAMETERS: VOC- PID, ppm RAD: Victoreen, uR/hr	12. DATE STARTED 12/15/13 13. DATE COMPLETED 12/15/13
14. OVERBURDEN THICKNESS		15. DEPTH GROUNDWATER ENCOUNTERED APP: 8' by 5	
16. DEPTH DRILLED INTO ROCK N/A		17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
18. TOTAL DEPTH OF HOLE 22'		19. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	
20. WELL INSTALLED? IF SO COMPLETE CONSTRUCTION DIAGRAM NO		SAMPLE TYPE: Grab	
21. SAMPLE INTERVAL AND DESIGNATION FOR LAB ANALYSIS 2-2-12-16		SAMPLE INTERVAL AND DESIGNATION FOR FIELD SCREENING ANALYSIS N/A	
22. DISPOSITION IF NOT A WELL, BACKFILLED WITH:		23. GEOLOGIST Denise Wilt	

USCS LOG (a)	DEPTH (FT) (b)	DESCRIPTION OF MATERIALS (c)	DIRECT READING (d)		ANALYTICAL SAMPLE DESIGN. (e)	DEPTH (FT) (f)	RECOVERY (IN.) (g)	REMARKS
			VOC (ppm)	RAD (uR/hr)				
		0-4' 0-32" Mod. yellowish br. Silty medium SAND tr. roots, moist	0	N/A			32"	
		(4-8') 0-4' light yellowish br. Silty med SAND, tr. gravel	0	N/A			36"	
		4-6' yellowish gray CLAY semi soft, moist	0	N/A				
		6-10" wet yellowish gray F. SAND & CLAY	0	N/A				
		10"-36" - yellowish gray CLAY, Hard, dry	0	N/A				
		8-12' 0-6" SAA	0	N/A			31"	
		6-10" yellowish gray F. SAND & CLAY, wet	0	N/A				
		10"-31" light yellowish br Mod-coarse SAND tr. clay silt wet	0	N/A				
		(12-16') 0-12" SAA moist	0	N/A	Area 2-2-12-16 @ 1350		26"	
		12-26" Mod yellowish br. silty med SAND moist	0	N/A				
		(16-20) 0-20" yellowish gr. CLAY hard, dry	0	N/A			33"	
		20-24" Mod light yellowish br silty F. SAND	0	N/A				
		24-33" Light yellowish br clayey SAND (coarse) & gravel moist	0	N/A				

BORING/WELL LOG		USACE DISTRICT BALTO./NSA	HOLE NUMBER
1. COMPANY NAME EA Engineering		2. DRILL SUBCONTRACTOR GREEN	
3. PROJECT 61625.17 FT. MERRILL GOLF COURSE EBS/SI		4. COMPONENT N/A	5. AREA OF INT. 2
7. NAME OF DRILLER J. CRONE		6. GRID LOC./BIASED POINT 2	
9. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT MACROCORE GEOPROBE		8. MANUFACTURER'S DESIGNATION OF DRILL Direct Push or HSA	
TYPE OF LINER USED, IF APPLICABLE ACETATE		10. SURFACE ELEVATION AND CONDITIONS	
11. DIRECT READING PARAMETERS: VOC- PID, ppm RAD Victoreen, uR/hr e		12. DATE STARTED	13. DATE COMPLETED
14. OVERBURDEN THICKNESS		15. DEPTH GROUNDWATER ENCOUNTERED	
16. DEPTH DRILLED INTO ROCK N/A		17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
18. TOTAL DEPTH OF HOLE		19. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	
20. WELL INSTALLED? IF SO COMPLETE CONSTRUCTION DIAGRAM		SAMPLE TYPE: Grab	
21. SAMPLE INTERVAL AND DESIGNATION FOR LAB ANALYSIS		SAMPLE INTERVAL AND DESIGNATION FOR FIELD SCREENING ANALYSIS	
		SCREENING ANALYSIS PAH PGB VOG FMT N/A	
22. DISPOSITION OF HOLE IF NOT A WELL, BACKFILLED WITH:		23. GEOLOGIST	

USCS LOG (a)	DEPTH (FT) (b)	DESCRIPTION OF MATERIALS (c)	DIRECT READING (d)		ANALYTICAL SAMPLE DESIGN. (e)	DEPTH (FT) (f)	RECOVERY (IN.) (g)	REMARKS
			VOC (ppm)	RAD (uR/hr)				
	16-26	0.2-0.4" Sand	0	N/A			24	No water
		0-4" Light yellow br. F-med sand	0	N/A				
		4-24" Med yellowish br. SILTY F-m SAND nonst	0	N/A				
				N/A				
				N/A				
				N/A				
				N/A				
				N/A				
				N/A				
				N/A				
				N/A				
				N/A				
				N/A				
				N/A				
				N/A				

BORING/WELL LOG		USACE DISTRICT	HOLE NUMBER					
1. COMPANY NAME EA Engineering		BALTO./NSA	2-4					
2. DRILL SUBCONTRACTOR GREEN		SHEET 1 OF 2 SHEETS						
3. PROJECT 61625-17 FT. MERRILL GOLF COURSE EBS/SI		4. COMPONENT N/A	5. AREA OF INT. 2					
6. GRID LOG/BIASED POINT FC/250		7. NAME OF DRILLER J. GREENE						
8. MANUFACTURER'S DESIGNATION OF DRILL Direct Push or HSA		9. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT MACROCORE GEOPROBE						
10. SURFACE ELEVATION AND CONDITIONS TALL GRASS, SMALL SCRUB CLEARING.		11. DIRECT READING PARAMETERS: VOC- PID, ppm RAD-Victoreen, uR/hr e						
12. DATE STARTED 16 DEC 03		13. DATE COMPLETED 16 DEC 03						
14. OVERBURDEN THICKNESS		15. DEPTH GROUNDWATER ENCOUNTERED 25'						
16. DEPTH DRILLED INTO ROCK N/A		17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED						
18. TOTAL DEPTH OF HOLE 25'		19. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)						
20. WELL INSTALLED? IF SO COMPLETE CONSTRUCTION DIAGRAM CRS PCB 10' SCREEN (15-25')		SAMPLE TYPE: Grab						
21. SAMPLE INTERVAL AND DESIGNATION FOR LAB ANALYSIS 2-4-7-E.S		SAMPLE INTERVAL AND DESIGNATION FOR FIELD SCREENING ANALYSIS N/A						
22. DISPOSITION OF HOLE IF NOT A WELL, BACKFILLED WITH:		23. GEOLOGIST SMCS						
USCS LOG (a)	DEPTH (FT) (b)	DESCRIPTION OF MATERIALS (c)	DIRECT READING (d)		ANALYTICAL SAMPLE DESIGN. (e)	DEPTH (FT) (f)	RECOVERY (IN) (g)	REMARKS
			VOC (ppm)	RAD (uR/hr)				
	0-0.2	Dark brown SILT of sand sand	C	N/A				
	0.5-1	yellowish brown sand SILT trace small gravel mass		N/A				
	1-1.2	tannish brown SILT/sand SILT mass	C	N/A				
	1.2-4	dark grayish brown CLAY with sand lenses, red mottling increasing sand lenses with depth	C	N/A			4	
	4.5-7	medium SAND, clotted, tan silt, grayish brown.	C	N/A				
	7-7.2	light gray CLAY w/ yellowish brown silt lenses	C	N/A			4	
	7.2-8.1	Fine SAND, medium, with clay mass. 2' cement interval from 7-8' to 7.2-8.1' etc. heavy mass	C	N/A	2-4-7-8.5 @ 25' (VOC @ 7.4)			(check back PID measured at 7.4' = 100 uR/hr)
	8.1-8.6	yellowish brown clayey sand SAND mass	C	N/A				
	8.6-9	dark brown, silty sand SAND	C	N/A				
	9-11.2	dark brown SAND mass		N/A				
	11.2-12	light tan sand including concretions	C	N/A			4	

BORING/WELL LOG		(CONTINUATION SHEET)	COMPONENT-AREA C ² INT.		GRID/BIASED POINT LOCATION				
PROJECT 61625-17 FT. MEADE EBS		GEOLOGIST SWS		2-4		EC/2EC SHEET 2 OF 2 SHEETS			
USCS LOG	DEPTH (FT)	DESCRIPTION OF MATERIALS	DIRECT READING (d)		ANALYTICAL SAMPLE DESIGNATION	DEPTH (FT)	RECOVERY	REMARKS	
			VOC (ppm)	RAD (uR/hr)					
(a)	(b)	(c)	(e)	(f)	(g)	(h)	(i)	(j)	
	12-13.5	SAME AS ABOVE		N/A			↓		
	13.5-15	COARSE poorly sorted SAND, moist	0				↓	3	
	15-16.5	fine SAND with little SILT, moist		N/A			↓		
	16.5-17.2	Small CLAY lense (0.1) @ 15.9-16					↓	3	
	17.2-21.2	yellow brown, granular to brown medium SAND	0	N/A			↓		
	21.2-21.7	fine light tan SAND w/ clay matting moist					↓	3	
	21.7-21.8	yellowish brown fine SAND moist	0				↓		
	21-25 ft	SAND w/ some clay matting fine. moist					↓	2	
		Small saturated interval @ 24.5 ft	0	✓			↓	2	
		Bauged PVC stick up @ 14/06 @ 24.6 to water							
		25.00 to bottom.							
		Did not sample.							
		Reauged on 12-18-03 - Still only less than 0.5' of water.							
		Depth to water = 24.7							
		Did not collect GW Sample							

PROJECT:

HOLE NO.:

2-4

BORING/WELL LOG		USACE DISTRICT	HOLE NUMBER					
1. COMPANY NAME EA Engineering		BALCO/NSA	2-5					
2. DRILL SUBCONTRACTOR GREEN		SHEET 1 OF 2						
3. PROJECT 61625-17 FT. MENDE GOLF COURSE EBS/SI		4. COMPONENT N/A	5. AREA OF INT. 2					
7. NAME OF DRILLER		6. GRID LOC./BIASED POINT 640/175						
9. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT MACROCORE CEDPROBE		8. MANUFACTURER'S DESIGNATION OF DRILL Direct Push or HSA						
TYPE OF LINER USED, IF APPLICABLE ACETATE		10. SURFACE ELEVATION AND CONDITIONS Brush						
11. DIRECT READING PARAMETERS: VOC- PID, ppm RAD, Volatiles, uR/hr		12. DATE STARTED 10 Dec 03	13. DATE COMPLETED 10 Dec 03					
14. OVERBURDEN THICKNESS		15. DEPTH GROUNDWATER ENCOUNTERED 0.5						
16. DEPTH DRILLED INTO ROCK N/A		17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED						
18. TOTAL DEPTH OF HOLE 12/16		19. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)						
20. WELL INSTALLED? IF SO COMPLETE CONSTRUCTION DIAGRAM No		SAMPLE TYPE: Grab						
21. SAMPLE INTERVAL AND DESIGNATION FOR LAB ANALYSIS 2-5-10.5-12		SAMPLE INTERVAL AND DESIGNATION FOR FIELD SCREENING ANALYSIS N/A						
22. DISPOSITION OF HOLE IF NOT A WELL, BACKFILLED WITH:		23. GEOLOGIST JMS						
SCREENING ANALYSIS PAH PCB VOC TNT N/A								
USCS LOG (a)	DEPTH (FT) (b)	DESCRIPTION OF MATERIALS (c)	DIRECT READING (d)		ANALYTICAL SAMPLE DESIGN. (e)	DEPTH (FT) (f)	RECOVERY (IN) (g)	REMARKS
			VOC (ppm)	RAD (uR/hr)				
	0-0.4	dark brown sand silt w/ trace gravel moist		N/A				
	0.4-1.2	medium gray silt with some clay - hard	0.1	N/A				
	1.2-2	medium yellowish tan sandy silt with trace gravel	0	N/A				
	2-3.5	brown SAND grading to yellowish brown SAND with little clay moist.	0	N/A			4	
	3.5-4	grading to yellowish brown fine sandy clay moist.	0.1	N/A				
	4-6	Some ch. coarse material less clay - more silty sand.	0	N/A				
	6-6.6	SAND with heavy silt.	0	N/A			4	
	6.6-7.2	yellowish brown SAND with some gravel - moist	0	N/A				
	7.2-12	medium yellowish brown SAND low moist.	0.1	N/A	2-5-10.5-12 E1315		4	
		backfilled as per		N/A				

BORING/WELL LOG		USACE DISTRICT BALTO./NSA	HOLE NUMBER 2-6
1. COMPANY NAME EA Engineering		2. DRILL SUBCONTRACTOR GREEN	
3. PROJECT 61625.17 FT. MEADE GOLF COURSE EBS/SI		4. COMPONENT N/A	5. AREA OF INT.
7. NAME OF DRILLER		8. MANUFACTURER'S DESIGNATION OF DRILL Direct Push or HSA	
9. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT MACROCORE CDDPROBE		10. SURFACE ELEVATION AND CONDITIONS	
TYPE OF LINER USED, IF APPLICABLE ACETATE		11. DIRECT READING PARAMETERS: VOC- PID, ppm RAD- Victoreen, uR/hr-e	
12. DATE STARTED 12/30/03		13. DATE COMPLETED 12/30/03	
14. OVERBURDEN THICKNESS		15. DEPTH GROUNDWATER ENCOUNTERED	
16. DEPTH DRILLED INTO ROCK N/A		17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
18. TOTAL DEPTH OF HOLE		19. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	
20. WELL INSTALLED? IF SO COMPLETE CONSTRUCTION DIAGRAM		SAMPLE TYPE: Grab	
21. SAMPLE INTERVAL AND DESIGNATION FOR LAB ANALYSIS		21. SAMPLE INTERVAL AND DESIGNATION FOR FIELD SCREENING ANALYSIS	
		SCREENING ANALYSIS PAH- P/B VOC- TNT N/A	
22. DISPOSITION OF HOLE IF NOT A WELL, BACKFILLED WITH:		23. GEOLOGIST ACM	

USCS LOG (a)	DEPTH (FT) (b)	DESCRIPTION OF MATERIALS (c)	DIRECT READING (d)		ANALYTICAL SAMPLE DESIGN. (e)	DEPTH (FT) (f)	RECOVERY (IN.) (g)	REMARKS
			VOC (ppm)	RAD (uR/hr)				
		0-7" - Dark Brown, moist, sandy SILT with organic matter.						
	2	7"-2' - Brown, moist, sandy CLAY	0	N/A	NOTE: ashy layer observed @ 18" depth			soil sampled @ this depth
		2'-2.6' - Gray, moist, sandy CLAY						
	4	2.6-4' - Brown, moist, clayey med. SAND w/ little gravel	0	N/A				
		4-5.7' - same as above	0	N/A				
	6	5.7-6' - Dark brown, moist, silty CLAY						
	8	6'-8' - Brown, moist, coarse SAND w/ a charred wood layer from 7.6-7.9'	0	N/A	NO odor or register on the PID @ this depth.			
		8-9.5' - same as above (no wood layer)			VOC @ 1230			
	10	8-9.5' - same as above (no wood layer)			sampled 2-6-2.4 @ 1240			
		9.5'-10.0' - Gray, moist, CLAY	0	N/A	DUPLICATE			03-DE-30-0PZ
	12	10-12.0' - light brown, moist, coarse SAND.	0	N/A				(1.5'-5.0') deep + soil sample
	14	12-16.0' - same as above.	0	N/A				VOC @ ash layer (18"-24")
	16	16-17' - same as above						ACM 01/07/03
	18	17-17.8' - light brown/tan, wet coarse SAND	0	N/A	wet @ 16.5'			17.5-18.5/18.5
	20	17.8-20' - Tan/gray, wet, fine SAND						2-6
		PWD @ 20.0'						

BORING/WELL LOG		USACE DISTRICT BALTO/NSA	HOLE NUMBER 3-1
1. COMPANY NAME EA Engineering		2. DRILL SUBCONTRACTOR GREEN	
3. PROJECT 01625.17 FT. MERRIE GOLF COURSE EBS/SI		4. COMPONENT N/A	5. AREA OF INT.
7. NAME OF DRILLER J. GREENE		8. MANUFACTURER'S DESIGNATION OF DRILL Direct Push or HSA	
9. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT MACROCORE LEADPROBE		10. SURFACE ELEVATION AND CONDITIONS FOREST near SS-gallandrum. DRUM IS OVERTURNED + EMPTY.	
TYPE OF LINER USED, IF APPLICABLE ACETATE		12. DATE STARTED 16 DEC	13. DATE COMPLETED 16 DEC 03
11. DIRECT READING PARAMETERS: VOC- PID, ppm RAD Victoreen, uR/hr =		14. OVERBURDEN THICKNESS	
16. DEPTH DRILLED INTO ROCK N/A		15. DEPTH GROUNDWATER ENCOUNTERED approx 6.5	
18. TOTAL DEPTH OF HOLE 16'		17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
20. WELL INSTALLED? IF SO COMPLETE CONSTRUCTION DIAGRAM		19. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	
21. SAMPLE INTERVAL AND DESIGNATION FOR LAB ANALYSIS 3-1 7.5-9 (above clay)		SAMPLE INTERVAL AND DESIGNATION FOR FIELD SCREENING ANALYSIS N/A	
22. DISPOSITION OF HOLE IF NOT A WELL, BACKFILLED WITH		23. GEOLOGIST SMS	
SCREENING ANALYSIS PAH PCB VOC TNT N/A			

USCS LOG (a)	DEPTH (FT) (b)	DESCRIPTION OF MATERIALS (c)	DIRECT READING (d)		ANALYTICAL SAMPLE DESIGN. (e)	DEPTH (FT) (f)	RECOVERY (g)	REMARKS
			VOC (ppm)	RAD (uR/hr)				
	0-0.4	DARK brown sandy SILT w/ debris moist	0	N/A				
	0.4-1.2	Brown sandy SILT w/ some clay moist	0	N/A				
	1.2-1.4	light gray CLAY w/ some gravel - roots	0	N/A				
	1.4-4	light brown/yellowish brown SAND trace silt medium in moisture with dept	0	N/A			3	
	4-8	yellowish brown silty SAND sand is very fine very moist	0	N/A			4	
	8-9	Same as above - but saturated.	0	N/A	3-1-7.5-9 @ 1115			
	9-9.3	light gray silty CLAY	0	N/A				
	9.3-12	tan SAND with tan silty SAND moist sand is fine	0	N/A			4	
	12-16	tan same as above - saturated @ 13'. Red sandstone gravel - rounded - occasional		N/A	EW Sample 3-1 @ 1130		4	
		6' LMS OF BORING		N/A				
				N/A				

BORING/WELL LOG		USAGE DISTRICT BALTO./NSA	HOLE NUMBER 4-1
1. COMPANY NAME EA Engineering		2. DRILL SUBCONTRACTOR GREEN	
3. PROJECT 61625.17 FT. MENDE GOLF COURSE EBS/SI		4. COMPONENT N/A	5. AREA OF INT. 4
7. NAME OF DRILLER Don HACKET		8. MANUFACTURER'S DESIGNATION OF DRILL Direct Push or HSA	
9. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT MACROCORE CDP/PROBE		10. SURFACE ELEVATION AND CONDITIONS WOODED AREA. LOCATED IN CONCRETE PIT w/ WOODEN BOTTOM.	
11. DIRECT READING PARAMETERS: VOC- PID, ppm RAD-Victoreen, uR/hr = e		12. DATE STARTED 12/29/03	13. DATE COMPLETED 12/29/03
14. OVERBURDEN THICKNESS		15. DEPTH GROUNDWATER ENCOUNTERED NO GW	
16. DEPTH DRILLED INTO ROCK N/A		17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
18. TOTAL DEPTH OF HOLE		19. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	
20. WELL INSTALLED? IF SO COMPLETE CONSTRUCTION DIAGRAM NO		SAMPLE TYPE: Grab	
21. SAMPLE INTERVAL AND DESIGNATION FOR LAB ANALYSIS 4-1-6-8		23. GEOLOGIST A-L MARCIN	
22. DISPOSITION OF HOLE IF NOT A WELL, BACKFILLED WITH:		SCREENING ANALYSIS PAH PCB VOC TNT N/A	

USCS LOG (a)	DEPTH (FT) (b)	DESCRIPTION OF MATERIALS (c)	DIRECT READING (d)		ANALYTICAL SAMPLE DESIGN. (e)	DEPTH (FT) (f)	RECOVERY (IN.) (g)	REMARKS
			VOC (ppm)	RAD (uR/hr)				
	0-4'	Dark brown, Moist, silty SAND and organic matter.	0	N/A				NOTE: @ the drilling location a concrete foundation was observed. (could not tell approx. size due to ground cover)
	4'-1'	tan grey, Moist, concrete						
	1'-4'	tan, Moist, coarse SAND and GRAVEL (0.2-4cm)	0	N/A				
	4'	air	0	N/A				
	4'-8'	same as above	0	N/A				sampled VOC @ 1144
	8'		0	N/A				sampled @ 1150 7-1-68
	8'-12'	same as above	0	N/A				
	12'		0	N/A				
	12'-16'	same as above	0	N/A				
	16'-17.5'	same as above						
	17.5'-18.5'	light tan, moist, silty CLAY	0	N/A				
	18.5'-20'	tan, moist, medium SAND	0	N/A				

5-2 gw

BORING/WELL LOG		USACE DISTRICT BALTO./NSA	HOLE NUMBER 5-2
1. COMPANY NAME EA Engineering		2. DRILL SUBCONTRACTOR GREEN	
3. PROJECT 61625.17 FT. MEADE GOLF COURSE EBS/SI		4. COMPONENT N/A	5. AREA OF INT. 5
7. NAME OF DRILLER J. GREENE		6. GRID LOC./BIASED POINT 2	
9. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT MACROCORE GEOPROBE		8. MANUFACTURER'S DESIGNATION OF DRILL Direct Push or HSA	
11. DIRECT READING PARAMETERS: VOC- PID, ppm RAD-Victoreen, uR/hr e		10. SURFACE ELEVATION AND CONDITIONS	
14. OVERBURDEN THICKNESS		12. DATE STARTED 12/15/13	
16. DEPTH DRILLED INTO ROCK N/A		13. DATE COMPLETED 12/15/13	
18. TOTAL DEPTH OF HOLE 241		15. DEPTH GROUNDWATER ENCOUNTERED No GW encountered	
20. WELL INSTALLED? IF SO COMPLETE CONSTRUCTION DIAGRAM No		17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
22. DISPOSITION OF HOLE IF NOT A WELL, BACKFILLED WITH:		19. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	
21. SAMPLE INTERVAL AND DESIGNATION FOR LAB ANALYSIS 8-12 - 5-2-8-12		SAMPLE TYPE: Grab	
23. GEOLOGIST Denise Witt		SCREENING ANALYSIS RAH PEB VOG FNT N/A	

USCS LOG (a)	DEPTH (FT) (b)	DESCRIPTION OF MATERIALS (c)	DIRECT READING (d)		ANALYTICAL SAMPLE DESIGN. (e)	DEPTH (FT) (f)	RECOVERY (IN.) (g)	REMARKS
			VOC (ppm)	RAD (uR/hr)				
	(0-4')	0-6" dk yellowish br. med silty SAND tr. gravel	0	N/A			30"	
		6"-30" Med yellowish br. Silty med-finesand w/ some gravel (qtz. subrounded)	0	N/A				
	(4-8')	0-30" yellowish gray CLAY Hard, dry	0	N/A			45"	
		30-45' yellowish gray, stagnant some f. sand, moist CLAY	0	N/A			32"	
	(8-12')	0-32" Med & light yellowish Brown (banded) med. SAND tr. silt moist	0	N/A	5-2-8-12 @ 1415			
	(12-15')	Med. yellowish br. clayed med. SAND, moist - not	0	N/A			26"	
	(15-18')	SAA dk Reddish br. @ 24"-25"	0	N/A			29"	
	(18-20')	0-10" Med br. Silty med-fine SAND w/tr. gravel	0	N/A			23"	not yellowish med br.
		10-23" Med & light yellowish br (banded) Med SAND tr. silt moist	0	N/A				
	20-24	SAA 0-30"		N/A			30"	NOT TO

1. COMPANY NAME: EA Engineering 2. DRILL SUBCONTRACTOR: GREEN SHEET 1 OF SHEETS

3. PROJECT: 01625-17 FT. MERRILL GOLF COURSE EBS/SI 4. COMPONENT: N/A 5. AREA OF INT. 6. GRID LOC./BIASED POINT

7. NAME OF DRILLER 8. MANUFACTURER'S DESIGNATION OF DRILL: Direct Push or HSA

9. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: MACROCORE LEOPROBE 10. SURFACE ELEVATION AND CONDITIONS

TYPE OF LINER USED, IF APPLICABLE: ACETATE

11. DIRECT READING PARAMETERS: VOC- PID, ppm: RAD-Victoreen, uR/hr 12. DATE STARTED: 12/24/03 13. DATE COMPLETED: 12/29/03

14. OVERBURDEN THICKNESS 15. DEPTH GROUNDWATER ENCOUNTERED

16. DEPTH DRILLED INTO ROCK: N/A 17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED

18. TOTAL DEPTH OF HOLE 19. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)

20. WELL INSTALLED? IF SO COMPLETE CONSTRUCTION DIAGRAM SAMPLE TYPE: Grab

21. SAMPLE INTERVAL AND DESIGNATION FOR LAB ANALYSIS SAMPLE INTERVAL AND DESIGNATION FOR FIELD SCREENING ANALYSIS SCREENING ANALYSIS: PAH, PCB, VOG, TNT: N/A

22. DISPOSITION OF HOLE IF NOT A WELL, BACKFILLED WITH: 23. GEOLOGIST

USCS LOG (a)	DEPTH (FT) (b)	DESCRIPTION OF MATERIALS (c)	DIRECT READING (d)		ANALYTICAL SAMPLE DESIGN. (e)	DEPTH (FT) (f)	RECOVERY (IN.) (g)	REMARKS
			VOC (ppm)	RAD (uR/hr)				
	0-2	0-6" - Dark brown, moist, silty med. SAND w/ some organic matter.	0	N/A				
	2-4	6" - 4' - Brown/orange brown, moist, silty med. SAND	0	N/A				
	4-6		0	N/A				
	6-8	4'-7' - same as above 7'-8' - tan, moist, med. SAND	0	N/A	VOC sampled @ 1000 sampled 6-1-6-8 @ 1005			
	8-10		0	N/A				
	10-12	8'-12' - same as above	0	N/A				
	12-14		0	N/A				
	14-16	12'-16' - same as above	0	N/A				
	16-18	16'-17' - same as above	0	N/A				
	18-20	17'-20' - Brown, moist, hard med. SAND	0	N/A				

BORING/WELL LOG USACE DISTRICT: BALTO./NSA HOLE NUMBER: 6-2

1. COMPANY NAME: EA Engineering
 2. DRILL SUBCONTRACTOR: GREEN
 3. PROJECT: 61625.17 FT. MEADE GOLF COURSE EBS/SI
 4. COMPONENT: N/A
 5. AREA OF INT.:
 6. GRID LOC./BIASED POINT:

7. NAME OF DRILLER:
 8. MANUFACTURER'S DESIGNATION OF DRILL: Direct Push or HSA

9. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: MACROCORE LEOPROBE
 TYPE OF LINER USED, IF APPLICABLE: ACETATE
 10. SURFACE ELEVATION AND CONDITIONS:

11. DIRECT READING PARAMETERS: VOC- PID, ppm: RAD-Victoreen, uR/hr
 12. DATE STARTED: 12/29/03
 13. DATE COMPLETED: 12/29/03

14. OVERBURDEN THICKNESS:
 15. DEPTH GROUNDWATER ENCOUNTERED:

16. DEPTH DRILLED INTO ROCK: N/A
 17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED:

18. TOTAL DEPTH OF HOLE:
 19. OTHER WATER LEVEL MEASUREMENTS (SPECIFY):

20. WELL INSTALLED? IF SO COMPLETE CONSTRUCTION DIAGRAM: YES
 SAMPLE TYPE: Grab

21. SAMPLE INTERVAL AND DESIGNATION FOR LAB ANALYSIS: 16.5-18
 SAMPLE INTERVAL AND DESIGNATION FOR FIELD SCREENING ANALYSIS:
 SCREENING ANALYSIS: PAH, PCB, VOC, TNT: N/A

22. DISPOSITION OF HOLE IF NOT A WELL, BACKFILLED WITH:
 23. GEOLOGIST:

USCS LOG (a)	DEPTH (FT) (b)	DESCRIPTION OF MATERIALS (c)	DIRECT READING (d)		ANALYTICAL SAMPLE DESIGN. (e)	DEPTH (FT) (f)	RECOVERY (IN.) (g)	REMARKS
			VOC (ppm)	RAD (uR/hr)				
	0-6"	Dark Brown, Moist, silty SAND w/s some organic matter.	0	N/A				
	6"-41"	Orange-Brown, Moist, silty med. SAND.	6	N/A				
	4-5'	tan, moist, med. SAND	0	N/A				
	5'-8'	same as above.	0	N/A	VOC @ 0950 6-2-16.5-18 @ 0900			
	8'-10'		6	N/A	Water sample @ (6-2) @ 0923			
	8'-12'	same as above.	0	N/A				
	12'-14'		0	N/A				
	12'-16'	same as above	0	N/A				
	16-17'	same as above						
	17-19'	Gray-tan, moist, silty clay SAND (S27)	0	N/A				
	19-20'	same as above wet @ 19.5'	0	N/A				

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BORING/WELL LOG		USACE DISTRICT BALTO./NSA	HOLE NUMBER 6-3
1. COMPANY NAME EA Engineering		2. DRILL SUBCONTRACTOR GREEN	
3. PROJECT 61625-17 FT. MEADE GOLF COURSE EBS/SI		4. COMPONENT N/A	5. AREA OF INT.
7. NAME OF DRILLER		8. MANUFACTURER'S DESIGNATION OF DRILL Direct Push or HSA	
9. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT MACROCORE CDP PROBE		10. SURFACE ELEVATION AND CONDITIONS	
TYPE OF LINER USED, IF APPLICABLE ACETATE			
11. DIRECT READING PARAMETERS: VOC- PID, ppm RAD: Victoreen, uR/hr =		12. DATE STARTED 12/29/03	13. DATE COMPLETED 12/29/03
14. OVERBURDEN THICKNESS		15. DEPTH GROUNDWATER ENCOUNTERED	
16. DEPTH DRILLED INTO ROCK N/A		17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
18. TOTAL DEPTH OF HOLE		19. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	
20. WELL INSTALLED? IF SO COMPLETE CONSTRUCTION DIAGRAM		SAMPLE TYPE: Grab	
21. SAMPLE INTERVAL AND DESIGNATION FOR LAB ANALYSIS		21. SAMPLE INTERVAL AND DESIGNATION FOR FIELD SCREENING ANALYSIS	
		SCREENING ANALYSIS PAH PCB VOG TNT N/A	
22. DISPOSITION OF HOLE IF NOT A WELL, BACKFILLED WITH:		23. GEOLOGIST	

USCS LOG (a)	DEPTH (FT) (b)	DESCRIPTION OF MATERIALS (c)	DIRECT READING (d)		ANALYTICAL SAMPLE DESIGN. (e)	DEPTH (FT) (f)	RECOVERY (IN.) (g)	REMARKS
			VOC (ppm)	RAD (uR/hr)				
	2	0 - 8" - DK Brown, Moist, silty med. SAND w/ some organic matter.	0	N/A				
	4	8" - 4' - Light Brown/orange Moist, silty SAND med	0	N/A				
	6	BLANKET ABSORBER	0	N/A				sampled VOG @ 0748
	8	4' - 8' - Tan, Moist, med. SAND w/ little silt.	0	N/A				sampled @ 0752 6-3-6-8
	10	8' - 9' - Orange/Brown, moist, med. SAND	0	N/A				
	12	9' - 12' - Tan, Moist, med. SAND	0	N/A				
	14		0	N/A				
	16	12' - 16' - SAME AS ABOVE	0	N/A				
	18	16' - 18' - SAME as above		NA				
	20	18' - 18.5' - sand becoming fine-grained 18.5' - 20' - gray/light tan, Moist clayey silt		N/A				

PROJECT: [REDACTED] HOLE NO.: [REDACTED] (407) (522)

HTRW BORING/WELL LOG		USACE DISTRICT <i>BALTC</i>	HOLE NUMBER <i>7-1</i>					
1. COMPANY NAME EA Engineering		2. DRILL SUBCONTRACTOR <i>CREENE, INC.</i>						
3. PROJECT <i>F. Meade</i>		4. COMPONENT ---	5. AREA <i>7</i>					
7. NAME OF DRILLER <i>J. CREENE</i>		8. MANUFACTURER'S DESIGNATION OF DRILL <i>Direct Push</i> or HSA						
9. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 2" OD X 2' long steel core barrel sampler <i>macro core geoprobe</i> TYPE OF LINER USED, IF APPLICABLE PETG <i>aculate</i>		10. SURFACE ELEVATION AND CONDITIONS						
11. DIRECT READING PARAMETERS: VOC- PID, ppm <i>RAD-Victoreen-uP/tr</i>		12. DATE STARTED <i>12/15/03</i>	13. DATE COMPLETED <i>12/15/03</i>					
14. OVERBURDEN THICKNESS ---		15. DEPTH GROUNDWATER ENCOUNTERED <i>Approx 20' bgs</i>						
16. DEPTH DRILLED INTO ROCK ---		17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED						
18. TOTAL DEPTH OF HOLE <i>22'</i>		19. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)						
20. WELL INSTALLED? IF SO COMPLETE CONSTRUCTION DIAGRAM <i>Yes</i>		SAMPLE TYPE: <i>Grab</i>						
21. SAMPLE INTERVAL AND DESIGNATION FOR LAB ANALYSIS <i>12-15' = 7-1-12-15</i>		SAMPLE INTERVAL AND DESIGNATION FOR FIELD SCREENING ANALYSIS <i>N/A</i>						
22. DISPOSITION OF HOLE IF NOT A WELL, BACKFILLED WITH:		23. GEOLOGIST <i>Penelope Witt</i>						
USCS LOG (a)	DEPTH (FT) (b)	DESCRIPTION OF MATERIALS (c)		DIRECT READING (d) VOC (ppm) <i>RAD-uP/tr</i>	ANALYTICAL SAMPLE DESIGN. (e)	DEPTH (FT) (f)	RECOVERY (IN.) (g)	REMARKS
		<i>(0-4')</i>						
		<i>0-3" DK Brown silt & sand w/ organic 3'-29" ^{mod} yellowish br silty medium SAND, moist</i>		<i>0.0</i>	<i>NA</i>		<i>29"</i>	
		<i>(4-8')</i> <i>6-36" Mod yellowish br/light yellowish br, cm scale layers of med-coarse SAND w/ br silt, moist</i>		<i>0.0</i>	<i>NA</i>		<i>30"</i>	
		<i>(8-12')</i> <i>6-6" Mod. yellowish br, coarse sand & gravel (quantity subrounded) w/ br. - some silt</i>		<i>0.0</i>	<i>NA</i>		<i>25"</i>	
		<i>6" - 25" Mod yellowish br. & light yellowish br fine SAND cm-kcm scale & layers - br silt moist</i>		<i>0.0</i>				
		<i>(12-15')</i> <i>6-6" mod. yellowish br silty c. SAND & gravel</i>		<i>0.0</i>		<i>Area 7-1-12-15 e 1015</i>	<i>28"</i>	
		<i>6-8" yellowish gray CLAY Hard</i>		<i>0.0</i>				
		<i>8-20" mod yellowish br. clayey coarse sand w/ some subrounded qtz, gravel</i>		<i>0.0</i>				
		<i>20-28" - Hard clay - yellowish gray, dry</i>			<i>✓</i>			
PROJECT:				HOLE NO.: <i>7-1</i>				

BORING/WELL LOG		USACE DISTRICT BALTO./NSA	HOLE NUMBER 8-1
1. COMPANY NAME EA Engineering		2. DRILL SUBCONTRACTOR GREEN	
3. PROJECT 61625.17 FT. MENDE GOLF COURSE EBS/SI		4. COMPONENT N/A	5. AREA OF INT.
7. NAME OF DRILLER		8. MANUFACTURER'S DESIGNATION OF DRILL Direct Push or HSA	
9. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT MACROCORE CTD PROBE		10. SURFACE ELEVATION AND CONDITIONS	
TYPE OF LINER USED, IF APPLICABLE ACETATE			
11. DIRECT READING PARAMETERS: VOC- PID, ppm RAD - Victoreen, uR/hr -		12. DATE STARTED 12/30/03	13. DATE COMPLETED 12/30/03
14. OVERBURDEN THICKNESS -		15. DEPTH GROUNDWATER ENCOUNTERED Not encountered	
16. DEPTH DRILLED INTO ROCK N/A		17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
18. TOTAL DEPTH OF HOLE 24		19. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	
20. WELL INSTALLED? IF SO COMPLETE CONSTRUCTION DIAGRAM No		SAMPLE TYPE: Grab	
21. SAMPLE INTERVAL AND DESIGNATION FOR LAB ANALYSIS		21. SAMPLE INTERVAL AND DESIGNATION FOR FIELD SCREENING ANALYSIS	
		SCREENING ANALYSIS PMT PEB VGG TNT N/A	
22. DISPOSITION OF HOLE IF NOT A WELL, BACKFILLED WITH:		23. GEOLOGIST	

