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APPENDIX:
**MARYLAND HISTORICAL
TRUST LETTER**

July 15, 2014

Mr. James Ashby
Whitman, Requardt & Associates
801 South Caroline Street
Baltimore, MD 21231



Re: MHT Review of Ward Road Park, Calvert County, Maryland

Dear Mr. Ashby:

Thank you for contacting the Maryland Historical Trust (MHT) regarding the above-referenced undertaking. We understand that the construction of the proposed park may require a joint wetland alteration permit from the Corps and MDE and may therefore be subject to state and federal historic preservation law. We are therefore reviewing the above-referenced project to assess potential effects on historic properties in accordance with Section 106 of the National Historic Preservation Act and the Maryland Historical Trust Act, §§ 5A-325 and 5A-326 of the State Finance and Procurement Article. Below are our preliminary comments and recommendations regarding potential effects on historic properties.

No archeological sites or historic properties have been identified within the project area to date. The project submittal, however, notes that the property is located in the vicinity of several sites that have been recorded in the Maryland Inventory of Historic Properties (MIHP), including the 18th century house known as Red Hall (CT-4) and a Russian Orthodox chapel (CT-73) that has been moved from its original location. MHT files also indicate that several archeological sites (both prehistoric and historic) have been identified to the north and south of the Ward Road Park project area, including one prehistoric site (18CH491) that has been determined to be eligible for listing in the National Register of Historic Places. Given the proximity of these resources, cultural resources investigations may be necessary prior to any construction or ground disturbing activities associated with the park development. We are therefore requesting that we be provided with the information listed below so that we may continue our review of the proposed undertaking and determine whether or not any architectural or archeological investigations are warranted:

- Photographs (print or digital) of all buildings, structures, or ruins located within the project area;

Martin O'Malley, Governor
Anthony G. Brown, Lt. Governor

Richard Eberhart Hall, AICP Secretary
Amanda Stakem Conn, Esq., Deputy Secretary

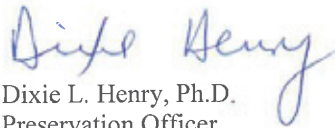
Maryland Historical Trust - 100 Community Place - Crownsville - Maryland - 21032
Tel: 410.514.7600 - Toll Free: 1.800.756.0119 - TTY users: Maryland Relay - MHT.Maryland.gov

- Information regarding the original dates of construction for the buildings located within the project area.
- Site plans, other drawings, and/or a written scope of work illustrating the proposed project.
- A description of the planned treatment (renovation, demolition, etc.) of each building over 50 years of age.

Upon our review of this information, we will be able to provide informed recommendations regarding what, if any, cultural resources investigations are needed.

We look forward to receiving the information requested above and to further coordination as project planning proceeds. If you have any questions or we may be of assistance, please contact Jonathan Sager (regarding historic buildings and landscapes) at jonathan.sager@maryland.gov \ 410-514-7636 or me (regarding archeology) at dixie.henry@maryland.gov \ 410-514-7638.

Sincerely,



Dixie L. Henry, Ph.D.
Preservation Officer
Maryland Historical Trust

DLH/201401969

APPENDIX:
**PHASE I ENVIRONMENTAL
SITE ASSESSMENT**

WARD PARK



**PHASE I ENVIRONMENTAL SITE ASSESSMENT:
WARD PARK**

JULY 2014

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EXECUTIVE SUMMARY

Calvert County Division of Park and Recreation has requested Whitman, Requardt, & Associates, LLP (WR&A) to prepare a Phase I Environmental Site Assessment (ESA) for the proposed Ward Park located off Ward Road in Dunkirk, MD. According to the Calvert County Recorder, the project site is owned by the Board of County Commissioners of Calvert County and identified as Parcel # 03-106748 / Parcel 70 and Parcel # 03-020045 / Parcel 54 located in Dunkirk, Maryland (herein identified as “project site”). The project site is comprised of approximately 209 acres. This Phase I ESA has not revealed evidence of recognized environmental conditions (RECs) associated with the subsurface at the project site.

Historically, the project site was undeveloped until sometime between 1950-1957 when approximately half of the property was cleared then used primarily for agriculture with two residential homes onsite. The remainder of the project site has remained as undeveloped woodlands.

WR&A conducted the site reconnaissance on April 11, 2014. The project site was surveyed for unusual environmental conditions including discolored or disturbed soil areas, drums, aboveground storage tanks (ASTs), underground storage tanks (USTs), discolored surface water, unusual or noxious odors, transformers, unusual surface features, septic or water supply systems, and groundwater monitoring wells. At the time of WR&A’s site reconnaissance the project site consisted of two parcels, Parcel 54 and Parcel 70. Parcel 54, identified with the physical address 10455 Ward Road, consists of approximately 137 acres located south of Ward Road and approximately 32 acres north of Ward Road. Parcel 70, identified with the physical address 10501 Ward Road, consists of approximately 40 acres and is located east of Parcel 54 and south of Ward Road. The entire project site extends north and south of Ward Road and consists of both cleared agricultural areas and undeveloped wooded areas located approximately ½ mile east of the town of Dunkirk, MD. Two residential homes, three large barns and two sheds are located on the project site, specifically within Parcel 54. A vacant caretaker house is located on the north side of Ward Road and the occupied main residence, barns and sheds are located south of Ward Road. WR&A observed indications of three USTs and one underground propane tank onsite, specifically near the occupied residential home. The first UST consists of an old petroleum dispenser and UST port located approximately 85-feet southwest of the home and the project site. WR&A was able to access the UST and determined it to be empty but was unable to determine the tank size. The second tank was observed to be a heating oil UST located along the western side of the home, WR&A did not access this tank and was unable to determine the tank size. The third UST observed during the site reconnaissance was an approximate 250-gallon UST and was observed to be removed from the ground and out of commission and was stored within the barn located approximately 385 feet southeast of the residence. The underground propane tank was observed along the northeastern corner of the home. WR&A did not access the propane tank and was unable to determine the tank size. One pad-mounted transformer was observed on the west side of the residential home and appeared to be in good condition. Several empty 55-gallon drums were observed in a storage area under one of the barns located southwest of the home and within the eastern most utility shed. Several smaller chemical containers of various sizes, including herbicides, hydraulic oil, coolant and unlabeled chemicals, were also observed within the western most utility shed. No indications of staining were observed around any of the storage tanks, transformer, or chemical storage areas. Two drinking water wells, one near each house, were observed during the site reconnaissance. Evidence of dumping was observed in three areas within the project site. One area, located in the center of parcel 54 contained plastic containers, several 5-gallon buckets and miscellaneous household trash. Another area located on the eastern border of the project site was observed to contain shingles, wood and construction debris. The third area, located near the access road for parcel 70 contained two old couches, some miscellaneous construction debris and approximately



July 2014

a dozen tires. No spills, leaks, noxious odors or indications of monitoring wells were observed on the project site during the site reconnaissance.

WR&A retained Environmental Data Resources (EDR) to perform a search of Federal and State regulatory agency databases for the project site and surrounding vicinity. The EDR report did not identify sites of known environmental concern or regulation associated with the project site but did identify three sites with historic petroleum releases within the search radius.

WR&A submitted a written request to Mr. William Haygood, acting Director of Environmental Health at the Calvert County Department of Health, regarding spills, releases, wells, and other reported environmental concerns associated with the project site. On April 17, 2014 WR&A received a written response which included well and septic information from Mr. Haygood, LEHS, with the Calvert County Health Department, Division of Environmental Health. Mr. Haygood's written response stated that there are no records or information available documenting any violations regarding the property.

Based on WR&A's site visit, the lack of sites identified with known environmental concerns, and topographic reviews of the area and surrounding vicinity, it is unlikely that contamination has adversely impacted the subsurface of the project site.



1.0 INTRODUCTION

1.1 Project Description

Calvert County has requested Whitman, Requardt, & Associates, LLP (WR&A) to prepare a Phase I Environmental Site Assessment (ESA) for the proposed Ward Park located off Ward Road in Dunkirk, MD. According to the Calvert County Recorder, the project site is owned by the Board of County Commissioners of Calvert County and identified as Parcel 70 and Parcel # Parcel 54 both located on Map 006 and located in the Dunkirk, Maryland (herein identified as “project site”). The project site is comprised of approximately 209 acres. A *Site Location Map* is included in this report as *Figure 1*.

1.2 Purpose and Assumptions

WR&A has prepared this Phase I ESA in general conformance with the scope and limitations of *ASTM Designation E1527-13: Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*, which has been determined to be consistent and compliant with the statutory criteria for all appropriate inquiries (*40 CFR Part 312 Standards and Practices for All Appropriate Inquiries*). Calvert County currently owns the property and is proposing to develop the area as recreational parkland. This Phase I ESA was performed using reasonably ascertainable information in order to identify recognized environmental conditions (RECs) on or around the project site.

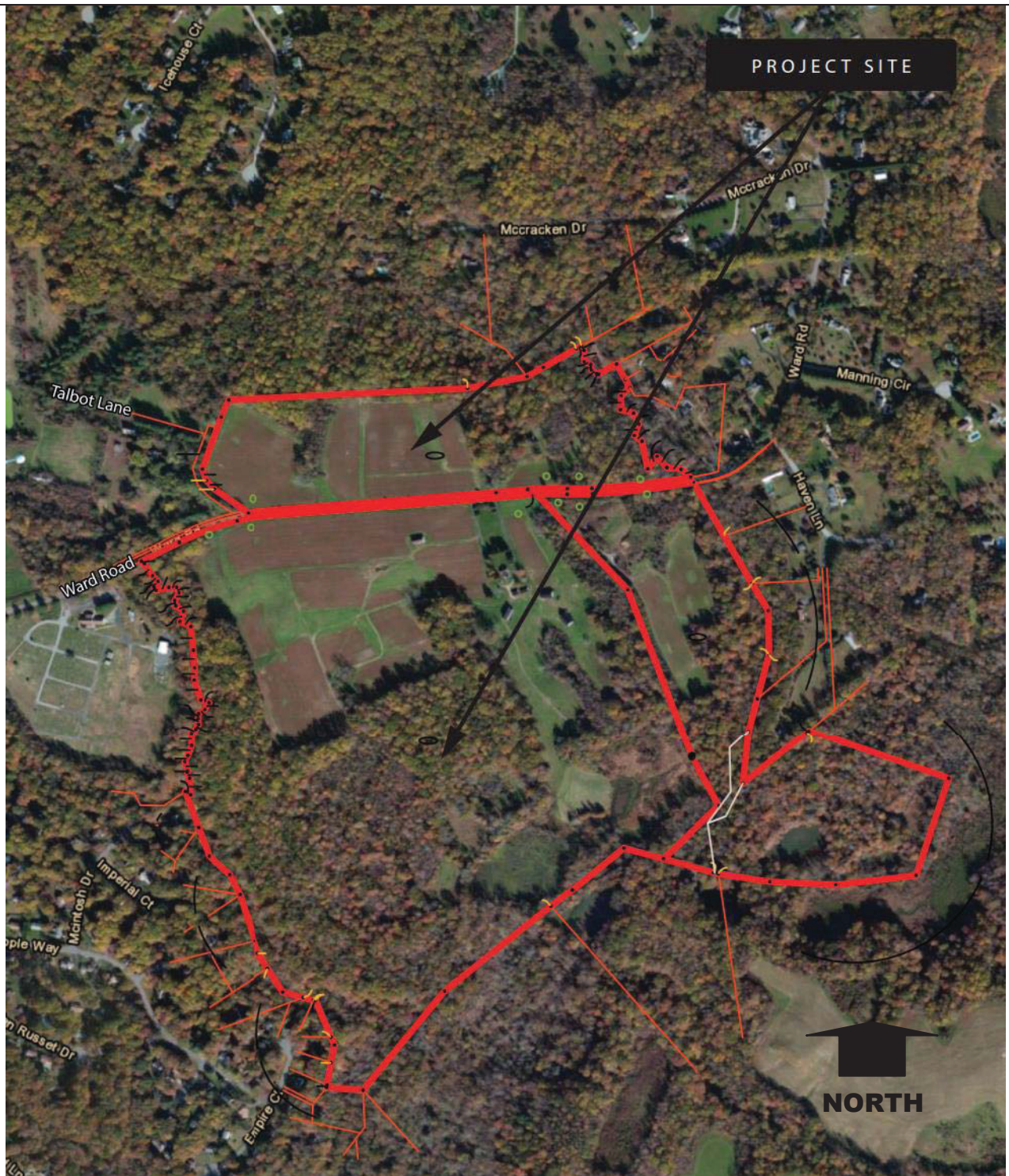
Additionally, it should be noted that portions of this report are based on database information supplied to WR&A by third-party sources. While efforts have been made to substantiate third-party information, such as file reviews, WR&A cannot guarantee its completeness or accuracy.

1.3 Limitations

Information contained in this report is intended to provide Calvert County the necessary level of environmental due diligence to determine if contaminated environmental media or environmental impairments has the likelihood of being encountered during site development. In addition, this information can be used to support regulatory coordination or management methods of contaminated media, if necessary.