USCS LOG (a)	DEPTH (FT) (b)	DESCRIPTION OF MATERIALS (c)	DIRECT READING (d)		ANALYTICAL SAMPLE DESIGN. (e)	DEPTH (FT) (f)	RECOVERY (IN.) (g)	REMARKS
			VOC (ppm)	RAD (uR/hr)				
	0-5'	Black, moist, sandy SILT with some organic matter	0	N/A				
	5'-1'	Brown, moist, silty SAND	0	N/A				
	1'-4'	Light brown, moist, coarse SAND with little gravel.	0	N/A				
	4'-4.6'	Same as above	0	N/A				
	4.6'-7'	tan, moist, med. SAND	0	N/A				
	7'-8'	Tan w/ brown striations, moist, coarse SAND.	0	N/A	VOC @ 1050 sampled @ 1100 8-1-6-8			
	8'-10'	same as above	0	N/A				
	10'-10.6'	Gray, moist, silty clay	0	N/A				
	10.6'-12'	Gray, moist, fine SAND.	0	N/A				
	12'-14'	↓	0	N/A				
	12'-16'	same as above	0	N/A				
	16'-18'	↓	0	N/A				
	14'-20'	same as above except from 19-20 sand goes from fine to medium-grained.	0	N/A				

BORING/WELL LOG		USACE DISTRICT BALTO./NSA	HOLE NUMBER 8-2
1. COMPANY NAME EA Engineering		2. DRILL SUBCONTRACTOR GREEN	
3. PROJECT 61625-17 FT. MENDE GOLF COURSE ERS/SI		4. COMPONENT N/A	5. AREA OF INT. 8
7. NAME OF DRILLER		6. GRID LOC./BIASED POINT NA	
9. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT MACROCORE LEADPROBE		8. MANUFACTURER'S DESIGNATION OF DRILL Direct Push or HSA	
TYPE OF LINER USED, IF APPLICABLE ACETATE		10. SURFACE ELEVATION AND CONDITIONS	
11. DIRECT READING PARAMETERS: VOC- PID, ppm RAD- Victoreen, uR/hr =		12. DATE STARTED 12/30/03	13. DATE COMPLETED 12/30/03
14. OVERBURDEN THICKNESS		15. DEPTH GROUNDWATER ENCOUNTERED Not encountered before refusal @ 14.3	
16. DEPTH DRILLED INTO ROCK N/A		17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
18. TOTAL DEPTH OF HOLE 14.3		19. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	
20. WELL INSTALLED? IF SO COMPLETE CONSTRUCTION DIAGRAM NO		SAMPLE TYPE: Grab	
21. SAMPLE INTERVAL AND DESIGNATION FOR LAB ANALYSIS		SAMPLE INTERVAL AND DESIGNATION FOR FIELD SCREENING ANALYSIS	
		SCREENING ANALYSIS PAH- N/A PCB- N/A VOG- N/A TNT- N/A	
22. DISPOSITION OF HOLE IF NOT A WELL, BACKFILLED WITH:		23. GEOLOGIST ALM	

USCS LOG (a)	DEPTH (FT) (b)	DESCRIPTION OF MATERIALS (c)	DIRECT READING (d)		ANALYTICAL SAMPLE DESIGN. (e)	DEPTH (FT) (f)	RECOVERY (IN.) (g)	REMARKS
			VOC (ppm)	RAD (uR/hr)				
	0-4"	Dark gray/brown, sandy silt and organic matter	0	N/A				
	4"-4'	Brown, moist, silty med. sand	0	N/A				
	4'		0	N/A				
	4-7'	same as above	0	N/A	VOC @ 0745			
	6'	substratens	0	N/A	sampled 8-2-6-8 @ 0750			
	7-8'	Tan, moist, medium SAND w/ little silt.	0	N/A				
	8'		0	N/A				
	10'		0	N/A				
	8-12'	same as above	0	N/A				
	12'		0	N/A				
	12-14'	same as above	0	N/A				
	14'		0	N/A				
		Auger refusal @ 14.3'		N/A				
	14'			N/A				
		END @ 14.3		N/A				
	16'			N/A				
	18'			N/A				
	20'			N/A				

BORING/WELL LOG		USACE DISTRICT BALTO/NSA	HOLE NUMBER 8-3
1. COMPANY NAME EA Engineering		2. DRILL SUBCONTRACTOR GREEN	
3. PROJECT 61625.17 FT. MEADE GOLF COURSE EBS/SI		4. COMPONENT N/A	5. AREA OF INT.
7. NAME OF DRILLER		6. GRID LOC./BIASED POINT	
9. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT MACROCORE CEDPROBE		8. MANUFACTURER'S DESIGNATION OF DRILL Direct Push or HSA	
TYPE OF LINER USED, IF APPLICABLE ACETATE		10. SURFACE ELEVATION AND CONDITIONS	
11. DIRECT READING PARAMETERS: VOC- PID, ppm RAD Victoreen, uR/hr e		12. DATE STARTED 12/30/03	13. DATE COMPLETED 12/30/03
14. OVERBURDEN THICKNESS		15. DEPTH GROUNDWATER ENCOUNTERED Not encountered	
16. DEPTH DRILLED INTO ROCK N/A		17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
18. TOTAL DEPTH OF HOLE 25'		19. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	
20. WELL INSTALLED? IF SO COMPLETE CONSTRUCTION DIAGRAM NO		SAMPLE TYPE: Grab	
21. SAMPLE INTERVAL AND DESIGNATION FOR LAB ANALYSIS 8-3-18-20		23. GEOLOGIST N/A	
22. DISPOSITION OF HOLE IF NOT A WELL, BACKFILLED WITH:		SCREENING ANALYSIS PAH PCB VOC TNT N/A	

USCS LOG (a)	DEPTH (FT) (b)	DESCRIPTION OF MATERIALS (c)	DIRECT READING (d)		ANALYTICAL SAMPLE DESIGN. (e)	DEPTH (FT) (f)	RECOVERY (IN.) (g)	REMARKS
			VOC (ppm)	RAD (uR/hr)				
	0-6"	Black, moist, silty sand incl organic matter.		N/A				
	6"-2'	Brown, moist, silty med. sand	0	N/A				
	2'-4'	Brown, moist, coarse SAND w/ some gravel (0.2-1cm)	0	N/A	8-3-18-20 VOC @ 0956			
	4'-5.5'	same as above			8-3-18-20 Soil @ 1000			
	5.5'-6'	Brown, moist, med. SAND w/ some silt	0	N/A				
	6'-8'	Tan, moist, med SAND w/ intermittent gray clay	0	N/A				
	8'-10'	Tan, moist, coarse med. SAND	0	N/A				
	10'-12'	Tan, moist, coarse SAND and GRAVEL (0.2-3 cm)	0	N/A				
			0	N/A				
	12'-15'	Same as above						
	15'-16'	Tan, moist, medium SAND.	0	N/A				
			0	N/A				
	16'-18'	Same as above	0	N/A				
			0	N/A				
	18'-21'	Same as above	0	N/A				

PROJECT: [REDACTED] HOLE NO.: [REDACTED]

BORING/WELL LOG		USACE DISTRICT BALTO./NSA	HOLE NUMBER B 5				
1. COMPANY NAME EA Engineering		2. DRILL SUBCONTRACTOR GREEN					
3. PROJECT 01625-17 FT. MEADE GOLF COURSE EBS/SI		4. COMPONENT N/A	5. AREA OF INT. E				
7. NAME OF DRILLER JEFF GREEN		8. MANUFACTURER'S DESIGNATION OF DRILL Direct Push or HSA					
9. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT MACROCORE LOG PROBE TYPE OF LINER USED, IF APPLICABLE ACETATE		10. SURFACE ELEVATION AND CONDITIONS Leaf litter, facies of southeast of pit.					
11. DIRECT READING PARAMETERS: VOC- PID, ppm RAD: Victoreen, uR/hr		12. DATE STARTED 22 Dec 03	13. DATE COMPLETED 22 Dec 03				
14. OVERBURDEN THICKNESS		15. DEPTH GROUNDWATER ENCOUNTERED None Encountered					
16. DEPTH DRILLED INTO ROCK N/A		17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED					
18. TOTAL DEPTH OF HOLE 26		19. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)					
20. WELL INSTALLED? IF SO COMPLETE CONSTRUCTION DIAGRAM NO		SAMPLE TYPE: Grab					
21. SAMPLE INTERVAL AND DESIGNATION FOR LAB ANALYSIS 8-5-4-6		SAMPLE INTERVAL AND DESIGNATION FOR FIELD SCREENING ANALYSIS N/A					
22. DISPOSITION OF HOLE SD-1		23. GEOLOGIST SMS					
USCS LOG (a)	DEPTH (FT) (b)	DESCRIPTION OF MATERIALS (c)	DIRECT READING (d) VOC (ppm) RAD (uR/hr)	ANALYTICAL SAMPLE DESIGN. (e)	DEPTH (FT) (f)	RECOVERY (%) (g)	REMARKS
	0-12	dark brown medium SAND, tr. silt, tr gravel.	0 N/A				
	12-3.8	tan medium SAND, clean tr. silt.	0.0 N/A				
	3.8-4	tan clayey SAND, little silt.	0.0 N/A	8-5-4-6			
	4-12	light tan SAND grading from medium to coarse w/ depth	0.0 N/A	VOC @ 6 @ 11/45			
	12-12.7	dark yellowish brown medium SAND to silt.	0.0 N/A				
	12.7-16	tan, mottled SAND, to silt. sand is coarse.	0.0 N/A				
	16-20	same as above	0.1 N/A				
	20-22.8	same as above	0.0 N/A				
	22.8-24	v. light gray clayey SILT	0.1 N/A				
	24-26	v. light gray clayey SILT with orange mottling					
		NO (GWS) encountered					

BORING/WELL LOG		USACE DISTRICT BALTO./NSA	HOLE NUMBER 8-6					
1. COMPANY NAME EA Engineering		2. DRILL SUBCONTRACTOR GREEN		SHEET 1 OF SHEETS				
3. PROJECT 01625-17 FT. MEADE GOLF COURSE EBS/SI		4. COMPONENT N/A	5. AREA OF INT.	6. GRID LOC./BIASED POINT				
7. NAME OF DRILLER		8. MANUFACTURER'S DESIGNATION OF DRILL <input checked="" type="checkbox"/> Direct Push <input type="checkbox"/> HSA						
9. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT MACROCORE CTD PROBE		10. SURFACE ELEVATION AND CONDITIONS						
TYPE OF LINER USED, IF APPLICABLE ACETATE								
11. DIRECT READING PARAMETERS: VOC- PID, ppm RAD - Victoreen, uR/hr e		12. DATE STARTED 12/22/03	13. DATE COMPLETED 12/22/03					
14. OVERBURDEN THICKNESS		15. DEPTH GROUNDWATER ENCOUNTERED N/A encountered.						
16. DEPTH DRILLED INTO ROCK N/A		17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED						
18. TOTAL DEPTH OF HOLE 24		19. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)						
20. WELL INSTALLED? IF SO COMPLETE CONSTRUCTION DIAGRAM		SAMPLE TYPE: Grab						
21. SAMPLE INTERVAL AND DESIGNATION FOR LAB ANALYSIS 55-7 ⇒ 86-55-7		SAMPLE INTERVAL AND DESIGNATION FOR FIELD SCREENING ANALYSIS N/A		SCREENING ANALYSIS RAH PEB VGG THT N/A				
22. DISPOSITION OF HOLE IF NOT A WELL, BACKFILLED WITH:		23. GEOLOGIST						
USCS LOG (a)	DEPTH (FT) (b)	DESCRIPTION OF MATERIALS (c)	DIRECT READING (d)		ANALYTICAL SAMPLE DESIGN. (e)	DEPTH (FT) (f)	RECOVERY (IN.) (g)	REMARKS
			VOC (ppm)	RAD (uR/hr)				
	0-0.6	Dark Brown/Black, silty SAND & organic matter, moist.	0	N/A				
	0.6-1.5	Light brown, moist, med. SAND with little gravel.	0	N/A				
	1.5-3.5	tan, moist, coarse SAND	0	N/A				
	3.5-8.0	tan, brown/orange, moist, med. SAND w/ little gravel	0	N/A	VOC from 556.0			
	6-8.0	Same as above	0	N/A	8-6-55-7 @ 1050			
	8.0-10.0	Same as above	0	N/A				
	10-12.0	Same as above	0	N/A				
	12-14.0	Same as above	0	N/A				
	14.0-16.0	Same as above	0	N/A				
	16-19.0	Same as above	0	N/A				
	19-20.0	tan-orange/brown, moist, coarse SAND and gravel (0.5-2.5cm)	0	N/A				
PROJECT: [REDACTED]		HOLE NO.:						

BORING/WELL LOG USACE DISTRICT BALTO./NSA HOLE NUMBER 8-7

1. COMPANY NAME EA Engineering 2. DRILL SUBCONTRACTOR GREEN SHEET 1 OF 1

3. PROJECT 61625.17 FT. MEADE GOLF COURSE EBS/SI 4. COMPONENT N/A 5. AREA OF INT. 6. GRID LOC./BIASED POINT

7. NAME OF DRILLER 8. MANUFACTURER'S DESIGNATION OF DRILL Direct Push or HSA

9. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT MACROCORE CDP PROBE 10. SURFACE ELEVATION AND CONDITIONS

TYPE OF LINER USED, IF APPLICABLE ACETATE

11. DIRECT READING PARAMETERS: VOC- PID, ppm RAD-Victoreen, uR/hr 12. DATE STARTED 12/22/03 13. DATE COMPLETED 12/22/03

14. OVERBURDEN THICKNESS 15. DEPTH GROUNDWATER ENCOUNTERED

16. DEPTH DRILLED INTO ROCK N/A 17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED

18. TOTAL DEPTH OF HOLE 20 19. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)

20. WELL INSTALLED? IF SO COMPLETE CONSTRUCTION DIAGRAM NO SAMPLE TYPE Grab

21. SAMPLE INTERVAL AND DESIGNATION FOR LAB ANALYSIS 8-7-14-15-5 SAMPLE INTERVAL AND DESIGNATION FOR FIELD SCREENING ANALYSIS SCREENING ANALYSIS N/A

22. DISPOSITION OF HOLE IF NOT A WELL, BACKFILLED WITH: 23. GEOLOGIST

USCS LOG (a)	DEPTH (FT) (b)	DESCRIPTION OF MATERIALS (c)	DIRECT READING (d)		ANALYTICAL SAMPLE DESIGN. (e)	DEPTH (FT) (f)	RECOVERY (IN.) (g)	REMARKS
			VOC (ppm)	RAD (uR/hr)				
	0-0.4	dark brown, moist, silty med. SAND and organic matter.	0	N/A				
	0.4-1.0	orange/tan, moist, SAND and gravel	0	N/A				
	1.0-4.5	Brown/tan, moist, SAND w/ some gravel (0.5 cm)	0	N/A				
	4.5-5.5	tan, fine SAND, moist	0	N/A				
	5.5-12.0	dark tan/light tan alternating, coarse SAND, moist	0	N/A				
	8	same	0	N/A	collected sample @ 0925 am			8-7-14.0-15.5
	10	same	0	N/A				
	12	same	0	N/A				
	12-14.0	same as above						
	14.0-15.5	Tan very coarse SAND and gravel (0.5-3cm), wet @ 15.5'	0	N/A				
	15.5-16.0	grey, hard, clay	0	N/A				
	16.0-18.0	Brownish/tan, wet, med. SAND w/ some gravel.	0	N/A				
	18.0-20.0	Tan/Brownish orange, wet, coarse SAND with some gravel (0.5-1cm)	0	N/A				
	20	end @ 20.0'	0	N/A				

PROJECT: [REDACTED] HOLE NO.:

BORING/WELL LOG

1. COMPANY NAME: EA Engineering
 2. DRILL SUBCONTRACTOR: GREEN
 SHEET 1 OF 1

3. PROJECT: 01625.17 FT. MEADE GOLF COURSE EBS/SI
 4. COMPONENT: N/A
 5. AREA OF INT.: 8
 6. GRID LOC./BIASED POINT: N/A

7. NAME OF DRILLER: DON HACKETT
 8. MANUFACTURER'S DESIGNATION OF DRILL: Direct Push or HSA

9. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: MACROCORE GEOPROBE
 TYPE OF LINER USED, IF APPLICABLE: ACETATE

10. SURFACE ELEVATION AND CONDITIONS: Maintained ground - near main driveway - west of fairway 14 ft.

11. DIRECT READING PARAMETERS: VOC- PID, ppm: RAD, Victoreen, uR/hr: e
 12. DATE STARTED: 19 Dec 03
 13. DATE COMPLETED: 19 Dec 03

14. OVERBURDEN THICKNESS:
 15. DEPTH GROUNDWATER ENCOUNTERED: approx. 20' bgs

16. DEPTH DRILLED INTO ROCK: N/A
 17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED:

18. TOTAL DEPTH OF HOLE: 25'
 19. OTHER WATER LEVEL MEASUREMENTS (SPECIFY):

20. WELL INSTALLED? IF SO COMPLETE CONSTRUCTION DIAGRAM: YES
 SAMPLE TYPE: Grab

21. SAMPLE INTERVAL AND DESIGNATION FOR LAB ANALYSIS: 10.5-13.7 / 8-8-10.5-13.7 ms / MS
 SAMPLE INTERVAL AND DESIGNATION FOR FIELD SCREENING ANALYSIS: 6-6-02 jars GMS/MSD
 SCREENING ANALYSIS: PAH, PCB, VOG, TNT: N/A

22. DISPOSITION OF HOLE: IF NOT A WELL, BACKFILLED WITH:
 23. GEOLOGIST: SMS

USCS LOG (a)	DEPTH (FT) (b)	DESCRIPTION OF MATERIALS (c)	DIRECT READING (d)		ANALYTICAL SAMPLE DESIGN. (e)	DEPTH (FT) (f)	RECOVERY (g)	REMARKS
			VOC (ppm)	RAD (uR/hr)				
	0-4'	dark brown coarse SAND grading to yellowish brown silty SAND moist.	0.0	N/A			↓ 4	
	4-4.3'	tan SAND with some gravel - subangular up to 1.2cm.	0.0	N/A			↓ 4	
	4.3-8'	tan grading to light orange/tan very fine silty SAND	0.0	N/A			↓	
	8-10.0'	Same as above but increasing in SAND content. Sand is medium.		N/A			↓ 3'	
	10.0-11'	light moist clay SILT little fine sand.	0.0	N/A			↓	
	11-13.7'	light tan wet medium clean SAND	0.0	N/A	10.5 → 13.7 @ 1244 VCA @ 10.7 8-8-10.5-13.7		↓ 3	
	13.7-16.2'	very light gray clayey SILT.		N/A			↓	
	16.2-16.8'	wet tan gray silty SAND w/ m. silt	0.2	N/A			↓ 3	
	16.8-17.5'	light gray clayey SILT, hard		N/A			↓ 3	
	17.5-25'	light tan coarse SAND grading to coarse w/ depth, wet @ 20-20.5 days 206	0.0	N/A			↓ 3 ↓ 2	Notes on log

BORING/WELL LOG		USACE DISTRICT BALTO./NSA	HOLE NUMBER E-9
1. COMPANY NAME EA Engineering		2. DRILL SUBCONTRACTOR GREEN	
3. PROJECT G1625.17 FT. MENDE GOLF COURSE EBS/SI		4. COMPONENT N/A	5. AREA OF INT. E
7. NAME OF DRILLER D. HACKETT		8. MANUFACTURER'S DESIGNATION OF DRILL Direct Push or HSA	
9. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT MACROCORE GEOPROBE		10. SURFACE ELEVATION AND CONDITIONS mainland grass - no major anomaly	
TYPE OF LINER USED, IF APPLICABLE ACETATE		11. DIRECT READING PARAMETERS: VOC- PID, ppm RAD: Victoreen, uR/hr e	12. DATE STARTED 19 DEC 03
14. OVERBURDEN THICKNESS —		13. DATE COMPLETED 19 DEC 03	
16. DEPTH DRILLED INTO ROCK N/A		15. DEPTH GROUNDWATER ENCOUNTERED Approx 12.5' bgs	
18. TOTAL DEPTH OF HOLE 27'		17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
20. WELL INSTALLED? IF SO COMPLETE CONSTRUCTION DIAGRAM No		19. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	
21. SAMPLE INTERVAL AND DESIGNATION FOR LAB ANALYSIS E-9 - 12.5-14		SAMPLE INTERVAL AND DESIGNATION FOR FIELD SCREENING ANALYSIS N/A	
22. DISPOSITION OF HOLE IF NOT A WELL, BACKFILLED WITH:		SCREENING ANALYSIS PAH- PEB- VOG- FNT- N/A	
23. GEOLOGIST			

USCS LOG (a)	DEPTH (FT) (b)	DESCRIPTION OF MATERIALS (c)	DIRECT READING (d)		ANALYTICAL SAMPLE DESIGN. (e)	DEPTH (FT) (f)	RECOVERY (g)	REMARKS
			VOC (ppm)	RAD (uR/hr)				
	0-0.2	dark brown SAND, trace silt. mat.	0.0	N/A			↓ 4	
	0.2-4	yellowish brown clean transition to coarse SAND	0.0	N/A			↓ 4	
	4-8	yellowish brown SAND grading to light tan, mat.					↓ 4	
		coarse clean sand @ 4.5-6.8	0.0	N/A				
	7.8-8.0	silty SAND,	0.0	N/A				
	8-8.5	yellowish brown clean coarse SAND	0.0	N/A				
	8.5-11	very light gray, hard clay clay with some silt.	0.0	N/A			↓ #3 DMG	
	11.2-11.5	clay w/ cubes with some sand with subrounded gravel. wet.	0.0	N/A				
	12.5-13.2	tan coarse SAND with some small gravel subangular trace silt.	0.0	N/A				
	13.2-13.8	very light gray SAND grading with clay to more fine material.	0.0	N/A	12.5-14/02 H30			
	3.5-14	very light gray silty SAND sand is white.		N/A	E-9-12.5-14		↓ 3'	

BORING/WELL LOG		(CONTINUATION SHEET)		COMPONENT-AREA C ² INT.		GRID/BIASED POINT LOCATION		
PROJECT 61625-17 FT. MEADE EBS		GEOLOGIST SULLS				SHEET 2 OF 2 SHEETS		
USCS LOG	DEPTH (FT)	DESCRIPTION OF MATERIALS	DIRECT READING (d)		ANALYTICAL SAMPLE DESIGNATION	DEPTH (FT)	RECOVERY (%)	REMARKS
			VOC (ppm)	RAD (uR/hr)				
(a)	(b)	(c)	(d)	(e)	(f)	(g)		
	14-15	Substantiated gravelly SAND light gray with little SILT. Sand is coarse	0.0	N/A				
	15-16	U. fine light tan SAND well sorted		N/A				
	16-17	U. light gray hard CLAY.	2.0				↓ 3'	
	17-18	Silky SAND w/ tr. clay - wet.	2.0					Third (2) samples from 16-20 - no water
								Ball to 27' - wet silt.
							↓ 3'	Not wet enough to sample.
	19-20	very light gray CLAY mixed silt.	0.6				↓ 3'	
	20-23	Same as above					↓ 2'	
	23-27	light gray SILT w/ little sand	0.6				↓ 2'	
		27. wet or briny					↓ 2'	

BORING/WELL LOG		USACE DISTRICT	HOLE NUMBER					
1. COMPANY NAME EA Engineering		BALTO./NSA	8-10					
2. DRILL SUBCONTRACTOR GREEN		SHEET 1 OF 20						
3. PROJECT 61625-17 FT. MEADE GOLF COURSE EBS/SI		4. COMPONENT N/A	5. AREA OF INT. 8					
7. NAME OF DRILLER DON HACKET		6. GRID LOC./BASED POINT N/A						
9. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT MACROCORE GEOPROBE		8. MANUFACTURER'S DESIGNATION OF DRILL Direct Push or HSA						
TYPE OF LINER USED, IF APPLICABLE ACETATE		10. SURFACE ELEVATION AND CONDITIONS MAINTAINED GRASS, just not mowed						
11. DIRECT READING PARAMETERS: VOC- PID, ppm RAD-Victoreen, uR/hr		12. DATE STARTED 22 DEC 03	13. DATE COMPLETED 22 DEC 03					
14. OVERBURDEN THICKNESS		15. DEPTH GROUNDWATER ENCOUNTERED approx 20' bgs						
16. DEPTH DRILLED INTO ROCK N/A		17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED						
18. TOTAL DEPTH OF HOLE 22'		19. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)						
20. WELL INSTALLED? IF SO COMPLETE CONSTRUCTION DIAGRAM No		SAMPLE TYPE: Grab						
21. SAMPLE INTERVAL AND DESIGNATION FOR LAB ANALYSIS 8-10-18-20 8-20 bgs		SAMPLE INTERVAL AND DESIGNATION FOR FIELD SCREENING ANALYSIS N/A						
22. DISPOSITION OF HOLE IF NOT A WELL, BACKFILLED WITH:		23. GEOLOGIST SMS						
USCS LOG (a)	DEPTH (FT) (b)	DESCRIPTION OF MATERIALS (c)	DIRECT READING (d)		ANALYTICAL SAMPLE DESIGN. (e)	DEPTH (FT) (f)	RECOVERY (g)	REMARKS
			VOC (ppm)	RAD (uR/hr)				
	0-0.5	clayey brown SAND, little silt. medium sand.		N/A		0		
	0.5-8'	yellowish brown grading to light tan SAND, sand is medium to coarse, little silt.	0.1	N/A		4		
	8-9.5	Same as above	0.0	N/A		4		
	9.5-11'	light tan medium to coarse SAND, with 1-1 1/2" sub angular gravel (up to 1-2%) trace silt.	0.0	N/A		4		
	11-13'	v. light gray SILT with yellow/orange mottling. some clay.	0.0	N/A				
	13-13.5	tan medium SAND with dark gray and yellowish orange mottling. hr. silt.	0.1	N/A				
	13.5-15'	very light gray SILT with yellowish orange mottling, little clay.	0.0	N/A		3		
	15-3-18'	v. light tan medium to coarse SAND.	0	N/A				
	18-18.5	yellowish gray medium SAND with little silt, little clay.	0	N/A	8-10-18-20	3.5		Saturated @ 20'
	18.5-21'	Same as above w/ more gravel @ 20' bgs	0	N/A	Vol 20 @ 950			
	21-22'	v. light gray SILT, clay plastic	0.1	N/A				
PROJECT:		HOLE NO.: 8-10						

BORING/WELL LOG		USACE DISTRICT BALTO./NSA	HOLE NUMBER 8-12
1. COMPANY NAME EA Engineering		2. DRILL SUBCONTRACTOR GREEN	SHEET 1 OF 1 SHEETS
3. PROJECT 61625.17 FT. MEADE GOLF COURSE EBS/SI		4. COMPONENT N/A	5. AREA OF INT. 8
7. NAME OF DRILLER DN		8. MANUFACTURER'S DESIGNATION OF DRILL Direct Push or HSA	
9. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT MACROCORE CDD PROBE		10. SURFACE ELEVATION AND CONDITIONS MAINTAINED GRASS AT EAST EDGE OF PARKWAY 14P	
TYPE OF LINER USED, IF APPLICABLE ACETATE		11. DIRECT READING PARAMETERS: VOC- PID, ppm RAD Victoreen, uR/hr e	12. DATE STARTED 22 DEC 03
14. OVERBURDEN THICKNESS		13. DATE COMPLETED 22 DEC 03	
16. DEPTH DRILLED INTO ROCK N/A		15. DEPTH GROUNDWATER ENCOUNTERED Approx. 16' bgs	
18. TOTAL DEPTH OF HOLE 18		17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
20. WELL INSTALLED? IF SO COMPLETE CONSTRUCTION DIAGRAM NO		19. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	
21. SAMPLE INTERVAL AND DESIGNATION FOR LAB ANALYSIS 8-12-0.5-2 e1055		SAMPLE INTERVAL AND DESIGNATION FOR FIELD SCREENING ANALYSIS N/A	
22. DISPOSITION OF HOLE IF NOT A WELL, BACKFILLED WITH:		23. GEOLOGIST SJS	
SCREENING ANALYSIS PAH PCB VOG TNT N/A			

USCS LOG (a)	DEPTH (FT) (b)	DESCRIPTION OF MATERIALS (c)	DIRECT READING (d)		ANALYTICAL SAMPLE DESIGN. (e)	DEPTH (FT) (f)	RECOVERY (IN.) (g)	REMARKS
			VOC (ppm)	RAD (uR/hr)				
	0-0.3	dark brown SAND with + silt.						
	0.3-4	yellowish brown medium SAND moist - slight darkening to 1.5'	0.1	N/A	8-12-0.5-2 e1055 VOC @ 1.2		4	
	4-8	Same as above, sand increasing in coarseness with depth also grading in color to light tan	0.0	N/A			4	
	8-10.2	tan same as above	0.0	N/A				
	10.2-10.8	light tan silty fine SAND with some gravel. gravel is sub-rounded.	0.0	N/A				
	10.8-11.8	tan SAND, medium to heavy trace silt.		N/A			4	
	11.8-12.6	v. light gray clayey silt.	0.1	N/A				
	12.6-14.5	yellowish tan fine SAND with some clay and some silt		N/A				
	14.5-15	v. light gray silty CLAY		N/A			3	Subsided @ 16'
	15-18	mottled medium to coarse silty clayey SAND.	0.0	N/A				
				N/A				
				N/A				
				N/A				
				N/A				

PROJECT: [REDACTED]	HOLE NO: 8-12
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HTRW BORING/WELL LOG			USACE DISTRICT <i>PAJTO</i>		HOLE NUMBER <i>9-1</i>		
1. COMPANY NAME <i>EA Engineering</i>			2. DRILL SUBCONTRACTOR <i>(GREEN ENCL.)</i>			SHEET <i>1</i>	SHEETS OF <i>1</i>
3. PROJECT <i>Ft. Meade</i>			4. COMPONENT <i>M2A 9</i>		5. AREA <i>9</i>	6. GRID LOC./BIASED POINT <i>1</i>	
7. NAME OF DRILLER <i>J. Green</i>			8. MANUFACTURER'S DESIGNATION OF DRILL Direct Push or HSA				
9. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <i>2" OD X 2' long steel core barrel sampler Macrocore scoop probe</i>			10. SURFACE ELEVATION AND CONDITIONS <i>MAINTAINED GRASS</i>				
TYPE OF LINER USED, IF APPLICABLE PETG <i>Acetate</i>			11. DIRECT READING PARAMETERS: VOC- PID, ppm RAD- Victoreen, uR/hr		12. DATE STARTED <i>12/15/13</i>	13. DATE COMPLETED <i>12/15/13</i>	
14. OVERBURDEN THICKNESS <i>—</i>			15. DEPTH GROUNDWATER ENCOUNTERED <i>Approx. 14' bgs</i>				
16. DEPTH DRILLED INTO ROCK <i>—</i>			17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <i>—</i>				
18. TOTAL DEPTH OF HOLE <i>16'</i>			19. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)				
20. WELL INSTALLED? IF SO COMPLETE CONSTRUCTION DIAGRAM <i>Yes</i>			SAMPLE TYPE: Grab				
21. SAMPLE INTERVAL AND DESIGNATION FOR LAB ANALYSIS <i>12-16 = 9-1-12-16</i>		SAMPLE INTERVAL AND DESIGNATION FOR FIELD SCREENING ANALYSIS <i>N/A</i>		SCREENING ANALYSIS PAH PCB VOC TNT <i>N/A</i>			
22. DISPOSITION OF HOLE IF NOT A WELL, BACKFILLED WITH:			23. GEOLOGIST <i>D. Will</i>				

USCS LOG (a)	DEPTH (FT) (b)	DESCRIPTION OF MATERIALS (c)	DIRECT READING (d)		ANALYTICAL SAMPLE DESIGN. (e)	DEPTH (FT) (f)	RECOVERY (IN.) (g)	REMARKS
			VOC (ppm)	RAD (uR/hr)				
		<i>0-4' No Recovery</i>	<i>0</i>	<i>0</i>			<i>0</i>	
		<i>4-8' Mod yellowish br & light yellowish br on scale layers of silty medium SAA moist</i>	<i>0</i>	<i>0</i>			<i>36</i>	
		<i>8-12" SAA</i>	<i>0</i>	<i>0</i>			<i>38</i>	
<i>12-16'</i>		<i>12-16' Mod yellowish br. silty coarse sand w/ some gravel 0-12" wet</i>			<i>9-1-12-16</i>		<i>37</i>	<i>(GW collected @ 0900 = Area 9-1"</i>
		<i>12-24" Yellowish gray CLAY soft w/ fine sand (c) wet</i>						
		<i>24-37" Yellowish br. silty fine SAND, wet w/ br. silt</i>						
		<i>Bottom 16'</i>						

9-2

HTRW BORING/WELL LOG		USACE DISTRICT 9-2	HOLE NUMBER 9-2
1. COMPANY NAME EA Engineering		2. DRILL SUBCONTRACTOR GREEN ENV.	
3. PROJECT Ft. Meade		4. COMPONENT AREA 9	5. AREA 9
7. NAME OF DRILLER Green		8. MANUFACTURER'S DESIGNATION OF DRILL Direct Push or HSA	
9. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 2" OD X 2' long steel core-barrel sampler Macrocore geodouble		10. SURFACE ELEVATION AND CONDITIONS grassy, not driving range	
11. DIRECT READING PARAMETERS: VOC- PID 0 ppm RAD- Victoreen, uR/hr		12. DATE STARTED 12/15/03	13. DATE COMPLETED 12/15/03
14. OVERBURDEN THICKNESS		15. DEPTH GROUNDWATER ENCOUNTERED Approx. 14'	
16. DEPTH DRILLED INTO ROCK		17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
18. TOTAL DEPTH OF HOLE 19'		19. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	
20. WELL INSTALLED? IF SO COMPLETE CONSTRUCTION DIAGRAM NO		SAMPLE TYPE: Grab -	
21. SAMPLE INTERVAL AND DESIGNATION FOR LAB ANALYSIS 8-12'		SAMPLE INTERVAL AND DESIGNATION FOR FIELD SCREENING ANALYSIS N/A	
22. DISPOSITION OF HOLE IF NOT A WELL, BACKFILLED WITH:		23. GEOLOGIST Denise Wilt	
SCREENING ANALYSIS PAH - PCB - VOC - TNT -			

USCS LOG (a)	DEPTH (FT) (b)	DESCRIPTION OF MATERIALS (c)	DIRECT READING (d)		ANALYTICAL SAMPLE DESIGN. (e)	DEPTH (FT) (f)	RECOVERY (IN.) (g)	REMARKS
			VOC (ppm)	RAD (uR/hr)				
	0-4'							
	0-12'	Mod. Yellowish br loyrsly Silty med sand tr. gravel moist	0	N/A			29.5"	
	12'-29.5"	Dk. Yellowish br loyrsly Silty sand moist	0					
	29.5'-37"	Light yellowish br loyrsly fine layers of light yellowish br silt med tr. gravel moist	0				37"	
	37'-48'	0-12" SIA 12-24" Mod. yellowish br. coarse sand w/ some gravel tr. silt moist	0		Area 9-2-8-12 @ 800		48"	
	48'-57"	24-37" yellowish gray silt/clay, dry hard	0					
	57'-60"	37"-48" Mod. yellowish br silty med. sand tr. gravel moist	0				40"	
	60'-80"	0-30" light yellowish br silty clayed fine sand w/ some gravel (etc) layers moist	0					
	80'-90"	30-40" yellowish gray clay hard, dry	0					
	90'-119'	v. light yellowish br fine SAND Tr. silt - moist						