Our conclusions regarding this site have been based on observations of existing conditions and our interpretation of site history and site usage data available at the time of report preparation. Therefore, conclusions reached regarding the conditions of this site do not represent a warranty, implied or expressed, that all areas within the project footprint are of a similar quality as may be inferred from observable site conditions and available site history.





Whitman, Requardt & Associates, LLP
 Engineers Architects Planners

Project Site Location

**Phase I Environmental Site Assessment
 Ward Park
 Dunkirk, Calvert County, Maryland**

SCALE	Not to Scale	DATE	July 2014	SOURCE	Copyright Bing Maps	FIGURE	1
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Please be advised that as stated in the ASTM Standard, no environmental site assessment can wholly eliminate uncertainty regarding the potential for environmental liability in connection with the property. Our investigation and analysis is intended to reduce, but not eliminate, the potential for conditions that result in liability for the client.

This report was prepared by **Whitman, Requardt & Associates, LLP** for the sole and exclusive use of the **Calvert County Division of Parks and Recreation**. Use and reproduction of this report by any other person without the expressed written permission of Whitman, Requardt & Associates, LLP, and the Calvert County Division of Parks and Recreation is unauthorized, and such use is at the sole risk of the user.

2.0 BACKGROUND INFORMATION

2.1 Topography

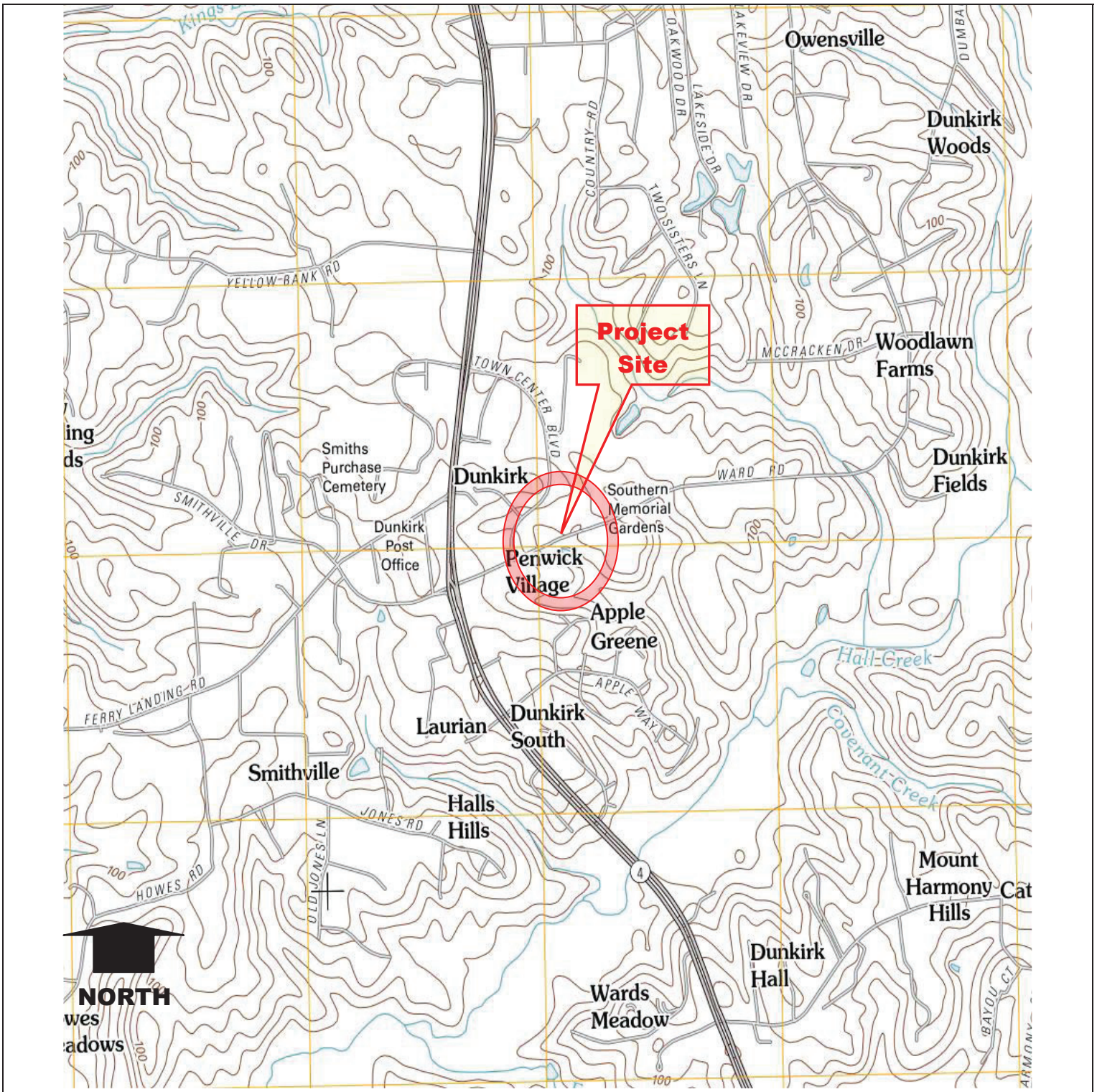
The topographic information on the United States Geological Survey (USGS) Topographic Quadrangle Map (Lower Marlboro, MD) for the project site indicates that the ground surface elevation across the project site ranges from approximately 100 feet above mean sea level (AMSL) to 201 feet AMSL on the project site. In general, the project site slopes towards the south towards Hall Creek which flows southeast and eventually discharges into the Patuxent River approximately 3.25 miles to the southwest of the project site. The groundwater flow direction likely mimics the surface topography, which appears to flow south towards Hall Creek at which point it begins flowing west towards the Patuxent River. A *Topographic Map* based on the USGS Topographic Map (Lower Marlboro Quadrangle) is included in this report as *Figure 2*.

2.2 Soils

According to the soil information provided by the United States Department of Agriculture, Natural Resources Conservation Service (NRCS), *Web Soil Survey for Calvert County, Maryland (2013)*; the soils underlying the project site are classified as Dodon (Dde) and Marr soils,) Dodon-Marr complex (DmC/DmD, Downer-Woodstown complex (DwE), Ingleside loamy sand (IbC), Ingleside-Evesboro (IeC) , Ingleside-Woodstown (IwC), Marr-Dodon complex (MaB), Rosedale fine sand (RsB) , Woodstown sandy loam (WdA), Zekiah and Issue soils (ZBA).

Dodon and Marr soil is comprised of approximately 50 percent Dodon and 45 percent Marr and five percent minor components; Dodon-Marr Complex is comprised of approximately 65 percent Dodon and 30 percent Marr. Specifically, Dodon soil is a moderately well-drained to well-drained soil derived from loamy fluviomarine deposits with a depth to water table ranging from 15 to 40 inches; Marr soil is a





WR&A
Whitman, Requardt & Associates,
LLP
 Engineers Architects Planners

Topographic Map
Phase I Environmental Site Assessment
Ward Park
Dunkirk, Calvert County, Maryland

SCALE
 Not to Scale

DATE
 July 2014

SOURCE
 USGS TOPOGRAPHIC MAP LOWER
 MARLBORO, MARYLAND QUAD

FIGURE
 2

well-drained soil derived from loamy fluviomarine deposits with a depth to water table between 40 to 80 inches.

Downer-Woodstown complex is comprised of approximately 65 percent Downer, 25 percent Woodstown and 10 percent minor components. Downer soil is a well-drained soil derived from loamy fluviomarine deposits and/or gravelly fluviomarine deposits with a depth to water table at approximately 40 to 70 inches. Woodstown soil is a moderately well-drained soil derived from loamy fluviomarine deposits with a depth to water table at approximately 20 to 40 inches.

Ingleside loamy sand is comprised of approximately 80 percent Ingleside and 10 percent Galestown and 10 minor components. Ingleside is a well-drained soil derived from loamy eolian deposits and/or fluviomarine deposits with a depth to water table between 40 to 72 inches.

Ingleside-Evesboro Complex is comprised of approximately 70 percent Ingleside, 10 percent Evesboro and 10 minor components. Ingleside is described above. Evesboro is an excessively drained soil derived from sandy eolian deposits and/or fluviomarine sediments with a depth to water table between 40 to 72 inches.

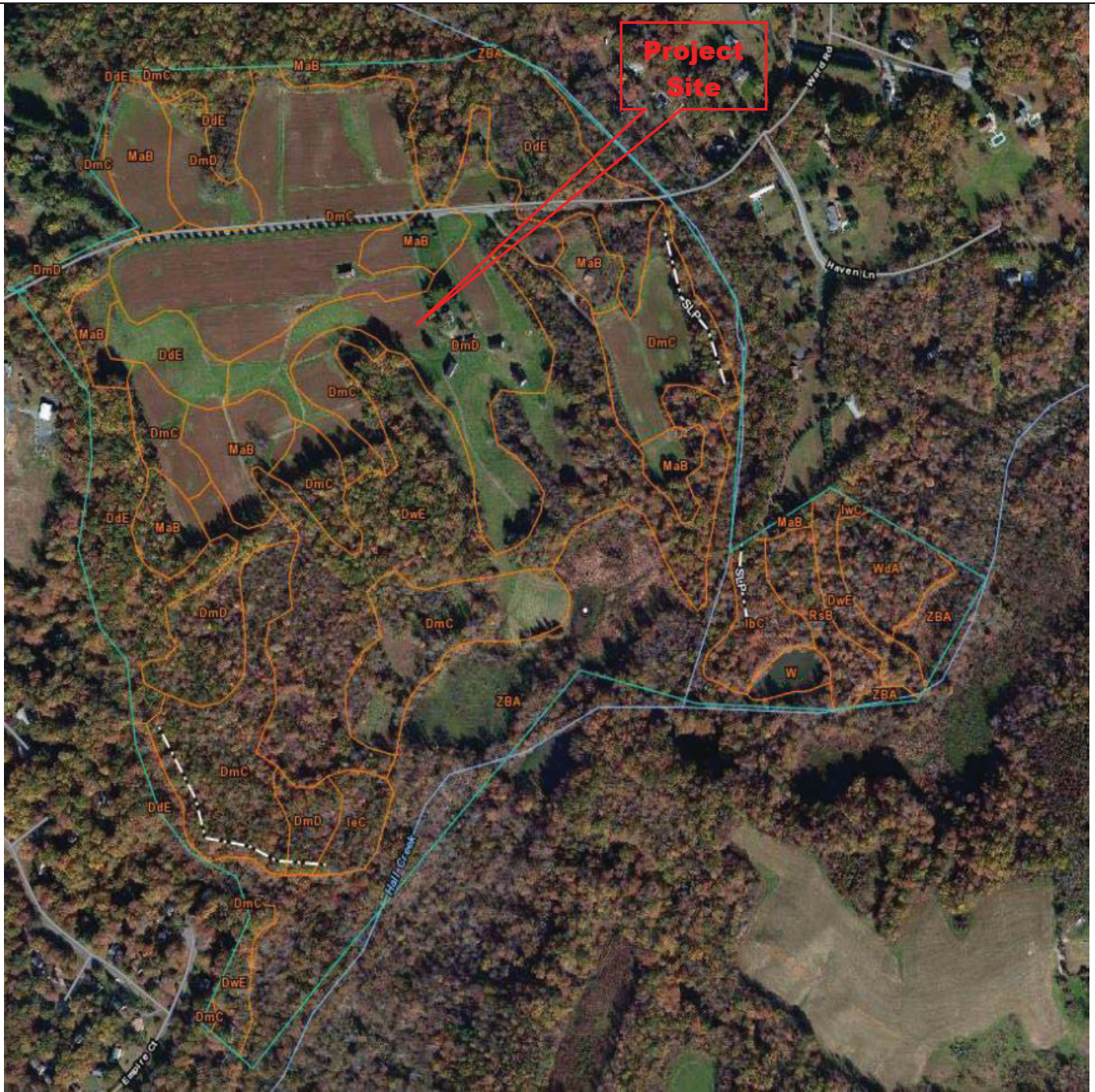
Ingleside-Woodstown Complex is comprised of approximately 70 percent Ingleside, 20 percent Woodstown and 10 minor components. Ingleside and Woodstown are described above.


Zekiah and Issue soils are comprised of approximately 40 percent Zekiah, 40 percent Issue and 20 minor components. Specifically, Zekiah soil is a somewhat poorly drained soil derived from loamy alluvium with a depth to water table between 0 to 10 inches; Issue soil is a somewhat poorly drained soil derived from loamy alluvium with a depth to water table between 10 to 20 inches. A *Soil Survey Map* showing the distribution of soils across the project site is shown in *Figure 3*.