BORING/WELL LOG		USACE DISTRICT	HOLE NUMBER					
1. COMPANY NAME EA Engineering		BALTO./NSA	11-1					
2. DRILL SUBCONTRACTOR GREEN		SHEET 1 OF SHEETS						
3. PROJECT 01625.17 FT. MEADE GOLF COURSE EBS/SI		4. COMPONENT N/A	5. AREA OF INT. 11					
7. NAME OF DRILLER		8. MANUFACTURER'S DESIGNATION OF DRILL Direct Push or HSA						
9. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT MACROCORE CDD PROBE TYPE OF LINER USED, IF APPLICABLE ACETATE		10. SURFACE ELEVATION AND CONDITIONS						
11. DIRECT READING PARAMETERS: VOC- PID, ppm RAD- Victoreen, uR/hr		12. DATE STARTED 12/22/03	13. DATE COMPLETED 12/22/03					
14. OVERBURDEN THICKNESS		15. DEPTH GROUNDWATER ENCOUNTERED Not encountered						
16. DEPTH DRILLED INTO ROCK N/A		17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED						
18. TOTAL DEPTH OF HOLE 24'		19. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)						
20. WELL INSTALLED? IF SO COMPLETE CONSTRUCTION DIAGRAM		SAMPLE TYPE: Grab						
21. SAMPLE INTERVAL AND DESIGNATION FOR LAB ANALYSIS 11-1-5.5-7.0		21. SAMPLE INTERVAL AND DESIGNATION FOR FIELD SCREENING ANALYSIS N/A						
22. DISPOSITION OF HOLE IF NOT A WELL, BACKFILLED WITH:		23. GEOLOGIST A L MARCEM						
USCS LOG (a)	DEPTH (FT) (b)	DESCRIPTION OF MATERIALS (c)	DIRECT READING (d)		ANALYTICAL SAMPLE DESIGN. (e)	DEPTH (FT) (f)	RECOVERY (IN.) (g)	REMARKS
			VOC (ppm)	RAD (uR/hr)				
	2	0-0.6' - Dark brown/black, sandy SILT and organic matter, moist. 0.6-5.5' - Orange/Brown, fine sandy SILT, Moist	0	N/A				
	4	3.5-4'	0	N/A				
	6	5.5'-6.0' - Same as above. 6.0-7.3' - orange brown/moist, silty fine SAND w/ little gravel.	0	N/A				
	8	7.3-8.0' - Same as above w/ some gravel (0.5-1.5cm)	0	N/A	VOC @ 6.0-6.3' 19-1-5.5-7.0' @ 1320			
	10	Same as above	0	N/A				
	12	8.0-11.7' - brownish/tan w/ some reddish color, moist, silty fine SAND	0	N/A				
	14	11.7-12.0' - tan/brown, moist, large coarse SAND w/ little gravel.	0	N/A				
	16	12.0-14.8' - Same as above 14.8-15.4' - light tan/brown, moist, large coarse SAND w/ little gravel.	0	N/A				
	18	15.4-16.0' - gray, moist, hard, fine sandy SILT. 16.0-17.5' - Same as above	0	N/A				
	20	17.5-19.0' - orange/brown, moist, medium SAND w/ small pebbles of gray SILT. 19.0-20' - Tan, moist, coarse SAND	0	N/A				

PROJECT: [REDACTED] HOLE NO.:

BORING/WELL LOG

1. COMPANY NAME: EA Engineering
 2. DRILL SUBCONTRACTOR: GREEN
 SHEET 1 OF 1

3. PROJECT: 61625-17 FT. MERRILL GOLF COURSE EBS/SI
 4. COMPONENT: N/A
 5. AREA OF INT.: 13
 6. GRID LOC./BIASED POINT: B10146

7. NAME OF DRILLER: D. SKRITT
 8. MANUFACTURER'S DESIGNATION OF DRILL: Direct Push or HSA

9. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: MACROCORE GEOPROBE
 TYPE OF LINER USED, IF APPLICABLE: ACETATE

10. SURFACE ELEVATION AND CONDITIONS: Low lying area - drainage easement with 2 scrub grasses.

11. DIRECT READING PARAMETERS: VOC- PID, ppm
 RAD- Victoreen, uR/hr = e

12. DATE STARTED: 19 Dec 03
 13. DATE COMPLETED: 19 Dec 03

14. OVERBURDEN THICKNESS: -

15. DEPTH GROUNDWATER ENCOUNTERED: Approx 15.8

16. DEPTH DRILLED INTO ROCK: N/A

17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED

18. TOTAL DEPTH OF HOLE: 16'

19. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)

20. WELL INSTALLED? NO IF SO COMPLETE CONSTRUCTION DIAGRAM SAMPLE TYPE: Grab

21. SAMPLE INTERVAL AND DESIGNATION FOR LAB ANALYSIS: 3-4.6 (top of hole) 13-1-3-4.6
 SAMPLE INTERVAL AND DESIGNATION FOR FIELD SCREENING ANALYSIS: N/A
 SCREENING ANALYSIS: PAH, PCB, VOC, TNT: N/A

22. DISPOSITION OF HOLE: IF NOT A WELL, BACKFILLED WITH:
 23. GEOLOGIST:

USCS LOG (a)	DEPTH (FT) (b)	DESCRIPTION OF MATERIALS (c)	DIRECT READING (d)		ANALYTICAL SAMPLE DESIGN. (e)	DEPTH (FT) (f)	RECOVERY (MT) (g)	REMARKS
			VOC (ppm)	RAD (uR/hr)				
	0-0.3	Dark brown silty SAND						
	0.3-1.2	tan coarse SAND - clean		N/A				
	1.2-4.6	brown SAND with some silty grading to brownish gray in color very moist. Sand is medium.		N/A	3-4.6 13-1-3-4.6 @	915	4	
	4.6-1.6	very light gray silty CLAY with red and yellow mottling. Clay is hard moist. Near mottling at depth. Mottling gives way to solid clay gray, red + brown clay layers in the 9-11" interval		N/A	VERSE 4.5		4	
	1.6-14.8	light gray clayey SAND, wet. Sand is very fine		N/A			3	
	14.8-15.8	6" CLAY - same as above		N/A				
	15.8-16	SATURATED brownish gray silty SAND. sand is fine		N/A			3	
		16' END.		N/A				

BORING/WELL LOG		USACE DISTRICT	HOLE NUMBER					
1. COMPANY NAME EA Engineering		BALTO./NSA	13 2					
2. DRILL SUBCONTRACTOR GREEN		SHEET 1 OF 2						
3. PROJECT 01625-17 FT. MEADE GOLF COURSE EBS/SI		4. COMPONENT N/A	5. AREA OF INT. B					
7. NAME OF DRILLER DON HACKETT		6. GRID LOC./BIASED-POINT 44212, C20/30						
9. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT MACROCORE LEAD PROBE TYPE OF LINER USED, IF APPLICABLE ACETATE		8. MANUFACTURER'S DESIGNATION OF DRILL Direct Push or HSA						
11. DIRECT READING PARAMETERS: VOC- PID, ppm RAD, Victoreen, uR/hr		10. SURFACE ELEVATION AND CONDITIONS Full earth grass - same in hole point						
14. OVERBURDEN THICKNESS -		12. DATE STARTED 19 DEC 03						
16. DEPTH DRILLED INTO ROCK N/A		13. DATE COMPLETED 19 DEC 03						
18. TOTAL DEPTH OF HOLE 12'		15. DEPTH GROUNDWATER ENCOUNTERED N/A 0'						
20. WELL INSTALLED? IF SO COMPLETE CONSTRUCTION DIAGRAM Yes		17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED						
21. SAMPLE INTERVAL AND DESIGNATION FOR LAB ANALYSIS 4-8'		19. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)						
SAMPLE INTERVAL AND DESIGNATION FOR FIELD SCREENING ANALYSIS N/A		SAMPLE TYPE: Grab						
22. DISPOSITION OF HOLE IF NOT A WELL, BACKFILLED WITH:		SCREENING ANALYSIS PAH PCB VOG TNT N/A						
23. GEOLOGIST JMS								
USCS LOG (a)	DEPTH (FT) (b)	DESCRIPTION OF MATERIALS (c)	DIRECT READING (d)		ANALYTICAL SAMPLE DESIGN. (e)	DEPTH (FT) (f)	RECOVERY (IN.) (g)	REMARKS
			VOC (ppm)	RAD (uR/hr)				
	0-0.2	dark brown sandy SILT						
	0.2-3.5	Sand as above but lighter brown	0	N/A				
	3.5-4	greenish orange gravelly SAND, moist. Sand is medium. Gravel is poorly sorted - sub rounded	0	N/A				
	4-6	Sand as above - turning less orange - more brown - sand becoming less coarse. Fine silt in silt	0	N/A				
	6-6.5	WET brown silty SAND	0	N/A	4-8 13-2-4-8 (CCE10)			
	6.5-7.5	Very light clayey grey clayey SAND. Sample is very fine.	0	N/A				
	7.5-10	light yellowish brown medium SAND fine SILT trace clay, orange	0	N/A				
	10-10.5	from brown to light yellow and at the top of depth SITTUNTES	0	N/A	CW Sample 13-2 collected CCE20			
	10.5-11	v. light grey CLAY, soft moist, plat.	0	N/A				
	11-12	same as above but with fine SAND	0	N/A			4	

BORING/WELL LOG		USACE DISTRICT BALTO./NSA	HOLE NUMBER 13A-1
1. COMPANY NAME EA Engineering		2. DRILL SUBCONTRACTOR GREEN	
3. PROJECT 61625.17 FT. MEADE GOLF COURSE EBS/SI		4. COMPONENT N/A	5. AREA OF INT. 13A
7. NAME OF DRILLER D. HACKETT		8. MANUFACTURER'S DESIGNATION OF DRILL Direct Push or HSA	
9. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT MACROCORE GEOPROBE		10. SURFACE ELEVATION AND CONDITIONS 1111.00 / 12.16.03	
TYPE OF LINER USED, IF APPLICABLE ACETATE		11. DIRECT READING PARAMETERS: VOC- PID, ppm RAD - Victoreen, uR/hr	
14. OVERBURDEN THICKNESS -		12. DATE STARTED 12-16-03	
16. DEPTH DRILLED INTO ROCK N/A		13. DATE COMPLETED 12-16-03	
18. TOTAL DEPTH OF HOLE 12		15. DEPTH GROUNDWATER ENCOUNTERED 3.5 - 4.5 (SATURATED) (SAND) @ 5'	
20. WELL INSTALLED? IF SO COMPLETE CONSTRUCTION DIAGRAM Yes		17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED -	
21. SAMPLE INTERVAL AND DESIGNATION FOR LAB ANALYSIS 13A-1-3-5.5 STD DUAL		19. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) -	
SAMPLE INTERVAL AND DESIGNATION FOR FIELD SCREENING ANALYSIS N/A		20. SAMPLE TYPE: Grab	
22. DISPOSITION OF HOLE IF NOT A WELL, BACKFILLED WITH:		23. GEOLOGIST STLS	
SCREENING ANALYSIS PAH PCB VOG TNT N/A			

USCS LOG (a)	DEPTH (FT) (b)	DESCRIPTION OF MATERIALS (c)	DIRECT READING (d)		ANALYTICAL SAMPLE DESIGN. (e)	DEPTH (FT) (f)	RECOVERY (g)	REMARKS
			VOC (ppm)	RAD (uR/hr)				
	0-0.5	Dark Brown Silty silt, silty clay, moist	0	N/A				
	0.5-1	tan clayey silty sand with 1.0% silt.	0	N/A				
		1.0% subangular gravel 0.2 - 1.2 cm	0	N/A				
	1-2	light tanish gray silty clay with some subangular gravel	0	N/A		4		
		moist - up to 1.5 cm		N/A				
	2-4.5	silty sand - silty sand	0	N/A				
		partly saturated - 2 mm to 15 mm		N/A				
		2 mm - subangular		N/A				
	4.5-5.5	silty sand with trace silt	0	N/A	13A-1-3-5.5			Dup time: 1000
		saturated		N/A	0.5 cm SS			
	5.5-6.5	tanish gray, light, moist clay, moist	0	N/A				
	6.5-6.7	base of light yellowish gray sand	0	N/A		4		
	6.7-7.5	tanish gray, light, moist		N/A				
		clay silty sand		N/A				
	7.5-8.5	tanish brown to grayish sand w/ some clay light gray	0	N/A	13A-1			30930
		gray silty sand		N/A				

USACE DISTRICT: BALTO./NSA HOLE NUMBER: 134-2

BORING/WELL LOG

1. COMPANY NAME: EA Engineering
 2. DRILL SUBCONTRACTOR: GREEN
 SHEET 1 OF 1

3. PROJECT: 01625-17 FT. MEADE GOLF COURSE EBS/SI
 4. COMPONENT: N/A
 5. AREA OF INT.: 134
 6. GRID LOC./BIASED POINT: D+35, 25C

7. NAME OF DRILLER: D HACKETT
 8. MANUFACTURER'S DESIGNATION OF DRILL: Direct Push or HSA

9. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: MACROCORE GEOPROBE
 TYPE OF LINER USED, IF APPLICABLE: ACETATE

10. SURFACE ELEVATION AND CONDITIONS

11. DIRECT READING PARAMETERS: VOC- PID, ppm
 RAD: Victoreen, uR/hr

12. DATE STARTED: 12-14-03
 13. DATE COMPLETED: 12-16-03

14. OVERBURDEN THICKNESS: -
 15. DEPTH GROUNDWATER ENCOUNTERED: 10.5

16. DEPTH DRILLED INTO ROCK: N/A
 17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED

18. TOTAL DEPTH OF HOLE: 12'
 19. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)

20. WELL INSTALLED? IF SO COMPLETE CONSTRUCTION DIAGRAM:
 SAMPLE TYPE: Grab

21. SAMPLE INTERVAL AND DESIGNATION FOR LAB ANALYSIS: 6-6.5' / 134-2-6 7.5 (CEIC)
 SAMPLE INTERVAL AND DESIGNATION FOR FIELD SCREENING ANALYSIS: N/A
 SCREENING ANALYSIS: PAH, PCB, VOC, TNT: N/A

22. DISPOSITION OF HOLE: IF NOT A WELL, BACKFILLED WITH: SEE
 23. GEOLOGIST: SAHS

USCS LOG (a)	DEPTH (FT) (b)	DESCRIPTION OF MATERIALS (c)	DIRECT READING (d)		ANALYTICAL SAMPLE DESIGN. (e)	DEPTH (FT) (f)	RECOVERY (IN.) (g)	REMARKS
			VOC (ppm)	RAD (uR/hr)				
	0-1	Dark brown silty SILT	0	N/A				
	1-2	Yellow-brown silty SAND, MUDS!						
	2-4	Yellow-brown silty SAND, MUDS! ^{most}	0	N/A			4'	
	4.5-6.5	Light brown SAND fine silty MUDS!	0	N/A	134-2-6 7.5 (CEIC)			
	6.5-7.5	Light brown silty SAND, MUDS! ^{some}	0	N/A				
	7.5	Light brown v. moist SAND	0	N/A			4'	
	7.5-10.5	Light brown v. moist SAND	0	N/A				
	10.5-11.5	Light brown SAND	0	N/A				
	11.5-12	Light brown SAND	0	N/A	CEIC		4'	
				N/A				
				N/A				

PROJECT: [REDACTED] HOLE NO.: [REDACTED]

BORING/WELL LOG		USACE DISTRICT BALTO./NSA	HOLE NUMBER 14-1					
1. COMPANY NAME EA Engineering		2. DRILL SUBCONTRACTOR GREEN						
3. PROJECT 61625.17 FT. MEADE GOLF COURSE EBS/SI		4. COMPONENT N/A	5. AREA OF INT. 14					
7. NAME OF DRILLER		6. GRID LOC./BASED POINT 640/390						
9. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT MACROCORE BEDPROBE		8. MANUFACTURER'S DESIGNATION OF DRILL Direct Push or HSA						
TYPE OF LINER USED, IF APPLICABLE ACETATE		10. SURFACE ELEVATION AND CONDITIONS						
11. DIRECT READING PARAMETERS: VOC- PID, ppm RAD - Victoreen, uR/hr e		12. DATE STARTED 16 DEC 03	13. DATE COMPLETED 16 DEC 03					
14. OVERBURDEN THICKNESS		15. DEPTH GROUNDWATER ENCOUNTERED Approx 9'						
16. DEPTH DRILLED INTO ROCK N/A		17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED						
18. TOTAL DEPTH OF HOLE 12'		19. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)						
20. WELL INSTALLED? IF SO COMPLETE CONSTRUCTION DIAGRAM YES		SAMPLE TYPE: Grab						
21. SAMPLE INTERVAL AND DESIGNATION FOR LAB ANALYSIS 6.5-8		SAMPLE INTERVAL AND DESIGNATION FOR FIELD SCREENING ANALYSIS N/A						
22. DISPOSITION OF HOLE IF NOT A WELL, BACKFILLED WITH:		23. GEOLOGIST JMS						
SCREENING ANALYSIS PAH PCB VOG TNT N/A								
USCS LOG (a)	DEPTH (FT) (b)	DESCRIPTION OF MATERIALS (c)	DIRECT READING (d)		ANALYTICAL SAMPLE DESIGN. (e)	DEPTH (FT) (f)	RECOVERY (IN) FT (g)	REMARKS
			VOC (ppm)	RAD (uR/hr)				
	0-0.3	Dark brown sandy SILT, moist	0	N/A				
	0.3-1.2	light brown sandy SILT gradings to silty SAND, wet.	0	N/A				
	1.2-4	yellowish brown SAND, little rounded gravel, trace silt.	0	N/A			3'	
	4-5.8	yellowish brown gradings in color to tan mottled with yellowish brown SAND, trace small gravel up to 5mm.	0	N/A				
	5.8-7	light tan sandy GRAVEL, most gravel is sub angular, up to 12mm.	0	N/A				
	7-12	brownish tan SILT, little gravel hard clay mottled with pinkish brown silty SILT - moist. SATURATED AT 9.5'	0	N/A	14-1-6.5-8 @ 1020 1020 @ 7-7.2			
				N/A			4'	
				N/A	lower 12-2500 = 14-1 (water @ 7 measured hrs) @ 1050			
				N/A				

PROJECT: [REDACTED]

HOLE NO.:

BORING/WELL LOG		USACE DISTRICT BALTO./NSA	HOLE NUMBER 14-2
1. COMPANY NAME EA Engineering		2. DRILL SUBCONTRACTOR GREEN	
3. PROJECT 61625-17 FT. MEADE GOLF COURSE EBS/SI		4. COMPONENT N/A	5. AREA OF INT. 14
7. NAME OF DRILLER DON HACKETT		8. MANUFACTURER'S DESIGNATION OF DRILL Direct Push or HSA	
9. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT MACROCORE LOG PROBE		10. SURFACE ELEVATION AND CONDITIONS TALL SCRUB GRASS JUST EAST OF DIRT ROAD	
TYPE OF LINER USED, IF APPLICABLE ACETATE		12. DATE STARTED 19 DEC 03	13. DATE COMPLETED 19 DEC 03
11. DIRECT READING PARAMETERS: VOC- PID, ppm RAD- Victoreen, uR/hr		15. DEPTH GROUNDWATER ENCOUNTERED 0.2'	
14. OVERBURDEN THICKNESS -		17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED -	
16. DEPTH DRILLED INTO ROCK N/A		19. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) -	
18. TOTAL DEPTH OF HOLE 12'		20. WELL INSTALLED? IF SO COMPLETE CONSTRUCTION DIAGRAM NO	
21. SAMPLE INTERVAL AND DESIGNATION FOR LAB ANALYSIS 4-5.5 - 14-1-4-5.5		SAMPLE INTERVAL AND DESIGNATION FOR FIELD SCREENING ANALYSIS N/A	
22. DISPOSITION OF HOLE IF NOT A WELL, BACKFILLED WITH:		23. GEOLOGIST SMS	
SCREENING ANALYSIS PAH- PCB- VOG- TNT N/A			

USCS LOG (a)	DEPTH (FT) (b)	DESCRIPTION OF MATERIALS (c)	DIRECT READING (d)		ANALYTICAL SAMPLE DESIGN. (e)	DEPTH (FT) (f)	RECOVERY (g)	REMARKS
			VOC (ppm)	RAD (uR/hr)				
	0-0.3	dark brown silty SILT						
	0.3-3.5	tan SAND with little silt, to clay.		N/A				
	3.5-4	grayish brown soft moist plastic clay, trace sand		N/A				
	4-6	light brown SAND, coarse.		N/A	4-5.5			
	6-6.2	GRAVEL with some SAND, gravel up to 3.5 cm. - wet		N/A	14-1-4-5.5	6.2		from SIS
	6.2-8	yellowish tan gravel SAND, sand is coarse, gravel is sub rounded up to 1.5 cm.		N/A				
	8-12	Same as above with decreasing amount of gravel w/ depth		N/A				
				N/A				
				N/A				
				N/A				
				N/A				

ATTACHMENT C

SAMPLE CHAIN-OF-CUSTODY RECORDS

GPL LABORATORIES, LLLP

202 Perry Parkway
Gaithersburg, MD 20877
(301) 926-6802
Fax (301) 840-1209

Contract #/Billing Reference

Pgs. of

Project: Ft. Meade		Turnaround Time		CLIENT COMMENTS	
Sample ID#	Date Sampled	Time Sampled	Sample Matrix	Sampler's Initials	Lab Cooler No.
Area 9-2-P-12-11-103	7/15/03	700	Soil	DW	EX-1145's 8770
Area 9-1-12-11		845			TRH-120 8770
Area 7-1-12-15		1015			01 and 1010
7-2-12-10		1145			PCB 8770
2-2-12-16		1330			PCB 8770
5-2-12-12		1415			PCB 8770
3					
Relinquished By: <i>Dennis W. Stagerwald</i>		Date/Time: 7/15/03	Received By: <i>Long Zorn</i>	Date/Time: 7/15/03	Relinquished By: <i>Dennis W. Stagerwald</i>
Relinquished By: _____		Date/Time: _____	Received By: _____	Date/Time: _____	Relinquished By: _____
Relinquished By: _____		Date/Time: _____	Received By: _____	Date/Time: _____	Relinquished By: _____
Lab Comments: _____		Temp: 21.02	Airbill No.: _____		

G.P. W.O. 312153

GPI LABORATORIES, LLLP

202 Perry Parkway
Gaithersburg, MD 20877
(301) 926-6802
Fax (301) 840-1209

Contract #/Billing Reference

of

Pgs.

Project: FT MILDER GOLF COURSE EOS/MSA		Turnaround Time		Lab Cooler No.		CLIENT COMMENTS
Sample ID#	Date Sampled	Time Sampled	Sample Matrix	Sampler's Initials	# of Containers	
Client: EA ENGINEERING	Send Results To: Cooper/Porter or Linda Stajerski		Address: 15 Loxton Circle		1	3 hrs
JAMES M.D. 21152	Phone: 410-771-4950		Preservative Used: 1001/400		402	600
13A-2-6-7.5	16 DEC 03	0810	SOIL	SMS	LOC 8260 TRK	6500 8290
13A-1-35.5		0850			POST/PED 8290	6500 8290
SO-DUPI		1000			CR-1 (Grass)	6500 8290
14-1-65-8		1020			POST/PED 8290	6500 8290
3-1-7.5-9		1115			POST/PED 8290	6500 8290
2-4-7&5		1215			POST/PED 8290	6500 8290
2-5-10.5-12		1315			POST/PED 8290	6500 8290
2-1-0.9-2.2		1430			POST/PED 8290	6500 8290
2-3-6.5-0		1500			POST/PED 8290	6500 8290
Reinquisitioned By: Linda McLaughlin	Date/Time Received By: 10/21/18	Received By: Linda Stajerski	Date/Time Received By: 10/21/18	Received By: Linda Stajerski	Reinquisitioned By: Linda Stajerski	Date/Time Received By: 10/21/18
Reinquisitioned By:	Date/Time Received By:	Received By:	Date/Time Received By:	Received By:	Reinquisitioned By:	Date/Time Received By:
Reinquisitioned By:	Date/Time Received By:	Received By:	Date/Time Received By:	Received By:	Reinquisitioned By:	Date/Time Received By:

G.P. W.O. 312153

Temp: 2.0°C

GPL LABORATORIES, LLLP

202 Perry Parkway
Gaithersburg, MD 20877
(301) 926-6802
Fax (301) 840-1209

Contract #/Billing Reference

1 of 2 Pgs.

Project: Fort Meade		Turnaround Time		Status		Lab Cooler No.		CLIENT COMMENTS	
Sample ID#	Date Sampled	Time Sampled	Sample Matrix	Sampler's Initials	# of Containers	Container Type	Preservative Used	Type of Analysis	CLIENT COMMENTS
6-3-6-Y	12/24/03	0752	SOIL	ALM	1	0.5			
6-2-16-5-18		0900							
6-1-6-8		1005							
4-1-6-8		1150							
1-2-3-5-5.0		1337							
13-DE-21-DPI	12/24/03			ALM					
8-2-6-8	12/25/03	6750		ALM					
8-3-18-20		1000							
8-1-6-Y		1100							
1-3-6-8		1350							
2-6-2-Y		1440							
03-DE-30-DE2	12/24/03		SOIL	ALM					
Relinquished By: <i>Charlie</i>		Date/Time: 12/30/03	Received By: <i>Charlie</i>		Relinquished By:		Received for Laboratory By: <i>Charlie</i>		Date/Time: 12/30/03
Relinquished By:		Date/Time:	Received By:		Date/Time:	Shipper:		Airbill No.:	
Relinquished By:		Date/Time:	Received By:		Lab Comments:		Temp: 3.0		

G.P. W.O. 312203

ATTACHMENT D

LABORATORY RESULTS

SOIL SAMPLE RESULTS

Analyte	MDE Residential	MDE GW Protection	Back-ground	Unit	Sample Name: 03-DE-29-DPI									
					1-1-6-8	1-2-3-5-5.0	1-3-6-8	1-4-6-8	1-5-4-6	2-1-0-9-2.2	2-2-12-16			
					12/30/03	12/29/03	12/30/03	12/22/03	12/22/03	12/22/03	12/16/03	12/15/03		
						1-2-3-5-5.0								
VOC Contd.														
tert-butyl methyl ether	650000	650000	N/A	ug/kg	5.7 U	5.8 U	5.7 U	5.2 U	5.3 U	5.3 U	5.3 U	5.5 U	5.5 U	
Tetrachloroethylene	12000	12000	N/A	ug/kg	5.7 U	5.8 U	5.7 U	5.2 U	5.3 U	5.3 U	5.3 U	5.5 U	5.5 U	
trans-1,2-dichloroethene	160000	160000	N/A	ug/kg	5.7 U	5.8 U	5.7 U	5.2 U	5.3 U	5.3 U	5.3 U	5.5 U	5.5 U	
trans-1,3-dichloropropene	6400	6400	N/A	ug/kg	5.7 U	5.8 U	5.7 U	5.2 U	5.3 U	5.3 U	5.3 U	5.5 U	5.5 U	
Tribromomethane	81000	81000	N/A	ug/kg	5.7 U	5.8 U	5.7 U	5.2 U	5.3 U	5.3 U	5.3 U	5.5 U	5.5 U	
Trichloroethylene	58000	58000	N/A	ug/kg	5.7 U	5.8 U	5.7 U	5.2 U	5.3 U	5.3 U	5.3 U	5.5 U	5.5 U	
Vinyl Chloride	90	90	N/A	ug/kg	11 U	12 U	11 U	10 U	11 U	11 U	11 U	11 U	11 U	
Xylenes, Total	16000000	16000000	N/A	ug/kg	5.7 U	5.8 U	5.7 U	5.2 U	5.3 U	5.3 U	5.3 U	5.5 U	5.5 U	
SVOC														
1,1-Biphenyl	N/A	N/A	N/A	ug/kg	380 U	380 U	380 U	350 U	360 U	360 U	360 U	360 U	360 U	
1,2-Benzophenanthracene	87000	87000	N/A	ug/kg	380 U	380 U	380 U	350 U	360 U	360 U	360 U	360 U	360 U	
2,2-Oxybis(1-Chloropropane)	9100	9100	N/A	ug/kg	380 U	380 U	380 U	350 U	360 U	360 U	360 U	360 U	360 U	
2,4,5-Trichlorophenol	780000	780000	N/A	ug/kg	380 U	380 U	380 U	350 U	360 U	360 U	360 U	360 U	360 U	
2,4,6-Trichlorophenol	58000	58000	N/A	ug/kg	380 U	380 U	380 U	350 U	360 U	360 U	360 U	360 U	360 U	
2,4-Dichlorophenol	23000	23000	N/A	ug/kg	380 U	380 U	380 U	350 U	360 U	360 U	360 U	360 U	360 U	
2,4-Dimethylphenol	160000	160000	N/A	ug/kg	380 U	380 U	380 U	350 U	360 U	360 U	360 U	360 U	360 U	
2,4-Dinitrophenol	16000	16000	N/A	ug/kg	760 U	770 U	770 U	700 U	710 U	710 U	710 U	730 U	730 U	
2,4-Dinitrotoluene	16000	16000	N/A	ug/kg	380 U	380 U	380 U	350 U	360 U	360 U	360 U	360 U	360 U	
2,6-Dinitrotoluene	7800	7800	N/A	ug/kg	380 U	380 U	380 U	350 U	360 U	360 U	360 U	360 U	360 U	
2-Chloronaphthalene	630000	630000	N/A	ug/kg	380 U	380 U	380 U	350 U	360 U	360 U	360 U	360 U	360 U	
2-Chlorophenol	39000	39000	N/A	ug/kg	380 U	380 U	380 U	350 U	360 U	360 U	360 U	360 U	360 U	
2-Methylnaphthalene	160000	160000	N/A	ug/kg	380 U	380 U	380 U	350 U	360 U	360 U	360 U	360 U	360 U	
2-Methylphenol	390000	390000	N/A	ug/kg	380 U	380 U	380 U	350 U	360 U	360 U	360 U	360 U	360 U	
2-Nitroaniline	N/A	N/A	N/A	ug/kg	380 U	380 U	380 U	350 U	360 U	360 U	360 U	360 U	360 U	
2-Nitrophenol	63000	63000	N/A	ug/kg	380 U	380 U	380 U	350 U	360 U	360 U	360 U	360 U	360 U	
3,3'-Dichlorobenzidine	1400	1400	N/A	ug/kg	760 U	770 U	770 U	700 U	710 U	710 U	710 U	730 U	730 U	
3,5,5-Trimethyl-2-cyclohexene-1-one	670000	670000	N/A	ug/kg	380 U	380 U	380 U	350 U	360 U	360 U	360 U	360 U	360 U	
3-Nitroaniline	N/A	N/A	N/A	ug/kg	380 U	380 U	380 U	350 U	360 U	360 U	360 U	360 U	360 U	
4,6-Dinitro-2-methyl phenol	780	780	N/A	ug/kg	760 U	770 U	770 U	700 U	710 U	710 U	710 U	730 U	730 U	
4-Bromophenyl Phenyl Ether	N/A	N/A	N/A	ug/kg	380 U	380 U	380 U	350 U	360 U	360 U	360 U	360 U	360 U	
4-Chloro-3-methylphenol	N/A	N/A	N/A	ug/kg	380 U	380 U	380 U	350 U	360 U	360 U	360 U	360 U	360 U	
4-Chlorophenyl Phenyl Ether	N/A	N/A	N/A	ug/kg	380 U	380 U	380 U	350 U	360 U	360 U	360 U	360 U	360 U	
4-Methylphenol	39000	39000	N/A	ug/kg	380 U	380 U	380 U	350 U	360 U	360 U	360 U	360 U	360 U	
4-Nitrophenol	63000	63000	N/A	ug/kg	760 U	770 U	770 U	700 U	710 U	710 U	710 U	730 U	730 U	
Acenaphthene	470000	470000	N/A	ug/kg	380 U	380 U	380 U	350 U	360 U	360 U	360 U	360 U	360 U	
Acenaphthylene	470000	470000	N/A	ug/kg	380 U	380 U	380 U	350 U	360 U	360 U	360 U	360 U	360 U	
Acetophenone	N/A	N/A	N/A	ug/kg	380 U	380 U	380 U	350 U	360 U	360 U	360 U	360 U	360 U	
Anthracene	2300000	2300000	N/A	ug/kg	380 U	380 U	380 U	350 U	360 U	360 U	360 U	360 U	360 U	
Atrazine	2900	2900	N/A	ug/kg	380 U	380 U	380 U	350 U	360 U	360 U	360 U	360 U	360 U	
Benzaldehyde	N/A	N/A	N/A	ug/kg	380 U	380 U	380 U	350 U	360 U	360 U	360 U	360 U	360 U	

SOIL SAMPLE RESULTS

Analyte	MDE Residential		MDE GW Protection		Back-ground	Unit	Sample Name:		Sample Date:		Parent Name:	
	MDE Residential	MDE GW Protection	MDE Residential	MDE GW Protection			1-1-6-8	1-2-3-5-5.0	03-DE-29-DPI	1-3-6-8	1-4-6-8	1-5-4-6
Herb Contd.												
4-Amino-3,5,6-trichloropicolinic acid	N/A	N/A	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA
4-Nitrophenol	63000	63000	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA
Dicamba	N/A	N/A	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA
Dichlorprop	N/A	N/A	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA
Dinitrobutyl Phenol	N/A	N/A	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA
MCPA	N/A	N/A	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA
MCPP	N/A	N/A	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA
Pentachlorophenol	5300	5300	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA
Pesticides/PCB												
4,4-DDD	2700	2700	N/A	N/A	N/A	ug/kg	1.9 U	1.9 U	1.9 U	1.7 U	1.8 U	24 P
4,4-DDE	1900	1900	N/A	N/A	N/A	ug/kg	1.9 U	1.9 U	1.9 U	1.7 U	1.8 U	24
4,4-DDT	1900	1900	N/A	N/A	N/A	ug/kg	1.9 U	1.9 U	1.9 U	1.7 U	1.8 U	26 *P
Aldrin	38	38	N/A	N/A	N/A	ug/kg	1.9 U	1.9 U	1.9 U	1.7 U	1.8 U	1.8 U
alpha-BHC	100	100	N/A	N/A	N/A	ug/kg	1.9 U	1.9 U	1.9 U	1.7 U	1.8 U	1.8 U
alpha-Chlordane	1800	1800	N/A	N/A	N/A	ug/kg	1.9 U	1.9 U	1.9 U	1.7 U	1.8 U	4.7 P
beta-BHC	350	350	N/A	N/A	N/A	ug/kg	1.9 U	1.9 U	1.9 U	1.7 U	1.8 U	1.8 U
Camphechlor	580	580	N/A	N/A	N/A	ug/kg	38 U	38 U	38 U	35 U	36 U	36 U
Chlordane	N/A	N/A	N/A	N/A	N/A	ug/kg	38 U	38 U	38 U	35 U	36 U	36 U
delta-BHC	490	490	N/A	N/A	N/A	ug/kg	1.9 U	1.9 U	1.9 U	1.7 U	1.8 U	1.8 U
Dieldrin	40	40	N/A	N/A	N/A	ug/kg	1.9 U	1.9 U	1.9 U	1.7 U	1.8 U	1.8 U
Endosulfan I	47000	47000	N/A	N/A	N/A	ug/kg	1.9 U	1.9 U	1.9 U	1.7 U	1.8 U	1.8 U
Endosulfan II	47000	47000	N/A	N/A	N/A	ug/kg	1.9 U	1.9 U	1.9 U	1.7 U	1.8 U	1.8 U
Endosulfan Sulfate	47000	47000	N/A	N/A	N/A	ug/kg	1.9 U	1.9 U	1.9 U	1.7 U	1.8 U	1.8 U
Endrin	2300	2300	N/A	N/A	N/A	ug/kg	1.9 U	1.9 U	1.9 U	1.7 U	1.8 U	1.8 U
Endrin Aldehyde	2300	2300	N/A	N/A	N/A	ug/kg	1.9 U	1.9 U	1.9 U	1.7 U	1.8 U	1.8 U
Endrin Ketone	2300	2300	N/A	N/A	N/A	ug/kg	1.9 U	1.9 U	1.9 U	1.7 U	1.8 U	1.8 U
gamma-BHC	490	490	N/A	N/A	N/A	ug/kg	1.9 U	1.9 U	1.9 U	1.7 U	1.8 U	1.8 U
gamma-Chlordane	1800	1800	N/A	N/A	N/A	ug/kg	1.9 U	1.9 U	1.9 U	1.7 U	1.8 U	5 P
Heptachlor	140	140	N/A	N/A	N/A	ug/kg	1.9 U	1.9 U	1.9 U	1.7 U	1.8 U	1.8 U
Heptachlor Epoxide	70	70	N/A	N/A	N/A	ug/kg	1.9 U	1.9 U	1.9 U	1.7 U	1.8 U	1.8 U
Methoxychlor	39000	39000	N/A	N/A	N/A	ug/kg	1.9 U	1.9 U	1.9 U	1.7 U	1.8 U	1.8 U
PCB-1016	550	550	N/A	N/A	N/A	ug/kg	38 U	38 U	38 U	35 U	36 U	36 U
PCB-1221	320	320	N/A	N/A	N/A	ug/kg	38 U	38 U	38 U	35 U	36 U	36 U
PCB-1232	320	320	N/A	N/A	N/A	ug/kg	38 U	38 U	38 U	35 U	36 U	36 U
PCB-1242	320	320	N/A	N/A	N/A	ug/kg	38 U	38 U	38 U	35 U	36 U	36 U
PCB-1248	320	320	N/A	N/A	N/A	ug/kg	38 U	38 U	38 U	35 U	36 U	36 U
PCB-1254	320	320	N/A	N/A	N/A	ug/kg	38 U	38 U	38 U	35 U	36 U	36 U
PCB-1260	320	320	N/A	N/A	N/A	ug/kg	38 U	38 U	38 U	35 U	36 U	36 U
Explosives												
1,3,5-Trinitrobenzene	N/A	N/A	N/A	N/A	N/A	ug/kg	100 U	100 U	100 U	100 U	100 U	100 U

SOIL SAMPLE RESULTS

Analyte	MDE Residential	MDE GW Protection	Back-ground	Unit	Sample Name:		Sample Date:		Parent Name:		Sample Date:		Sample Name:	
					1-1-6-8	1-2-3-5-5.0	03-DE-29-DP1	1-3-6-8	1-4-6-8	1-5-4-6	2-1-0-9-2.2	2-2-12-16		
Exp Contd.														
2,4,6-Trinitrotoluene	N/A	N/A	N/A	ug/kg	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
2,4-Dinitrotoluene	16000	16000	N/A	ug/kg	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
2,6-Dinitrotoluene	7800	7800	N/A	ug/kg	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
2-Amino-4,6-dinitrotoluene	N/A	N/A	N/A	ug/kg	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
2-Nitrotoluene	N/A	N/A	N/A	ug/kg	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
3-Nitrotoluene	N/A	N/A	N/A	ug/kg	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
4-Amino-2,6-Dinitrotoluene	N/A	N/A	N/A	ug/kg	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
4-Nitrotoluene	N/A	N/A	N/A	ug/kg	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
HMX	N/A	N/A	N/A	ug/kg	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
m-Dinitrobenzene	N/A	N/A	N/A	ug/kg	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Nitrobenzene	3900	3900	N/A	ug/kg	100 U	100 U	100 U	100 U	100 U	33 J	100 U	100 U	100 U	100 U
RDX	N/A	N/A	N/A	ug/kg	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	91 J
Tetryl	N/A	N/A	N/A	ug/kg	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Metals														
Aluminum	7800	7800	11000	mg/kg	3380 N	2500 N	2450 N	5950 N	5400	995	1200	1200	1080	
Antimony	12	12	N/A	mg/kg	0.61 BN	0.31 BN	0.32 BN	0.32 BN	0.24 B	0.25 U	0.2 UN	0.2 UN	0.25 UN	
Arsenic	2	2	3.6	mg/kg	5.4	1.2 B	1.8	1.6 B	3.4	1.6 B	1.4	1.4	2.4	
Barium	550	550	N/A	mg/kg	10.3	13.6	14.6	25.8	14.7	5.7	6.1	6.1	4.2	
Beryllium	16	16	N/A	mg/kg	0.05 B	0.0094 U	0.02 B	0.09 B	0.17	0.04 B	0.07 B	0.07 B	0.05 B	
Cadmium	3.9	3.9	N/A	mg/kg	0.05 U	0.02 U	0.02 U	0.02 U	0.09 B	0.03 B	0.05 B	0.05 B	0.01 U	
Calcium	N/A	N/A	N/A	mg/kg	40.4 B	78.1 B	104	256	209	156	99.1	99.1	22.7 B	
Chromium	23	23	28	mg/kg	19.9	5.5	8	10.2	16.7 E	3.4 E	4.1	4.1	5.4	
Cobalt	160	160	N/A	mg/kg	0.21 B	0.26 B	0.83	0.87	1.4	0.57	0.57	0.57	0.06 U	
Copper	310	310	N/A	mg/kg	8.4	4.4	4.9	3.7	6.9	1.8	4.1	4.1	4.2	
Iron	2300	2300	15000	mg/kg	19300 N	2580 N	4000 N	4350 N	7860	1760	2940	2940	3700	
Lead	400	400	N/A	mg/kg	3.7	2.4	2.7	5.5	3.1	1.6	5.6	5.6	1.2	
Magnesium	N/A	N/A	N/A	mg/kg	128	106	130	327	352	66.7	85.1	85.1	22.3	
Manganese	160	160	480	mg/kg	7.6	5.4	21.2	16.9	27.8	18.1	12.3	12.3	2.1	
Mercury	0.1	0.1	0.51	mg/kg	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 B	0.05	0.05	0.01 U	
Nickel	160	160	N/A	mg/kg	0.57 B	0.53 B	0.81 B	1.8	2.7	0.2 B	0.79	0.79	0.08 U	
Potassium	N/A	N/A	N/A	mg/kg	331 N	461 N	296 N	560 N	243	75.4	74.5 N	74.5 N	153 N	
Selenium	39	39	N/A	mg/kg	0.25 B	0.26 U	0.25 U	0.24 U	0.25 U	0.27 U	0.22 B	0.22 B	0.27 U	
Silver	39	39	N/A	mg/kg	0.04 U	0.04 U	0.04 U	0.04 U	0.05 U	0.05 U	0.04 U	0.04 U	0.05 U	
Sodium	N/A	N/A	N/A	mg/kg	59 B	90.1 B	81.1 B	63.7 B	61.9 B	55.7 B	47.9 B	47.9 B	54.7 B	
Thallium	2	2	3.8	mg/kg	0.63 B	0.38 U	0.37 U	0.35 U	0.39 U	0.42 U	0.33 U	0.33 U	0.42 U	
Vanadium	55	55	N/A	mg/kg	37.3	8.3	15.1	13.2	14.5	6.8	5.6	5.6	7	
Zinc	2300	2300	N/A	mg/kg	5.3	2.3	7.3	15.3	8.9	2.1	9.9	9.9	1.2 B	
General Chemistry														
Oil & Grease, Total Recovered	N/A	N/A	N/A	mg/kg	5.6 U	5.7 U	5.6 U	5.5 U	5.1 U	5.2 U	5.2 U	5.2 U	5.4 U	
Percent Solids	N/A	N/A	N/A	%	88	87	87	87	96	94	94	94	92	

SOIL SAMPLE RESULTS

Analyte	MDE Residential	MDE GW Protection	Back-ground	Sample Name:		Sample Date:		Parent Name:		Unit	
				1-1-6-8	1-2-3-5-5.0	03-DE-29-DPI	1-3-6-8	1-4-6-8	1-5-4-6		2-1-0-9-2.2
Gen Chem Contd.				12/30/03	12/29/03	12/29/03	12/30/03	12/22/03	12/22/03	12/16/03	12/15/03
TPH	N/A	N/A	N/A	5.6 U	5.7 U	5.6 U	5.5 U	5.1 U	5.2 U	5.2 U	5.4 U
TPH-DRO	230	230	N/A	8.2	7	5.7	5.5	3.4	8.6	14	4.6
TPH-GRO	230000	230000	N/A	110 U	120 U	120 U	120 U	100 U	110 U	110 U	110 U

SOIL SAMPLE RESULTS

Analyte	MDE Residential	MDE GW Protection	Back-ground	Sample Name: 2-3-6-5-8							Unit
				2-4-7-8-5	2-5-10-5-12	2-6-2-4	03-DE-30-DP2	3-1-7-5-9	4-1-6-8	5-1-0-0.5	
				12/16/03	12/16/03	12/30/03	12/30/03	12/30/03	12/16/03	12/29/03	12/18/03
				Parent Name: 2-6-2-4							
YOC											
1,1,1-Trichloroethane	220000	220000	N/A	5.5 U	5.7 U	5.2 U	2.2 J	1.8 J	5.7 U	5.2 U	6 U
1,1,2,2-Tetrachloroethane	3200	3200	N/A	5.5 U	5.7 U	5.2 U	5.8 U	5.9 U	5.7 U	5.2 U	6 U
1,1,2-Trichloroethane	11000	11000	N/A	5.5 U	5.7 U	5.2 U	5.8 U	5.9 U	5.7 U	5.2 U	6 U
1,1-Dichloroethane	780000	780000	N/A	5.5 U	5.7 U	5.2 U	5.8 U	5.9 U	5.7 U	5.2 U	6 U
1,1-Dichloroethylene	1100	1100	N/A	5.5 U	5.7 U	5.2 U	5.8 U	5.9 U	5.7 U	5.2 U	6 U
1,2,4-Trichlorobenzene	78000	78000	N/A	5.5 U	5.7 U	5.2 U	5.8 U	5.9 U	5.7 U	5.2 U	6 U
1,2-Dibromo-3-chloropropane	460	460	N/A	5.5 U	5.7 U	5.2 U	5.8 U	5.9 U	5.7 U	5.2 U	6 U
1,2-Dichlorobenzene	700000	700000	N/A	5.5 U	5.7 U	5.2 U	5.8 U	5.9 U	5.7 U	5.2 U	6 U
1,2-Dichloroethane	7000	7000	N/A	5.5 U	5.7 U	5.2 U	5.8 U	5.9 U	5.7 U	5.2 U	6 U
1,2-Dichloropropane	9400	9400	N/A	5.5 U	5.7 U	5.2 U	5.8 U	5.9 U	5.7 U	5.2 U	6 U
1,4-Dichlorobenzene	27000	27000	N/A	5.5 U	5.7 U	5.2 U	5.8 U	5.9 U	5.7 U	5.2 U	6 U
2-Butanone	4700000	4700000	N/A	11 U	11 U	10 U	12 U	12 U	11 U	10 U	12 U
4-Methyl-2-Pentanone	630000	630000	N/A	11 U	11 U	10 U	12 U	12 U	11 U	10 U	12 U
Acetone	N/A	N/A	N/A	11 U	8.6 J	10 U	12 U	12 U	11 U	10 U	6.4 J
Benzene	12000	12000	N/A	5.5 U	5.7 U	5.2 U	5.8 U	5.9 U	5.7 U	5.2 U	6 U
Bromodichloromethane	10000	10000	N/A	5.5 U	5.7 U	5.2 U	5.8 U	5.9 U	5.7 U	5.2 U	6 U
Bromomethane	11000	11000	N/A	11 U	11 U	10 U	12 U	12 U	11 U	10 U	12 U
Carbon Disulfide	780000	780000	N/A	5.5 U	5.7 U	5.2 U	5.8 U	5.9 U	5.7 U	5.2 U	6 U
Carbon Tetrachloride	4900	4900	N/A	5.5 U	5.7 U	5.2 U	5.8 U	5.9 U	5.7 U	5.2 U	6 U
CFC-11	N/A	N/A	N/A	5.5 U	5.7 U	5.2 U	5.8 U	5.9 U	5.7 U	5.2 U	6 U
CFC-12	N/A	N/A	N/A	5.5 U	5.7 U	5.2 U	5.8 U	5.9 U	5.7 U	5.2 U	6 U
Chlorobenzene	160000	160000	N/A	5.5 U	5.7 U	5.2 U	5.8 U	5.9 U	5.7 U	5.2 U	6 U
Chlorodibromomethane	7600	7600	N/A	5.5 U	5.7 U	5.2 U	5.8 U	5.9 U	5.7 U	5.2 U	6 U
Chloroethane	220000	220000	N/A	11 U	11 U	10 U	12 U	12 U	11 U	10 U	12 U
Chloroform	100000	100000	N/A	5.5 U	5.7 U	5.2 U	5.8 U	5.9 U	5.7 U	5.2 U	6 U
Chloromethane	49000	49000	N/A	11 U	11 U	10 U	12 U	12 U	11 U	10 U	12 U
cis-1,2-Dichloroethene	78000	78000	N/A	5.5 U	5.7 U	5.2 U	5.8 U	5.9 U	5.7 U	5.2 U	6 U
cis-1,3-Dichloropropene	6400	6400	N/A	5.5 U	5.7 U	5.2 U	5.8 U	5.9 U	5.7 U	5.2 U	6 U
Cyclohexane	N/A	N/A	N/A	5.5 U	5.7 U	5.2 U	5.8 U	5.9 U	5.7 U	5.2 U	6 U
Methylene Chloride	85000	85000	N/A	3.9 JB	8.7 JB	2.7 JB	12 B	10 JB	4.4 JB	18 B	25 B
Ethylbenzene	780000	780000	N/A	5.5 U	5.7 U	5.2 U	5.8 U	5.9 U	5.7 U	5.2 U	6 U
Ethylene Dibromide	7.5	7.5	N/A	5.5 U	5.7 U	5.2 U	5.8 U	5.9 U	5.7 U	5.2 U	6 U
Freon 113	N/A	N/A	N/A	5.5 U	5.7 U	5.2 U	5.8 U	5.9 U	5.7 U	5.2 U	6 U
Isopropylbenzene	780000	780000	N/A	5.5 U	5.7 U	5.2 U	5.8 U	5.9 U	5.7 U	5.2 U	6 U
m-Dichlorobenzene	230000	230000	N/A	5.5 U	5.7 U	5.2 U	5.8 U	5.9 U	5.7 U	5.2 U	6 U
Methyl Acetate	N/A	N/A	N/A	5.5 U	5.7 U	5.2 U	5.8 U	5.9 U	5.7 U	5.2 U	6 U
Methyl n-Butyl Ketone	310000	310000	N/A	11 U	11 U	10 U	12 U	12 U	11 U	10 U	12 U
Methylbenzene	1600000	1600000	N/A	5.5 U	5.7 U	5.2 U	5.8 U	5.9 U	5.7 U	5.2 U	6 U
Methylcyclohexane	N/A	N/A	N/A	5.5 U	5.7 U	5.2 U	5.8 U	5.9 U	5.7 U	5.2 U	6 U
Styrene	1600000	1600000	N/A	5.5 U	5.7 U	5.2 U	5.8 U	5.9 U	5.7 U	5.2 U	6 U

SOIL SAMPLE RESULTS

Analyte	MDE Residential	MDE GW Protection	Back-ground	Sample Name:		2-3-6-5-8 12/16/03	2-4-7-8-5 12/16/03	2-5-10-5-12 12/16/03	2-6-2-4 12/30/03	03-DE-30-DP2 12/30/03	3-1-7-5-9 12/16/03	4-1-6-8 12/29/03	5-1-0-0.5 12/18/03
				Parent Name:	Unit								
VOC Contd.													
tert-butyl methyl ether	650000	650000	N/A	5.5 U	5.7 U	5.2 U	5.8 U	5.9 U	5.7 U	5.2 U	5.2 U	6 U	
Tetrachloroethylene	12000	12000	N/A	5.5 U	5.7 U	5.2 U	5.8 U	5.9 U	5.7 U	5.2 U	5.2 U	6 U	
trans-1,2-dichloroethene	160000	160000	N/A	5.5 U	5.7 U	5.2 U	5.8 U	5.9 U	5.7 U	5.2 U	5.2 U	6 U	
trans-1,3-dichloropropene	6400	6400	N/A	5.5 U	5.7 U	5.2 U	5.8 U	5.9 U	5.7 U	5.2 U	5.2 U	6 U	
Tribromomethane	81000	81000	N/A	5.5 U	5.7 U	5.2 U	5.8 U	5.9 U	5.7 U	5.2 U	5.2 U	6 U	
Trichloroethylene	58000	58000	N/A	5.5 U	5.7 U	5.2 U	5.8 U	5.9 U	5.7 U	5.2 U	5.2 U	6 U	
Vinyl Chloride	90	90	N/A	11 U	11 U	10 U	12 U	12 U	11 U	10 U	10 U	12 U	
Xylenes, Total	16000000	16000000	N/A	5.5 U	5.7 U	5.2 U	5.8 U	5.9 U	5.7 U	5.2 U	5.2 U	6 U	
SVOC													
1,1-Biphenyl	N/A	N/A	N/A	370 U	380 U	350 U	390 U	400 U	380 U	350 U	350 U	400 U	
1,2-Benzophenanthracene	87000	87000	N/A	370 U	380 U	350 U	52 J	400 U	380 U	350 U	350 U	100 J	
2,2-Oxybis(1-Chloropropane)	9100	9100	N/A	370 U	380 U	350 U	390 U	400 U	380 U	350 U	350 U	400 U	
2,4,5-Trichlorophenol	780000	780000	N/A	370 U	380 U	350 U	390 U	400 U	380 U	350 U	350 U	400 U	
2,4,6-Trichlorophenol	58000	58000	N/A	370 U	380 U	350 U	390 U	400 U	380 U	350 U	350 U	400 U	
2,4-Dichlorophenol	23000	23000	N/A	370 U	380 U	350 U	390 U	400 U	380 U	350 U	350 U	400 U	
2,4-Dimethylphenol	160000	160000	N/A	370 U	380 U	350 U	390 U	400 U	380 U	350 U	350 U	400 U	
2,4-Dinitrophenol	16000	16000	N/A	730 U	760 U	700 U	770 U	790 U	760 U	700 U	700 U	810 U	
2,4-Dinitrotoluene	16000	16000	N/A	370 U	380 U	350 U	390 U	400 U	380 U	350 U	350 U	400 U	
2,6-Dinitrotoluene	7800	7800	N/A	370 U	380 U	350 U	390 U	400 U	380 U	350 U	350 U	400 U	
2-Chloronaphthalene	630000	630000	N/A	370 U	380 U	350 U	390 U	400 U	380 U	350 U	350 U	400 U	
2-Chlorophenol	39000	39000	N/A	370 U	380 U	350 U	390 U	400 U	380 U	350 U	350 U	400 U	
2-Methylnaphthalene	160000	160000	N/A	370 U	380 U	350 U	46 J	61 J	380 U	350 U	350 U	49 J	
2-Methylphenol	390000	390000	N/A	370 U	380 U	350 U	390 U	400 U	380 U	350 U	350 U	400 U	
2-Nitroaniline	N/A	N/A	N/A	370 U	380 U	350 U	390 U	400 U	380 U	350 U	350 U	400 U	
2-Nitrophenol	63000	63000	N/A	370 U	380 U	350 U	390 U	400 U	380 U	350 U	350 U	400 U	
3,3'-Dichlorobenzidine	1400	1400	N/A	730 U	760 U	700 U	770 U	790 U	760 U	700 U	700 U	810 U	
3,5,5-Trimethyl-2-cyclohexene-1-one	670000	670000	N/A	370 U	380 U	350 U	390 U	400 U	380 U	350 U	350 U	400 U	
3-Nitroaniline	N/A	N/A	N/A	370 U	380 U	350 U	390 U	400 U	380 U	350 U	350 U	400 U	
4,6-Dinitro-2-methylphenol	780	780	N/A	730 U	760 U	700 U	770 U	790 U	760 U	700 U	700 U	810 U	
4-Bromophenyl Phenyl Ether	N/A	N/A	N/A	370 U	380 U	350 U	390 U	400 U	380 U	350 U	350 U	400 U	
4-Chloro-3-methylphenol	N/A	N/A	N/A	370 U	380 U	350 U	390 U	400 U	380 U	350 U	350 U	400 U	
4-Chlorophenyl Phenyl Ether	N/A	N/A	N/A	370 U	380 U	350 U	390 U	400 U	380 U	350 U	350 U	400 U	
4-Methylphenol	39000	39000	N/A	370 U	380 U	350 U	390 U	400 U	380 U	350 U	350 U	400 U	
4-Nitrophenol	63000	63000	N/A	730 U	760 U	700 U	770 U	790 U	760 U	700 U	700 U	810 U	
Acenaphthene	470000	470000	N/A	370 U	380 U	350 U	390 U	400 U	380 U	350 U	350 U	400 U	
Acenaphthylene	470000	470000	N/A	370 U	380 U	350 U	390 U	400 U	380 U	350 U	350 U	400 U	
Acetophenone	N/A	N/A	N/A	370 U	380 U	350 U	390 U	400 U	380 U	350 U	350 U	400 U	
Anthracene	2300000	2300000	N/A	370 U	380 U	350 U	390 U	400 U	380 U	350 U	350 U	400 U	
Arazine	2900	2900	N/A	370 U	380 U	350 U	390 U	400 U	380 U	350 U	350 U	400 U	
Benzaldehyde	N/A	N/A	N/A	370 U	380 U	14000	390 U	400 U	380 U	350 U	350 U	400 U	

SOIL SAMPLE RESULTS

Analyte	MDE Residential	MDE GW Protection	Back-ground	Parent Name:	Sample Name:	2-3-6-5-8	2-4-7-8-5	2-5-10-5-12	2-6-2-4	03-DE-30-DP2	3-1-7-5-9	4-1-6-8	5-1-0-0.5
			Unit			12/16/03	12/16/03	12/16/03	12/30/03	12/30/03	12/16/03	12/29/03	12/18/03
Herb Contd.													
4-Amino-3,5,6-trichloropicolinic acid	N/A	N/A	N/A	ug/kg		110 U	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	63000	63000	N/A	ug/kg		110 U	NA	NA	NA	NA	NA	NA	NA
Dicamba	N/A	N/A	N/A	ug/kg		110 U	NA	NA	NA	NA	NA	NA	NA
Dichlorprop	N/A	N/A	N/A	ug/kg		110 U	NA	NA	NA	NA	NA	NA	NA
Dinitrobutyl Phenol	N/A	N/A	N/A	ug/kg		110 U	NA	NA	NA	NA	NA	NA	NA
MCPA	N/A	N/A	N/A	ug/kg		11000 U	NA	NA	NA	NA	NA	NA	NA
MCPP	N/A	N/A	N/A	ug/kg		11000 U	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	5300	5300	N/A	ug/kg		110 U	NA	NA	NA	NA	NA	NA	NA
Pesticides/PCB													
4,4-DDD	2700	2700	N/A	ug/kg		1.8 U	16	0.33 J	1.9 U	0.7 JP	1.9 U	1.7 U	7.6 J
4,4-DDE	1900	1900	N/A	ug/kg		1.8 U	8.9	0.32 J	1.9 U	2.4	1.9 U	1.7 U	20 U
4,4-DDT	1900	1900	N/A	ug/kg		1.8 U	2.5 *	0.35 J*P	1.9 U	2.4 P	1.9 U	1.7 U	93
Aldrin	38	38	N/A	ug/kg		1.8 U	1.9 U	1.7 U	1.9 U	2 U	1.9 U	1.7 U	20 U
alpha-BHC	100	100	N/A	ug/kg		1.8 U	1.9 U	1.7 U	1.9 U	2 U	1.9 U	1.7 U	20 U
alpha-Chlordane	1800	1800	N/A	ug/kg		3.9	1.9 U	1.7 U	1.9 U	2 U	1.9 U	1.7 U	200
beta-BHC	350	350	N/A	ug/kg		1.8 U	1.9 U	1.7 U	1.9 U	2 U	1.9 U	1.7 U	20 U
Campechlor	580	580	N/A	ug/kg		37 U	38 U	35 U	39 U	40 U	38 U	35 U	400 U
Chlordane	N/A	N/A	N/A	ug/kg		37 U	38 U	35 U	39 U	40 U	38 U	35 U	400 U
delta-BHC	490	490	N/A	ug/kg		1.8 U	1.9 U	1.7 U	1.9 U	2 U	1.9 U	1.7 U	20 U
Dieldrin	40	40	N/A	ug/kg		1.8 U	1.9 U	1.7 U	1.9 U	2 U	1.9 U	1.7 U	20 U
Endosulfan I	47000	47000	N/A	ug/kg		1.8 U	1.9 U	1.7 U	1.9 U	2 U	1.9 U	1.7 U	20 U
Endosulfan II	47000	47000	N/A	ug/kg		1.8 U	1.9 U	1.7 U	1.9 U	2 U	1.9 U	1.7 U	20 U
Endosulfan Sulfate	47000	47000	N/A	ug/kg		1.8 U	1.9 U	1.7 U	1.9 U	2 U	1.9 U	1.7 U	20 U
Endrin	2300	2300	N/A	ug/kg		1.8 U	1.9 U	1.7 U	1.9 U	2 U	1.9 U	1.7 U	20 U
Endrin Aldelyde	2300	2300	N/A	ug/kg		1.8 U	1.9 U	1.7 U	1.9 U	2 U	1.9 U	1.7 U	20 U
Endrin Ketone	2300	2300	N/A	ug/kg		1.8 U	1.9 U	1.7 U	1.9 U	2 U	1.9 U	1.7 U	20 U
gamma-BHC	490	490	N/A	ug/kg		1.8 U	1.9 U	1.7 U	1.9 U	2 U	1.9 U	1.7 U	20 U
gamma-Chlordane	1800	1800	N/A	ug/kg		3.1	1.9 U	1.7 U	1.9 U	2 U	1.9 U	1.7 U	220
Heptachlor	140	140	N/A	ug/kg		1.8 U	1.9 U	1.7 U	1.9 U	2 U	1.9 U	1.7 U	4.7 J
Heptachlor Epoxide	70	70	N/A	ug/kg		0.61 J	1.9 U	1.7 U	1.9 U	2 U	1.9 U	1.7 U	20 U
Methoxychlor	39000	39000	N/A	ug/kg		1.8 U	1.9 U	1.7 U	1.9 U	2 U	1.9 U	1.7 U	20 U
PCB-1016	550	550	N/A	ug/kg		37 U	38 U	35 U	39 U	40 U	38 U	35 U	40 U
PCB-1221	320	320	N/A	ug/kg		37 U	38 U	35 U	39 U	40 U	38 U	35 U	40 U
PCB-1232	320	320	N/A	ug/kg		37 U	38 U	35 U	39 U	40 U	38 U	35 U	40 U
PCB-1242	320	320	N/A	ug/kg		37 U	38 U	35 U	39 U	40 U	38 U	35 U	40 U
PCB-1248	320	320	N/A	ug/kg		37 U	38 U	35 U	39 U	40 U	38 U	35 U	40 U
PCB-1254	320	320	N/A	ug/kg		37 U	38 U	35 U	39 U	40 U	38 U	35 U	40 U
PCB-1260	320	320	N/A	ug/kg		37 U	38 U	35 U	39 U	40 U	38 U	35 U	40 U
Explosives													
1,3,5-Trinitrobenzene	N/A	N/A	N/A	ug/kg		100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U

SOIL SAMPLE RESULTS

Analyte	MDE Residential	MDE GW Protection	Back-ground	Sample Name:	2-3-6,5-8	2-4-7-8,5	2-5-10,5-12	2-6-2-4	03-DE-30-DP2	3-1-7,5-9	4-1-6-8	5-1-0,0.5
				Sample Date:	12/16/03	12/16/03	12/16/03	12/30/03	12/30/03	12/16/03	12/29/03	12/18/03
				Parent Name:					2-6-2-4			
				Unit								
Gen Chem Contd.												
TPH	N/A	N/A	N/A	mg/kg	5.4 U	5.6 U	5.2 U	5.6 U	5.8 U	5.7 U	5 U	91
TPH-DRO	230	230	N/A	mg/kg	8.4	86	12	10	14	4.5	5.6	1200
TPH-GRO	230000	230000	N/A	ug/kg	110 U	110 U	100 U	120 U	120 U	120 U	100 U	120 U

SOIL SAMPLE RESULTS

Analyte	MDE Residential	MDE GW Protection	Back-ground	Unit	Sample Name:		Sample Date:		Parent Name:		Sample Date:	
					6-1-6-8	12/29/03	6-3-6-8	12/29/03	7-1-12-15	12/15/03	7-2-8-10	12/15/03
VOC												
1,1,1-Trichloroethane	2200000	2200000	N/A	ug/kg								
1,1,2,2-Tetrachloroethane	3200	3200	N/A	ug/kg	5.3 U	2.2 J	5.6 U	5.2 U	5.3 U	5.3 U	5.3 U	5.3 U
1,1,2-Trichloroethane	11000	11000	N/A	ug/kg	5.3 U	5.3 U	5.6 U	5.2 U	5.3 U	5.3 U	5.3 U	5.3 U
1,1-Dichloroethane	780000	780000	N/A	ug/kg	5.3 U	5.3 U	5.6 U	5.2 U	5.3 U	5.3 U	5.3 U	5.3 U
1,1-Dichloroethylene	1100	1100	N/A	ug/kg	5.3 U	5.3 U	5.6 U	5.2 U	5.3 U	5.3 U	5.3 U	5.3 U
1,2,4-Trichlorobenzene	78000	78000	N/A	ug/kg	5.3 U	5.3 U	5.6 U	5.2 U	5.3 U	5.3 U	5.3 U	5.3 U
1,2-Dibromo-3-chloropropane	460	460	N/A	ug/kg	5.3 U	5.3 U	5.6 U	5.2 U	5.3 U	5.3 U	5.3 U	5.3 U
1,2-Dichlorobenzene	700000	700000	N/A	ug/kg	5.3 U	5.3 U	5.6 U	5.2 U	5.3 U	5.3 U	5.3 U	5.3 U
1,2-Dichloroethane	7000	7000	N/A	ug/kg	5.3 U	5.3 U	5.6 U	5.2 U	5.3 U	5.3 U	5.3 U	5.3 U
1,2-Dichloropropane	9400	9400	N/A	ug/kg	5.3 U	5.3 U	5.6 U	5.2 U	5.3 U	5.3 U	5.3 U	5.3 U
1,4-Dichlorobenzene	27000	27000	N/A	ug/kg	5.3 U	5.3 U	5.6 U	5.2 U	5.3 U	5.3 U	5.3 U	5.3 U
2-Butanone	4700000	4700000	N/A	ug/kg	5.3 U	5.3 U	5.6 U	5.2 U	5.3 U	5.3 U	5.3 U	5.3 U
4-Methyl-2-Pentanone	630000	630000	N/A	ug/kg	11 U	11 U	11 U	10 U	11 U	11 U	11 U	11 U
Acetone	N/A	N/A	N/A	ug/kg	11 U	11 U	11 U	10 U	11 U	11 U	11 U	11 U
Benzene	12000	12000	N/A	ug/kg	5.3 U	5.3 U	5.6 U	5.2 U	5.3 U	5.3 U	5.3 U	5.3 U
Bromodichloromethane	10000	10000	N/A	ug/kg	5.3 U	5.3 U	5.6 U	5.2 U	5.3 U	5.3 U	5.3 U	5.3 U
Bromomethane	11000	11000	N/A	ug/kg	11 U	11 U	11 U	10 U	11 U	11 U	11 U	11 U
Carbon Disulfide	780000	780000	N/A	ug/kg	5.3 U	5.3 U	5.6 U	5.2 U	5.3 U	5.3 U	5.3 U	5.3 U
Carbon Tetrachloride	4900	4900	N/A	ug/kg	5.3 U	5.3 U	5.6 U	5.2 U	5.3 U	5.3 U	5.3 U	5.3 U
CFC-11	N/A	N/A	N/A	ug/kg	5.3 U	5.3 U	5.6 U	5.2 U	5.3 U	5.3 U	5.3 U	5.3 U
CFC-12	N/A	N/A	N/A	ug/kg	5.3 U	5.3 U	5.6 U	5.2 U	5.3 U	5.3 U	5.3 U	5.3 U
Chlorobenzene	160000	160000	N/A	ug/kg	5.3 U	5.3 U	5.6 U	5.2 U	5.3 U	5.3 U	5.3 U	5.3 U
Chlorodibromomethane	7600	7600	N/A	ug/kg	5.3 U	5.3 U	5.6 U	5.2 U	5.3 U	5.3 U	5.3 U	5.3 U
Chloroethane	220000	220000	N/A	ug/kg	5.3 U	5.3 U	5.6 U	5.2 U	5.3 U	5.3 U	5.3 U	5.3 U
Chloroform	100000	100000	N/A	ug/kg	11 U	11 U	11 U	10 U	11 U	11 U	11 U	11 U
Chloromethane	49000	49000	N/A	ug/kg	5.3 U	5.3 U	5.6 U	5.2 U	5.3 U	5.3 U	5.3 U	5.3 U
cis-1,2-Dichloroethene	78000	78000	N/A	ug/kg	11 U	11 U	11 U	10 U	11 U	11 U	11 U	11 U
cis-1,3-Dichloropropene	6400	6400	N/A	ug/kg	5.3 U	5.3 U	5.6 U	5.2 U	5.3 U	5.3 U	5.3 U	5.3 U
Cyclohexane	N/A	N/A	N/A	ug/kg	5.3 U	5.3 U	5.6 U	5.2 U	5.3 U	5.3 U	5.3 U	5.3 U
Methylene Chloride	85000	85000	N/A	ug/kg	2.5 JB	9.9 JB	5.6 U	5.2 U	5.3 U	5.3 U	5.3 U	5.3 U
Ethylbenzene	780000	780000	N/A	ug/kg	5.3 U	5.3 U	5.6 U	5.2 U	5.3 U	5.3 U	5.3 U	5.3 U
Ethylene Dibromide	7.5	7.5	N/A	ug/kg	5.3 U	5.3 U	5.6 U	5.2 U	5.3 U	5.3 U	5.3 U	5.3 U
Freon 113	N/A	N/A	N/A	ug/kg	5.3 U	5.3 U	5.6 U	5.2 U	5.3 U	5.3 U	5.3 U	5.3 U
Isopropylbenzene	780000	780000	N/A	ug/kg	5.3 U	5.3 U	5.6 U	5.2 U	5.3 U	5.3 U	5.3 U	5.3 U
m-Dichlorobenzene	230000	230000	N/A	ug/kg	5.3 U	5.3 U	5.6 U	5.2 U	5.3 U	5.3 U	5.3 U	5.3 U
Methyl Acetate	N/A	N/A	N/A	ug/kg	5.3 U	5.3 U	5.6 U	5.2 U	5.3 U	5.3 U	5.3 U	5.3 U
Methyl n-Butyl Ketone	310000	310000	N/A	ug/kg	11 U	11 U	11 U	10 U	11 U	11 U	11 U	11 U
Methylbenzene	1600000	1600000	N/A	ug/kg	5.3 U	5.3 U	5.6 U	5.2 U	5.3 U	5.3 U	5.3 U	5.3 U
Methylcyclohexane	N/A	N/A	N/A	ug/kg	5.3 U	5.3 U	5.6 U	5.2 U	5.3 U	5.3 U	5.3 U	5.3 U
Styrene	1600000	1600000	N/A	ug/kg	5.3 U	5.3 U	5.6 U	5.2 U	5.3 U	5.3 U	5.3 U	5.3 U