2.3 Geology

According to the *Physiographic Provinces and Their Subdivisions in Maryland* (2001) map, Calvert County is located in the Coastal Plain physiographic province of Maryland located between the Potomac River and the Chesapeake Bay. More specifically, Calvert County is located in the Western Shore Uplands Region. According to the *Geologic Map of Maryland* (1968), Upland Deposits (Western Shore) is made up of “Gravel and sand, commonly orange-brown, locally limonite-cemented; minor silt and red, white, or gray clay; (includes Brandywine, Bryn Mawr, and Sunderland Formations of earlier reports); lower gravel member and upper loam in Southern Maryland; thickness 0 to 50 feet.” The sediments of the Coastal Plain range in age from Triassic to Quaternary and minerals are mainly gravel and sand with some clay, iron ore and a number of aquifers throughout the region.





 <p>Whitman, Requardt & Associates, LLP Engineers Architects Planners</p>		<p>SOIL SURVEY MAP</p> <p>Phase I Environmental Site Assessment Ward Park Dunkirk, Calvert County, Maryland</p>		
SCALE	DATE	SOURCE	FIGURE	
Not to Scale	July 2014	USDA-NRCS	3	

2.4 Previous Land Use

Historical maps were searched in the effort to assess historical land use practices at the project site and in the surrounding vicinity. WR&A reviewed a historic topographic map report, containing maps dating from 1901 to 1970, and an aerial photograph report, containing aerial photographs dating from 1957 to 2011, supplied by Environmental Data Resources (EDR) to determine previous land use for the project site. EDR conducted a search of its collection of available *Sanborn® Fire Insurance Maps* and none were found. The historical reference materials are located in *Appendix A*.

Historically, the project site was undeveloped until sometime between 1950-1957 when approximately half of the property was cleared then used primarily for agriculture with two residential homes onsite. The remainder of the project site has remained as undeveloped woodlands. Properties in the surrounding areas have historically consisted of a mixture of undeveloped woodlands and sparse residential development but have recently become increasingly residentially developed. The 1901, 1906, and 1910 topographic maps depict the project site and surrounding areas as undeveloped. The 1938, 1950 and 1953 topographic maps depict the site as undeveloped with the southern portion of Ward Road depicted as an unimproved road, trending east to west from State Route 4. The 1957 through 2011 aerial photos show the site as it appears today, with the two parcels cleared for agriculture with the residential home and associated barns present. The 1970 topographic map depicts the site consistent with how it appears today with Ward Road as an improved roadway, trending east to west from State Route 4 before the direction changes north to south connecting to Brickhouse Road. Additionally, Google Earth® aerial imagery was also reviewed from the years 1993 to 2012 and showed the project consistent with current conditions. Historic topographic maps and aerial imagery suggest that the project site was cleared for agricultural and residential use sometime between 1950 and 1957. Copies of the 1957 and 2012 aerial photographs are included as *Figures 4 and 5*, respectively.

2.5 Regulatory Contacts and Interviews

On April, 2014 WR&A submitted a written request to Mr. William Haygood, acting Director of Environmental Health at the Calvert County Department of Health regarding spills, releases, wells, and other reported environmental concerns associated with the project site. On April 17, 2014 WR&A received a written response and well and septic information from Mr. Haygood, LEHS, with the Calvert County Health Department, Division of Environmental Health. Mr. Haygood's written response stated that there are no records or information available documenting any violations regarding the property.


On April 10, 2014 WR&A submitted written requests to the Calvert County Fire-Rescue-EMS and the Dunkirk Volunteer Fire Department (Calvert 5) regarding spills, releases, and other reported



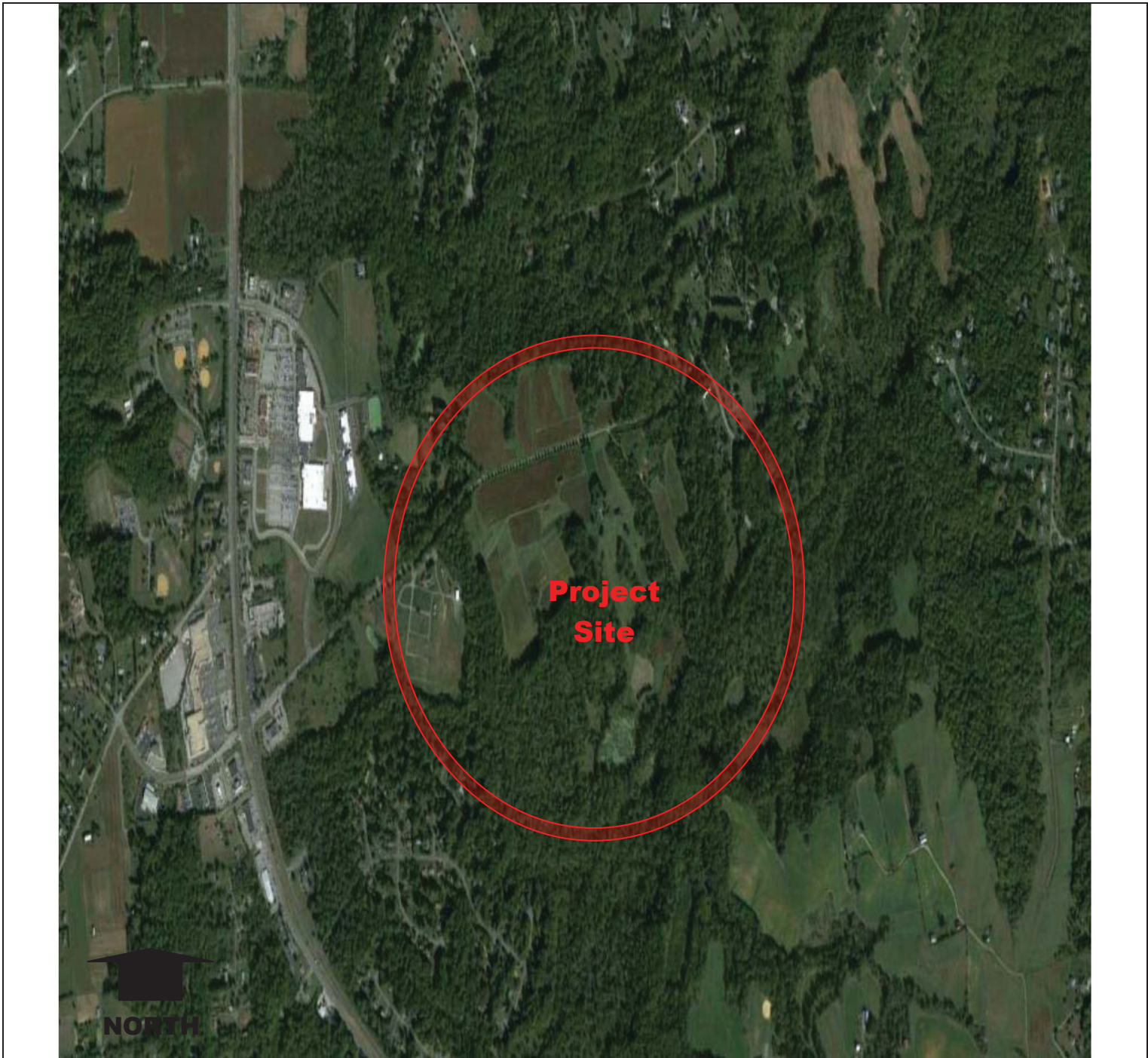



Project Site

NORTH

 <p>Whitman, Requardt & Associates, LLP Engineers Architects Planners</p>		<p>1957 Aerial Photo Phase I Environmental Site Assessment Ward Park Dunkirk, Calvert County, Maryland</p>	
<p>SCALE Not to Scale</p>	<p>DATE July 2014</p>	<p>SOURCE EDR Aerial Photo Decade Package</p>	<p>FIGURE 4</p>

4a



 Whitman, Requardt & Associates, LLP Engineers Architects Planners		2012 Aerial Photo Phase I Environmental Site Assessment Ward Park Dunkirk, Calvert County Maryland	
SCALE Not to Scale	DATE July 2014	SOURCE Google Earth	FIGURE 5

4b

environmental concerns associated with the project site. As of the completion of this report, no responses from either the Calvert County Fire-Rescue-EMS or the Calvert 5 Fire Department have been received. If future responses are received, they will be provided as an addendum to this report, under separate cover. Copies of WR&A's correspondence are included in *Appendix B*.

2.6 User Supplied Information

Calvert County provided a property survey map showing parcel identification numbers, acreage, and physical addresses. No other user supplied information from the Client was provided during the preparation of this Phase I ESA.

2.7 Previous Reports

No previous reports were provided during the preparation of this Phase I ESA.

2.8 Supplemental Reports

No supplemental reports were provided during the preparation of this Phase I ESA.

3.0 SITE RECONNAISSANCE

WR&A conducted the site reconnaissance on April 11, 2014. The project site was surveyed for unusual environmental conditions including discolored or disturbed soil areas, drums, aboveground storage tanks (ASTs), underground storage tanks (USTs), discolored surface water, unusual or noxious odors, transformers, unusual surface features, septic or water supply systems, and groundwater monitoring wells.

At the time of WR&A's site reconnaissance the project site consisted of two parcels, Parcel 54 and Parcel 70. Parcel 54, identified with the physical address 10455 Ward Road, consists of approximately 137 acres located south of Ward Road and approximately 32 acres north of Ward Road. Parcel 70, identified with the physical address 10501 Ward Road, consists of approximately 40 acres and is located east of Parcel 54 and south of Ward Road. The entire project site extends north and south of Ward Road and consists of both cleared agricultural areas and undeveloped wooded areas located approximately ½ mile east of the town of Dunkirk, MD. Two residential homes, three large barns and two sheds are located on the project site, specifically within Parcel 54. A vacant caretaker house is located on the north side of Ward Road and the occupied main residence, barns and sheds are located south of Ward Road. WR&A observed indications of three USTs and one underground propane tank onsite, specifically near the occupied residential home. The first UST consists of an old petroleum dispenser and UST port located approximately 85-feet southwest of the home and the project site. WR&A was able to access the UST and determined it to be empty but was unable to determine the tank



size. The second tank was observed to be a heating oil UST located along the western side of the home, WR&A did not access this tank and was unable to determine the tank size. The third UST observed during the site reconnaissance was an approximate 250-gallon UST and was observed to be removed from the ground and out of commission and was stored within the barn located approximately 385 feet southeast of the residence. The underground propane tank was observed along the northeastern corner of the home. WR&A did not access the propane tank and was unable to determine the tank size. One pad-mounted transformer was observed on the west side of the residential home and appeared to be in good condition. Several empty 55-gallon drums were observed in a storage area under one of the barns located southwest of the home and within the eastern most utility shed. Several smaller chemical containers of various sizes, including herbicides, hydraulic oil, coolant and unlabeled chemicals, were also observed within the western most utility shed. No indications of staining were observed around any of the storage tanks, transformer, or chemical storage areas. Two drinking water wells, one near each house, were observed during the site reconnaissance. Evidence of dumping was observed in three areas within the project site. One area, located in the center of parcel 54 contained plastic containers, several 5-gallon buckets and miscellaneous household trash. Another area located on the eastern border of the project site was observed to contain shingles, wood and construction debris. The third area, located near the access road for parcel 70 contained two old couches, some miscellaneous construction debris and approximately a dozen tires. No spills, leaks, noxious odors or indications of monitoring wells were observed on the project site during the site reconnaissance. WR&A did not observe pits or groundwater monitoring wells on the project site or on the adjacent properties. Photographs taken during WR&A's site reconnaissance are included in this report as *Appendix C*.

4.0 SURROUNDING LAND USES

At the time of WR&A's site reconnaissance, an undeveloped wooded area and a few residential homes located off of McCracken Drive bordered the site to the north and east. The area to the south is comprised of a large undeveloped wooded tract of land with some residential homes, churches and a soccer and baseball field associated with the Cardinal Hickey Academy areas along West Harmony Road. A few residential homes mixed with agricultural use and undeveloped woodlands are located immediately to the west with some commercial properties bordering Southern Maryland Boulevard (including Dunkirk Village shopping center) further to the west. WR&A personnel did not observe indications of monitoring wells, obvious spills, leaks, discolored water, noxious odors, stained soils, pits, lagoons, drums, or stressed vegetation consistent with exposure to contaminants on properties bordering the project site.