SOIL SAMPLE RESULTS

Analyte	MDE Residential	MDE GW Protection	Back-ground	Unit	5-2-8-12 12/15/03	6-1-6-8 12/29/03	6-2-16.5-18 12/29/03	6-3-6-8 12/29/03	7-1-12-15 12/15/03	7-2-8-10 12/15/03	8-1-6-8 12/30/03	8-2-6-8 12/30/03
VOC Contd.												
tert-butyl methyl ether	650000	650000	N/A	ug/kg	5.3 U	5.3 U	5.6 U	5.2 U	5.3 U	5.3 U	5.3 U	5.3 U
Tetrachloroethylene	12000	12000	N/A	ug/kg	5.3 U	5.3 U	5.6 U	5.2 U	5.3 U	5.3 U	5.3 U	5.3 U
trans-1,2-dichloroethene	160000	160000	N/A	ug/kg	5.3 U	5.3 U	5.6 U	5.2 U	5.3 U	5.3 U	5.3 U	5.3 U
trans-1,3-dichloropropene	6400	6400	N/A	ug/kg	5.3 U	5.3 U	5.6 U	5.2 U	5.3 U	5.3 U	5.3 U	5.3 U
Tribromomethane	81000	81000	N/A	ug/kg	5.3 U	5.3 U	5.6 U	5.2 U	5.3 U	5.3 U	5.3 U	5.3 U
Trichloroethylene	58000	58000	N/A	ug/kg	5.3 U	5.3 U	5.6 U	5.2 U	5.3 U	5.3 U	5.3 U	5.3 U
Vinyl Chloride	90	90	N/A	ug/kg	11 U	11 U	11 U	10 U	11 U	11 U	11 U	11 U
Xylenes, Total	16000000	16000000	N/A	ug/kg	5.3 U	5.3 U	5.6 U	5.2 U	5.3 U	5.3 U	5.3 U	5.3 U
SVOC												
1,1-Biphenyl	N/A	N/A	N/A	ug/kg	350 U	360 U	370 U	350 U	350 U	360 U	350 U	360 U
1,2-Benzophenanthracene	87000	87000	N/A	ug/kg	350 U	360 U	370 U	350 U	350 U	360 U	350 U	360 U
2,2-Oxybis(1-Chloropropane)	9100	9100	N/A	ug/kg	350 U	360 U	370 U	350 U	350 U	360 U	350 U	360 U
2,4,5-Trichlorophenol	780000	780000	N/A	ug/kg	350 U	360 U	370 U	350 U	350 U	360 U	350 U	360 U
2,4,6-Trichlorophenol	58000	58000	N/A	ug/kg	350 U	360 U	370 U	350 U	350 U	360 U	350 U	360 U
2,4-Dichlorophenol	23000	23000	N/A	ug/kg	350 U	360 U	370 U	350 U	350 U	360 U	350 U	360 U
2,4-Dimethylphenol	160000	160000	N/A	ug/kg	350 U	360 U	370 U	350 U	350 U	360 U	350 U	360 U
2,4-Dinitrophenol	16000	16000	N/A	ug/kg	700 U	710 U	750 U	700 U	700 U	710 U	700 U	710 U
2,4-Dinitrotoluene	16000	16000	N/A	ug/kg	350 U	360 U	370 U	350 U	350 U	360 U	350 U	360 U
2,6-Dinitrotoluene	7800	7800	N/A	ug/kg	350 U	360 U	370 U	350 U	350 U	360 U	350 U	360 U
2-Chloronaphthalene	630000	630000	N/A	ug/kg	350 U	360 U	370 U	350 U	350 U	360 U	350 U	360 U
2-Chlorophenol	39000	39000	N/A	ug/kg	350 U	360 U	370 U	350 U	350 U	360 U	350 U	360 U
2-Methylnaphthalene	160000	160000	N/A	ug/kg	350 U	360 U	370 U	350 U	350 U	360 U	350 U	360 U
2-Methylphenol	390000	390000	N/A	ug/kg	350 U	360 U	370 U	350 U	350 U	360 U	350 U	360 U
2-Nitroaniline	N/A	N/A	N/A	ug/kg	350 U	360 U	370 U	350 U	350 U	360 U	350 U	360 U
2-Nitrophenol	63000	63000	N/A	ug/kg	350 U	360 U	370 U	350 U	350 U	360 U	350 U	360 U
3,3'-Dichlorobenzidine	1400	1400	N/A	ug/kg	700 U	710 U	750 U	700 U	700 U	710 U	700 U	710 U
3,5,5-Trimethyl-2-cyclohexene-1-one	670000	670000	N/A	ug/kg	350 U	360 U	370 U	350 U	350 U	360 U	350 U	360 U
3-Nitroaniline	N/A	N/A	N/A	ug/kg	350 U	360 U	370 U	350 U	350 U	360 U	350 U	360 U
4,6-Dinitro-2-methyl phenol	780	780	N/A	ug/kg	700 U	710 U	750 U	700 U	700 U	710 U	700 U	710 U
4-Bromophenyl Phenyl Ether	N/A	N/A	N/A	ug/kg	350 U	360 U	370 U	350 U	350 U	360 U	350 U	360 U
4-Chloro-3-methylphenol	N/A	N/A	N/A	ug/kg	350 U	360 U	370 U	350 U	350 U	360 U	350 U	360 U
4-Chlorophenyl Phenyl Ether	N/A	N/A	N/A	ug/kg	350 U	360 U	370 U	350 U	350 U	360 U	350 U	360 U
4-Methylphenol	39000	39000	N/A	ug/kg	350 U	360 U	370 U	350 U	350 U	360 U	350 U	360 U
4-Nitrophenol	63000	63000	N/A	ug/kg	700 U	710 U	750 U	700 U	700 U	710 U	700 U	710 U
Acenaphthene	470000	470000	N/A	ug/kg	350 U	360 U	370 U	350 U	350 U	360 U	350 U	360 U
Acenaphthylene	470000	470000	N/A	ug/kg	350 U	360 U	370 U	350 U	350 U	360 U	350 U	360 U
Acetophenone	N/A	N/A	N/A	ug/kg	350 U	360 U	370 U	350 U	350 U	360 U	350 U	360 U
Anthracene	2300000	2300000	N/A	ug/kg	350 U	360 U	370 U	350 U	350 U	360 U	350 U	360 U
Atrazine	2900	2900	N/A	ug/kg	350 U	360 U	370 U	350 U	350 U	360 U	350 U	360 U
Benzaldehyde	N/A	N/A	N/A	ug/kg	350 U	360 U	370 U	350 U	350 U	360 U	350 U	360 U

SOIL SAMPLE RESULTS

Analyte	MDE Residential	MDE GW Protection	Back-ground	Unit	Sample Name:		Sample Date:		Parent Name:		Sample Date:		Sample Date:		Sample Date:	
					6-1-6-8	6-2-16.5-18	6-3-6-8	7-1-12-15	7-2-8-10	8-1-6-8	8-2-6-8					
Herb Contd.																
4-Amino-3,5,6-trichloropicolinic acid	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	63000	63000	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dicamba	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorprop	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrobutyl Phenol	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MCPA	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MCPP	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	5300	5300	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides/PCB																
4,4-DDD	2700	2700	N/A	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
4,4-DDE	1900	1900	N/A	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
4,4-DDT	1900	1900	N/A	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Aldrin	38	38	N/A	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
alpha-BHC	100	100	N/A	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
alpha-Chlordane	1800	1800	N/A	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
beta-BHC	350	350	N/A	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Campechlor	580	580	N/A	ug/kg	35 U	37 U	35 U	35 U	36 U	36 U	36 U	36 U	36 U	36 U	36 U	36 U
Chlordane	N/A	N/A	N/A	ug/kg	35 U	37 U	35 U	35 U	36 U	36 U	36 U	36 U	36 U	36 U	36 U	36 U
delta-BHC	490	490	N/A	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Dieldrin	40	40	N/A	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Endosulfan I	47000	47000	N/A	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Endosulfan II	47000	47000	N/A	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Endosulfan Sulfate	47000	47000	N/A	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Endrin	2300	2300	N/A	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Endrin Aldehyde	2300	2300	N/A	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Endrin Ketone	2300	2300	N/A	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
gamma-BHC	490	490	N/A	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
gamma-Chlordane	1800	1800	N/A	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Heptachlor	140	140	N/A	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Heptachlor Epoxide	70	70	N/A	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Methoxychlor	39000	39000	N/A	ug/kg	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
PCB-1016	550	550	N/A	ug/kg	35 U	37 U	35 U	35 U	36 U	36 U	36 U	36 U	36 U	36 U	36 U	36 U
PCB-1221	320	320	N/A	ug/kg	35 U	37 U	35 U	35 U	36 U	36 U	36 U	36 U	36 U	36 U	36 U	36 U
PCB-1232	320	320	N/A	ug/kg	35 U	37 U	35 U	35 U	36 U	36 U	36 U	36 U	36 U	36 U	36 U	36 U
PCB-1242	320	320	N/A	ug/kg	35 U	37 U	35 U	35 U	36 U	36 U	36 U	36 U	36 U	36 U	36 U	36 U
PCB-1248	320	320	N/A	ug/kg	35 U	37 U	35 U	35 U	36 U	36 U	36 U	36 U	36 U	36 U	36 U	36 U
PCB-1254	320	320	N/A	ug/kg	35 U	37 U	35 U	35 U	36 U	36 U	36 U	36 U	36 U	36 U	36 U	36 U
PCB-1260	320	320	N/A	ug/kg	35 U	37 U	35 U	35 U	36 U	36 U	36 U	36 U	36 U	36 U	36 U	36 U
Explosives																
1,3,5-Trinitrobenzene	N/A	N/A	N/A	ug/kg	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U

SOIL SAMPLE RESULTS

Analyte	MDE Residential	MDE GW Protection	Back-ground	Sample Name:		6-1-6-8		6-2-16.5-18		6-3-6-8		7-1-12-15		7-2-8-10		8-1-6-8		8-2-6-8	
				Sample Date:	Parent Name:	12/15/03	12/29/03	12/29/03	12/29/03	12/15/03	12/15/03	12/15/03	12/15/03	12/15/03	12/30/03	12/30/03			
Exp Contd.				Unit															
2,4,6-Trinitrotoluene	N/A	N/A	N/A	ug/kg	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
2,4-Dinitrotoluene	16000	16000	N/A	ug/kg	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
2,6-Dinitrotoluene	7800	7800	N/A	ug/kg	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
2-Amino-4,6-dinitrotoluene	N/A	N/A	N/A	ug/kg	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
2-Nitrotoluene	N/A	N/A	N/A	ug/kg	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
3-Nitrotoluene	N/A	N/A	N/A	ug/kg	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
4-Amino-2,6-Dinitrotoluene	N/A	N/A	N/A	ug/kg	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
4-Nitrotoluene	N/A	N/A	N/A	ug/kg	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
HMX	N/A	N/A	N/A	ug/kg	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
m-Dinitrobenzene	N/A	N/A	N/A	ug/kg	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Nitrobenzene	3900	3900	N/A	ug/kg	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
RDX	N/A	N/A	N/A	ug/kg	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Tetryl	N/A	N/A	N/A	ug/kg	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Metals																			
Aluminum	7800	7800	11000	mg/kg	634	2910 N	1260 N	478 N	840	840	1300	596 N	2260 N						
Antimony	12	12	N/A	mg/kg	0.25 UN	0.37 BN	0.43 BN	0.28 BN	0.25 UN	0.24 BN	0.24 BN	0.33 BN	0.48 BN						
Arsenic	2	2	3.6	mg/kg	2.3	2.6	1.5 B	1 B	1.5 B	3	3	0.86 B	2.1						
Barium	550	550	N/A	mg/kg	2.2	9.2	6.9	2.7	6.5	5.9	5.9	4.8	7.9						
Beryllium	16	16	N/A	mg/kg	0.04 B	0.03 B	0.0088 U	0.0076 U	0.04 B	0.06 B	0.0074 U	0.02 B	0.02 B						
Cadmium	3.9	3.9	N/A	mg/kg	0.01 U	0.02 U	0.02 U	0.02 U	0.01 U	0.01 U	0.02 U	0.02 U	0.02 U						
Calcium	N/A	N/A	N/A	mg/kg	28.4 B	42.1 B	8.8 B	5.6 U	19.4 B	42 B	23.4 B	6 U							
Chromium	23	23	28	mg/kg	8.5	8	10.6	3.3	4	4	6.9	2.4	8.4						
Cobalt	160	160	N/A	mg/kg	0.06 U	0.48	0.3 B	0.05 B	0.11 B	0.19 B	0.03 B	0.33 B							
Copper	310	310	N/A	mg/kg	6.9	7.4	4.3	5.1	2.6	2.8	3.3	3.8							
Iron	2300	2300	15000	mg/kg	5020	6180 N	3890 N	3790 N	3410	3720	1500 N	5600 N							
Lead	400	400	N/A	mg/kg	0.92	2	2	0.9	1	1.6	0.85	2.5							
Magnesium	N/A	N/A	N/A	mg/kg	19.6 B	89.7	79.8	16.9 B	44.2	52.1	34.4	90.2							
Manganese	160	160	480	mg/kg	1.4	10.7	9.2	2.3	11	4.3	1.9	5.9							
Mercury	0.1	0.1	0.51	mg/kg	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U							
Nickel	160	160	N/A	mg/kg	0.09 B	0.64 B	0.57 B	0.11 U	0.19 B	0.36 B	0.11 U	0.61 B							
Potassium	N/A	N/A	N/A	mg/kg	64.5 N	223 N	78.3 N	51.5 N	69.6 N	149 N	93.2 N	170 N							
Selenium	39	39	N/A	mg/kg	0.4 B	0.23 U	0.25 U	0.22 B	0.28 B	0.27 B	0.21 U	0.23 U							
Silver	39	39	N/A	mg/kg	0.05 U	0.04 U	0.04 U	0.03 U	0.05 U	0.04 U	0.03 U	0.04 U							
Sodium	N/A	N/A	N/A	mg/kg	51.3 B	69.2 B	63.6 B	60 B	48.4 B	49.4 B	51.5 B	55.1 B							
Thallium	2	2	3.8	mg/kg	0.41 U	0.34 U	0.36 U	0.31 U	0.42 U	0.32 U	0.3 U	0.34 U							
Vanadium	55	55	N/A	mg/kg	8.7	16.7	9.6	2.4	4.8	9.3	3.1	21.8							
Zinc	2300	2300	N/A	mg/kg	1.9	3	3	1.5 B	2.2	1.9	1.9	3.1							
General Chemistry																			
Oil & Grease, Total Recovered	N/A	N/A	N/A	mg/kg	5.2 U	5.2 U	5.4 U	5.1 U	5.1 U	5.2 U	5.1 U	5.1 U							
Percent Solids	N/A	N/A	N/A	%	95	94	89	96	95	94	95	94							

SOIL SAMPLE RESULTS

Analyte	MDE Residential	MDE GW Protection	Back-ground	Sample Name:	Sample Date:	Parent Name:	6-1-6-8	6-2-16,5-18	6-3-6-8	7-1-12-15	7-2-8-10	8-1-6-8	8-2-6-8
Gen Chem Contd.							12/29/03	12/29/03	12/29/03	12/15/03	12/15/03	12/30/03	12/30/03
							5.2 U	5.4 U	5.1 U	5.1 U	5.2 U	5.1 U	5.1 U
							3.6	6.9	4.9	4.1	3.5	5.1	8.4
							110 U	110 U	110 U	110 U	110 U	110 U	110 U
							mg/kg	mg/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
TPH	N/A	N/A	N/A				5.2 U	5.4 U	5.1 U	5.1 U	5.2 U	5.1 U	5.1 U
TPH-DRO	230	230	N/A				7.6	6.9	4.9	4.1	3.5	5.1	8.4
TPH-GRO	230000	230000	N/A				110 U	110 U	110 U	110 U	110 U	110 U	110 U

SOIL SAMPLE RESULTS

Analyte	MDE Residential	MDE GW Protection	Back-ground	Unit	Sample Name:									
					8-3-18-20	8-4-2-4	8-5-4-6	8-6-5-5-7	8-7-14-15-5	8-8-10-5-13-7	8-9-12-5-14	8-10-18-20		
					12/30/03	12/22/03	12/22/03	12/22/03	12/22/03	12/19/03	12/19/03	12/22/03	12/22/03	
					Parent Name:									
VOC Contd.														
tert-butyl methyl ether	650000	650000	N/A	ug/kg	5.2 U	5.8 U	5.3 U	5.7 U	5.5 U	5.6 U	5.5 U	5.5 U	5.4 U	
Tetrachloroethylene	12000	12000	N/A	ug/kg	5.2 U	5.8 U	5.3 U	5.7 U	5.5 U	5.6 U	5.5 U	5.5 U	5.4 U	
trans-1,2-dichloroethene	160000	160000	N/A	ug/kg	5.2 U	5.8 U	5.3 U	5.7 U	5.5 U	5.6 U	5.5 U	5.5 U	5.4 U	
trans-1,3-dichloropropene	6400	6400	N/A	ug/kg	5.2 U	5.8 U	5.3 U	5.7 U	5.5 U	5.6 U	5.5 U	5.5 U	5.4 U	
Tribromomethane	81000	81000	N/A	ug/kg	5.2 U	5.8 U	5.3 U	5.7 U	5.5 U	5.6 U	5.5 U	5.5 U	5.4 U	
Trichloroethylene	58000	58000	N/A	ug/kg	5.2 U	5.8 U	5.3 U	5.7 U	5.5 U	5.6 U	5.5 U	5.5 U	5.4 U	
Vinyl Chloride	90	90	N/A	ug/kg	10 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	
Xylenes, Total	16000000	16000000	N/A	ug/kg	5.2 U	5.8 U	5.3 U	5.7 U	5.5 U	5.6 U	5.5 U	5.5 U	5.4 U	
SVOC														
1,1-Biphenyl	N/A	N/A	N/A	ug/kg	350 U	390 U	350 U	380 U	370 U	370 U	370 U	370 U	360 U	
1,2-Benzphenanthracene	87000	87000	N/A	ug/kg	350 U	390 U	350 U	380 U	370 U	370 U	370 U	370 U	360 U	
2,2-Oxybis(1-Chloropropane)	9100	9100	N/A	ug/kg	350 U	390 U	350 U	380 U	370 U	370 U	370 U	370 U	360 U	
2,4,5-Trichlorophenol	780000	780000	N/A	ug/kg	350 U	390 U	350 U	380 U	370 U	370 U	370 U	370 U	360 U	
2,4,6-Trichlorophenol	58000	58000	N/A	ug/kg	350 U	390 U	350 U	380 U	370 U	370 U	370 U	370 U	360 U	
2,4-Dichlorophenol	23000	23000	N/A	ug/kg	350 U	390 U	350 U	380 U	370 U	370 U	370 U	370 U	360 U	
2,4-Dimethylphenol	160000	160000	N/A	ug/kg	350 U	390 U	350 U	380 U	370 U	370 U	370 U	370 U	360 U	
2,4-Dinitrophenol	16000	16000	N/A	ug/kg	700 U	780 U	710 U	760 U	740 U	750 U	740 U	740 U	720 U	
2,4-Dinitrotoluene	16000	16000	N/A	ug/kg	350 U	390 U	350 U	380 U	370 U	370 U	370 U	370 U	360 U	
2,6-Dinitrotoluene	7800	7800	N/A	ug/kg	350 U	390 U	350 U	380 U	370 U	370 U	370 U	370 U	360 U	
2-Chloronaphthalene	630000	630000	N/A	ug/kg	350 U	390 U	350 U	380 U	370 U	370 U	370 U	370 U	360 U	
2-Chlorophenol	39000	39000	N/A	ug/kg	350 U	390 U	350 U	380 U	370 U	370 U	370 U	370 U	360 U	
2-Methylnaphthalene	160000	160000	N/A	ug/kg	350 U	390 U	350 U	380 U	370 U	370 U	370 U	370 U	360 U	
2-Methylphenol	390000	390000	N/A	ug/kg	350 U	390 U	350 U	380 U	370 U	370 U	370 U	370 U	360 U	
2-Nitroaniline	N/A	N/A	N/A	ug/kg	350 U	390 U	350 U	380 U	370 U	370 U	370 U	370 U	360 U	
2-Nitrophenol	63000	63000	N/A	ug/kg	350 U	390 U	350 U	380 U	370 U	370 U	370 U	370 U	360 U	
3,3'-Dichlorobenzidine	1400	1400	N/A	ug/kg	700 U	780 U	710 U	760 U	740 U	750 U	740 U	740 U	720 U	
3,5,5-Trimethyl-2-cyclohexene-1-one	670000	670000	N/A	ug/kg	350 U	390 U	350 U	380 U	370 U	370 U	370 U	370 U	360 U	
3-Nitroaniline	N/A	N/A	N/A	ug/kg	350 U	390 U	350 U	380 U	370 U	370 U	370 U	370 U	360 U	
4,6-Dinitro-2-methyl phenol	780	780	N/A	ug/kg	700 U	780 U	710 U	760 U	740 U	750 U	740 U	740 U	720 U	
4-Bromophenyl Phenyl Ether	N/A	N/A	N/A	ug/kg	350 U	390 U	350 U	380 U	370 U	370 U	370 U	370 U	360 U	
4-Chloro-3-methylphenol	N/A	N/A	N/A	ug/kg	350 U	390 U	350 U	380 U	370 U	370 U	370 U	370 U	360 U	
4-Chlorophenyl Phenyl Ether	N/A	N/A	N/A	ug/kg	350 U	390 U	350 U	380 U	370 U	370 U	370 U	370 U	360 U	
4-Methylphenol	39000	39000	N/A	ug/kg	350 U	390 U	350 U	380 U	370 U	370 U	370 U	370 U	360 U	
4-Nitrophenol	63000	63000	N/A	ug/kg	700 U	780 U	710 U	760 U	740 U	750 U	740 U	740 U	720 U	
Acenaphthene	470000	470000	N/A	ug/kg	350 U	390 U	350 U	380 U	370 U	370 U	370 U	370 U	360 U	
Acenaphthylene	470000	470000	N/A	ug/kg	350 U	390 U	350 U	380 U	370 U	370 U	370 U	370 U	360 U	
Acetophenone	N/A	N/A	N/A	ug/kg	350 U	390 U	350 U	380 U	370 U	370 U	370 U	370 U	360 U	
Anthracene	2300000	2300000	N/A	ug/kg	350 U	390 U	350 U	380 U	370 U	370 U	370 U	370 U	360 U	
Atrazine	2900	2900	N/A	ug/kg	350 U	390 U	350 U	380 U	370 U	370 U	370 U	370 U	360 U	
Benzaldehyde	N/A	N/A	N/A	ug/kg	350 U	390 U	350 U	380 U	370 U	370 U	370 U	370 U	360 U	

SOIL SAMPLE RESULTS

Analyte	MDE Residential	MDE GW Protection	Back-ground	Unit	Sample Name:		8-4-2-4		8-5-4-6		8-6-5-5-7		8-8-10-5-13-7		8-9-12-5-14		8-10-18-20	
					12/30/03	12/22/03	12/22/03	12/22/03	12/22/03	12/22/03	12/22/03	12/22/03	12/22/03	12/22/03	12/22/03	12/22/03	12/22/03	12/22/03
SVOC Compd																		
Benzo(a)anthracene	870	870	N/A	ug/kg	350 U	390 U												
Benzo(a)pyrene	330	330	N/A	ug/kg	350 U	390 U												
Benzo(b)fluoranthene	870	870	N/A	ug/kg	350 U	390 U												
Benzo(g,h,i)perylene	230000	230000	N/A	ug/kg	350 U	390 U												
Benzo(k)fluoranthene	8700	8700	N/A	ug/kg	350 U	390 U												
Benzo(l)butyl Phthalate	N/A	N/A	N/A	ug/kg	350 U	390 U												
bis(2-Chloroethoxy) Methane	N/A	N/A	N/A	ug/kg	350 U	390 U												
bis(2-Chloroethyl) Ether	580	580	N/A	ug/kg	350 U	390 U												
bis(2-Ethylhexyl) Phthalate	46000	46000	N/A	ug/kg	350 U	390 U												
Caprolactam	N/A	N/A	N/A	ug/kg	350 U	390 U												
Carbazole	32000	32000	N/A	ug/kg	350 U	390 U												
di-n-Butyl Phthalate	780000	780000	N/A	ug/kg	350 U	390 U												
di-n-Octyl Phthalate	160000	160000	N/A	ug/kg	350 U	390 U												
Dibenz(a,h)anthracene	330	330	N/A	ug/kg	350 U	390 U												
Dibenzofuran	31000	31000	N/A	ug/kg	350 U	390 U												
Diethyl Phthalate	6300000	6300000	N/A	ug/kg	350 U	390 U												
Dimethyl phthalate	78000000	78000000	N/A	ug/kg	350 U	390 U												
Fluoranthene	310000	310000	N/A	ug/kg	350 U	390 U												
Fluorene	310000	310000	N/A	ug/kg	350 U	390 U												
Hexachloro-1,3-butadiene	8200	8200	N/A	ug/kg	350 U	390 U												
Hexachlorobenzene	N/A	N/A	N/A	ug/kg	350 U	390 U												
Hexachlorocyclopentadiene	55000	55000	N/A	ug/kg	350 U	390 U												
Hexachloroethane	46000	46000	N/A	ug/kg	350 U	390 U												
Indeno(1,2,3-c,d)Pyrene	870	870	N/A	ug/kg	350 U	390 U												
n-Nitrosodi-n-propylamine	330	330	N/A	ug/kg	350 U	390 U												
n-Nitrosodiphenylamine	130000	130000	N/A	ug/kg	350 U	390 U												
Naphthalene	160000	160000	N/A	ug/kg	350 U	390 U												
Nitrobenzene	3900	3900	N/A	ug/kg	350 U	390 U												
p-Chloroaniline	31000	31000	N/A	ug/kg	350 U	390 U												
p-Nitroaniline	N/A	N/A	N/A	ug/kg	350 U	390 U												
Pentachlorophenol	5300	5300	N/A	ug/kg	700 U	780 U												
Phenanthrene	2300000	2300000	N/A	ug/kg	350 U	390 U												
Phenol	4700000	4700000	N/A	ug/kg	350 U	390 U												
Pyrene	230000	230000	N/A	ug/kg	350 U	390 U												
Herbicides																		
2,2-Dichloropropionic Acid	N/A	N/A	N/A	ug/kg	NA	NA												
2,4,5-T	N/A	N/A	N/A	ug/kg	NA	NA												
2,4,5-TP	N/A	N/A	N/A	ug/kg	NA	NA												
2,4-D	N/A	N/A	N/A	ug/kg	NA	NA												
2,4-DB	N/A	N/A	N/A	ug/kg	NA	NA												

SOIL SAMPLE RESULTS

Analyte	MDE Residential	MDE GW Protection	Back-ground	Unit	8-3-18-20 12/30/03	8-4-2-4 12/22/03	8-5-4-6 12/22/03	8-6-5-5-7 12/22/03	8-7-14-15.5 12/22/03	8-8-10.5-13.7 12/19/03	8-9-12.5-14 12/19/03	8-10-18-20 12/22/03
Sample Name:	Sample Date:	Parent Name:	Back-ground	Unit								
Herb Contd.	N/A	N/A	N/A	ug/kg								
4-Amino-3,5,6-trichloropicolinic acid												
4-Nitrophenol	63000	63000	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA
Dicamba	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorprop	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrobutyl Phenol	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA
MCPA	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA
MCPP	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	5300	5300	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides/PCB												
4,4-DDD	2700	2700	N/A	ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
4,4-DDE	1900	1900	N/A	ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
4,4-DDT	1900	1900	N/A	ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
Aldrin	38	38	N/A	ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
alpha-BHC	100	100	N/A	ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
alpha-Chlordane	1800	1800	N/A	ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
beta-BHC	350	350	N/A	ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
Camphechlor	580	580	N/A	ug/kg	35 U	39 U	35 U	38 U	37 U	37 U	37 U	36 U
Chlordane	N/A	N/A	N/A	ug/kg	35 U	39 U	35 U	38 U	37 U	37 U	37 U	36 U
delta-BHC	490	490	N/A	ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
Dieldrin	40	40	N/A	ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
Endosulfan I	47000	47000	N/A	ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
Endosulfan II	47000	47000	N/A	ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
Endosulfan Sulfate	47000	47000	N/A	ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
Endrin	2300	2300	N/A	ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
Endrin Aldehyde	2300	2300	N/A	ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
Endrin Ketone	2300	2300	N/A	ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
gamma-BHC	490	490	N/A	ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
gamma-Chlordane	1800	1800	N/A	ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
Heptachlor	140	140	N/A	ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
Heptachlor Epoxide	70	70	N/A	ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
Methoxychlor	39000	39000	N/A	ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
PCB-1016	550	550	N/A	ug/kg	35 U	39 U	35 U	38 U	37 U	37 U	37 U	36 U
PCB-1221	320	320	N/A	ug/kg	35 U	39 U	35 U	38 U	37 U	37 U	37 U	36 U
PCB-1232	320	320	N/A	ug/kg	35 U	39 U	35 U	38 U	37 U	37 U	37 U	36 U
PCB-1242	320	320	N/A	ug/kg	35 U	39 U	35 U	38 U	37 U	37 U	37 U	36 U
PCB-1248	320	320	N/A	ug/kg	35 U	39 U	35 U	38 U	37 U	37 U	37 U	36 U
PCB-1254	320	320	N/A	ug/kg	35 U	39 U	35 U	38 U	37 U	37 U	37 U	36 U
PCB-1260	320	320	N/A	ug/kg	35 U	39 U	35 U	38 U	37 U	37 U	37 U	36 U
Explosives												
1,3,5-Trinitrobenzene	N/A	N/A	N/A	ug/kg	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U

SOIL SAMPLE RESULTS

Analyte	MDE Residential	MDE GW Protection	Back-ground	Sample Name:	8-3-18-20	8-4-2-4	8-5-4-6	8-6-5-5-7	8-7-14-15.5	8-8-10.5-13.7	8-9-12.5-14	8-10-18-20
Exp Contd.			Unit	Sample Date:	12/30/03	12/22/03	12/22/03	12/22/03	12/22/03	12/19/03	12/19/03	12/22/03
				Parent Name:								
2,4,6-Trinitrotoluene	N/A	N/A	N/A		100 U	100 U	100 U	100 U	53 J	100 U	100 U	100 U
2,4-Dinitrotoluene	16000	16000	N/A		100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
2,6-Dinitrotoluene	7800	7800	N/A		100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
2-Amino-4,6-dinitrotoluene	N/A	N/A	N/A		100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
2-Nitrotoluene	N/A	N/A	N/A		200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
3-Nitrotoluene	N/A	N/A	N/A		200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
4-Amino-2,6-Dinitrotoluene	N/A	N/A	N/A		100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
4-Nitrotoluene	N/A	N/A	N/A		200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
HMX	N/A	N/A	N/A		200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
m-Dinitrobenzene	N/A	N/A	N/A		100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Nitrobenzene	3900	3900	N/A		61 J	100 U	100 U	38 J	34 J	52 J	51 J	100 U
RDX	N/A	N/A	N/A		200 U	200 U	200 U	200 U	200 U	150 J	180 J	200 U
Tetryl	N/A	N/A	N/A		200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Metals												
Aluminum	7800	7800	11000		1240 N	3040	674	1540	1880	820 N	1690 N	2020
Antimony	12	12	N/A		0.34 BN	0.18 U	0.25 U	0.33 B	0.32 B	0.2 U	0.26 B	0.24 U
Arsenic	2	2	3.6		1.4 B	1.2	1.6 B	2.5	7.9	1 B	1.9	1.2 B
Barium	550	550	N/A		6.3	28.2	5.4	6.3	6.2	5.1	11.9	14
Beryllium	16	16	N/A		0.0079 U	0.16	0.04 B	0.06 B	0.11 B	0.0087 U	0.01 B	0.09 B
Cadmium	3.9	3.9	N/A		0.02 U	0.06 B	0.03 B	0.05 B	0.11 B	0.02 U	0.02 U	0.03 B
Calcium	N/A	N/A	N/A		18.5 B	43.1 B	21 B	34.8 B	29.5 B	24.8 B	60.8 B	83.4
Chromium	23	23	28		7.2	5 E	2.5 E	4.9 E	10.1 E	7.8 *	17.5 *	22.7 E
Cobalt	160	160	N/A		0.03 U	0.97	0.14 B	0.15 B	0.15 B	0.04 U	0.2 B	0.25 B
Copper	310	310	N/A		5	2.8	6.9	8.3	19.1	4 *	4.6 *	3.1
Iron	2300	2300	15000		4330 N	3690	2590	4900	10200	2040 N*	3230 N*	2440
Lead	400	400	N/A		1.2	2.7	0.81	1.3	1.7	1.5	3.3	2.7
Magnesium	N/A	N/A	N/A		35.8	255	29.2	63.6	42.5	32.5	63.4	59.9
Manganese	160	160	480		2.7	64.7	4	2.7	4.2	3.7	8.1	10.8
Mercury	0.1	0.1	0.51		0.01 U	0.01 U	0.01 U	0.01 B	0.02	0.01 U	0.01 U	0.01 U
Nickel	160	160	N/A		0.13 B	1.6	0.08 U	0.13 B	0.29 B	0.13 U	0.68 B	0.92
Potassium	N/A	N/A	N/A		177 N	120	70.1	156	179	177 N	416 N	497
Selenium	39	39	N/A		0.22 U	0.2 U	0.26 U	0.28 U	0.35 B	0.24 U	0.23 U	0.26 U
Silver	39	39	N/A		0.03 U	0.04 U	0.05 U	0.06 U	0.06 U	0.04 U	0.04 U	0.06 B
Sodium	N/A	N/A	N/A		58.2 B	44.5 B	55.7 B	66.9 B	64.5 B	47 B	48.9 B	65.8 B
Thallium	2	2	3.8		0.32 U	0.31 U	0.42 U	0.45 U	0.45 U	0.36 U	0.33 U	0.41 U
Vanadium	55	55	N/A		7.1	7.9	4.4	9.7	17.8	6.3 *	11.9 *	12.4
Zinc	2300	2300	N/A		1.6 B	7.2	1.4 B	1.8	3	1.4 B	2.9	1.5 B
General Chemistry												
Oil & Grease, Total Recovered	N/A	N/A	N/A		5.1 U	5.8	5.1 U	5.6 U	5.4 U	8.8	7.9	5.3 U
Percent Solids	N/A	N/A	N/A		96	86	94	88	91	89	90	92

SOIL SAMPLE RESULTS

Analyte	MDE Residential	MDE GW Protection	Back-ground	Sample Name:		Sample Date:		Parent Name:		Parent Date:		Sample Date:		Sample Date:	
				Unit	Unit	Unit									
Gen Chem Contd.															
TPH	N/A	N/A	N/A	mg/kg	5.1 U	5.6 U	5.1 U	5.1 U	5.6 U	5.4 U	5.4 U	5.4 U	5.4 U	5.5 U	5.3 U
TPH-DRO	230	230	N/A	mg/kg	10	4.4	3.1	4.2	4.6	3.3	3.3	4.6	3.2	3	3
TPH-GRO	230000	230000	N/A	ug/kg	100 U	110 J	110 U	110 U	110 U						