5.0 REGULATORY RECORDS REVIEW



WR&A retained EDR to perform a search of Federal and State regulatory agency databases for the project site and surrounding vicinity. This database search was performed to meet the requirements of EPA's Standards and Practices for All Appropriate Inquires (40 CFR Part 312) and the ASTM Standard Practice for ESA (E1527-13). WR&A personnel attempted to field-verify the locations of the regulatory sites identified by EDR, and this information is reflected in the contents of this section. The EDR Radius Map Report is attached to this report as *Appendix D*. The following databases were searched at the noted search distances:

FEDERAL DATABASES SEARCHED BY EDR		
DATABASE	DESCRIPTION	SEARCH DISTANCE
NPL	National Priorities List (Superfund). Hazardous waste sites targeted for possible long-term remedial action under the Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS).	1 mile
Proposed NPL	Proposed National Priority List Sites.	1 mile
Delisted NPL	National Priority List Deletions. The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establish the criteria that the EPA uses to delete sites from the NPL.	1 mile
NPL LIENS	Federal Superfund Liens.	Project site
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS). Sites that are proposed for or on the NPL, or in the screening or assessment phase for possible inclusion on the NPL.	½ mile
Federal Facility	Federal Facility Site Information listing	½ mile
CERC-NFRAP	Archived CERCLIS sites with a status of No Further Remedial Action Planned (NFRAP), denoting sites where, following an initial investigation, either no contamination was found, contamination was removed quickly without 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. The NFRAP status does not necessarily indicate that no environmental concerns are present.	½ mile
CORRACTS	Hazardous waste handlers with Resource Conservation and Recovery Act (RCRA) corrective action activity.	1 mile
RCRA-TSDF	Resource Conservation and Recovery Information System (RCRIS), Treatment, Storage, and Disposal (TSD) facilities. Hazardous waste handlers.	½ mile
RCRA-LQG	RCRIS sites that are large-quantity generators (LQG) of hazardous waste. LQGs generate over 1,000 kg of hazardous waste, or over 1 kg of acutely hazardous waste per month.	¼ mile
RCRA-SQG	RCRIS sites that are small-quantity generators (SQG) of hazardous waste. SQGs generate between 100 kg and 1,000 kg of hazardous waste per month.	¼ mile
RCRA-CESQG	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.	¼ mile
RCRA-NonGen	RCRA-Non Generators. Non-Generators do not presently generate hazardous waste.	¼ mile
ERNS	Emergency Response Notification System. Information on releases of oil and hazardous substances.	Project site
HMIRS	Hazardous Materials Information System Database. A list of release incident information reported to the Department of Transportation by carriers of hazardous materials.	Project site
US ENG CONTROLS	Engineering Controls Sites List. A list of sites with engineering controls in place including various forms of caps, building foundations, liners, and treatment methods.	½ mile
US INST CONTROL	Sites with Institutional Controls. A listing of sites with institutional controls in place, including administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements.	½ mile



FEDERAL DATABASES SEARCHED BY EDR		
DATABASE	DESCRIPTION	SEARCH DISTANCE
DOD	Department of Defense Sites. Data set of federally owned or administered lands having area equal to or greater than 640 acres of the US, Puerto Rico, and the US Virgin Islands.	1 mile
FUDS	Formerly used Defense properties where the USACE is actively working or will take necessary cleanup actions.	1 mile
US BROWNFIELDS	A listing of Brownfield sites	½ mile
CONSENT	Superfund (CERCLA) Consent Decrees. Major legal settlements that establish responsibility and standard for cleanup at NPL (Superfund) sites.	1 mile
ROD	Records of Decision. ROD documents mandate a permanent cleanup at an NPL (Superfund) site containing technical and health information to aid in the cleanup.	1 mile
UMTRA	Uranium Mill Tailings Sites. (Mined by private companies for federal government use in national defense programs.)	½ mile
DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations. A listing of illegal dump sites located on the Torres Martinez Indian Reservation located in eastern Riverside and northern Imperial County, California.	½ mile
ODI	Open Dump Inventory. Disposal facility that does not comply with one or more of CFR Part 257 or Part 258 Subtitle D Criteria.	½ mile
TRIS	Toxic Chemical Release Inventory System. TRIS identifies facilities, which release toxic chemicals into the air, water, and land in reportable quantities.	Project site
TSCA	Toxic Substance Control Act. An inventory, which includes locations and chemical production of more than 700 processors and manufacturers of chemicals.	Project site
FTTS	National Compliance Database tracking administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA, and EPCRA.	Project site
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing. Information was obtained from the National Compliance Database. May include data not included in newer FTTS database.	Project site
SSTS	Section 7 Tracking Systems of the Federal Insecticide, Fungicide, and Rodenticide Act	Project site
ICIS	Integrated Compliance Information System supports information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.	Project site
US CDL	Clandestine Drug Labs Database. Locations listed by the U.S. Department of Justice.	Project site
US HISTORICAL CDL	National Clandestine Laboratory Register. A listing of clandestine drug lab locations.	Project site
LUCIS	Land Use Control Information System. Contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.	½ mile
RADINFO	Radiation Information Database. Contains information about EPA regulated facilities for radiation and radioactivity.	Project site
DOT OPS	Incident and Accident Data from the Department of Transportation, Office of Pipeline Safety Incident and Accident data	Project site
PADS	PCB Activity Database System. The PADS database stores information about facilities that handle polychlorinated biphenyls (PCBs).	Project site
MLTS	Material License Tracking System. MLTS contains information on sites licensed by the NRC to handle radioactive materials.	Project site
MINES	Mines Master Index File. Contains all mine identification numbers issued for mines active or opened since 1971.	¼ mile
FINDS	Facility Index System. An inventory of all facilities that are regulated or tracked by the EPA.	Project site
RAATS	RCRA Administrative Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violations and includes administrative and civil actions brought by the EPA.	Project site



FEDERAL DATABASES SEARCHED BY EDR		
DATABASE	DESCRIPTION	SEARCH DISTANCE
RMP	Risk Management Plans. Required of companies that use certain flammable and toxic substances to develop a Risk Management Program that includes hazard assessments, accident histories, a prevention program, and an emergency response program.	Project site
UIC	Underground Injection Wells Database	Project site
NPDES	Wastewater Permit Listing. Listings of wastewater permit locations.	Project Site
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing. It is comprised of representatives of states with established drycleaner remediation programs.	½ mile
COAL ASH	Coal Ash Disposal Site Listing	½ mile
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List. A listing of coal combustion residues surface impoundments with high hazard potential ratings.	½ mile
COAL ASH DOE	Steam-Electric Plan Operation Data. A listing of power plants that store ash in surface ponds.	Project site
PCB TRANSFORMER	Database of PCB transformer registrations that includes all PCB registration submittals	Project site
US FIN ASSUR	Financial Assurance Information. All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean-up, closure, and post-closure care of their facilities.	Project site
EPA WATCH LIST	EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority.	Project site
PRP	A listing of verified Potentially Responsible Parties	Project site
2020 COR ACTION	2020 Corrective Action Program List. This RCRA cleanup baseline includes facilities expected to need corrective action. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation.	¼ mile
US AIRS	Aerometric Information Retrieval System Facility Subsystem. A sub-system of the AIRS database that contains compliance data on air pollution point sources regulated by EPA.	Project site
FINANCIAL ASSURANCE	Financial Assurance Information Listing	Project site
LRP	A listing of Land Restoration Program sites. Includes information from several databases including VCP, NPL, Brownfields, FUDS, etc.	½ mile

TRIBAL DATABASES SEARCHED BY EDR		
DATABASE	DATABASE	DATABASE
INDIAN RESERV	Indian administered lands of the US having area equal to or greater than 640 acres	1 mile
INDIAN LUST	Leaking Underground Storage Tanks on Indian Land	½ mile
INDIAN UST	Underground Storage Tanks on Indian Land	¼ mile
INDIAN VCP	Voluntary Cleanup Priority Listing	½ mile
INDIAN ODI	Report on the Status of Open Dumps on Indian Land	½ mile

EDR PROPRIETARY RECORDS		
DATABASE	DATABASE	DATABASE
Manufactured Gas Plants	Database including records of coal gas plants used in the US from the 1800's to 1950's	1 mile
EDR Historical Auto Stations	EDR Proprietary Historic Gas Stations	¼ mile
ERD Historical Cleaners	EDR Proprietary Historic Dry Cleaners	¼ mile



LOCAL (MARYLAND) DATABASES SEARCHED BY EDR		
DATABASE	DESCRIPTION	SEARCH DISTANCE
SHWS	Notice of Potential Hazardous Waste Sites	1 mile
SWF/LF	Permitted Solid Waste Disposal Facilities	½ mile
SWRCY	Recycling Directory	½ mile
OCPCASES	Oil Control Program Cases	½ mile
HIST LUST	Recovery Sites	½ mile
UST	Registered Underground Storage Tank List	¼ mile
FEMA UST	A listing of all FEMA owned underground storage tanks	¼ mile
ENG CONTROLS	Engineering Controls Site listing. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.	½ mile
Historical UST	Historical UST Registered Database	¼ mile
LIENS 2	CERCLA Lien information. A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies.	Project site
AST	Permitted Aboveground Storage Tanks	¼ mile
INST CONTROL	Voluntary Cleanup Program Applicants/Participants	½ mile
VCP	Voluntary Cleanup Program Applicants/Participants	½ mile
DRYCLEANERS	Registered Dry-cleaning Facilities	¼ mile
BROWNFIELDS	Eligible Brownfields Properties	½ mile
AIRS	Permit and Facility Information Listing	Project Site
LEAD	Lead Inspection Database	Project Site

The EDR report identified 4 OCPCASES, 1 HIST LUSTs, 1 UST sites in the surrounding vicinity of the project site within the above specified search distances. WR&A requested that MDE search their files for records of the OCPCASES within the project site and specified search distance. MDE indicated that one OCPCASE remained open. On May 5, 2010 WR&A personnel conducted a file review at MDE of these sites that are within the project site or within one city block of the project site. The site locations, regulatory status and other applicable information are listed in the table below.



EDR IDENTIFIED REGULATORY SITES IN SURROUNDING REGION			
LOCATION	DATABASE INFORMATION	MDE FILE INFORMATION	DISTANCE/DIRECTION FROM PROJECT SITE
Charles Edwards Residence 1960 Haven Lane Dunkirk, MD 20754	OCP Case OCP Case #: 10-0468CA Facility Status: Closed / AST leak Date Open: 03/05/2010 Date Closed: 06/02/2010 Release: Yes Cleanup: Yes	<ul style="list-style-type: none"> ◆ AST leak –residential heating oil. ◆ Resident had new AST installed (replacing old AST) in summer of 2008. Product line from previous tank was used. ◆ Resident noticed above average consumption of heating oil. ◆ Resident began experiencing petroleum odors in house due to leaking line. ◆ Contractor replaced the line in 2010. ◆ Petroleum contaminated soils remained under house and resident was concerned about their drinking water well. ◆ Approximately 2.5 tons of petroleum impacted soil was hand excavated from beneath the house. ◆ Area was delineated and potential receptors were sampled and indicated that the contamination was isolated to shallow soils beneath the house. 	± 181 feet east
Jacquelyn Ewing (Red Hall) 10340 Ward Road, Dunkirk, MD 20754	OCP Case OCP Case #: 2002-0627CA Facility Status: Closed UST Registration: Facility ID: 14205	<ul style="list-style-type: none"> ◆ Two USTs: One 1,000-gallon gasoline steel UST and one 550 gallon diesel UST installed in 1971. ◆ Tanks were removed from the ground on 11/8/2001. ◆ No contamination observed under diesel tank and slight contamination observed under gas tank; soil was spread onsite to volatilize. 	± 400 feet west
Marcella La Fley 10221 Ward Road, Dunkirk, MD 20754	OCP Case OCP Case #: 96-0742CA Facility Status: Closed /AST Leak Date Open: 10/23/1995 Date Closed: 02/21/2001 Release: Yes Cleanup: Yes	<ul style="list-style-type: none"> ◆ MDE information stated file was destroyed. 	± 1,050 feet west



EDR IDENTIFIED REGULATORY SITES IN SURROUNDING REGION			
LOCATION	DATABASE INFORMATION	MDE FILE INFORMATION	DISTANCE/DIRECTION FROM PROJECT SITE
Dunkirk Sunoco (Besche Oil Site & Hawkins Store) 9850 Southern MD. BLVD, Dunkirk, MD 20754	<p>Historical LUST OCP#:93-0750CA Facility Status: Closed Date Closed: 11/29/2001</p> <p>OCP Case OCP Case #: 99-2787CA Date Opened: 5/17/1999 Facility Status: Open</p> <p>UST Registration: Facility ID: 2541</p>	<ul style="list-style-type: none"> ◆ Active Sunoco Station with Four USTs: One 12,000 gallon, Two 10,000 gallon gasoline and one 550 gallon heating oil tanks installed in 1996. ◆ Three active ASTs onsite. ◆ Five USTs removed from the ground in 1992 and five monitoring wells were installed. ◆ Phase II ESA was conducted in 2001 3 soil borings were installed near USTs and dispensers and soil and groundwater was sampled. Groundwater indicated concentrations of petroleum (dissolved phase) compounds above MDE groundwater standards. ◆ Case was closed on 11/29/2001. ◆ Liquid phase petroleum was discovered in tank field observation well in 2007. ◆ Three monitoring wells were installed down gradient. ◆ MDE requires quarterly sampling of monitoring wells in 2007. ◆ Monitoring-no active remediation. Sampling of monitoring wells only. ◆ Change of operators the site occurred on 5/8/11; station was out of service. ◆ MDE sends notice to owner (Carroll Independent Fuel Company) stating that USTs had exceeded temporary closure time conditions and require permanent closure. ◆ Site reconnaissance revealed that the site is active all monitoring wells were abandoned. 	± 2,616 feet southwest
Dunkirk Village Shopping Center Route 4 Ward & Road Dunkirk, MD 20754	<p>UST Registration: Facility ID: 3004670 (Hist. UST) Facility ID: 15459</p>	<ul style="list-style-type: none"> ◆ Active petroleum facility (BP Station) observed. ◆ No violations found. 	± 2,844 feet west northwest



The EDR report did not identify sites of known environmental concern or regulation associated with the project site. The EDR report did not identify any regulatory sites in the surrounding vicinity of the project site within the above specified search distances.

The EDR Report included a list of “Orphan Sites”, which EDR indicates could not be plotted on its part due to insufficient address and/or geographic coordinate information. WR&A reviewed the list of Orphan Sites and, based on the descriptions provided, approximated their locations relative to the project site to determine if the Orphan Sites were located within the specified search radii from the project site. Based on WR&A’s evaluation of this information, none of these sites appear to be located within the regulatory search limits of the project site.

Based on WR&A’s site visit, the lack of sites identified with known environmental concerns, and topographic reviews of the area and surrounding vicinity, it is unlikely that contamination has adversely impacted the subsurface of the project site.

6.0 ENVIRONMENTAL LIEN

WR&A did not request EDR to perform an Environmental LienSearch™ Report for the project site because the Client does not seek to obtain parcels which may be temporarily impacted.

7.0 DATA GAPS

No data gaps have been identified during preparation of this Phase I ESA.



8.0 CONCLUSIONS AND RECOMMENDATIONS

Calvert County has requested a Phase I Environmental Site Assessment (ESA) for the proposed Ward Park located off Ward Road in Dunkirk, MD. According to the Calvert County Recorder, the project site is owned by the Board of County Commissioners of Calvert County and identified as Parcel # 03-106748 / Parcel 70 and Parcel # 03-020045 / Parcel 54 on Map 9 which are located in the St. Charles area of Charles County, Maryland (herein identified as “project site”). The project site is comprised of approximately 209 acres of along Ward Road.

Historically, the project site was undeveloped until sometime between 1950-1957 when approximately half of the property was cleared then used primarily for agriculture with two residential homes. The remainder of the project site has remained as undeveloped woodlands.

WR&A conducted the site reconnaissance on April 11, 2014. The project site was surveyed for unusual environmental conditions including discolored or disturbed soil areas, drums, aboveground storage tanks (ASTs), underground storage tanks (USTs), discolored surface water, unusual or noxious odors, transformers, unusual surface features, septic or water supply systems, and groundwater monitoring wells. At the time of WR&A’s site reconnaissance the project site consisted of two parcels, Parcel 54 and Parcel 70. Parcel 54, identified with the physical address 10455 Ward Road, consists of approximately 137 acres located south of Ward Road and approximately 32 acres north of Ward Road. Parcel 70, identified with the physical address 10501 Ward Road, consists of approximately 40 acres and is located east of Parcel 54 and south of Ward Road. The entire project site extends north and south of Ward Road and consists of both cleared agricultural areas and undeveloped wooded areas located approximately ½ mile east of the town of Dunkirk, MD. Two residential homes, three large barns and two sheds are located on the project site, specifically within Parcel 54. A vacant caretaker house is located on the north side of Ward Road and the occupied main residence, barns and sheds are located south of Ward Road. WR&A observed indications of three USTs and one underground propane tank onsite, specifically near the occupied residential home. The first UST consists of an old petroleum dispenser and UST port located approximately 85-feet southwest of the home and the project site. WR&A was able to access the UST and determined it to be empty but was unable to determine the tank size. The second tank was observed to be a heating oil UST located along the western side of the home, WR&A did not access this tank and was unable to determine the tank size. The third UST observed during the site reconnaissance was an approximate 250-gallon UST and was observed to be removed from the ground and out of commission and was stored within the barn located approximately 385 feet southeast of the residence. The underground propane tank was observed along the northeastern corner of



the home. WR&A did not access the propane tank and was unable to determine the tank size. One pad-mounted transformer was observed on the west side of the residential home and appeared to be in good condition. Several empty 55-gallon drums were observed in a storage area under one of the barns located southwest of the home and within the eastern most utility shed. Several smaller chemical containers of various sizes, including herbicides, hydraulic oil, coolant and unlabeled chemicals, were also observed within the western most utility shed. No indications of staining were observed around any of the storage tanks, transformer, or chemical storage areas. Two drinking water wells, one near each house, were observed during the site reconnaissance. Evidence of dumping was observed in three areas within the project site. One area, located in the center of parcel 54 contained plastic containers, several 5-gallon buckets and miscellaneous household trash. Another area located on the eastern border of the project site was observed to contain shingles, wood and construction debris. The third area, located near the access road for parcel 70 contained two old couches, some miscellaneous construction debris and approximately a dozen tires. No spills, leaks, noxious odors or indications of monitoring wells were observed on the project site during the site reconnaissance.

WR&A did not observe pits or groundwater monitoring wells on the project site or on the adjacent properties. WR&A retained EDR to perform a search of Federal and State regulatory agency databases for the project site and surrounding vicinity. The EDR report did not identify sites of known environmental concern or regulation associated with the project site nor in the surrounding vicinity of the project site within the specified search distances.

In the future, if existing USTs are going to be permanently out of use, specific closure requirements may be required. WR&A was unable to determine the size of the existing USTs located onsite. According to Maryland Department of the Environment (MDE) Oil Control Program (OCP) guidance, USTs with 1,100 gallon capacities or less, used to store petroleum products at a private residence or farm are exempt from most Maryland regulations. However, these systems must comply with closure requirements when no longer used as a fuel source (COMAR 26.10.10). The MDE OCP does not require prior notice of the closure but does require that the contractor is a MDE certified for tank removal activities. Additionally, the tank owner and the contractor must report the discovery of a petroleum release as required by Maryland law and regulations.

Based on the information contained in this report, information provided by Environmental Data Resources, and WR&A's visual inspection of the project site, there are no recognized environmental conditions associated with the project site.

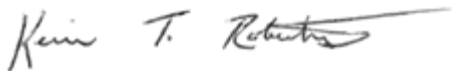


9.0 SIGNATURE(S) AND QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONAL(S)

Signature of the environmental professional below certifies that he/she meets the definition of an environmental professional and maintains the relevant experience in accordance with *ASTM Designation E1527-13: Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*, which is pursuant to *40 CFR Part 312 Standards and Practices for All Appropriate Inquiries*.

Prepared by:

Whitman, Requardt & Associates, LLP



Kevin T. Roberts, Environmental Scientist (qualified Environmental Professional)

Reviewed by:



Amanda J. Baxter, Vice President (qualified Environmental Professional)



10.0 REFERENCES

- Environmental Data Resources, Inc. (EDR). 2014. *Certified Sanborn® Map Report. Ward Park, Ward Road, Dunkirk, MD 20754.*
- EDR. 2014. *EDR Aerial Photo Decade Package. Ward Park, Ward Road, Dunkirk, MD 2020754.*
- EDR. 2013. *EDR Historical Topographic Map Report. Ward Park, Ward Road, Dunkirk, MD 20754.*
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- Google Earth. 2014. “Ward Park, MD” 38° 43’15.79” N and 76°38’51.01” W, Imagery date: 10/12/2012.
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<http://www.dat.state.md.us/sdatweb/real.html>.
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- United States Geological Survey. *7.5-minute topographic map portions, “Marlboro, United States.”*



APPENDIX A
HISTORICAL REFERENCE MATERIALS

July 2014

Ward Park

Ward Road

Dunkirk, MD 20754

Inquiry Number: 3900443.4

April 03, 2014

EDR Historical Topographic Map Report



6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

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EDR Historical Topographic Map Report

Environmental Data Resources, Inc.'s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

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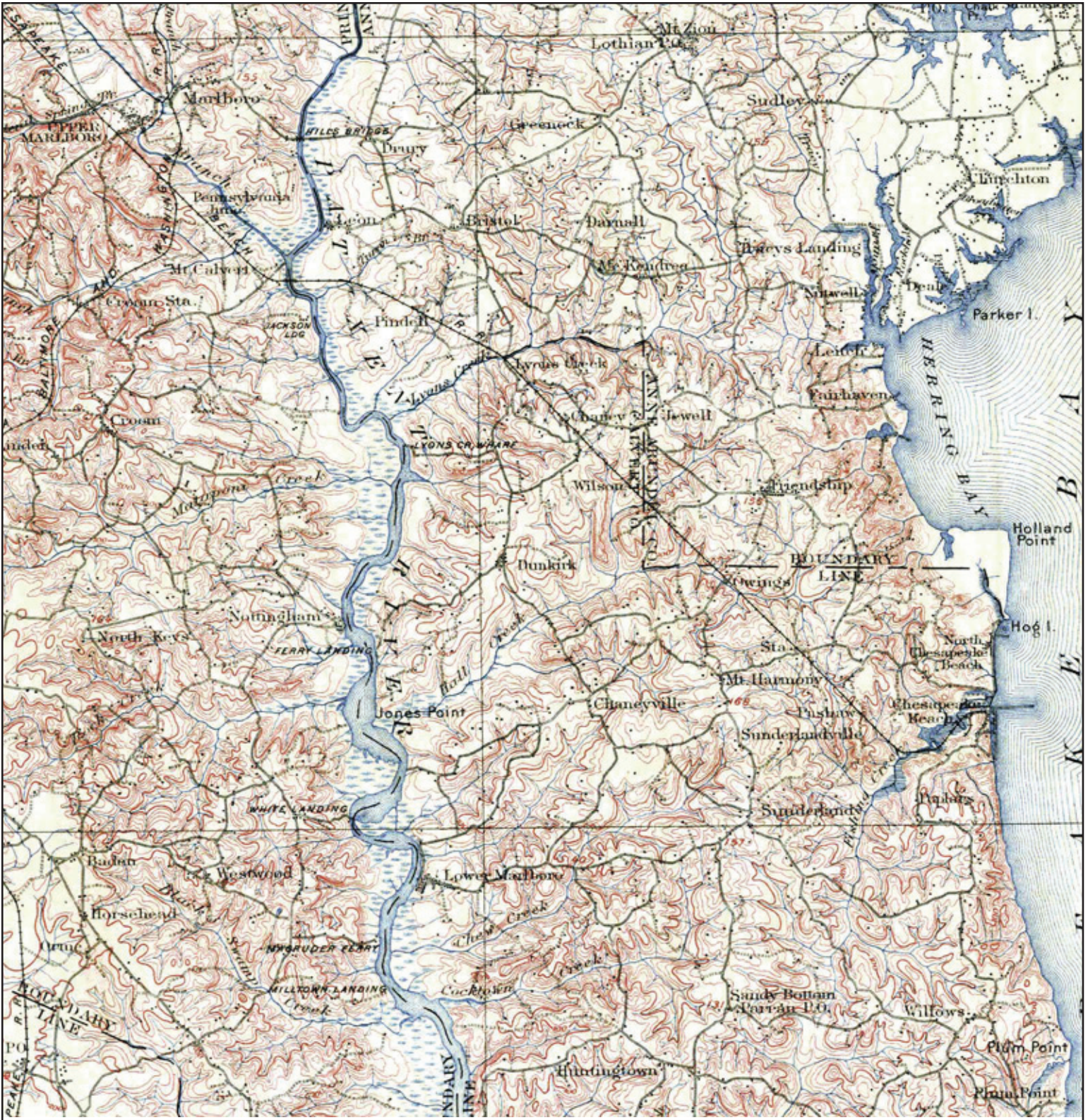
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Historical Topographic Map



<p>N</p> 	TARGET QUAD	SITE NAME: Ward Park	CLIENT: Whitman, Requardt & Assoc, LLP
	NAME: PRINCE FREDERICK	ADDRESS: Ward Road	CONTACT: Kevin T. Roberts
	MAP YEAR: 1901	LAT/LONG: 38.7215 / -76.6477	INQUIRY#: 3900443.4
	SERIES: 15		RESEARCH DATE: 04/03/2014
	SCALE: 1:62500		


Historical Topographic Map



N 	TARGET QUAD NAME: PATUXENT MAP YEAR: 1906	SITE NAME: Ward Park ADDRESS: Ward Road Dunkirk, MD 20754	CLIENT: Whitman, Requardt & Assoc, LLP CONTACT: Kevin T. Roberts INQUIRY#: 3900443.4
	SERIES: 30 SCALE: 1:125000	LAT/LONG: 38.7215 / -76.6477	RESEARCH DATE: 04/03/2014

Historical Topographic Map



	TARGET QUAD	SITE NAME: Ward Park	CLIENT: Whitman, Requardt & Assoc, LLP
	NAME: PRINCE FREDERICK	ADDRESS: Ward Road	CONTACT: Kevin T. Roberts
	MAP YEAR: 1910	Dunkirk, MD 20754	INQUIRY#: 3900443.4
	SERIES: 15	LAT/LONG: 38.7215 / -76.6477	RESEARCH DATE: 04/03/2014
	SCALE: 1:62500		