SOIL SAMPLE RESULTS

Analyte	MDE Residential	MDE GW Protection	Back-ground	Sample Name:		Sample Date:		Parent Name:		Sample Date:		Sample Date:	
				8-11-5-7	8-12-0-5-2	8-13-13-16.5	9-1-12-16	9-2-8-12	11-1-5-5-7	13-1-3-4-6	13-2-4-8		
				12/22/03	12/22/03	12/19/03	12/15/03	12/15/03	12/22/03	12/19/03	12/19/03		
Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	
VOC													
1,1,1-Trichloroethane	2200000	2200000	N/A	ug/kg	5.5 U	5.3 U	5.6 U	5.7 U	5.9 U	6.1 U	5.7 U	5.7 U	5.6 U
1,1,2,2-Tetrachloroethane	3200	3200	N/A	ug/kg	5.5 U	5.3 U	5.6 U	5.7 U	5.9 U	6.1 U	5.7 U	5.7 U	5.6 U
1,1,2-Trichloroethane	11000	11000	N/A	ug/kg	5.5 U	5.3 U	5.6 U	5.7 U	5.9 U	6.1 U	5.7 U	5.7 U	5.6 U
1,1-Dichloroethane	780000	780000	N/A	ug/kg	5.5 U	5.3 U	5.6 U	5.7 U	5.9 U	6.1 U	5.7 U	5.7 U	5.6 U
1,1-Dichloroethylene	1100	1100	N/A	ug/kg	5.5 U	5.3 U	5.6 U	5.7 U	5.9 U	6.1 U	5.7 U	5.7 U	5.6 U
1,2,4-Trichlorobenzene	78000	78000	N/A	ug/kg	5.5 U	5.3 U	5.6 U	5.7 U	5.9 U	6.1 U	5.7 U	5.7 U	5.6 U
1,2-Dibromo-3-chloropropane	460	460	N/A	ug/kg	5.5 U	5.3 U	5.6 U	5.7 U	5.9 U	6.1 U	5.7 U	5.7 U	5.6 U
1,2-Dichlorobenzene	700000	700000	N/A	ug/kg	5.5 U	5.3 U	5.6 U	5.7 U	5.9 U	6.1 U	5.7 U	5.7 U	5.6 U
1,2-Dichloroethane	7000	7000	N/A	ug/kg	5.5 U	5.3 U	5.6 U	5.7 U	5.9 U	6.1 U	5.7 U	5.7 U	5.6 U
1,2-Dichloropropane	9400	9400	N/A	ug/kg	5.5 U	5.3 U	5.6 U	5.7 U	5.9 U	6.1 U	5.7 U	5.7 U	5.6 U
1,4-Dichlorobenzene	27000	27000	N/A	ug/kg	5.5 U	5.3 U	5.6 U	5.7 U	5.9 U	6.1 U	5.7 U	5.7 U	5.6 U
2-Butanone	4700000	4700000	N/A	ug/kg	11 U	11 U	11 U	12 U	12 U	12 U	11 U	11 U	11 U
4-Methyl-2-Pentanone	630000	630000	N/A	ug/kg	11 U	11 U	11 U	12 U	12 U	12 U	11 U	11 U	11 U
Acetone	N/A	N/A	N/A	ug/kg	3.9 J	11 U	25	12 U	12 U	7.5 J	11 U	11 U	11 U
Benzene	12000	12000	N/A	ug/kg	5.5 U	5.3 U	5.6 U	5.7 U	5.9 U	6.1 U	5.7 U	5.7 U	5.6 U
Bromodichloromethane	10000	10000	N/A	ug/kg	5.5 U	5.3 U	5.6 U	5.7 U	5.9 U	6.1 U	5.7 U	5.7 U	5.6 U
Bromomethane	11000	11000	N/A	ug/kg	11 U	11 U	11 U	12 U	12 U	12 U	11 U	11 U	11 U
Carbon Disulfide	780000	780000	N/A	ug/kg	5.5 U	5.3 U	5.6 U	5.7 U	5.9 U	3.7 J	5.7 U	5.7 U	5.6 U
Carbon Tetrachloride	4900	4900	N/A	ug/kg	5.5 U	5.3 U	5.6 U	5.7 U	5.9 U	6.1 U	5.7 U	5.7 U	5.6 U
CFC-11	N/A	N/A	N/A	ug/kg	5.5 U	5.3 U	5.6 U	5.7 U	5.9 U	6.1 U	5.7 U	5.7 U	5.6 U
CFC-12	N/A	N/A	N/A	ug/kg	5.5 U	5.3 U	5.6 U	5.7 U	5.9 U	6.1 U	5.7 U	5.7 U	5.6 U
Chlorobenzene	160000	160000	N/A	ug/kg	5.5 U	5.3 U	5.6 U	5.7 U	5.9 U	6.1 U	5.7 U	5.7 U	5.6 U
Chlorodibromomethane	7600	7600	N/A	ug/kg	5.5 U	5.3 U	5.6 U	5.7 U	5.9 U	6.1 U	5.7 U	5.7 U	5.6 U
Chloroethane	220000	220000	N/A	ug/kg	11 U	11 U	11 U	12 U	12 U	12 U	11 U	11 U	11 U
Chloroform	100000	100000	N/A	ug/kg	5.5 U	5.3 U	5.6 U	5.7 U	5.9 U	6.1 U	5.7 U	5.7 U	5.6 U
Chloromethane	49000	49000	N/A	ug/kg	11 U	11 U	11 U	12 U	12 U	12 U	11 U	11 U	11 U
cis-1,2-Dichloroethene	78000	78000	N/A	ug/kg	5.5 U	5.3 U	5.6 U	5.7 U	5.9 U	6.1 U	5.7 U	5.7 U	5.6 U
cis-1,3-Dichloropropene	6400	6400	N/A	ug/kg	5.5 U	5.3 U	5.6 U	5.7 U	5.9 U	6.1 U	5.7 U	5.7 U	5.6 U
Cyclohexane	N/A	N/A	N/A	ug/kg	5.5 U	5.3 U	5.6 U	5.7 U	5.9 U	6.1 U	5.7 U	5.7 U	5.6 U
Methylene Chloride	85000	85000	N/A	ug/kg	4.7 JB	9.1 JB	4.2 JB	3.8 JB	2.8 JB	11 JB	8.1 JB	11 JB	11 JB
Ethylbenzene	780000	780000	N/A	ug/kg	5.5 U	5.3 U	5.6 U	5.7 U	5.9 U	6.1 U	5.7 U	5.7 U	5.6 U
Ethylene Dibromide	7.5	7.5	N/A	ug/kg	5.5 U	5.3 U	5.6 U	5.7 U	5.9 U	6.1 U	5.7 U	5.7 U	5.6 U
Freon 113	N/A	N/A	N/A	ug/kg	5.5 U	5.3 U	5.6 U	5.7 U	5.9 U	6.1 U	5.7 U	5.7 U	5.6 U
Isopropylbenzene	780000	780000	N/A	ug/kg	5.5 U	5.3 U	5.6 U	5.7 U	5.9 U	6.1 U	5.7 U	5.7 U	5.6 U
m-Dichlorobenzene	230000	230000	N/A	ug/kg	5.5 U	5.3 U	5.6 U	5.7 U	5.9 U	6.1 U	5.7 U	5.7 U	5.6 U
Methyl Acetate	N/A	N/A	N/A	ug/kg	5.5 U	5.3 U	5.6 U	5.7 U	5.9 U	6.1 U	5.7 U	5.7 U	5.6 U
Methyl n-Butyl Ketone	310000	310000	N/A	ug/kg	11 U	11 U	11 U	12 U	12 U	12 U	11 U	11 U	11 U
Methylbenzene	1600000	1600000	N/A	ug/kg	5.5 U	5.3 U	5.6 U	5.7 U	5.9 U	6.1 U	5.7 U	5.7 U	5.6 U
Methylcyclohexane	N/A	N/A	N/A	ug/kg	5.5 U	5.3 U	5.6 U	5.7 U	5.9 U	6.1 U	5.7 U	5.7 U	5.6 U
Styrene	1600000	1600000	N/A	ug/kg	5.5 U	5.3 U	5.6 U	5.7 U	5.9 U	6.1 U	5.7 U	5.7 U	5.6 U

SOIL SAMPLE RESULTS

Analyte	MDE Residential	MDE GW Protection	Back-ground	Sample Name:								
				8-11-5-7	8-12-0-5-2	8-13-15-16.5	9-1-12-16	9-2-8-12	11-1-5-5-7	13-1-3-4-6		
				12/22/03	12/22/03	12/19/03	12/15/03	12/15/03	12/15/03	12/22/03	12/19/03	12/19/03
				Unit								
VOC Contd.												
tert-butyl methyl ether	650000	650000	N/A	ug/kg	5.5 U	5.3 U	5.6 U	5.7 U	5.9 U	6.1 U	5.7 U	5.6 U
Tetrachloroethylene	12000	12000	N/A	ug/kg	5.5 U	5.3 U	5.6 U	5.7 U	5.9 U	6.1 U	5.7 U	5.6 U
trans-1,2-dichloroethene	160000	160000	N/A	ug/kg	5.5 U	5.3 U	5.6 U	5.7 U	5.9 U	6.1 U	5.7 U	5.6 U
trans-1,3-dichloropropene	6400	6400	N/A	ug/kg	5.5 U	5.3 U	5.6 U	5.7 U	5.9 U	6.1 U	5.7 U	5.6 U
Tribromomethane	81000	81000	N/A	ug/kg	5.5 U	5.3 U	5.6 U	5.7 U	5.9 U	6.1 U	5.7 U	5.6 U
Trichloroethylene	58000	58000	N/A	ug/kg	5.5 U	5.3 U	5.6 U	5.7 U	5.9 U	6.1 U	5.7 U	5.6 U
Vinyl Chloride	90	90	N/A	ug/kg	11 U	11 U	11 U	12 U	12 U	12 U	11 U	11 U
Xylenes, Total	16000000	16000000	N/A	ug/kg	5.5 U	5.3 U	5.6 U	5.7 U	5.9 U	6.1 U	5.7 U	5.6 U
SVOC												
1,1-Biphenyl	N/A	N/A	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
1,2-Benzophenanthracene	87000	87000	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
2,2-Oxybis(1-Chloropropane)	9100	9100	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
2,4,5-Trichlorophenol	780000	780000	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
2,4,6-Trichlorophenol	58000	58000	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
2,4-Dichlorophenol	23000	23000	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
2,4-Dimethylphenol	160000	160000	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
2,4-Dinitrophenol	16000	16000	N/A	ug/kg	730 U	710 U	750 U	770 U	780 U	810 U	760 U	750 U
2,4-Dinitrotoluene	16000	16000	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
2,6-Dinitrotoluene	7800	7800	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
2-Chloronaphthalene	630000	630000	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
3-Chlorophenol	39000	39000	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
2-Methylnaphthalene	160000	160000	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
2-Methylphenol	390000	390000	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
2-Nitroaniline	N/A	N/A	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
2-Nitrophenol	63000	63000	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
3,3-Dichlorobenzidine	1400	1400	N/A	ug/kg	730 U	710 U	750 U	770 U	780 U	810 U	760 U	750 U
3,5,5-Trimethyl-2-cyclohexene-1-one	670000	670000	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
3-Nitroaniline	N/A	N/A	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
4,6-Dinitro-2-methyl phenol	780	780	N/A	ug/kg	730 U	710 U	750 U	770 U	780 U	810 U	760 U	750 U
4-Bromophenyl Phenyl Ether	N/A	N/A	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
4-Chloro-3-methylphenol	N/A	N/A	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
4-Chlorophenyl Phenyl Ether	N/A	N/A	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
4-Methylphenol	39000	39000	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
4-Nitrophenol	63000	63000	N/A	ug/kg	730 U	710 U	750 U	770 U	780 U	810 U	760 U	750 U
Acenaphthene	470000	470000	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
Acenaphthylene	470000	470000	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
Acetophenone	N/A	N/A	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
Anthracene	2300000	2300000	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
Atrazine	2900	2900	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
Benzaldehyde	N/A	N/A	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U

SOIL SAMPLE RESULTS

Analyte	MDE Residential	MDE GW Protection	Back-ground	Unit	8-11-5-7	8-12-0-5-2	8-13-15-16.5	9-1-12-16	9-2-8-12	11-5-5-7	13-1-3-4.6	13-2-4-8
					12/22/03	12/22/03	12/19/03	12/15/03	12/15/03	12/22/03	12/19/03	12/19/03
SVOC Contd												
Benzo(a)anthracene	870	870	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
Benzo(a)pyrene	330	330	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
Benzo(b)fluoranthene	870	870	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
Benzo(g,h,i)perylene	230000	230000	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
Benzo(k)fluoranthene	8700	8700	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
Benzyl Butyl Phthalate	N/A	N/A	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
bis(2-Chloroethoxy) Methane	N/A	N/A	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
bis(2-Chloroethyl) Ether	580	580	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
bis(2-Ethylhexyl) Phthalate	46000	46000	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
Caprolactam	N/A	N/A	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
Carbazole	32000	32000	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
di-n-Butyl Phthalate	780000	780000	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
di-n-Octyl Phthalate	160000	160000	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
Dibenz(a,h)anthracene	330	330	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
Dibenzofuran	31000	31000	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
Diethyl Phthalate	6300000	6300000	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
Dimethyl phthalate	78000000	78000000	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
Fluoranthene	310000	310000	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
Fluorene	310000	310000	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
Hexachloro-1,3-butadiene	8200	8200	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
Hexachlorobenzene	N/A	N/A	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
Hexachlorocyclopentadiene	55000	55000	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
Hexachloroethane	46000	46000	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
Indeno(1,2,3-c,d)Pyrene	870	870	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
n-Nitrosodi-n-propylamine	330	330	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
n-Nitrosodiphenylamine	130000	130000	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
Naphthalene	160000	160000	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
Nitrobenzene	3900	3900	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
p-Chloroaniline	31000	31000	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
p-Nitroaniline	N/A	N/A	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
Pentachlorophenol	5300	5300	N/A	ug/kg	730 U	710 U	750 U	770 U	780 U	810 U	760 U	750 U
Phenanthrene	2300000	2300000	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
Phenol	4700000	4700000	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
Pyrene	230000	230000	N/A	ug/kg	370 U	360 U	380 U	380 U	390 U	410 U	380 U	380 U
Herbicides												
2,2-Dichloropropionic Acid	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-T	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-TP	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA
2,4-D	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA
2,4-DB	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA

SOIL SAMPLE RESULTS

Analyte	MDE Residential	MDE GW Protection	Back-ground	Unit	8-11-5-7 12/22/03	8-12-0-5-2 12/22/03	8-13-15-16.5 12/19/03	9-1-12-16 12/15/03	9-2-8-12 12/15/03	11-1-5-5-7 12/22/03	13-1-3-4-6 12/19/03	13-2-4-8 12/19/03
Herb Contd.												
4-Amino-3,5,6-trichloropicolinic acid	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	63000	63000	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA
Dicamba	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorprop	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrobutyl Phenol	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA
MCPA	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA
MCPP	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	5300	5300	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides/PCB												
4,4-DDD	2700	2700	N/A	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	2 U	2 U	0.41 J	1.9 U
4,4-DDE	1900	1900	N/A	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	2 U	2 U	0.51 J	1.9 U
4,4-DDT	1900	1900	N/A	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	2 U	2 U	1.9 U	1.9 U
Aldrin	38	38	N/A	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	2 U	2 U	1.9 U	1.9 U
alpha-BHC	100	100	N/A	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	2 U	2 U	0.38 JP	1.9 U
alpha-Chlordane	1800	1800	N/A	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	2 U	2 U	1.9 U	1.9 U
beta-BHC	350	350	N/A	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	2 U	2 U	1.9 U	1.9 U
Camphchlor	580	580	N/A	ug/kg	37 U	36 U	38 U	38 U	39 U	41 U	38 U	38 U
Chlordane	N/A	N/A	N/A	ug/kg	37 U	36 U	38 U	38 U	39 U	41 U	38 U	38 U
delta-BHC	490	490	N/A	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	2 U	2 U	1.9 U	1.9 U
Dieldrin	40	40	N/A	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	2 U	2 U	1.9 U	1.9 U
Endosulfan I	47000	47000	N/A	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	2 U	2 U	1.9 U	1.9 U
Endosulfan II	47000	47000	N/A	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	2 U	2 U	1.9 U	1.9 U
Endosulfan Sulfate	47000	47000	N/A	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	2 U	2 U	1.9 U	1.9 U
Endrin	2300	2300	N/A	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	2 U	2 U	1.9 U	1.9 U
Endrin Aldehyde	2300	2300	N/A	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	2 U	2 U	1.9 U	1.9 U
Endrin Ketone	2300	2300	N/A	ug/kg	1.8 U	0.49 J	1.9 U	1.9 U	2 U	2 U	1.9 U	1.9 U
gamma-BHC	490	490	N/A	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	2 U	2 U	0.46 JP	1.9 U
gamma-Chlordane	1800	1800	N/A	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	2 U	2 U	1.9 U	1.9 U
Heptachlor	140	140	N/A	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	2 U	2 U	1.9 U	1.9 U
Heptachlor Epoxide	70	70	N/A	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	2 U	2 U	1.9 U	1.9 U
Methoxychlor	39000	39000	N/A	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	2 U	2 U	1.9 U	1.9 U
PCB-1016	550	550	N/A	ug/kg	37 U	36 U	38 U	38 U	39 U	41 U	38 U	38 U
PCB-1221	320	320	N/A	ug/kg	37 U	36 U	38 U	38 U	39 U	41 U	38 U	38 U
PCB-1232	320	320	N/A	ug/kg	37 U	36 U	38 U	38 U	39 U	41 U	38 U	38 U
PCB-1242	320	320	N/A	ug/kg	37 U	36 U	38 U	38 U	39 U	41 U	38 U	38 U
PCB-1248	320	320	N/A	ug/kg	37 U	36 U	38 U	38 U	39 U	41 U	38 U	38 U
PCB-1254	320	320	N/A	ug/kg	37 U	36 U	38 U	38 U	39 U	41 U	38 U	38 U
PCB-1260	320	320	N/A	ug/kg	37 U	36 U	38 U	38 U	39 U	41 U	38 U	38 U
Explosives												
1,3,5-Trinitrobenzene	N/A	N/A	N/A	ug/kg	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U

SOIL SAMPLE RESULTS

Analyte	MDE Residential		MDE GW Protection		Back-ground	Unit	Sample Name: 8-11-5-7		Sample Name: 8-12-0-5-2		Sample Name: 8-13-15-16.5		Sample Name: 9-1-12-16		Sample Name: 9-2-8-12		Sample Name: 11-5-5-7		Sample Name: 13-1-3-4.6		Sample Name: 13-2-4-8		
	MDE Residential	MDE GW Protection	MDE GW Protection	Back-ground			12/22/03	12/22/03	12/19/03	12/15/03	12/15/03	12/15/03	12/15/03	12/22/03	12/19/03	12/15/03	12/15/03	12/19/03	12/19/03	12/22/03	12/19/03	12/19/03	12/19/03
Exp Contd.																							
2,4,6-Trinitrotoluene	N/A	N/A	N/A	N/A	N/A	ug/kg	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
2,4-Dinitrotoluene	16000	16000	16000	N/A	N/A	ug/kg	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
2,6-Dinitrotoluene	7800	7800	7800	N/A	N/A	ug/kg	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
2-Amino-4,6-dinitrotoluene	N/A	N/A	N/A	N/A	N/A	ug/kg	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
2-Nitrotoluene	N/A	N/A	N/A	N/A	N/A	ug/kg	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
3-Nitrotoluene	N/A	N/A	N/A	N/A	N/A	ug/kg	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
4-Amino-2,6-Dinitrotoluene	N/A	N/A	N/A	N/A	N/A	ug/kg	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
4-Nitrotoluene	N/A	N/A	N/A	N/A	N/A	ug/kg	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
HMX	N/A	N/A	N/A	N/A	N/A	ug/kg	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
m-Dinitrobenzene	N/A	N/A	N/A	N/A	N/A	ug/kg	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Nitrobenzene	3900	3900	3900	N/A	N/A	ug/kg	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
RDX	N/A	N/A	N/A	N/A	N/A	ug/kg	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Tetryl	N/A	N/A	N/A	N/A	N/A	ug/kg	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Metals																							
Aluminum	7800	7800	7800	11000	N/A	mg/kg	1050	2770	364 N	2080	2910	20100	4410 N	2240 N									
Antimony	12	12	12	N/A	N/A	mg/kg	0.28 B	0.24 U	0.19 U	0.29 UN	0.28 UN	0.28 U	0.18 U	0.18 U									
Arsenic	2	2	2	3.6	N/A	mg/kg	0.81 B	1.1 B	1.2 B	1.8 B	1.1 B	6.4	1.7	1.3 B									
Barium	550	550	550	N/A	N/A	mg/kg	3.4	14.5	1.9	7.4	14.7	68.7	21.9	15.9									
Beryllium	16	16	16	N/A	N/A	mg/kg	0.05 B	0.09 B	0.0082 U	0.07 B	0.07 B	0.83	0.05 B	0.03 B									
Cadmium	3.9	3.9	3.9	N/A	N/A	mg/kg	0.03 B	0.04 B	0.02 U	0.01 U	0.01 U	0.34 B	0.02 U	0.02 U									
Calcium	N/A	N/A	N/A	N/A	N/A	mg/kg	30.7 B	243	23.2 B	202	231	386	155	209									
Chromium	23	23	23	28	N/A	mg/kg	2.8 E	3.4 E	1.8 *	6.9	6.3	30.4 E	6.4 *	5.6 *									
Cobalt	160	160	160	N/A	N/A	mg/kg	0.49	0.48	0.04 U	0.16 B	0.07 U	6.9	0.87	0.45									
Copper	310	310	310	N/A	N/A	mg/kg	1.8	3	6.4 *	4.1	1.7	14.2	5.2 *	2.7 *									
Iron	2300	2300	2300	15000	N/A	mg/kg	1810	2690	2260 N*	4240	658	26900	3160 N*	2790 N*									
Lead	400	400	400	N/A	N/A	mg/kg	1.4	3.2	0.55 B	2.5	4.1	10	4.9	6.3									
Magnesium	N/A	N/A	N/A	N/A	N/A	mg/kg	84.3	169	18.4 B	93.7	101	2470	244	130									
Manganese	160	160	160	480	N/A	mg/kg	21.5	32.3	2	6.4	1.6	205	10.8	14.6									
Mercury	0.1	0.1	0.1	0.51	N/A	mg/kg	0.01 U	0.02 B	0.01 U	0.01 U	0.01 U	0.03 B	0.01 U	0.01 U									
Nickel	160	160	160	N/A	N/A	mg/kg	0.54 B	1.2	0.12 U	0.47 B	0.1 U	14.1	1.9	0.87									
Potassium	N/A	N/A	N/A	N/A	N/A	mg/kg	60.2	103	37.6 N	205 N	394 N	890	198 N	267 N									
Selenium	39	39	39	N/A	N/A	mg/kg	0.28 U	0.26 U	0.23 U	0.3 U	0.3 U	0.42 B	0.24 B	0.21 U									
Silver	39	39	39	N/A	N/A	mg/kg	0.05 U	0.05 U	0.04 U	0.06 U	0.06 U	0.06 U	0.04 U	0.03 U									
Sodium	N/A	N/A	N/A	N/A	N/A	mg/kg	54.2 B	51.2 B	47.7 B	62.3 B	76.1 B	77.8 B	42.9 B	46.2 B									
Thallium	2	2	2	3.8	N/A	mg/kg	0.44 U	0.41 U	0.34 U	0.48 U	0.47 U	0.47 U	0.33 U	0.31 U									
Vanadium	55	55	55	N/A	N/A	mg/kg	4.2	6.2	2.7 *	12.8	6.8	40.2	9.1 *	10.2 *									
Zinc	2300	2300	2300	N/A	N/A	mg/kg	1.8	7.9	1.1 B	10.6	0.98 B	38.3	8.2	8									
General Chemistry																							
Oil & Grease, Total Recovered	N/A	N/A	N/A	N/A	N/A	mg/kg	5.3 U	5.2 U	5.5 U	5.6 U	5.7 U	6 U	5.7 U	16									
Percent Solids	N/A	N/A	N/A	N/A	N/A	%	91	94	89	87	85	82	88	89									

SOIL SAMPLE RESULTS

Analyte	MDE Residential		MDE GW Protection		Back-ground	Sample Name:	Sample Date:	Parent Name:	8-11-5-7	8-12-0-5-2	8-13-15-16.5	9-1-12-16	9-2-8-12	11-1-5-5-7	13-1-3-4.6	13-2-4-8	
	Residential	MDE GW Protection	Back-ground	Unit													
Gen Chem Contd.																	
TPH	N/A	N/A	N/A	N/A					5.3 U	5.2 U	5.5 U	5.6 U	5.7 U	6 U	5.7 U	7.6	
TPH-DRO	230	230	230	230					6.6	3.5	4.2	4.6	5.7	4.6	5.9	10	
TPH-GRO	230000	230000	230000	230000					110 U	110 U	110 U	120 U	120 U	120 U	110 U	110 U	

SOIL SAMPLE RESULTS

Analyte	MDE Residential	MDE GW Protection	Back-ground	Sample Name:		Sample Date:		Parent Name:		13A-1-3-5.5	12/16/03	13A-2-6-7.5	12/16/03	14-1-6.5-8	12/16/03	14-2-4-5.5	12/19/03	16-1-3-5	12/22/03	17-1-21.5-23	18-1-2-4				
				13A-1-3-5.5	12/16/03	13A-2-6-7.5	12/16/03	14-2-4-5.5	12/19/03													16-1-3-5	12/22/03	17-1-21.5-23	18-1-2-4
				Unit	Unit	Unit	Unit	Unit	Unit													Unit	Unit	Unit	
VOC																									
1,1,1-Trichloroethane	2200000	2200000	N/A	ug/kg	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U	5.4 U	5.8 U	5.5 U	5.5 U	5.8 U	5.5 U	5.5 U	5.4 U	5.4 U	5.8 U	5.5 U	5.5 U	5.5 U			
1,1,2,2-Tetrachloroethane	3200	3200	N/A	ug/kg	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U	5.4 U	5.8 U	5.5 U	5.5 U	5.8 U	5.5 U	5.5 U	5.4 U	5.4 U	5.8 U	5.5 U	5.5 U	5.5 U			
1,1,2-Trichloroethane	11000	11000	N/A	ug/kg	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U	5.4 U	5.8 U	5.5 U	5.5 U	5.8 U	5.5 U	5.5 U	5.4 U	5.4 U	5.8 U	5.5 U	5.5 U	5.5 U			
1,1-Dichloroethane	780000	780000	N/A	ug/kg	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U	5.4 U	5.8 U	5.5 U	5.5 U	5.8 U	5.5 U	5.5 U	5.4 U	5.4 U	5.8 U	5.5 U	5.5 U	5.5 U			
1,1,1-Dichloroethylene	1100	1100	N/A	ug/kg	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U	5.4 U	5.8 U	5.5 U	5.5 U	5.8 U	5.5 U	5.5 U	5.4 U	5.4 U	5.8 U	5.5 U	5.5 U	5.5 U			
1,2,4-Trichlorobenzene	78000	78000	N/A	ug/kg	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U	5.4 U	5.8 U	5.5 U	5.5 U	5.8 U	5.5 U	5.5 U	5.4 U	5.4 U	5.8 U	5.5 U	5.5 U	5.5 U			
1,2-Dibromo-3-chloropropane	460	460	N/A	ug/kg	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U	5.4 U	5.8 U	5.5 U	5.5 U	5.8 U	5.5 U	5.5 U	5.4 U	5.4 U	5.8 U	5.5 U	5.5 U	5.5 U			
1,2-Dichlorobenzene	700000	700000	N/A	ug/kg	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U	5.4 U	5.8 U	5.5 U	5.5 U	5.8 U	5.5 U	5.5 U	5.4 U	5.4 U	5.8 U	5.5 U	5.5 U	5.5 U			
1,2-Dichloroethane	7000	7000	N/A	ug/kg	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U	5.4 U	5.8 U	5.5 U	5.5 U	5.8 U	5.5 U	5.5 U	5.4 U	5.4 U	5.8 U	5.5 U	5.5 U	5.5 U			
1,2-Dichloropropane	9400	9400	N/A	ug/kg	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U	5.4 U	5.8 U	5.5 U	5.5 U	5.8 U	5.5 U	5.5 U	5.4 U	5.4 U	5.8 U	5.5 U	5.5 U	5.5 U			
1,4-Dichlorobenzene	27000	27000	N/A	ug/kg	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U	5.4 U	5.8 U	5.5 U	5.5 U	5.8 U	5.5 U	5.5 U	5.4 U	5.4 U	5.8 U	5.5 U	5.5 U	5.5 U			
2-Butanone	4700000	4700000	N/A	ug/kg	11 U	11 U	11 U	11 U	11 U	11 U	12 U	11 U	11 U	12 U	11 U	11 U	11 U	11 U	12 U	11 U	11 U	11 U			
4-Methyl-2-Pentanone	630000	630000	N/A	ug/kg	11 U	11 U	11 U	11 U	11 U	11 U	12 U	11 U	11 U	12 U	11 U	11 U	11 U	11 U	12 U	11 U	11 U	11 U			
Acetone	N/A	N/A	N/A	ug/kg	11 U	11 U	11 U	11 U	11 U	11 U	12 U	11 U	11 U	12 U	11 U	11 U	11 U	11 U	12 U	11 U	11 U	11 U			
Benzene	12000	12000	N/A	ug/kg	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U	5.4 U	5.8 U	5.5 U	5.5 U	5.8 U	5.5 U	5.5 U	5.4 U	5.4 U	5.8 U	5.5 U	5.5 U	5.5 U			
Bromodichloromethane	10000	10000	N/A	ug/kg	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U	5.4 U	5.8 U	5.5 U	5.5 U	5.8 U	5.5 U	5.5 U	5.4 U	5.4 U	5.8 U	5.5 U	5.5 U	5.5 U			
Bromomethane	11000	11000	N/A	ug/kg	11 U	11 U	11 U	11 U	11 U	11 U	12 U	11 U	11 U	12 U	11 U	11 U	11 U	11 U	12 U	11 U	11 U	11 U			
Carbon Disulfide	780000	780000	N/A	ug/kg	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U	5.4 U	5.8 U	5.5 U	5.5 U	5.8 U	5.5 U	5.5 U	5.4 U	5.4 U	5.8 U	5.5 U	5.5 U	5.5 U			
Carbon Tetrachloride	4900	4900	N/A	ug/kg	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U	5.4 U	5.8 U	5.5 U	5.5 U	5.8 U	5.5 U	5.5 U	5.4 U	5.4 U	5.8 U	5.5 U	5.5 U	5.5 U			
CFC-11	N/A	N/A	N/A	ug/kg	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U	5.4 U	5.8 U	5.5 U	5.5 U	5.8 U	5.5 U	5.5 U	5.4 U	5.4 U	5.8 U	5.5 U	5.5 U	5.5 U			
CFC-12	N/A	N/A	N/A	ug/kg	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U	5.4 U	5.8 U	5.5 U	5.5 U	5.8 U	5.5 U	5.5 U	5.4 U	5.4 U	5.8 U	5.5 U	5.5 U	5.5 U			
Chlorobenzene	160000	160000	N/A	ug/kg	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U	5.4 U	5.8 U	5.5 U	5.5 U	5.8 U	5.5 U	5.5 U	5.4 U	5.4 U	5.8 U	5.5 U	5.5 U	5.5 U			
Chlorodibromomethane	7600	7600	N/A	ug/kg	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U	5.4 U	5.8 U	5.5 U	5.5 U	5.8 U	5.5 U	5.5 U	5.4 U	5.4 U	5.8 U	5.5 U	5.5 U	5.5 U			
Chloroethane	220000	220000	N/A	ug/kg	11 U	11 U	11 U	11 U	11 U	11 U	12 U	11 U	11 U	12 U	11 U	11 U	11 U	11 U	12 U	11 U	11 U	11 U			
Chloroform	100000	100000	N/A	ug/kg	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U	5.4 U	5.8 U	5.5 U	5.5 U	5.8 U	5.5 U	5.5 U	5.4 U	5.4 U	5.8 U	5.5 U	5.5 U	5.5 U			
Chloromethane	49000	49000	N/A	ug/kg	11 U	11 U	11 U	11 U	11 U	11 U	12 U	11 U	11 U	12 U	11 U	11 U	11 U	11 U	12 U	11 U	11 U	11 U			
cis-1,2-Dichloroethene	78000	78000	N/A	ug/kg	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U	5.4 U	5.8 U	5.5 U	5.5 U	5.8 U	5.5 U	5.5 U	5.4 U	5.4 U	5.8 U	5.5 U	5.5 U	5.5 U			
cis-1,3-Dichloropropene	6400	6400	N/A	ug/kg	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U	5.4 U	5.8 U	5.5 U	5.5 U	5.8 U	5.5 U	5.5 U	5.4 U	5.4 U	5.8 U	5.5 U	5.5 U	5.5 U			
Cyclohexane	N/A	N/A	N/A	ug/kg	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U	5.4 U	5.8 U	5.5 U	5.5 U	5.8 U	5.5 U	5.5 U	5.4 U	5.4 U	5.8 U	5.5 U	5.5 U	5.5 U			
Methylene Chloride	85000	85000	N/A	ug/kg	3 JB	3.2 JB	2.8 JB	2.9 JB	5.4 JB	6.8 JB	8 JB	5.4 JB	5.4 JB	8 JB	6.5 JB	5.4 JB	5.4 JB	5.4 JB	8 JB	6.5 JB	5.4 JB	5.4 JB			
Ethylbenzene	780000	780000	N/A	ug/kg	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U	5.4 U	5.8 U	5.5 U	5.5 U	5.8 U	5.5 U	5.5 U	5.4 U	5.4 U	5.8 U	5.5 U	5.5 U	5.5 U			
Ethylene Dibromide	7.5	7.5	N/A	ug/kg	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U	5.4 U	5.8 U	5.5 U	5.5 U	5.8 U	5.5 U	5.5 U	5.4 U	5.4 U	5.8 U	5.5 U	5.5 U	5.5 U			
Freon 113	N/A	N/A	N/A	ug/kg	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U	5.4 U	5.8 U	5.5 U	5.5 U	5.8 U	5.5 U	5.5 U	5.4 U	5.4 U	5.8 U	5.5 U	5.5 U	5.5 U			
Isopropylbenzene	780000	780000	N/A	ug/kg	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U	5.4 U	5.8 U	5.5 U	5.5 U	5.8 U	5.5 U	5.5 U	5.4 U	5.4 U	5.8 U	5.5 U	5.5 U	5.5 U			
m-Dichlorobenzene	230000	230000	N/A	ug/kg	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U	5.4 U	5.8 U	5.5 U	5.5 U	5.8 U	5.5 U	5.5 U	5.4 U	5.4 U	5.8 U	5.5 U	5.5 U	5.5 U			
Methyl Acetate	N/A	N/A	N/A	ug/kg	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U	5.4 U	5.8 U	5.5 U	5.5 U	5.8 U	5.5 U	5.5 U	5.4 U	5.4 U	5.8 U	5.5 U	5.5 U	5.5 U			
Methyl n-Butyl Ketone	310000	310000	N/A	ug/kg	11 U	11 U	11 U	11 U	11 U	11 U	12 U	11 U	11 U	12 U	11 U	11 U	11 U	11 U	12 U	11 U	11 U	11 U			
Methylbenzene	1600000	1600000	N/A	ug/kg	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U	5.4 U	5.8 U	5.5 U	5.5 U	5.8 U	5.5 U	5.5 U	5.4 U	5.4 U	5.8 U	5.5 U	5.5 U	5.5 U			
Methylcyclohexane	N/A	N/A	N/A	ug/kg	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U	5.4 U	5.8 U	5.5 U	5.5 U	5.8 U	5.5 U	5.5 U	5.4 U	5.4 U	5.8 U	5.5 U	5.5 U	5.5 U			
Styrene	1600000	1600000	N/A	ug/kg	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U	5.4 U	5.8 U	5.5 U	5.5 U	5.8 U	5.5 U	5.5 U	5.4 U	5.4 U	5.8 U	5.5 U	5.5 U	5.5 U			

SOIL SAMPLE RESULTS

Analyte	MDE Residential	MDE GW Protection	Back-ground	Sample Name:		Sample Date:		Parent Name:				
				13A-1-3-5.5	SO-DUPI	13A-2-6-7.5	14-1-6.5-8	14-2-4-5.5	16-1-3-5	17-1-21.5-23	18-1-2-4	
				12/16/03	12/16/03	12/16/03	12/16/03	12/16/03	12/19/03	12/22/03	12/19/03	12/22/03
				13A-1-3-5.5								
			Unit									
VOC Contd.												
tert-butyl methyl ether	650000	650000	N/A	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U	5.4 U	5.8 U	5.5 U	5.5 U
Tetrachloroethylene	12000	12000	N/A	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U	5.4 U	5.8 U	5.5 U	5.5 U
trans-1,2-dichloroethene	160000	160000	N/A	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U	5.4 U	5.8 U	5.5 U	5.5 U
trans-1,3-dichloropropene	6400	6400	N/A	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U	5.4 U	5.8 U	5.5 U	5.5 U
Tribromomethane	81000	81000	N/A	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U	5.4 U	5.8 U	5.5 U	5.5 U
Trichloroethylene	58000	58000	N/A	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U	5.4 U	5.8 U	5.5 U	5.5 U
Vinyl Chloride	90	90	N/A	11 U	11 U	11 U	11 U	11 U	11 U	12 U	11 U	11 U
Xylenes, Total	16000000	16000000	N/A	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U	5.4 U	5.8 U	5.5 U	5.5 U
SVOC												
1,1-Biphenyl	N/A	N/A	N/A	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U	370 U
1,2-Benzophenanthracene	87000	87000	N/A	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U	370 U
2,2-Oxybis(1-Chloropropane)	9100	9100	N/A	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U	370 U
2,4,5-Trichlorophenol	780000	780000	N/A	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U	370 U
2,4,6-Trichlorophenol	58000	58000	N/A	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U	370 U
2,4-Dichlorophenol	23000	23000	N/A	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U	370 U
2,4-Dimethylphenol	160000	160000	N/A	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U	370 U
2,4-Dinitrophenol	16000	16000	N/A	760 U	760 U	750 U	710 U	730 U	720 U	780 U	740 U	740 U
2,4-Dinitrotoluene	16000	16000	N/A	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U	370 U
2,6-Dinitrotoluene	7800	7800	N/A	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U	370 U
2-Chloronaphthalene	630000	630000	N/A	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U	370 U
2-Chlorophenol	39000	39000	N/A	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U	370 U
2-Methylnaphthalene	160000	160000	N/A	380 U	380 U	42 J	350 U	370 U	360 U	390 U	370 U	370 U
2-Methylphenol	390000	390000	N/A	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U	370 U
2-Nitroaniline	N/A	N/A	N/A	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U	370 U
2-Nitrophenol	63000	63000	N/A	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U	370 U
3,3'-Dichlorobenzidine	1400	1400	N/A	760 U	760 U	750 U	710 U	730 U	720 U	780 U	740 U	740 U
3,5,5-Trimethyl-2-cyclohexene-1-one	670000	670000	N/A	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U	370 U
3-Nitroaniline	N/A	N/A	N/A	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U	370 U
4,6-Dinitro-2-methyl phenol	780	780	N/A	760 U	760 U	750 U	710 U	730 U	720 U	780 U	740 U	740 U
4-Bromophenyl Phenyl Ether	N/A	N/A	N/A	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U	370 U
4-Chloro-3-methylphenol	N/A	N/A	N/A	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U	370 U
4-Chlorophenyl Phenyl Ether	N/A	N/A	N/A	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U	370 U
4-Methylphenol	39000	39000	N/A	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U	370 U
4-Nitrophenol	63000	63000	N/A	760 U	760 U	750 U	710 U	730 U	720 U	780 U	740 U	740 U
Acenaphthene	470000	470000	N/A	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U	370 U
Acenaphthylene	470000	470000	N/A	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U	370 U
Acetophenone	N/A	N/A	N/A	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U	370 U
Anthracene	2300000	2300000	N/A	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U	370 U
Atrazine	2900	2900	N/A	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U	370 U
Benzaldehyde	N/A	N/A	N/A	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U	370 U

SOIL SAMPLE RESULTS

Analyte	MDE Residential	MDE GW Protection	Back-ground	Unit	Sample Name:							18-1-2-4
					13A-1-3-5.5	SO-DUPI	13A-2-6-7.5	14-1-6-5-8	14-2-4-5.5	16-1-3-5	17-1-21.5-23	
					12/16/03	12/16/03	12/16/03	12/16/03	12/19/03	12/22/03	12/19/03	12/22/03
					13A-1-3-5.5	13A-1-3-5.5	13A-1-3-5.5	13A-1-3-5.5	13A-1-3-5.5	13A-1-3-5.5	13A-1-3-5.5	13A-1-3-5.5
SVOC Contd												
Benzo(a)anthracene	870	870	N/A	ug/kg	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U
Benzo(a)pyrene	330	330	N/A	ug/kg	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U
Benzo(b)fluoranthene	870	870	N/A	ug/kg	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U
Benzo(g,h,i)perylene	230000	230000	N/A	ug/kg	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U
Benzo(k)fluoranthene	8700	8700	N/A	ug/kg	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U
Benzyl Butyl Phthalate	N/A	N/A	N/A	ug/kg	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U
bis(2-Chloroethoxy) Methane	N/A	N/A	N/A	ug/kg	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U
bis(2-Chloroethyl) Ether	580	580	N/A	ug/kg	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U
bis(2-Ethylhexyl) Phthalate	46000	46000	N/A	ug/kg	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U
Caprolactam	N/A	N/A	N/A	ug/kg	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U
Carbazole	32000	32000	N/A	ug/kg	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U
di-n-Butyl Phthalate	780000	780000	N/A	ug/kg	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U
di-n-Octyl Phthalate	160000	160000	N/A	ug/kg	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U
Dibenz(a,h)anthracene	330	330	N/A	ug/kg	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U
Dibenzofuran	31000	31000	N/A	ug/kg	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U
Diethyl Phthalate	6300000	6300000	N/A	ug/kg	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U
Dimethyl phthalate	78000000	78000000	N/A	ug/kg	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U
Fluoranthene	310000	310000	N/A	ug/kg	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U
Fluorene	310000	310000	N/A	ug/kg	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U
Hexachloro-1,3-butadiene	8200	8200	N/A	ug/kg	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U
Hexachlorobenzene	N/A	N/A	N/A	ug/kg	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U
Hexachlorocyclopentadiene	55000	55000	N/A	ug/kg	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U
Hexachloroethane	46000	46000	N/A	ug/kg	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U
Indeno(1,2,3-c,d)Pyrene	870	870	N/A	ug/kg	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U
n-Nitrosodi-n-propylamine	330	330	N/A	ug/kg	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U
n-Nitrosodiphenylamine	130000	130000	N/A	ug/kg	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U
Naphthalene	160000	160000	N/A	ug/kg	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U
Nitrobenzene	3900	3900	N/A	ug/kg	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U
p-Chloroaniline	31000	31000	N/A	ug/kg	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U
p-Nitroaniline	N/A	N/A	N/A	ug/kg	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U
Pentachlorophenol	5300	5300	N/A	ug/kg	760 U	760 U	750 U	710 U	730 U	720 U	780 U	740 U
Phenanthrene	2300000	2300000	N/A	ug/kg	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U
Phenol	4700000	4700000	N/A	ug/kg	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U
Pyrene	230000	230000	N/A	ug/kg	380 U	380 U	380 U	350 U	370 U	360 U	390 U	370 U
Herbicides												
2,2-Dichloropropionic Acid	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-T	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-TP	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA
2,4-D	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA
2,4-DB	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA

SOIL SAMPLE RESULTS

Analyte	MDE Residential	MDE GW Protection	Back-ground	Unit	Sample Name: 13A-1-3-5.5		Sample Date: 12/16/03		Parent Name: 13A-1-3-5.5		13A-2-6-7.5		14-1-6-5-8		14-2-4-5.5		16-1-3-5		17-1-21.5-23		18-1-2-4		
					12/16/03	12/16/03	12/16/03	12/16/03	12/16/03	12/16/03	12/16/03	12/16/03	12/16/03	12/16/03	12/16/03	12/16/03	12/16/03	12/16/03	12/16/03	12/16/03	12/16/03	12/16/03	12/16/03
Herb Contd.																							
4-Amino-3,5,6-trichloropicolinic acid	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	63000	63000	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dicamba	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorprop	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrobutyl Phenol	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MCPA	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MCPP	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	5300	5300	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides/PCB																							
4,4-DDD	2700	2700	N/A	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
4,4-DDE	1900	1900	N/A	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
4,4-DDT	1900	1900	N/A	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Aldrin	38	38	N/A	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
alpha-BHC	100	100	N/A	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
alpha-Chlordane	1800	1800	N/A	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
beta-BHC	350	350	N/A	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Camphechlor	580	580	N/A	ug/kg	38 U	38 U	38 U	38 U	38 U	38 U	38 U	38 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U
Chlordane	N/A	N/A	N/A	ug/kg	38 U	38 U	38 U	38 U	38 U	38 U	38 U	38 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U
delta-BHC	490	490	N/A	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Dieldrin	40	40	N/A	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Endosulfan I	47000	47000	N/A	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Endosulfan II	47000	47000	N/A	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Endosulfan Sulfate	47000	47000	N/A	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Endrin	2300	2300	N/A	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Endrin Aldehyde	2300	2300	N/A	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Endrin Ketone	2300	2300	N/A	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
gamma-BHC	490	490	N/A	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
gamma-Chlordane	1800	1800	N/A	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Heptachlor	140	140	N/A	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Heptachlor Epoxide	70	70	N/A	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Methoxychlor	39000	39000	N/A	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
PCB-1016	550	550	N/A	ug/kg	38 U	38 U	38 U	38 U	38 U	38 U	38 U	38 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U
PCB-1221	320	320	N/A	ug/kg	38 U	38 U	38 U	38 U	38 U	38 U	38 U	38 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U
PCB-1232	320	320	N/A	ug/kg	38 U	38 U	38 U	38 U	38 U	38 U	38 U	38 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U
PCB-1242	320	320	N/A	ug/kg	38 U	38 U	38 U	38 U	38 U	38 U	38 U	38 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U
PCB-1248	320	320	N/A	ug/kg	38 U	38 U	38 U	38 U	38 U	38 U	38 U	38 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U
PCB-1254	320	320	N/A	ug/kg	38 U	38 U	38 U	38 U	38 U	38 U	38 U	38 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U
PCB-1260	320	320	N/A	ug/kg	38 U	38 U	38 U	38 U	38 U	38 U	38 U	38 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U
Explosives																							
1,3,5-Trinitrobenzene	N/A	N/A	N/A	ug/kg	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U

SOIL SAMPLE RESULTS

Analyte	MDE Residential	MDE GW Protection	Back-ground	Unit	Sample Name:		Sample Date:		Parent Name:				
					SO-DUPI	13A-2-6-7.5	14-1-6.5-8	14-2-4-5.5	16-1-3-5	17-1-21.5-23	18-1-2-4		
Exp Contd.					13A-1-3-5.5	12/16/03	13A-1-3-5.5	12/16/03	14-2-4-5.5	12/19/03	16-1-3-5	12/22/03	18-1-2-4
2,4,6-Trinitrotoluene	N/A	N/A	N/A	ug/kg	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
2,4-Dinitrotoluene	16000	16000	N/A	ug/kg	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
2,6-Dinitrotoluene	7800	7800	N/A	ug/kg	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
2-Amino-4,6-dinitrotoluene	N/A	N/A	N/A	ug/kg	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
2-Nitrotoluene	N/A	N/A	N/A	ug/kg	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
3-Nitrotoluene	N/A	N/A	N/A	ug/kg	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
4-Amino-2,6-Dinitrotoluene	N/A	N/A	N/A	ug/kg	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
4-Nitrotoluene	N/A	N/A	N/A	ug/kg	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
HMX	N/A	N/A	N/A	ug/kg	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
m-Dinitrobenzene	N/A	N/A	N/A	ug/kg	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Nitrobenzene	3900	3900	N/A	ug/kg	38 J	88 J	100 U	100 U	51 J	100 U	100 U	100 U	100 U
RDX	N/A	N/A	N/A	ug/kg	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Tetryl	N/A	N/A	N/A	ug/kg	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Metals													
Aluminum	7800	7800	11000	mg/kg	3180	2900	3420	10900	649 N	4030	241 N	4090	4090
Antimony	12	12	N/A	mg/kg	0.26 BN	0.22 UN	0.25 UN	0.24 UN	0.17 B	1.8	0.2 U	0.3 B	0.3 B
Arsenic	2	2	3.6	mg/kg	1.6	1.7	2.2	2.3	3.9	2.1	1.1 B	2.2	2.2
Barium	550	550	N/A	mg/kg	20.4	30.8	12.7	38.7	2.5	14.9	1.1	14.5	14.5
Beryllium	16	16	N/A	mg/kg	0.13 B	0.12 B	0.13 B	0.42	0.0062 U	0.14 B	0.0086 U	0.15 B	0.15 B
Cadmium	3.9	3.9	N/A	mg/kg	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.08 B	0.02 U	0.09 B	0.09 B
Calcium	N/A	N/A	N/A	mg/kg	133	116	142	488	50.5 B	60.3 B	16 B	209	209
Chromium	23	23	28	mg/kg	12.6	12.2	8.4	11.8	8.7 *	6.3 E	1.5 *	7.3 E	7.3 E
Cobalt	160	160	N/A	mg/kg	0.13 B	0.14 B	1	3.3	0.09 B	1.4	0.04 U	1.3	1.3
Copper	310	310	N/A	mg/kg	12.3	12.3	6.8	7.8	3.8 *	30.3	1.6 *	4.2	4.2
Iron	2300	2300	15000	mg/kg	1590	1980	4710	10100	5000 N*	4980	4450 N*	5790	5790
Lead	400	400	N/A	mg/kg	6.6	5.9	3.6	5	1	364	0.44 B	3.9	3.9
Magnesium	N/A	N/A	N/A	mg/kg	80.1	75.6	220	1400	28.1	288	7.9 B	356	356
Manganese	160	160	480	mg/kg	3.6	4.4	21.4	98	3.5	33.8	0.9	32.3	32.3
Mercury	0.1	0.1	0.51	mg/kg	0.01 U	0.01 U	0.02 B	0.01 U	0.01 U	0.01 U	0.01 U	0.01 B	0.01 B
Nickel	160	160	N/A	mg/kg	0.4 B	0.49 B	1.5	7.7	0.13 B	9.9	0.13 U	2.5	2.5
Potassium	N/A	N/A	N/A	mg/kg	612 N	514 N	333 N	593 N	37.7 N	150	32 N	185	185
Selenium	39	39	N/A	mg/kg	0.25 U	0.23 U	0.26 U	0.4 B	0.17 U	0.26 U	0.24 U	0.27 U	0.27 U
Silver	39	39	N/A	mg/kg	0.05 U	0.04 U	0.05 U	0.05 U	0.03 U	0.05 U	0.04 U	0.05 U	0.05 U
Sodium	N/A	N/A	N/A	mg/kg	60.9 B	49.4 B	57.9 B	92 B	32.8 B	67.2 B	44.8 B	58.2 B	58.2 B
Thallium	2	2	3.8	mg/kg	0.39 U	0.37 U	0.41 U	0.4 U	0.25 U	0.42 U	0.35 U	0.43 U	0.43 U
Vanadium	55	55	N/A	mg/kg	23.1	20.1	14.9	21	7.2 *	10	2.3 *	11	11
Zinc	2300	2300	N/A	mg/kg	4.6	5.6	5.1	22.2	1.9	8.6	1.3 B	8.3	8.3
General Chemistry													
Oil & Grease, Total Recovered	N/A	N/A	N/A	mg/kg	5.6 U	5.5 U	5.6 U	5.1 U	8.5	5.2 U	6.5	5.5 U	5.5 U
Percent Solids	N/A	N/A	N/A	%	88	87	89	94	91	93	86	90	90

SOIL SAMPLE RESULTS

Analyte	MDE Residential	MDE GW Protection	Parent Name:	Sample Name:	Back-ground		Unit												
					ground	Unit	ground	Unit											
Gen Chem Contd.																			
TPH	N/A	N/A	N/A	13A-1-3-5.5	SO-DUPI	13A-2-6-7.5	14-1-6.5-8	14-2-4-5.5	16-1-3-5	17-1-21.5-23	18-1-2-4								
TPH-DRO	230	230	N/A	12/16/03	12/16/03	12/16/03	12/16/03	12/19/03	12/22/03	12/19/03	12/22/03								
TPH-GRO	230000	230000	N/A	13A-1-3-5.5	13A-1-3-5.5	110 U	110 U	110 U	110 U	110 U	110 U	5.6 U	5.1 U	5.4 U	5.2 U	5.8 U	5.5 U		
						4.6	4	3.5	8	4.9	3.2								
						110 U	110 U	110 U	110 U	120 U	110 U								

SOIL SAMPLE RESULTS

Analyte	MDE Residential		MDE GW Protection		Back-ground	Unit	GREEN-SS-1	GREEN-SS-2	GREEN-DUPI	GREEN-SS-3	GREEN-SS-4	GREEN-SS-5
							12/18/03	12/18/03	12/18/03	12/18/03	12/18/03	12/18/03
VOC Contd.												
tert-butyl methyl ether	650000	650000	N/A	ug/kg			NA	NA	NA	NA	NA	NA
Tetrachloroethylene	12000	12000	N/A	ug/kg			NA	NA	NA	NA	NA	NA
trans-1,2-dichloroethene	160000	160000	N/A	ug/kg			NA	NA	NA	NA	NA	NA
trans-1,3-dichloropropene	6400	6400	N/A	ug/kg			NA	NA	NA	NA	NA	NA
Tribromomethane	81000	81000	N/A	ug/kg			NA	NA	NA	NA	NA	NA
Trichloroethylene	58000	58000	N/A	ug/kg			NA	NA	NA	NA	NA	NA
Vinyl Chloride	90	90	N/A	ug/kg			NA	NA	NA	NA	NA	NA
Xylenes, Total	16000000	16000000	N/A	ug/kg			NA	NA	NA	NA	NA	NA
SVOC												
1,1-Biphenyl	N/A	N/A	N/A	ug/kg			NA	NA	NA	NA	NA	NA
1,2-Benzphenanthracene	87000	87000	N/A	ug/kg			NA	NA	NA	NA	NA	NA
2,2-Oxybis(1-Chloropropane)	9100	9100	N/A	ug/kg			NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	780000	780000	N/A	ug/kg			NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	58000	58000	N/A	ug/kg			NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	23000	23000	N/A	ug/kg			NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	160000	160000	N/A	ug/kg			NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	16000	16000	N/A	ug/kg			NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	16000	16000	N/A	ug/kg			NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	7800	7800	N/A	ug/kg			NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	630000	630000	N/A	ug/kg			NA	NA	NA	NA	NA	NA
2-Chlorophenol	39000	39000	N/A	ug/kg			NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	160000	160000	N/A	ug/kg			NA	NA	NA	NA	NA	NA
2-Methylphenol	390000	390000	N/A	ug/kg			NA	NA	NA	NA	NA	NA
2-Nitroaniline	N/A	N/A	N/A	ug/kg			NA	NA	NA	NA	NA	NA
2-Nitrophenol	63000	63000	N/A	ug/kg			NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	1400	1400	N/A	ug/kg			NA	NA	NA	NA	NA	NA
3,5,5'-Trimethyl-2-cyclohexene-1-one	670000	670000	N/A	ug/kg			NA	NA	NA	NA	NA	NA
3-Nitroaniline	N/A	N/A	N/A	ug/kg			NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methyl phenol	780	780	N/A	ug/kg			NA	NA	NA	NA	NA	NA
4-Bromophenyl Phenyl Ether	N/A	N/A	N/A	ug/kg			NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	N/A	N/A	N/A	ug/kg			NA	NA	NA	NA	NA	NA
4-Chlorophenyl Phenyl Ether	N/A	N/A	N/A	ug/kg			NA	NA	NA	NA	NA	NA
4-Methylphenol	39000	39000	N/A	ug/kg			NA	NA	NA	NA	NA	NA
4-Nitrophenol	63000	63000	N/A	ug/kg			NA	NA	NA	NA	NA	NA
Acenaphthene	470000	470000	N/A	ug/kg			NA	NA	NA	NA	NA	NA
Acenaphthylene	470000	470000	N/A	ug/kg			NA	NA	NA	NA	NA	NA
Acetophenone	N/A	N/A	N/A	ug/kg			NA	NA	NA	NA	NA	NA
Anthracene	2300000	2300000	N/A	ug/kg			NA	NA	NA	NA	NA	NA
Atrazine	2900	2900	N/A	ug/kg			NA	NA	NA	NA	NA	NA
Benzaldehyde	N/A	N/A	N/A	ug/kg			NA	NA	NA	NA	NA	NA

SOIL SAMPLE RESULTS

Analyte	MDE Residential	MDE GW Protection	Back-ground	Unit	Sample Name:	GREEN-SS-1	GREEN-SS-2	GREEN-DUPI	GREEN-SS-3	GREEN-SS-4	GREEN-SS-5
					12/18/03	12/18/03	12/18/03	12/18/03	12/18/03	12/18/03	
					Parent Name:			GREEN-SS-2			
SVOC Contd											
Benzo(a)anthracene	870	870	N/A	ug/kg		NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	330	330	N/A	ug/kg		NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	870	870	N/A	ug/kg		NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	230000	230000	N/A	ug/kg		NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	8700	8700	N/A	ug/kg		NA	NA	NA	NA	NA	NA
Benzyl Butyl Phthalate	N/A	N/A	N/A	ug/kg		NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy) Methane	N/A	N/A	N/A	ug/kg		NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl) Ether	580	580	N/A	ug/kg		NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl) Phthalate	46000	46000	N/A	ug/kg		NA	NA	NA	NA	NA	NA
Caprolactam	N/A	N/A	N/A	ug/kg		NA	NA	NA	NA	NA	NA
Carbazole	32000	32000	N/A	ug/kg		NA	NA	NA	NA	NA	NA
di-n-Butyl Phthalate	780000	780000	N/A	ug/kg		NA	NA	NA	NA	NA	NA
di-n-Octyl Phthalate	160000	160000	N/A	ug/kg		NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	330	330	N/A	ug/kg		NA	NA	NA	NA	NA	NA
Dibenzofuran	31000	31000	N/A	ug/kg		NA	NA	NA	NA	NA	NA
Diethyl Phthalate	6300000	6300000	N/A	ug/kg		NA	NA	NA	NA	NA	NA
Dimethyl phthalate	78000000	78000000	N/A	ug/kg		NA	NA	NA	NA	NA	NA
Fluoranthene	310000	310000	N/A	ug/kg		NA	NA	NA	NA	NA	NA
Fluorene	310000	310000	N/A	ug/kg		NA	NA	NA	NA	NA	NA
Hexachloro-1,3-butadiene	8200	8200	N/A	ug/kg		NA	NA	NA	NA	NA	NA
Hexachlorobenzene	N/A	N/A	N/A	ug/kg		NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	55000	55000	N/A	ug/kg		NA	NA	NA	NA	NA	NA
Hexachloroethane	46000	46000	N/A	ug/kg		NA	NA	NA	NA	NA	NA
Indeno(1,2,3-c,d)Pyrene	870	870	N/A	ug/kg		NA	NA	NA	NA	NA	NA
n-Nitrosodi-n-propylamine	330	330	N/A	ug/kg		NA	NA	NA	NA	NA	NA
n-Nitrosodiphenylamine	130000	130000	N/A	ug/kg		NA	NA	NA	NA	NA	NA
Naphthalene	160000	160000	N/A	ug/kg		NA	NA	NA	NA	NA	NA
Nitrobenzene	3900	3900	N/A	ug/kg		NA	NA	NA	NA	NA	NA
p-Chloroaniline	31000	31000	N/A	ug/kg		NA	NA	NA	NA	NA	NA
p-Nitroaniline	N/A	N/A	N/A	ug/kg		NA	NA	NA	NA	NA	NA
Pentachlorophenol	5300	5300	N/A	ug/kg		NA	NA	NA	NA	NA	NA
Phenanthrene	2300000	2300000	N/A	ug/kg		NA	NA	NA	NA	NA	NA
Phenol	4700000	4700000	N/A	ug/kg		NA	NA	NA	NA	NA	NA
Pyrene	230000	230000	N/A	ug/kg		NA	NA	NA	NA	NA	NA
Herbicides											
2,2-Dichloropropionic Acid	N/A	N/A	N/A	ug/kg		130 U	130 U	130 U	140 U	130 U	130 U
2,4,5-T	N/A	N/A	N/A	ug/kg		130 U	130 U	130 U	140 U	130 U	130 U
2,4,5-TP	N/A	N/A	N/A	ug/kg		130 U	130 U	130 U	140 U	130 U	130 U
2,4-D	N/A	N/A	N/A	ug/kg		130 U	130 U	130 U	140 U	130 U	130 U
2,4-DB	N/A	N/A	N/A	ug/kg		130 U	130 U	130 U	140 U	130 U	130 U

SOIL SAMPLE RESULTS

Analyte	MDE Residential	MDE GW Protection	Back-ground	Unit	Sample Name:					
					GREEN-SS-1	GREEN-SS-2	GREEN-DUPI	GREEN-SS-3	GREEN-SS-4	GREEN-SS-5
					12/18/03	12/18/03	12/18/03	12/18/03	12/18/03	12/18/03
Herb Contd.										
4-Amino-3,5,6-trichloropicolinic acid	N/A	N/A	N/A	ug/kg	130 U	130 U	130 U	140 U	130 U	130 U
4-Nitrophenol	63000	63000	N/A	ug/kg	130 U	130 U	130 U	140 U	130 U	130 U
Dicamba	N/A	N/A	N/A	ug/kg	130 U	130 U	130 U	140 U	130 U	130 U
Dichlorprop	N/A	N/A	N/A	ug/kg	130 U	130 U	130 U	140 U	130 U	130 U
Dinitrobutyl Phenol	N/A	N/A	N/A	ug/kg	130 U	130 U	130 U	140 U	130 U	130 U
MCPA	N/A	N/A	N/A	ug/kg	13000 U	13000 U	13000 U	14000 U	13000 U	13000 U
MCPP	N/A	N/A	N/A	ug/kg	13000 U	13000 U	13000 U	14000 U	13000 U	13000 U
Pentachlorophenol	5300	5300	N/A	ug/kg	130 U	130 U	130 U	140 U	130 U	130 U
Pesticides/PCB										
4,4-DDD	2700	2700	N/A	ug/kg	220 U	11 U	11 U	110 U	2.2 U	110 U
4,4-DDE	1900	1900	N/A	ug/kg	82 J	11 U	11 U	110 U	2.2 U	70 JP
4,4-DDT	1900	1900	N/A	ug/kg	220 U	11 U	11 U	110 U	2.2 U	55 J
Aldrin	38	38	N/A	ug/kg	220 U	11 U	11 U	110 U	2.2 U	110 U
alpha-BHC	100	100	N/A	ug/kg	220 U	11 U	11 U	110 U	2.2 U	110 U
alpha-Chlordane	1800	1800	N/A	ug/kg	2300	200 P	180 P	2200	900	1300
beta-BHC	350	350	N/A	ug/kg	220 U	11 U	11 U	110 U	2.2 U	110 U
Camphechlor	580	580	N/A	ug/kg	4400 U	220 U	220 U	2300 U	44 U	2200 U
Chlordane	N/A	N/A	N/A	ug/kg	4400 U	220 U	220 U	2300 U	44 U	2200 U
delta-BHC	490	490	N/A	ug/kg	220 U	11 U	11 U	110 U	2.2 U	110 U
Dieldrin	40	40	N/A	ug/kg	220 U	6.6 J	6.6 J	110 U	12	43 JP
Endosulfan I	47000	47000	N/A	ug/kg	220 U	11 U	11 U	110 U	2.2 U	110 U
Endosulfan II	47000	47000	N/A	ug/kg	220 U	11 U	11 U	110 U	2.2 U	110 U
Endosulfan Sulfate	47000	47000	N/A	ug/kg	220 U	11 U	11 U	110 U	2.2 U	110 U
Endrin	2300	2300	N/A	ug/kg	220 U	11 U	11 U	110 U	2.2 U	110 U
Endrin Aldehyde	2300	2300	N/A	ug/kg	220 U	11 U	11 U	110 U	2.2 U	110 U
Endrin Ketone	2300	2300	N/A	ug/kg	220 U	11 U	11 U	110 U	2.2 U	110 U
gamma-BHC	490	490	N/A	ug/kg	220 U	11 U	11 U	110 U	2.2 U	110 U
gamma-Chlordane	1800	1800	N/A	ug/kg	1800	54	58	1200	480	1000
Heptachlor	140	140	N/A	ug/kg	220 U	11 U	11 U	110 U	2 JP	110 U
Heptachlor Epoxide	70	70	N/A	ug/kg	330 P	44 P	41 P	730 P	210 P	280 P
Methoxychlor	39000	39000	N/A	ug/kg	220 U	11 U	11 U	110 U	2.2 U	110 U
PCB-1016	550	550	N/A	ug/kg	NA	NA	NA	NA	NA	NA
PCB-1221	320	320	N/A	ug/kg	NA	NA	NA	NA	NA	NA
PCB-1232	320	320	N/A	ug/kg	NA	NA	NA	NA	NA	NA
PCB-1242	320	320	N/A	ug/kg	NA	NA	NA	NA	NA	NA
PCB-1248	320	320	N/A	ug/kg	NA	NA	NA	NA	NA	NA
PCB-1254	320	320	N/A	ug/kg	NA	NA	NA	NA	NA	NA
PCB-1260	320	320	N/A	ug/kg	NA	NA	NA	NA	NA	NA
Explosives										
1,3,5-Trinitrobenzene	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA

SOIL SAMPLE RESULTS

Analyte	MDE Residential	MDE GW Protection	Back-ground	Unit	Sample Name: GREEN-SS-1 GREEN-SS-2 GREEN-DUPI GREEN-SS-3 GREEN-SS-4 GREEN-SS-5							
					12/18/03	12/18/03	12/18/03	12/18/03	12/18/03	12/18/03		
Exp Contd.												
2,4,6-Trinitrotoluene	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	16000	16000	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	7800	7800	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA
2-Amino-4,6-dinitrotoluene	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrotoluene	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitrotoluene	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA
4-Amino-2,6-Dinitrotoluene	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrotoluene	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA
HMX	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA
m-Dinitrobenzene	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	3900	3900	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA
RDX	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA
Tetryl	N/A	N/A	N/A	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA
Metals												
Aluminum	7800	7800	11000	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	12	12	N/A	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	2	2	3.6	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Barium	550	550	N/A	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	16	16	N/A	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	3.9	3.9	N/A	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	N/A	N/A	N/A	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	23	23	28	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	160	160	N/A	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Copper	310	310	N/A	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Iron	2300	2300	15000	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Lead	400	400	N/A	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	N/A	N/A	N/A	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	160	160	480	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.1	0.1	0.51	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	160	160	N/A	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	N/A	N/A	N/A	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	39	39	N/A	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Silver	39	39	N/A	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	N/A	N/A	N/A	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	2	2	3.8	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	55	55	N/A	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2300	2300	N/A	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
General Chemistry												
Oil & Grease, Total Recovered	N/A	N/A	N/A	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Percent Solids	N/A	N/A	N/A	%	76	76	76	74	76	76	77	77

SOIL SAMPLE RESULTS

Analyte	MDE Residential		MDE GW Protection		Back-ground	Unit	GREEN-SS-1	GREEN-SS-2	GREEN-DUPI	GREEN-SS-3	GREEN-SS-4	GREEN-SS-5
	Residential	MDE Residential	MDE GW Protection	MDE GW Protection			12/18/03	12/18/03	12/18/03	12/18/03	12/18/03	12/18/03
Gen Chem Contd.												
TPH	N/A	N/A	N/A	N/A	N/A	mg/kg	NA	NA	NA	NA	NA	NA
TPH-DRO	230	230	230	230	N/A	mg/kg	NA	NA	NA	NA	NA	NA
TPH-GRO	230000	230000	230000	230000	N/A	ug/kg	NA	NA	NA	NA	NA	NA

Sample Name:

Sample Date:

Parent Name:

GROUNDWATER RESULTS

Analyte	MDE	Unit	Sample Name:		Sample Date:		Parent Name:		MDE		Unit	
			1-2	2-6	3-1	6-2	AREA7-1	03-DE-22-DPI	8-4	8-11	8-13	AREA9-1
			12/29/2003	12/30/2003	12/16/2003	12/29/2003	12/15/2003	12/22/2003	12/22/2003	12/22/2003	12/18/2003	12/15/2003
VOG												
1,1,1-Trichloroethane	200	ug/L	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
1,1,2,2-Tetrachloroethane	1	ug/L	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
1,1,2-Trichloroethane	5	ug/L	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
1,1-Dichloroethane	80	ug/L	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
1,1-Dichloroethylene	7	ug/L	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
1,2,4-Trichlorobenzene	70	ug/L	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
1,2-Dibromo-3-chloropropane	1	ug/L	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
1,2-Dichlorobenzene	600	ug/L	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
1,2-Dichloroethane	5	ug/L	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
1,2-Dichloropropane	5	ug/L	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
1,4-Dichlorobenzene	75	ug/L	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
2-Butanone	190	ug/L	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
4-Methyl-2-Pentanone	50	ug/L	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
Acetone	N/A	ug/L	7.8 J	10U	10U	10U	10U	10U	10U	10U	10U	10U
Benzene	5	ug/L	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
Bromodichloromethane	80	ug/L	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
Bromomethane	1	ug/L	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
Carbon Disulfide	100	ug/L	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
Carbon Tetrachloride	5	ug/L	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
CFC-11	N/A	ug/L	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
CFC-12	N/A	ug/L	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
Chlorobenzene	11	ug/L	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
Chlorodibromomethane	80	ug/L	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
Chloroethane	3.6	ug/L	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
Chloroform	80	ug/L	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
Chloromethane	2.1	ug/L	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
cis-1,2-Dichloroethene	70	ug/L	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
cis-1,3-Dichloropropene	1	ug/L	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
Cyclohexane	N/A	ug/L	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
Methylene Chloride	5	ug/L	9.3 JB	10B	2.5 JB	7.2 JB	1.9 JB	1.4 JB	10U	10U	2.1 JB	1.8 JB
Ethylbenzene	700	ug/L	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
Ethylene Dibromide	1	ug/L	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
Freon 113	N/A	ug/L	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
Isopropylbenzene	66	ug/L	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
m-Dichlorobenzene	18	ug/L	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
Methyl Acetate	N/A	ug/L	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
Methyl n-Butyl Ketone	150	ug/L	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
Methylbenzene	1000	ug/L	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
Methylcyclohexane	N/A	ug/L	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
Styrene	100	ug/L	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
tert-butyl methyl ether	20	ug/L	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U

GROUNDWATER RESULTS

Sample Name:	1-2	2-6	3-1	6-2	AREA7-1	03-DE-22-DPI	8-4	8-11	8-13	AREA9-1
Sample Date:	12/29/2003	12/30/2003	12/16/2003	12/29/2003	12/15/2003	12/22/2003	12/22/2003	12/22/2003	12/18/2003	12/15/2003
Parent Name:							8-4			
MDE										
Unit										
Analyte										
VOC Contd.										
Tetrachloroethylene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,2-dichloroethene	100 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-dichloropropene	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tribromomethane	80 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethylene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl Chloride	2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylenes, Total	10000 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SVOC										
1,1- Biphenyl	N/A	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
1,2-Benzphenanthracene	10 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
2,2-Oxybis(1-Chloropropane)	10 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
2,4,5-Trichlorophenol	370 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
2,4,6-Trichlorophenol	10 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
2,4-Dichlorophenol	11 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
2,4-Dimethylphenol	73 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
2,4-Dinitrophenol	10 U	21 U	25 U	21 U	22 U	20 U	20 U	20 U	21 U	22 U
2,4-Dinitrotoluene	50 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
2,6-Dinitrotoluene	50 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
2-Chloronaphthalene	49 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
2-Chlorophenol	20 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
2-Methylnaphthalene	20 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
2-Methylphenol	180 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
2-Nitroaniline	10 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
2-Nitrophenol	29 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
3,3'-Dichlorobenzidine	10 U	21 U	25 U	21 U	22 U	20 U	20 U	20 U	21 U	22 U
3,5,5-Trimethyl-2-cyclohexene-1-one	70 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
3-Nitroaniline	N/A	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
4,6-Dinitro-2-methyl phenol	50 U	21 U	25 U	21 U	22 U	20 U	20 U	20 U	21 U	22 U
4-Bromophenyl Phenyl Ether	N/A	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
4-Chloro-3-methylphenol	N/A	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
4-Chlorophenyl Phenyl Ether	N/A	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
4-Methylphenol	18 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
4-Nitrophenol	50 U	21 U	25 U	21 U	22 U	20 U	20 U	20 U	21 U	22 U
Acenaphthene	37 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
Acenaphthylene	37 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
Acetophenone	N/A	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
Anthracene	180 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
Atrazine	3 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
Benzaldehyde	N/A	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
Benzo(a)anthracene	10 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
Benzo(a)pyrene	10 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U

GROUNDWATER RESULTS

Analyte	Sample Name:	1-2	2-6	3-1	6-2	AREA7-1	03-DE-22-DPI	8-4	8-11	8-13	AREA9-1
	Sample Date:	12/29/2003	12/30/2003	12/16/2003	12/29/2003	12/15/2003	12/22/2003	12/22/2003	12/22/2003	12/18/2003	12/15/2003
	Parent Name:						8-4				
	MDE										
	Unit										
SVOC Contd.											
Benzo(b)fluoranthene	10 ug/L	10 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
Benzo(g,h,i)perylene	18 ug/L	10 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
Benzo(k)fluoranthene	10 ug/L	10 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
Benzyl Butyl Phthalate	N/A	10 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
bis(2-Chloroethoxy) Methane	N/A	10 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
bis(2-Chloroethyl) Ether	10 ug/L	10 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
bis(2-Ethylhexyl) Phthalate	20 ug/L	1.7 J	1.4 J	3.1 J	1.9 J	28 B	1.5 JB	1.9 JB	1.8 JB	1.1 J	1.8 JB
Caprolactam	N/A	10 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
Carbazole	10 ug/L	10 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
di-n-Butyl Phthalate	370 ug/L	10 U	3.5 J	13 U	1.4 J	11 U	10 U	2.1 JB	1.4 JB	10 U	11 U
di-n-Octyl Phthalate	73 ug/L	10 U	10 U	13 U	11 U	8.4 J	10 U	10 U	10 U	10 U	11 U
Dibenz(a,h)anthracene	10 ug/L	10 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
Dibenzofuran	10 ug/L	10 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
Diethyl Phthalate	2900 ug/L	10 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
Dimethyl phthalate	37000 ug/L	10 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
Fluoranthene	150 ug/L	10 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
Fluorene	24 ug/L	10 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
Hexachloro-1,3-butadiene	10 ug/L	10 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
Hexachlorobenzene	N/A	10 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
Hexachlorocyclopentadiene	50 ug/L	10 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
Hexachloroethane	10 ug/L	10 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
Indeno(1,2,3-c,d)Pyrene	10 ug/L	10 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
n-Nitrosodi-n-propylamine	10 ug/L	10 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
n-Nitrosodiphenylamine	50 ug/L	10 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
Naphthalene	10 ug/L	10 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
Nitrobenzene	20 ug/L	10 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
p-Chloroaniline	20 ug/L	10 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
p-Nitroaniline	10 ug/L	10 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
Pentachlorophenol	50 ug/L	21 U	21 U	25 U	21 U	22 U	20 U	20 U	20 U	21 U	22 U
Phenanthrene	180 ug/L	10 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
Phenol	2200 ug/L	10 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
Pyrene	18 ug/L	10 U	10 U	13 U	11 U	11 U	10 U	10 U	10 U	10 U	11 U
Pesticides/PCB											
4,4-DDD	0.28 ug/L	0.05 U	0.05 U	0.06 U	0.05 U	0.06 U	0.05 U	0.05 U	0.05 U	0.06 U	0.05 U
4,4-DDE	0.2 ug/L	0.05 U	0.05 U	0.06 U	0.05 U	0.06 U	0.05 U	0.05 U	0.05 U	0.06 U	0.05 U
4,4-DDT	0.2 ug/L	0.05 U	0.05 U	0.06 U	0.05 U	0.06 U	0.05 U	0.05 U	0.05 U	0.06 U	0.05 U
Aldrin	0.08 ug/L	0.05 U	0.05 U	0.06 U	0.05 U	0.06 U	0.05 U	0.05 U	0.05 U	0.06 U	0.05 U
alpha-BHC	0.08 ug/L	0.05 U	0.05 U	0.06 U	0.05 U	0.06 U	0.05 U	0.05 U	0.05 U	0.06 U	0.05 U
alpha-Chlordane	2 ug/L	0.05 U	0.05 U	0.06 U	0.05 U	0.06 U	0.05 U	0.05 U	0.05 U	0.06 U	0.05 U
beta-BHC	0.08 ug/L	0.05 U	0.05 U	0.06 U	0.05 U	0.06 U	0.05 U	0.05 U	0.05 U	0.06 U	0.05 U
Camphchlor	3 ug/L	1 U	1 U	1.1 U	1 U	1.1 U	1 U	1 U	1 U	1.1 U	1 U