Historical Topographic Map



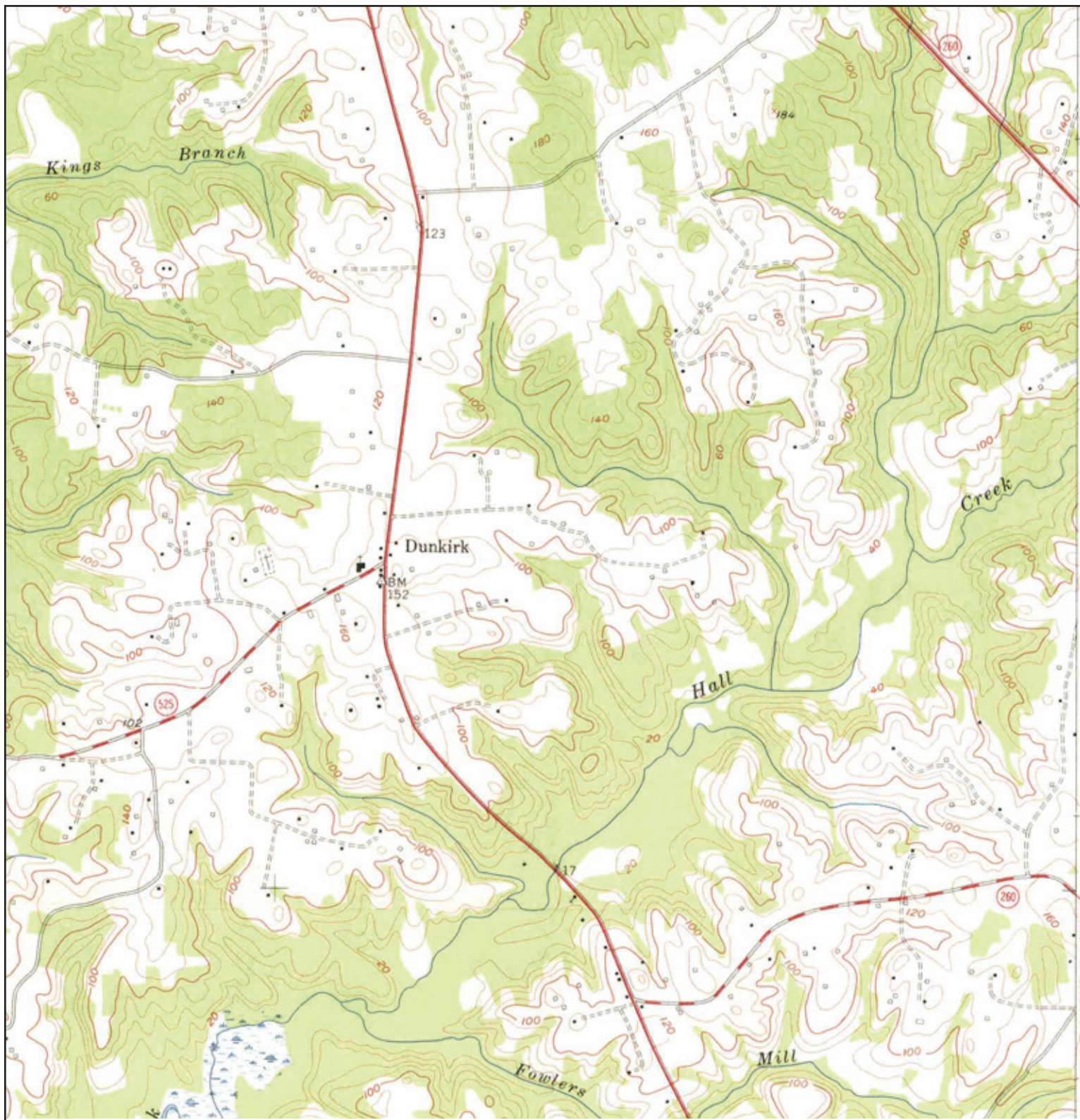
<p>N ↑</p>	<p>TARGET QUAD NAME: PRINCE FREDERICK MAP YEAR: 1938</p>	<p>SITE NAME: Ward Park ADDRESS: Ward Road Dunkirk, MD 20754</p>	<p>CLIENT: Whitman, Requardt & Assoc, LLP CONTACT: Kevin T. Roberts INQUIRY#: 3900443.4</p>
	<p>SERIES: 15 SCALE: 1:62500</p>	<p>LAT/LONG: 38.7215 / -76.6477</p>	<p>RESEARCH DATE: 04/03/2014</p>

Historical Topographic Map



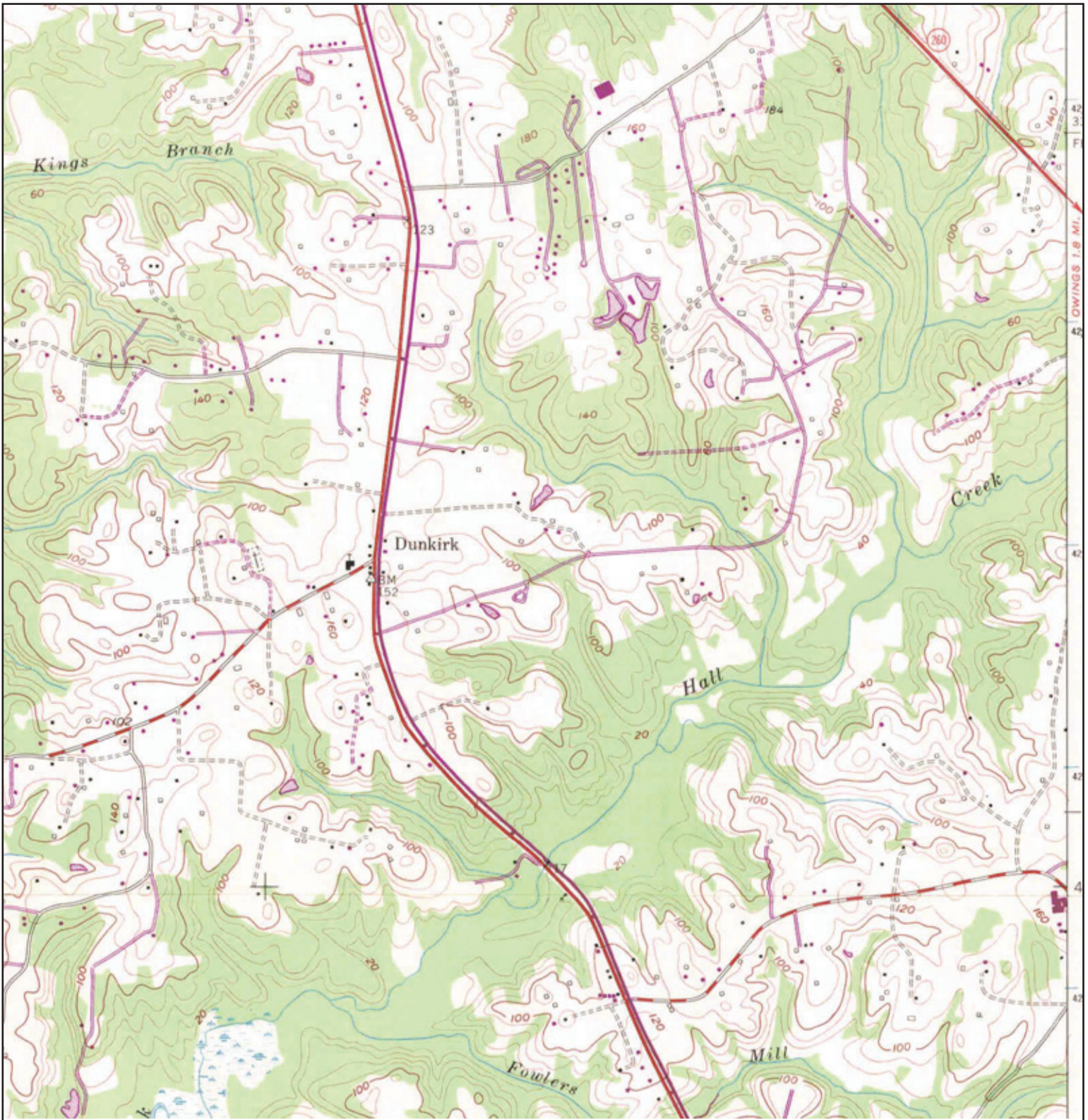
	TARGET QUAD	SITE NAME: Ward Park	CLIENT: Whitman, Requardt & Assoc, LLP
	NAME: PRINCE FREDERICK	ADDRESS: Ward Road	CONTACT: Kevin T. Roberts
	MAP YEAR: 1950	Dunkirk, MD 20754	INQUIRY#: 3900443.4
	SERIES: 15	LAT/LONG: 38.7215 / -76.6477	RESEARCH DATE: 04/03/2014
	SCALE: 1:50000		


Historical Topographic Map



N ↑	TARGET QUAD NAME: LOWER MARLBORO MAP YEAR: 1953	SITE NAME: Ward Park ADDRESS: Ward Road Dunkirk, MD 20754 LAT/LONG: 38.7215 / -76.6477	CLIENT: Whitman, Requardt & Assoc, LLP CONTACT: Kevin T. Roberts INQUIRY#: 3900443.4 RESEARCH DATE: 04/03/2014
	SERIES: 7.5 SCALE: 1:24000		

Historical Topographic Map



	TARGET QUAD	SITE NAME:	Ward Park	CLIENT:	Whitman, Requardt & Assoc, LLP
	NAME: LOWER MARLBORO	ADDRESS:	Ward Road	CONTACT:	Kevin T. Roberts
	MAP YEAR: 1970		Dunkirk, MD 20754	INQUIRY#:	3900443.4
	PHOTOREVISED FROM :1953	LAT/LONG:	38.7215 / -76.6477	RESEARCH DATE:	04/03/2014
	SERIES: 7.5				
	SCALE: 1:24000				

Ward Park

Ward Road

Dunkirk, MD 20754

Inquiry Number: 3900443.12

April 08, 2014

The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

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Date EDR Searched Historical Sources:

Aerial Photography April 08, 2014

Target Property:

Ward Road

Dunkirk, MD 20754

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1957	Aerial Photograph. Scale: 1"=500'	Panel #: 38076-F6, Lower Marlboro, MD;/Flight Date: June 21, 1957	EDR
1957	Aerial Photograph. Scale: 1"=500'	Panel #: 38076-F6, Lower Marlboro, MD;/Flight Date: June 21, 1957	EDR
1960	Aerial Photograph. Scale: 1"=1000'	Panel #: 38076-F6, Lower Marlboro, MD;/Flight Date: February 12, 1960	EDR
1963	Aerial Photograph. Scale: 1"=500'	Panel #: 38076-F6, Lower Marlboro, MD;/Flight Date: October 13, 1963	EDR
1963	Aerial Photograph. Scale: 1"=500'	Panel #: 38076-F6, Lower Marlboro, MD;/Flight Date: October 13, 1963	EDR
1970	Aerial Photograph. Scale: 1"=500'	Panel #: 38076-F6, Lower Marlboro, MD;/Flight Date: August 03, 1970	EDR
1970	Aerial Photograph. Scale: 1"=500'	Panel #: 38076-F6, Lower Marlboro, MD;/Flight Date: August 03, 1970	EDR
1972	Aerial Photograph. Scale: 1"=750'	Panel #: 38076-F6, Lower Marlboro, MD;/Flight Date: July 15, 1972	EDR
1972	Aerial Photograph. Scale: 1"=750'	Panel #: 38076-F6, Lower Marlboro, MD;/Flight Date: July 15, 1972	EDR
1981	Aerial Photograph. Scale: 1"=500'	Panel #: 38076-F6, Lower Marlboro, MD;/Flight Date: January 01, 1981	EDR
1993	Aerial Photograph. Scale: 1"=500'	Panel #: 38076-F6, Lower Marlboro, MD;/DOQQ - acquisition dates: April 08, 1993	EDR
1993	Aerial Photograph. Scale: 1"=500'	Panel #: 38076-F6, Lower Marlboro, MD;/DOQQ - acquisition dates: April 08, 1993	EDR
1998	Aerial Photograph. Scale: 1"=750'	Panel #: 38076-F6, Lower Marlboro, MD;/Flight Date: February 10, 1998	EDR
1998	Aerial Photograph. Scale: 1"=750'	Panel #: 38076-F6, Lower Marlboro, MD;/Flight Date: February 10, 1998	EDR
2000	Aerial Photograph. Scale: 1"=750'	Panel #: 38076-F6, Lower Marlboro, MD;/Flight Date: March 24, 2000	EDR
2000	Aerial Photograph. Scale: 1"=750'	Panel #: 38076-F6, Lower Marlboro, MD;/Flight Date: March 24, 2000	EDR
2005	Aerial Photograph. Scale: 1"=500'	Panel #: 38076-F6, Lower Marlboro, MD;/Flight Year: 2005	EDR
2005	Aerial Photograph. Scale: 1"=500'	Panel #: 38076-F6, Lower Marlboro, MD;/Flight Year: 2005	EDR
2006	Aerial Photograph. Scale: 1"=500'	Panel #: 38076-F6, Lower Marlboro, MD;/Flight Year: 2006	EDR

3900443.12

2

<i>Year</i>	<i>Scale</i>	<i>Details</i>	<i>Source</i>
2006	Aerial Photograph. Scale: 1"=500'	Panel #: 38076-F6, Lower Marlboro, MD;/Flight Year: 2006	EDR
2007	Aerial Photograph. Scale: 1"=500'	Panel #: 38076-F6, Lower Marlboro, MD;/Flight Year: 2007	EDR
2007	Aerial Photograph. Scale: 1"=500'	Panel #: 38076-F6, Lower Marlboro, MD;/Flight Year: 2007	EDR
2009	Aerial Photograph. Scale: 1"=500'	Panel #: 38076-F6, Lower Marlboro, MD;/Flight Year: 2009	EDR
2009	Aerial Photograph. Scale: 1"=500'	Panel #: 38076-F6, Lower Marlboro, MD;/Flight Year: 2009	EDR
2011	Aerial Photograph. Scale: 1"=500'	Panel #: 38076-F6, Lower Marlboro, MD;/Flight Year: 2011	EDR
2011	Aerial Photograph. Scale: 1"=500'	Panel #: 38076-F6, Lower Marlboro, MD;/Flight Year: 2011	EDR

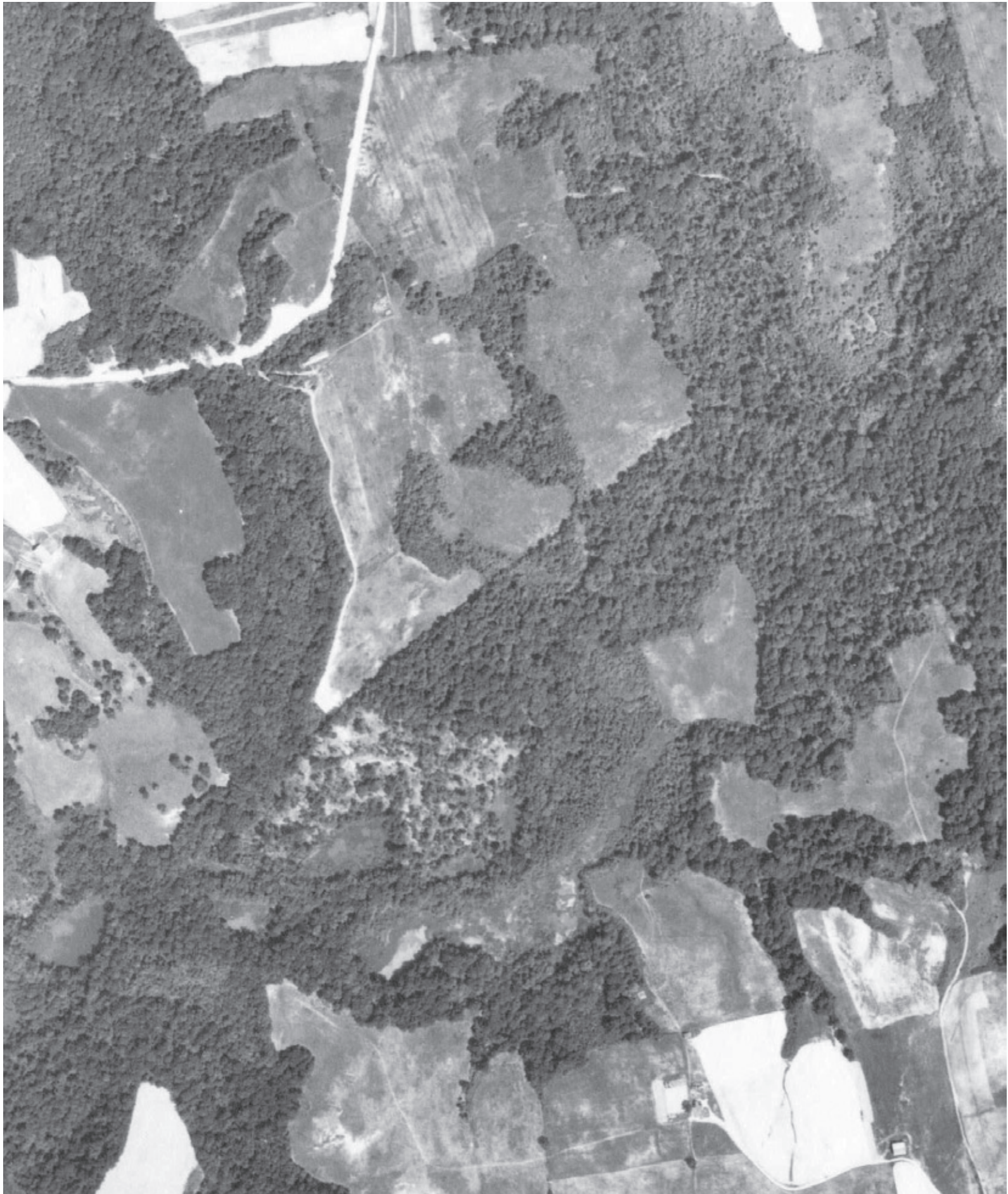


INQUIRY #: 3900443.12

YEAR: 1957

| = 500'





INQUIRY #: 3900443.12

YEAR: 1957

| = 500'





INQUIRY #: 3900443.12

YEAR: 1960

|—————| = 1000'





INQUIRY #: 3900443.12

YEAR: 1963

| = 500'





INQUIRY #: 3900443.12

YEAR: 1963

| = 500'



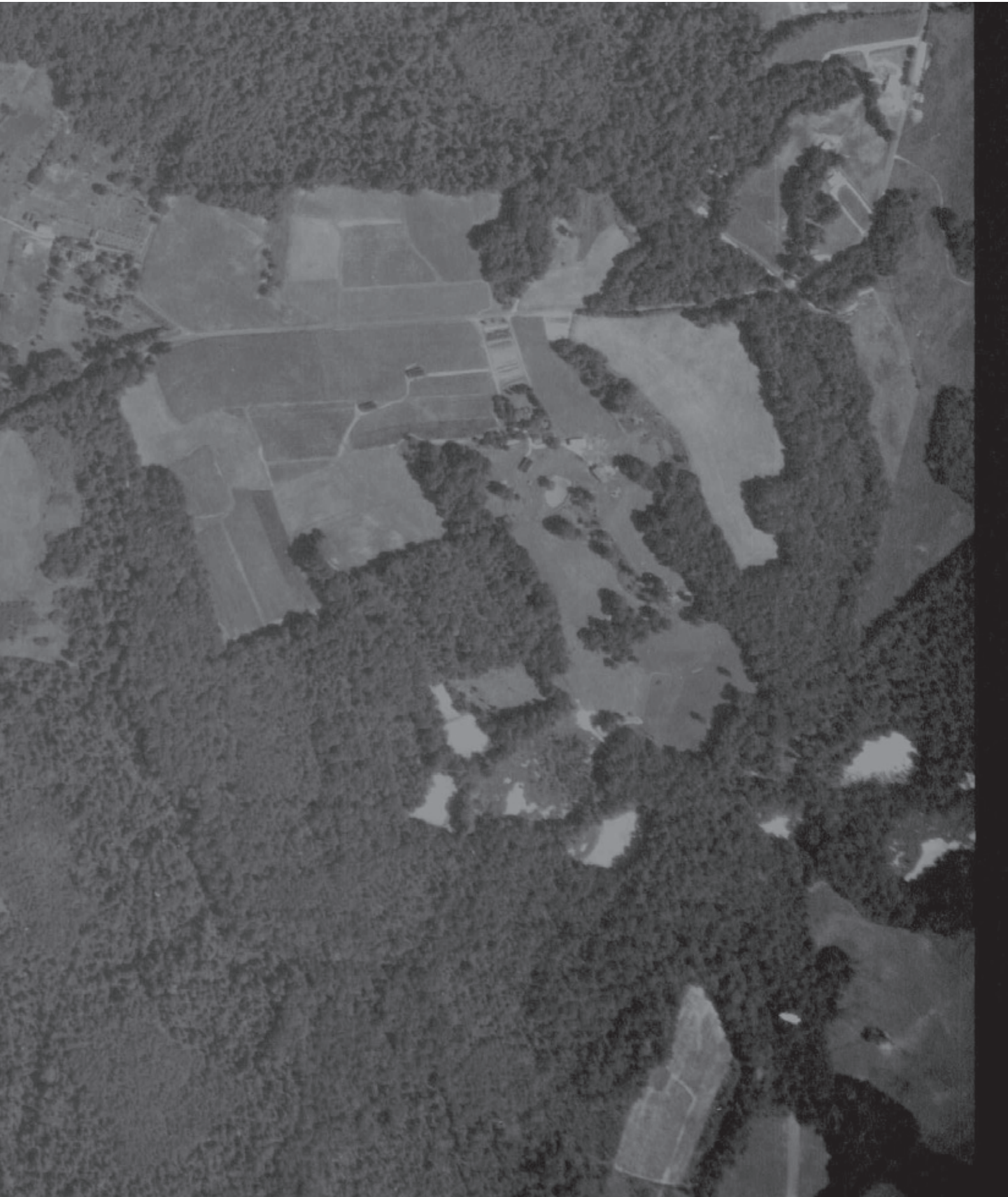


INQUIRY #: 3900443.12

YEAR: 1970

 = 500'





INQUIRY #: 3900443.12

YEAR: 1970

 = 500'



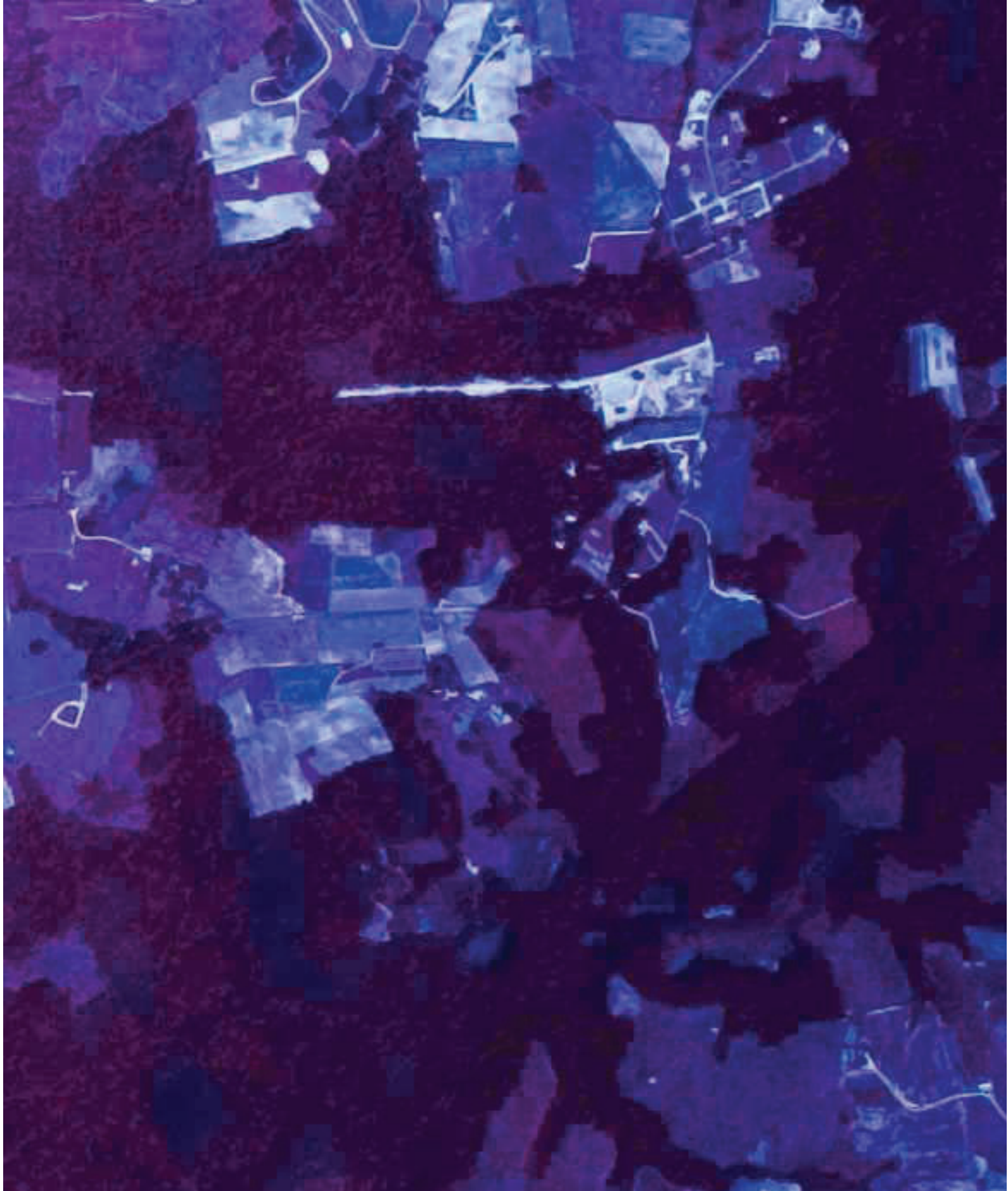


INQUIRY #: 3900443.12

YEAR: 1972

| = 750'