GROUNDWATER RESULTS

Analyte	MDE	Unit	Sample Name: AREA7-1											8-4	03-DE-22-DPI	8-4	8-11	8-13	AREA9-1		
			12/29/2003	2-6	3-1	6-2	12/15/2003	12/22/2003	12/22/2003	12/22/2003	12/22/2003	12/22/2003	12/22/2003							12/18/2003	12/15/2003
Pest/PCB Contd.																					
Chlordane	N/A	ug/L	1 U	1 U	1.1 U	1 U	1 U	1.1 U	1 U	1.1 U	1 U	1 U	1.1 U	1 U	1 U	1 U	1 U	1.1 U	1 U	1 U	1 U
delta-BHC	0.2	ug/L	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.06 U	0.05 U	0.06 U	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.05 U
Dieldrin	0.08	ug/L	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.06 U	0.05 U	0.06 U	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.05 U
Endosulfan I	22	ug/L	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.06 U	0.05 U	0.06 U	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.05 U
Endosulfan II	22	ug/L	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.06 U	0.05 U	0.06 U	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.05 U
Endosulfan Sulfate	22	ug/L	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.06 U	0.05 U	0.06 U	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.05 U
Endrin	2	ug/L	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.06 U	0.05 U	0.06 U	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.05 U
Endrin Aldehyde	2	ug/L	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.06 U	0.05 U	0.06 U	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.05 U
Endrin Ketone	2	ug/L	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.06 U	0.05 U	0.06 U	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.05 U
gamma-BHC	0.2	ug/L	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.06 U	0.05 U	0.06 U	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.05 U
gamma-Chlordane	2	ug/L	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.06 U	0.05 U	0.06 U	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.05 U
Heptachlor	0.4	ug/L	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.06 U	0.05 U	0.06 U	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.05 U
Heptachlor Epoxide	0.2	ug/L	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.06 U	0.05 U	0.06 U	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.05 U
Methoxychlor	40	ug/L	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.06 U	0.05 U	0.06 U	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.05 U	0.05 U	0.05 U
PCB-1016	0.5	ug/L	1 U	1 U	1.1 U	1 U	1 U	1.1 U	1 U	1.1 U	1 U	1 U	1.1 U	1 U	1 U	1 U	1 U	1.1 U	1 U	1 U	1 U
PCB-1221	0.5	ug/L	1 U	1 U	1.1 U	1 U	1 U	1.1 U	1 U	1.1 U	1 U	1 U	1.1 U	1 U	1 U	1 U	1 U	1.1 U	1 U	1 U	1 U
PCB-1232	0.5	ug/L	1 U	1 U	1.1 U	1 U	1 U	1.1 U	1 U	1.1 U	1 U	1 U	1.1 U	1 U	1 U	1 U	1 U	1.1 U	1 U	1 U	1 U
PCB-1242	0.5	ug/L	1 U	1 U	1.1 U	1 U	1 U	1.1 U	1 U	1.1 U	1 U	1 U	1.1 U	1 U	1 U	1 U	1 U	1.1 U	1 U	1 U	1 U
PCB-1248	0.5	ug/L	1 U	1 U	1.1 U	1 U	1 U	1.1 U	1 U	1.1 U	1 U	1 U	1.1 U	1 U	1 U	1 U	1 U	1.1 U	1 U	1 U	1 U
PCB-1254	0.5	ug/L	1 U	1 U	1.1 U	1 U	1 U	1.1 U	1 U	1.1 U	1 U	1 U	1.1 U	1 U	1 U	1 U	1 U	1.1 U	1 U	1 U	1 U
PCB-1260	0.5	ug/L	1 U	1 U	1.1 U	1 U	1 U	1.1 U	1 U	1.1 U	1 U	1 U	1.1 U	1 U	1 U	1 U	1 U	1.1 U	1 U	1 U	1 U
Explosives																					
1,3,5-Trinitrobenzene	N/A	ug/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
2,4,6-Trinitrotoluene	N/A	ug/L	0.32	0.18 J	0.26 U	0.24 J	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U						
2,4-Dinitrotoluene	50	ug/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
2,6-Dinitrotoluene	50	ug/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
2-Amino-4,6-dinitrotoluene	N/A	ug/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
2-Nitrotoluene	N/A	ug/L	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U
3-Nitrotoluene	N/A	ug/L	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U
4-Amino-2,6-Dinitrotoluene	N/A	ug/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
4-Nitrotoluene	N/A	ug/L	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U
HMX	N/A	ug/L	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U
m-Dinitrobenzene	N/A	ug/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Nitrobenzene	20	ug/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
RDX	N/A	ug/L	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U
Tetryl	N/A	ug/L	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U
Metals																					
Aluminum	50	ug/L	100 B	55.5 B	279	284	448	225	73.4 B	17.7 U	5.8 B	2.6 U	2.9 B	4.9 U	4.8 U	4.9 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U
Antimony	6	ug/L	1.9 U	1.9 U	2.6 U	1.9 U	2.6 U	2.6 U	1.9 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U				
Arsenic	50	ug/L	4.9 U	4.9 U	4.8 U	4.9 U	4.8 U	4.8 U	4.9 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U				
Barium	2000	ug/L	145	38.7	160	59.9	92.1	50	95.8	61.7	77.9	95.8	61.7	10.4							

GROUNDWATER RESULTS

Analyte	MDE	Unit	Sample Name: AREA7-1											8-13	AREA9-1
			1-2	2-6	3-1	6-2	03-DE-22-DPI	8-4	8-11	8-13	12/22/2003	12/22/2003	12/15/2003		
Exp. Contd.			12/29/2003	12/30/2003	12/16/2003	12/29/2003	12/15/2003	03-DE-22-DPI	12/22/2003	8-4	12/22/2003	12/22/2003	12/18/2003	12/15/2003	
Beryllium	4	ug/L	0.1 U	0.1 U	0.23 B	0.1 U	0.3 B	0.1 U	0.1 U		0.1 U	0.1 U	0.2 U	0.2 U	
Cadmium	5	ug/L	0.44 B	0.39 B	0.43 B	0.3 U	0.3 U	0.3 U	0.3 U		0.3 U	0.3 U	0.3 U	0.3 U	
Calcium	N/A	ug/L	98100	24200	13000	3410	11200	6620	6790		6170	19000	17900	17900	
Chromium	100	ug/L	0.74 B	0.57 B	1 B	0.69 B	2.3 B	0.8 B	0.5 B		0.49 B	1.4 B	35.7	35.7	
Cobalt	73	ug/L	9.6	0.4 U	43.5	5.3	3.4 B	114	49.6		10.6	4.5 B	0.9 U	0.9 U	
Copper	1300	ug/L	4.1 B	2.4 B	2.7 B	0.8 U	4.3 B	0.89 B	2.4 B		0.8 U	3.7 B	2.7 B	2.7 B	
Iron	300	ug/L	714	650	314	2250	4040	2420	1320		1210	4560	229	229	
Lead	15	ug/L	2.2 U	2.2 U	1.1 B	2.2 U	1.5 B	2.2 U	2.2 U		2.2 U	1.3 B	1.3 B	1.3 B	
Magnesium	N/A	ug/L	19100	3390	4130	1000	3310	1790	1910		2100	5040	1690	1690	
Manganese	50	ug/L	295 E	36.4 E	517	139 E	89.3	1460 E	780 E		118 E	117	19.2	19.2	
Mercury	2	ug/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	
Nickel	73	ug/L	3.9 B	3.4 B	6.4 B	4 B	5.6 B	16.2	12.8		2.2 B	4.6 B	17.2	17.2	
Potassium	N/A	ug/L	22200	2130	2340	1090	4100	975	789		4730	5280	1370	1370	
Selenium	50	ug/L	1.8 U	1.8 U	2.9 U	1.8 U	2.9 U	1.8 U	1.8 U		1.8 U	2.9 U	2.9 U	2.9 U	
Silver	18	ug/L	0.7 U	0.7 U	1.1 B	0.7 U	0.7 U	0.7 U	0.7 U		0.7 U	0.7 U	0.7 U	0.7 U	
Sodium	N/A	ug/L	2630	2570	4210	1470 B	10300	1650 B	1550 B		1400 B	9080	1160 B	1160 B	
Thallium	2	ug/L	5 U	5 U	4.2 U	5 U	4.2 U	5 U	5 U		5 U	4.2 U	4.2 U	4.2 U	
Vanadium	50	ug/L	0.9 B	0.5 U	1 U	0.5 U	1 U	0.5 U	0.5 U		0.5 U	1 U	1 U	1 U	
Zinc	1100	ug/L	22.7	127	34.2	44.7	27.1	125	102		8.8 B	8.4 B	5.1 B	5.1 B	
General Chemistry															
Oil & Grease, Total Recovered	N/A	mg/L	8.1	6.7	5 U	5 U	11	10	11		5 U	5 U	5 U	5 U	
TPH	N/A	mg/L	5 U	5 U	5 U	5 U	5.2	5 U	5.2		5 U	5 U	5 U	5 U	
TPH-DRO	0.047	mg/L	0.33	0.21	0.15	0.21	0.15	0.22	0.24		0.17	0.17	0.11	0.11	
TPH-GRO	47	ug/L	100 U	100 U	100 U	100 U	100 U	100 U	100 U		100 U	100 U	100 U	100 U	

GROUNDWATER RESULTS

Analyte	MDE	Unit	Sample Name:		Sample Date:		Parent Name:		13A-1	13-2	14-1	16-1	RINSE BLANK	TRIPBLANKA	TRIP BLANKKB	TRIP BLANK	TRIP BLANK	
			12/16/2003	12/18/2003	12/16/2003	12/22/2003	12/30/2003	12/16/2003	12/19/2003	12/22/2003	12/30/2003							
VOC																		
1,1,1-Trichloroethane	200	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	1	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	80	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethylene	7	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2,4-Trichlorobenzene	70	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dibromo-3-chloropropane	1	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	600	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	5	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,4-Dichlorobenzene	75	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	190	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	50	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	N/A	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	5	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	80	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromomethane	1	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon Disulfide	100	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
CFC-11	N/A	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
CFC-12	N/A	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	11	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorodibromomethane	80	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroethane	3.6	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform	80	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloromethane	2.1	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
cis-1,2-Dichloroethene	70	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	1	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Cyclohexane	N/A	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene Chloride	5	ug/L	2 JB	2.2 JB	1.9 JB	1.2 JB	14 B	2.4 JB	2.7 JB	1.7 JB	11 B							
Ethylbenzene	700	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylene Dibromide	1	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Freon 113	N/A	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Isopropylbenzene	66	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
m-Dichlorobenzene	18	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methyl Acetate	N/A	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methyl n-Butyl Ketone	150	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylbenzene	1000	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylcyclohexane	N/A	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	100	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
tert-butyl methyl ether	20	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

GROUNDWATER RESULTS

Analyte	MDE	Unit	Sample Name: 13A-1									
			12/16/2003	13-2	14-1	16-1	RINSE BLANK	TRIPBLANKA	TRIP BLANKB	TRIP BLANK	TRIP BLANK	
Parent Name:	Sample Date:	Sample Name:	12/16/2003	12/18/2003	12/16/2003	12/22/2003	12/30/2003	12/19/2003	12/22/2003	12/30/2003	12/30/2003	12/30/2003
VOC Contd.												
Tetrachloroethylene	5	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,2-dichloroethene	100	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-dichloropropene	1	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tribromomethane	80	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethylene	5	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl Chloride	2	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylenes, Total	10000	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SVOC												
1,1-Biphenyl	N/A	ug/L	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Benzophenanthracene	10	ug/L	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,2-Oxybis(1-Chloropropane)	10	ug/L	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	370	ug/L	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	10	ug/L	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	11	ug/L	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	73	ug/L	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	10	ug/L	24 U	22 U	21 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
2,4-Dinitrotoluene	50	ug/L	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	50	ug/L	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	49	ug/L	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	20	ug/L	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	20	ug/L	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	180	ug/L	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroamine	10	ug/L	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol	29	ug/L	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	10	ug/L	24 U	22 U	21 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
3,5,5-Trimethyl-2-cyclohexene-1-one	70	ug/L	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroamine	N/A	ug/L	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4,6-Dinitro-2-methylphenol	50	ug/L	24 U	22 U	21 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
4-Bromophenyl Phenyl Ether	N/A	ug/L	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	N/A	ug/L	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl Phenyl Ether	N/A	ug/L	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	18	ug/L	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitrophenol	50	ug/L	24 U	22 U	21 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Acenaphthene	37	ug/L	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	37	ug/L	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetophenone	N/A	ug/L	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	180	ug/L	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Atrazine	3	ug/L	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzaldehyde	N/A	ug/L	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	10	ug/L	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	10	ug/L	12 U	11 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

GROUNDWATER RESULTS

Analyte	MDE	Unit	13A-1	13-2	14-1	16-1	RINSE BLANK	TRIPBLANKA	TRIP BLANKB	TRIP BLANK	TRIP BLANK
			12/16/2003	12/18/2003	12/16/2003	12/22/2003	12/30/2003	12/16/2003	12/19/2003	12/22/2003	12/30/2003
SVOC Contd.											
Benzo(b)fluoranthene	10	ug/L	12 U	11 U	11 U	10 U	10 U	NA	NA	NA	NA
Benzo(g,h,i)perylene	18	ug/L	12 U	11 U	11 U	10 U	10 U	NA	NA	NA	NA
Benzo(k)fluoranthene	10	ug/L	12 U	11 U	11 U	10 U	10 U	NA	NA	NA	NA
Benzyl Butyl Phthalate	N/A	ug/L	12 U	11 U	11 U	10 U	10 U	NA	NA	NA	NA
bis(2-Chloroethoxy) Methane	N/A	ug/L	12 U	11 U	11 U	10 U	10 U	NA	NA	NA	NA
bis(2-Chloroethyl) Ether	10	ug/L	12 U	11 U	11 U	10 U	10 U	NA	NA	NA	NA
bis(2-Ethylhexyl) Phthalate	20	ug/L	6.6 J	11 U	2.2 J	2.1 JB	1.7 J	NA	NA	NA	NA
Caprolactam	N/A	ug/L	12 U	11 U	11 U	10 U	10 U	NA	NA	NA	NA
Carbazole	10	ug/L	12 U	11 U	11 U	10 U	10 U	NA	NA	NA	NA
di-n-Butyl Phthalate	370	ug/L	12 U	11 U	11 U	10 U	1.6 J	NA	NA	NA	NA
di-n-Octyl Phthalate	73	ug/L	12 U	11 U	11 U	10 U	10 U	NA	NA	NA	NA
Dibenz(a,h)anthracene	10	ug/L	12 U	11 U	11 U	10 U	10 U	NA	NA	NA	NA
Dibenzofuran	10	ug/L	12 U	11 U	11 U	10 U	10 U	NA	NA	NA	NA
Diethyl Phthalate	2900	ug/L	12 U	11 U	11 U	10 U	10 U	NA	NA	NA	NA
Dimethyl phthalate	37000	ug/L	12 U	11 U	11 U	10 U	10 U	NA	NA	NA	NA
Fluoranthene	150	ug/L	12 U	11 U	11 U	10 U	10 U	NA	NA	NA	NA
Fluorene	24	ug/L	12 U	11 U	11 U	10 U	10 U	NA	NA	NA	NA
Hexachloro-1,3-butadiene	10	ug/L	12 U	11 U	11 U	10 U	10 U	NA	NA	NA	NA
Hexachlorobenzene	N/A	ug/L	12 U	11 U	11 U	10 U	10 U	NA	NA	NA	NA
Hexachlorocyclopentadiene	50	ug/L	12 U	11 U	11 U	10 U	10 U	NA	NA	NA	NA
Hexachloroethane	10	ug/L	12 U	11 U	11 U	10 U	10 U	NA	NA	NA	NA
Indeno(1,2,3-c,d)Pyrene	10	ug/L	12 U	11 U	11 U	10 U	10 U	NA	NA	NA	NA
n-Nitrosodi-n-propylamine	10	ug/L	12 U	11 U	11 U	10 U	10 U	NA	NA	NA	NA
n-Nitrosodiphenylamine	50	ug/L	12 U	11 U	11 U	10 U	10 U	NA	NA	NA	NA
Naphthalene	10	ug/L	12 U	11 U	11 U	10 U	10 U	NA	NA	NA	NA
Nitrobenzene	20	ug/L	12 U	11 U	11 U	10 U	10 U	NA	NA	NA	NA
p-Chloroaniline	20	ug/L	12 U	11 U	11 U	10 U	10 U	NA	NA	NA	NA
p-Nitroaniline	10	ug/L	12 U	11 U	11 U	10 U	10 U	NA	NA	NA	NA
Pentachlorophenol	50	ug/L	24 U	22 U	21 U	20 U	20 U	NA	NA	NA	NA
Phenanthrene	180	ug/L	12 U	11 U	11 U	10 U	10 U	NA	NA	NA	NA
Phenol	2200	ug/L	12 U	11 U	11 U	10 U	10 U	NA	NA	NA	NA
Pyrene	18	ug/L	12 U	11 U	11 U	10 U	10 U	NA	NA	NA	NA
Pesticides/PCB											
4,4-DDD	0.28	ug/L	0.05 U	0.03 JP	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA
4,4-DDE	0.2	ug/L	0.05 U	0.03 J	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA
4,4-DDT	0.2	ug/L	0.05 U	0.05 JP	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA
Aldrin	0.08	ug/L	0.05 U	NA	NA	NA	NA				
alpha-BHC	0.08	ug/L	0.05 U	0.02 J	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA
alpha-Chlordane	2	ug/L	0.05 U	NA	NA	NA	NA				
beta-BHC	0.08	ug/L	0.05 U	NA	NA	NA	NA				
Camphechlor	3	ug/L	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA

GROUNDWATER RESULTS

Analyte	MDE	Unit	Sample Name: 13A-1									
			12/16/2003	13-2	14-1	16-1	RINSE BLANK	TRIPBLANKA	TRIP BLANKB	TRIP BLANK	TRIP BLANK	
			12/18/2003	12/16/2003	12/22/2003	12/30/2003	12/16/2003	12/19/2003	12/22/2003	12/30/2003	12/30/2003	12/30/2003
Parent Name:												
Pest/PCB Contd.												
Chlordane	N/A	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
delta-BHC	0.2	ug/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Dieldrin	0.08	ug/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endosulfan I	22	ug/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endosulfan II	22	ug/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endosulfan Sulfate	22	ug/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endrin	2	ug/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endrin Aldehyde	2	ug/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endrin Ketone	2	ug/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
gamma-BHC	0.2	ug/L	0.05 U	0.04 JP	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
gamma-Chlordane	2	ug/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Heptachlor	0.4	ug/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Heptachlor Epoxide	0.2	ug/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Methoxychlor	40	ug/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
PCB-1016	0.5	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
PCB-1221	0.5	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
PCB-1232	0.5	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
PCB-1242	0.5	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
PCB-1248	0.5	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
PCB-1254	0.5	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
PCB-1260	0.5	ug/L	1 U	0.52 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Explosives												
1,3,5-Trinitrobenzene	N/A	ug/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
2,4,6-Trinitrotoluene	N/A	ug/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
2,4-Dinitrotoluene	50	ug/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
2,6-Dinitrotoluene	50	ug/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
2-Amino-4,6-dinitrotoluene	N/A	ug/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
2-Nitrotoluene	N/A	ug/L	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U
3-Nitrotoluene	N/A	ug/L	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U
4-Amino-2,6-Dinitrotoluene	N/A	ug/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
4-Nitrotoluene	N/A	ug/L	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U
HMX	N/A	ug/L	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U
m-Dinitrobenzene	N/A	ug/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Nitrobenzene	20	ug/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
RDX	N/A	ug/L	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U
Tetryl	N/A	ug/L	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U
Metals												
Aluminum	50	ug/L	143 B	410	17.7 U	381	15.6 U	NA	NA	NA	NA	NA
Antimony	6	ug/L	2.6 U	2.9 B	3 B	5.6 B	2.6 B	NA	NA	NA	NA	NA
Arsenic	50	ug/L	4.8 U	4.8 U	4.8 U	4.9 U	4.9 U	NA	NA	NA	NA	NA
Barium	2000	ug/L	26.7	54.3	43.3	134	0.38 B	NA	NA	NA	NA	NA

GROUNDWATER RESULTS

Analyte	MDE	Unit	Sample Name: 13A-1														
			12/16/2003	13-2	14-1	16-1	RINSE BLANK	TRIPBLANKA	TRIP BLANKB	TRIP BLANK	TRIP BLANK						
Exp. Contd.																	
Beryllium	4	ug/L	0.2 U	0.2 U	0.2 U	0.26 B	0.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	ug/L	0.33 B	0.72 B	0.3 U	0.67 B	0.3 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	N/A	ug/L	8030	12100	25400	6420	127 B	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	100	ug/L	1.8 B	2.5 B	1.2 B	1.2 B	0.4 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	73	ug/L	2.9 B	4.1 B	5.3	18.5	0.4 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	1300	ug/L	8.8 B	14.8	4.5 B	37.1	0.8 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	ug/L	1210	2170	487	1250	40.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	15	ug/L	1.9 B	4.1 B	1.5 B	313	2.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	N/A	ug/L	1130	1360	5720	3700	19.9 B	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	50	ug/L	101	202	140	211 E	2.4 BE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	2	ug/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	73	ug/L	3 B	2.5 B	2.2 B	300	1.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	N/A	ug/L	1050	860	7470	1710	55.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	50	ug/L	2.9 U	2.9 U	2.9 U	1.8 U	1.8 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	18	ug/L	0.7 U	0.7 U	0.7 U	1.2 B	0.7 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	N/A	ug/L	1050 B	1600 B	11900	4410	259 B	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	2	ug/L	4.2 U	4.2 U	4.2 U	5 U	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	50	ug/L	1 U	1.4 B	1 U	0.72 B	0.51 B	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	1100	ug/L	86.3	119	12 B	64.7	3.5 B	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
General Chemistry																	
Oil & Grease, Total Recovered	N/A	mg/L	21	8.2	5 U	11	7.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH	N/A	mg/L	10	5 U	5 U	5.3	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH-DRO	0.047	mg/L	0.19	0.23	0.11	0.18	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH-GRO	47	ug/L	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U

ATTACHMENT E
LABORATORY QC SAMPLE
RESULT EVALUATION

This attachment provides a discussion of the data quality assessment of laboratory control samples by analysis and batch. The table below presents which samples are included in each batch to allow cross-reference to possibly impacted sample results.

Batch ID	Soil Samples Included In Batch	Groundwater Samples Included In Batch
312153	2-1-0.9-2.2 2-3-6.5-8 2-4-7-8.5 2-5-10.5-12 3-1-7.5-9 5-2-8-12 7-1-12-15 7-2-8-10 9-1-12-16 9-2-8-12 13A-1-3.5-5 13A-2-6-7.5 14-1-6.5-8 SO-DUP1	3-1 7-1 9-1 13A-1 14-1 TripBlank
312181	GREEN-SS-1 GREEN-SS-2 GREEN-SS-3 GREEN-SS-4 GREEN-SS-5 GREEN-DUP1 5-1-0-0.5 8-8-10.5-13.7 8-9-12.5-14 8-13-15-16.5 13-1-3-4.6 13-2-4-8 14-2-4.5-5 17-1-21.5-23	8-13 13-2 TripBlankB
312197	1-4-6-8 1-5-4-6 8-4-2-4 8-5-4-6 8-6-5.5-7 8-7-14-15.5 8-10-18-20 8-11-5-7 8-12-0.5-2 11-1-5.5-7 16-1-3-5 18-1-2-4	8-4 8-11 16-1 03-DE-22-DP1 TripBlankC
312203	1-1-6-8 1-2-3.5-5 1-3-6-8 2-6-2-4 4-1-6-8 6-1-6-8 6-2-16.5-18 6-3-6-8 8-1-6-8	1-2 2-6 6-2 TripBlankD Rinseblank

	8-2-6-8 8-3-18-20 03-DE-29-DP1 03-DE-30-DP2	
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VOCs

- **312197**-Recoveries were within quality control (QC) limits.
- **312203**-Surrogate recoveries of soil samples were outside QC limits indicating possible bias. However, with the exception of laboratory contaminants, VOCs were not reported. Therefore, there is no likely impact to data.
- **312153**- Recoveries were within QC limits.
- **312181**-Recovery of 4-methyl-2-pentanone from the MS/MSD soil analysis was above the QC limit, indicating a possible high bias to the soil data for this compound. However, this compound was not reported in the site samples. Therefore, no effect on sample data is expected. Additional surrogate recoveries were also slightly beyond the QC limits, but would not be expected to impact data usability. Groundwater QC sample results were within QC limits.

GRO

- **312197**-Surrogate recovery was slightly high for the soil sample 8-4-2-4, indicating a slightly high bias to results. GRO was reported in this sample. However, the concentration was low (110 mg/kg) and well below the screening criteria of 230,000 mg/kg. Therefore, there is no impact to data usability.
- **312203**-All QC sample recoveries were within QC limits.
- **312153**-Slightly high bias was reported for the surrogate recovery for the groundwater MS. However, GRO was not reported above the detection limit. Therefore, there is no impact to data usability.
- **312181**-All QC sample recoveries were with QC limits.

SVOC

- **312197** - Percent recovery of 3 compounds in the laboratory control duplicate for the groundwater analysis was below the QC limit, indicating a possible low bias. However, phthalates were the only SVOCs reported in this batch of groundwater samples, and the reported concentrations were well below the MDE groundwater quality standard. There may be compounds reported as non-detect, that may have low concentrations concealed by low recovery.

- **312203**-The recovery of di-n-octyl phthalate was slightly lower than QC limits, indicating a possible low bias. Because the recovery was only slightly lower than the QC limit, and the screening criteria for phthalate are so high, there is no impact to data usability.
- **312153**-Surrogate and MS recoveries were below QC limits, indicating a possible low bias to the groundwater results. For soil, surrogate recoveries were also below the QC limits.
- **312181**- Low surrogate and laboratory control sample recoveries were reported for the groundwater analyses, indicating possible low bias to the groundwater results. Recoveries for soil analysis were within QC limits.

Pesticides

- **312197**-Low surrogate recovery was reported for the soil method blank. In addition, the percent recovery for several compounds in the MS/MSD and laboratory control sample was slightly below the QC limit, indicating a possible low bias for soil pesticide results. Recovery of laboratory control samples for groundwater analysis was slightly above the QC limit, indicating a possible high bias to groundwater pesticide results.
- **312203**-Recoveries of some MS/MSD compounds were outside of QC limits for both soil and groundwater analyses. However, the laboratory indicated that generally, recoveries were very good and should have no effect on data. There was low percent recovery on the surrogate compound used for the soil analysis, indicating a possible low bias to soil results.
- **312153**-Laboratory control sample recovery of endrin aldehyde for soil and groundwater analysis was slightly above the QC limit, indicating a possible high bias for this compound. A low recovery for Beta BHC was reported for the soil analysis.
- **312181**-Laboratory control sample recovery was slightly below the QC limit for the groundwater analysis, indicating a possible low bias. For the soil analysis, MS/MSD, laboratory control samples, and surrogates were outside of QC limits indicating possible bias.

PCB

- **312197**-Low surrogate recoveries were reported in the method blank for the soil analysis indicating possible low bias in the PCB soil results.
- **312203**-All QC recovery limits were met.
- **312153**-All recoveries were within quality control limits.
- **312181**-Groundwater ok. Surrogate recoveries were lower than QC limits for some compounds, indicating a possible low bias.

DRO

- **312197**-All recoveries for quality control samples were within the QC limits.
- **312203**-Percent recovery for the MS and surrogate method blank were below the QC limit, indicating a possible low bias.
- **312153**-All recoveries for quality control samples were within the QC limits.
- **312181**-Surrogate recovery for the groundwater method blank was slightly below the QC limit, indicating a possible slight low bias to the groundwater results.

Explosives

- **312197**-Recovery of MS/MSD and laboratory control samples for soil were above the QC limit, indicating a possible high bias to the explosive soil results.
- **312203**-Recoveries were outside of control limits for both the soil and groundwater analyses, indicating a possible bias to the data.
- **312153**-Surrogate recovery for sample 13A-1 was below QC limits due to matrix effects. Spike and laboratory control sample recoveries were above the QC limit indicating possible high bias to the soil sampling results.
- **312181**-Recoveries of QC samples were slightly above the QC limits, indicating a possible high bias to the soil and groundwater sample results.

Metals

- **312197**-MS/MSD for the groundwater analysis was not within control limits for the serial dilution for manganese, indicating a possible bias. Similarly, the serial dilution for the chromium soil analysis was outside of QC limits, indicating a possible bias.
- **312203** - MS/MSD for the groundwater analysis was not within control limits for the serial dilution for manganese, indicating a possible bias.
- **312153** - Recoveries were within QC limits.
- **312181**- Recoveries for quality control samples were within the QC limits.

Oil and Grease

- **312197** – Recoveries were within QC limits.
- **312203** - Recoveries were within QC limits.
- **312153** - Recoveries were within QC limits.
- **312181** - Recoveries were within QC limits.

APPENDIX F: SITE PHOTOS

**APPENDIX F
PHOTO LOG**



Photo 1: Pump House Building 8860



Photo 2: View of west side of Building 8860, door to flammable storage.



Photo 3: Inside Building 8860 in flammable storage area.



Photo 4: Inside Building 8860 in flammable storage area.



Photo 5: View looking southwest at Building 8890A, hazardous materials storage and Building 21, hazardous waste storage.



Photo 6: View looking northeast at Building 8880 and heating oil UST bollards and vent pipe.

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Photo 7: View looking south at Building 8890 in foreground, Building 8880, in background, with AST at east end.



Photo 8: View looking southeast at west side of Building 8890 and AST for used oil and heating fuel.



Photo 9. View looking east at Building 8870.



Photo 10. Inside Building 8870 pile of fertilizer.



Photo 11. View looking west at Building 8870 heating fuel 1000 gallon AST.



Photo 12. View looking north at storage container with tires and lawnmower.

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Photo 13. View looking north at concrete slab east of Building 8890.



Photo 14. View looking southeast at non-PCB transformers south of Building 8860 along Zimborski Avenue.



Photo 15. View looking north at maintenance area equipment wash area with oil-water separator.



Photo 16. View looking east side of club house.



Photo 17. View looking south at north side of club house.



Photo 18. View of 525 gallon gasoline AST east of club house.

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Photo 19: Oil-water separator in basement of club house.



Photo 20: Tires stored in basement of club house.



Photo 21. Entrance to Golf Courses "Site M".



Photo 22. World War I Cantonment Area plaque.



Photo 23. Transformer north of ball field on Mapes Road.



Photo 24. Transformers south of Site M entrance on Mapes Road.

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Photo 25: Typical view of greens/fairways.



Photo 26: Typical view of greens/fairways.



Photo 27. Typical rough/field grass.



Photo 28. Drum debris in AOI 1.



Photo 29. Drum at AOI 1.



Photo 30. View looking south of former maintenance wash area in AOI 2.

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Photo 31: Drum found in AOI 3.



Photo 32: Cement rectangular outline in AOI 4.



Photo 33. General debris observed in AOI 6.



Photo 34. Suspect debris observed in AOI 6.



Photo 35. Pits observed in AOI 8.



Photo 36. Trenches and pits observed throughout AOI 8.

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Photo 37: View of parking lot where former club house Building 6864 was located.



Photo 38: View of Building 6927 foundation at AOI 11.



Photo 39. Grave marker for William Downs at AOI 12.



Photo 40. Woodpile at AOI 15.



Photo 41. Communications tower building and AST.

Photo 42.



ACRONYMS AND ABBREVIATIONS

ACRONYMS AND ABBREVIATIONS

A	Property Qualifier for Asbestos Containing Material
ACM	Asbestos Containing Material
AERVPT	Aerial Viewpoint Inc.
AIRS	Aerometric Information Retrieval System
AOI	Area of Interest
AR	Army Regulation
AST	Aboveground Storage Tank
ASTM	American Society for Testing and Materials
ATC	Anticipated Typical Concentration
BCP	BRAC Cleanup Plan
bgs	Below Ground Surface
BTEX	Benzene, Toluene, Ethylbenzene, Xylene
BOD	Biological Oxygen Demand
BRAC	Base Realignment and Closure
CAS	Chemical Abstract Service
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System
CERFA	Community Environmental Response Facilitation Act
CFR	Code of Federal Regulations
CICIS	Chemicals in Commerce Information System
CONSENT	Superfund (cERCLA) Consent Decrees
CORRACTS	Corrective Action Reports
DA	Department of the Army
DOD	Department of Defense
DMRO	Defense Marketing Reutilization Office
DPW	Directorate of Public Works
DRO	Diesel Range Organics
EA	EA Engineering, Science, and Technology, Inc.
EBS	Environmental Baseline Survey
ECOP	Environmental Condition of Property
EDR	Environmental Data Resources
EMO	Environmental Management Office
EMSL	U.S. EPA Environmental Monitoring Systems Laboratory
EPA	U.S. Environmental Protection Agency
EPCRA	Emergency Planning and Community Right-to-Know Act
ERNS	Emergency Response Notification System
EROS	U.S. Department of the Interior Earth Resources Observation Systems
F	Acres Fee

FATES	FIFRA and TSCA Enforcement System
FINDS	Facility Index System
FIFRA	Federal Insecticide Fungicide Rodenticide Act
FOIA	Freedom of Information Act
FOSL	Finding of Suitability to Lease
FOST	Finding of Suitability to Transfer
FRDS	Federal Reporting Data System
FTTS	FIFRA/TSCA Tracking System
FURS	Federal Underground Injection Control
GRO	Gasoline Range Organics
HMIRS	Hazardous Materials Information Reporting System
HR	Hazardous substance release or disposal
HS	Hazardous substance storage
kg	kilograms
L	Property Qualifier for Lead-based Paint
LBP	Lead-based Paint
LQG	Large Quantity Generator
LUST	Leaking Underground Storage Tank
MCPA	2-Methyl-4-chlorophenoxyacetic acid
ug/L	micrograms per Liter
MLTS	Material Licensing Tracking System
MINES	Mines Master Index File
MSL	Mean Sea Level
MTBE	Methyl tertiary butyl ether
NARA	National Archives and Records Administration
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NFRAP	No Further Remedial Action Planned
NPL	National Priority List
NRC	Nuclear Regulatory Commission
NSA	National Security Agency
OCPCASES	Maryland Oil Control Program Cases, Leaking Underground Storage Tanks
P	Property Qualifier for PCBs
PADS	PCB Activity Database System
PCB	Polychlorinated biphenyls
pCi/L	Picocuries per Liter
PCS	Permitted Compliance System
POW	Prisoner of War

PR	Petroleum release or disposal
PS	Petroleum Storage
Q	Symbol for property qualifier
R	Property qualifier for Radon
RAATS	RCRA Administrative Action Tracking System
RBC	EPA Region III Risk-Based Concentration
RCRA	Resource Conservation and Recovery Act
RCRIS	Resource Conservation and Recovery Information System
RD	Property qualifier for radionuclides
ROD	Record of Decision
SHWS	State Hazardous Waste Sites
SI	Site Investigation
SIA	Surface Impoundments
SQG	Small Quantity Generator
SSTS	Section 7 Tracking System
SVOC	Semivolatile Organic Compounds
SWF/LF	Maryland Solid Waste Disposal Facilities and Landfills
SWMU	Solid Waste Management Unit
SWRCY	State Recycling Directory
TPH	Total Petroleum Hydrocarbons
TSCA	Toxic Substance Control Act
TSDF	Treatment, Storage, and Disposal Facility
TSD	Treatment, Storage, and Disposal
TRIS	Toxic Chemical Release Inventory System
USACE	United States Army Corps of Engineers
USDA	United States Department of Agriculture
UST	Underground Storage Tank
UXO	Unexploded Ordnance
VCP	Voluntary Cleanup Program
VOC	Volatile Organic Compounds
X	Property qualifier for UXO and/or ordnance fragments