INQUIRY #: 3900443.12

YEAR: 1972

|—————| = 750'





INQUIRY #: 3900443.12

YEAR: 1981

| = 500'





INQUIRY #: 3900443.12

YEAR: 1993

| = 500'



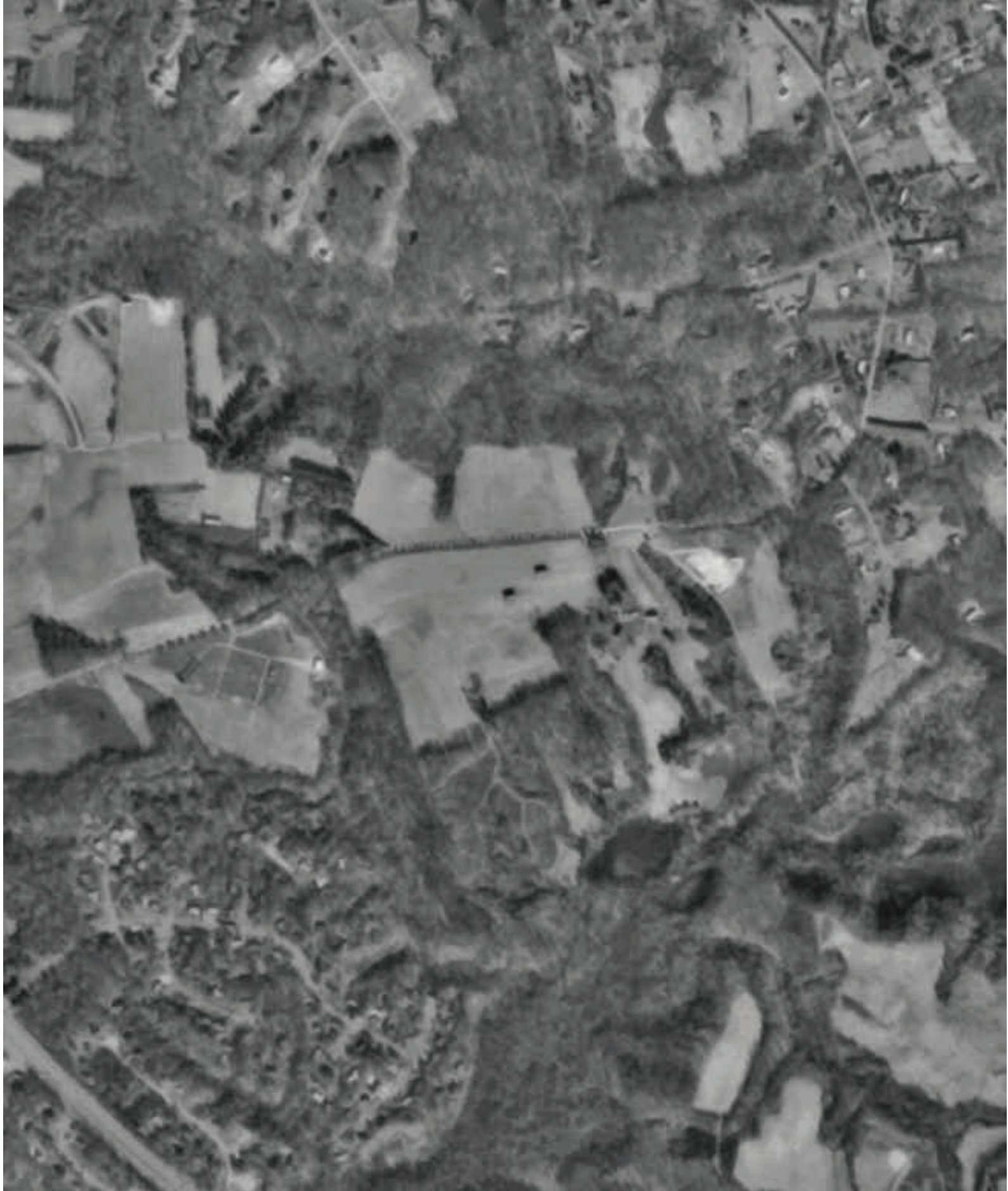


INQUIRY #: 3900443.12

YEAR: 1993

| = 500'



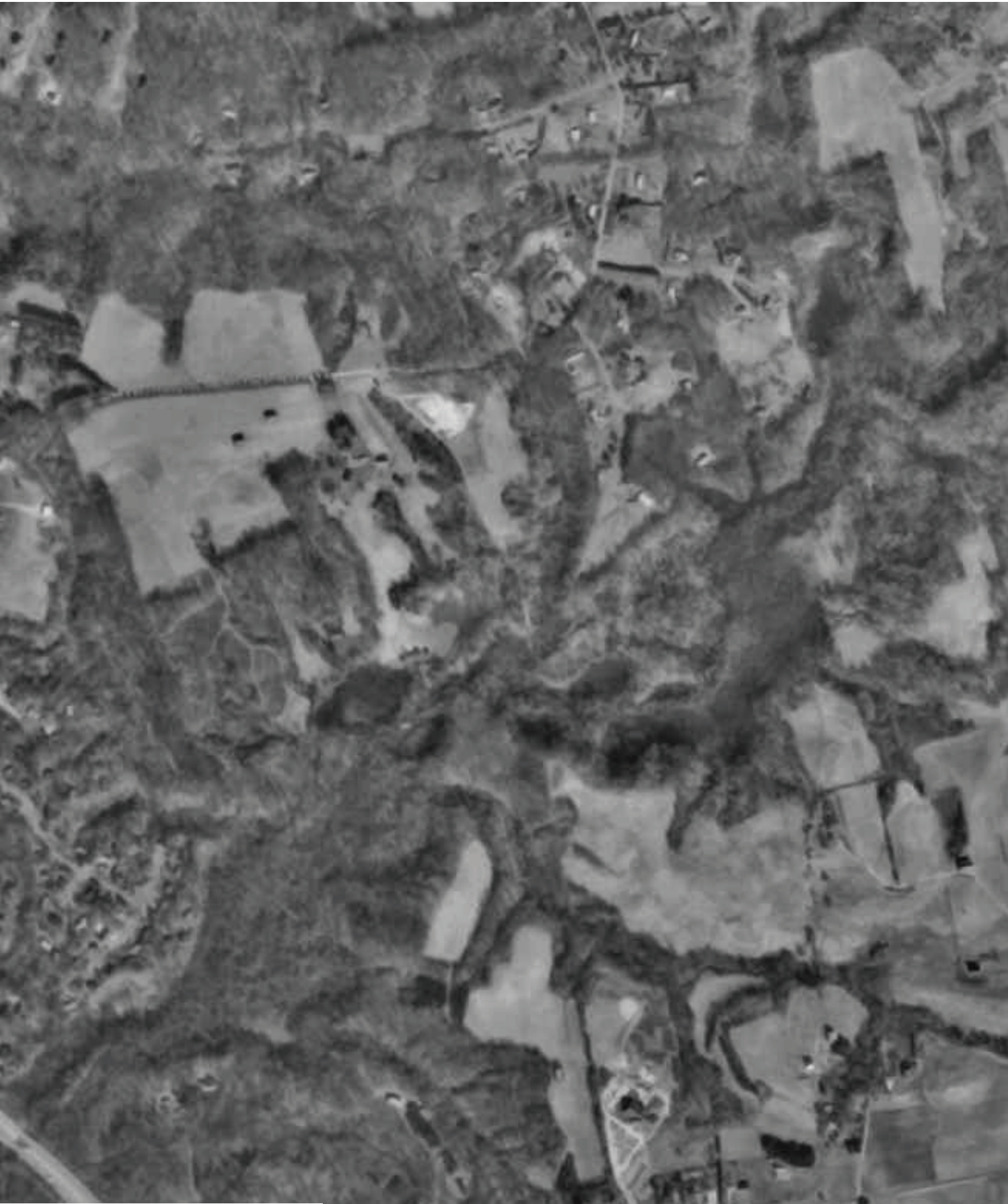


INQUIRY #: 3900443.12

YEAR: 1998

| = 750'





INQUIRY #: 3900443.12

YEAR: 1998

 = 750'



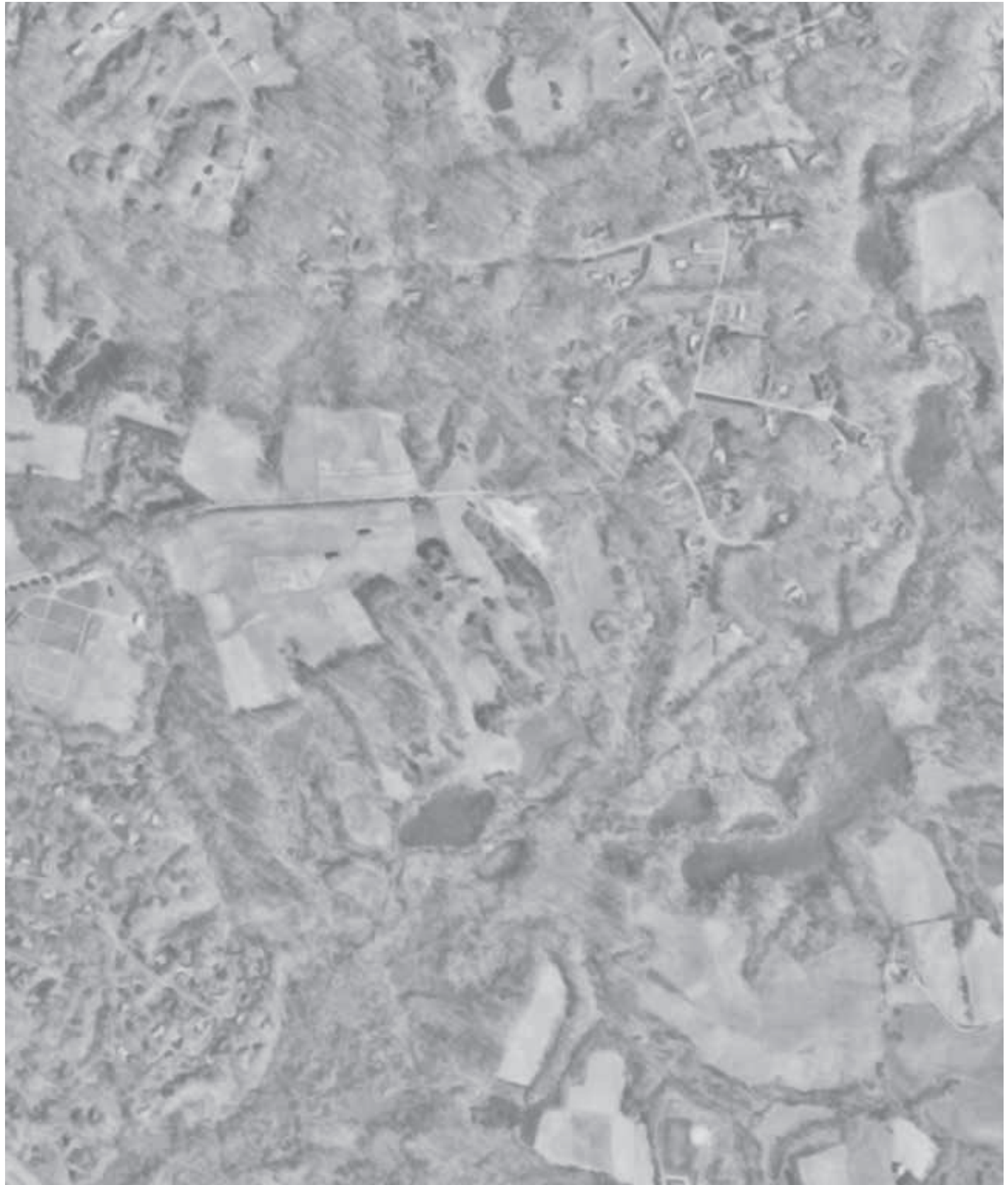


INQUIRY #: 3900443.12

YEAR: 2000

| = 750'





INQUIRY #: 3900443.12

YEAR: 2000

 = 750'





INQUIRY #: 3900443.12

YEAR: 2005

 = 500'





INQUIRY #: 3900443.12

YEAR: 2005

 = 500'





INQUIRY #: 3900443.12

YEAR: 2006

| = 500'





INQUIRY #: 3900443.12

YEAR: 2006

— = 500'



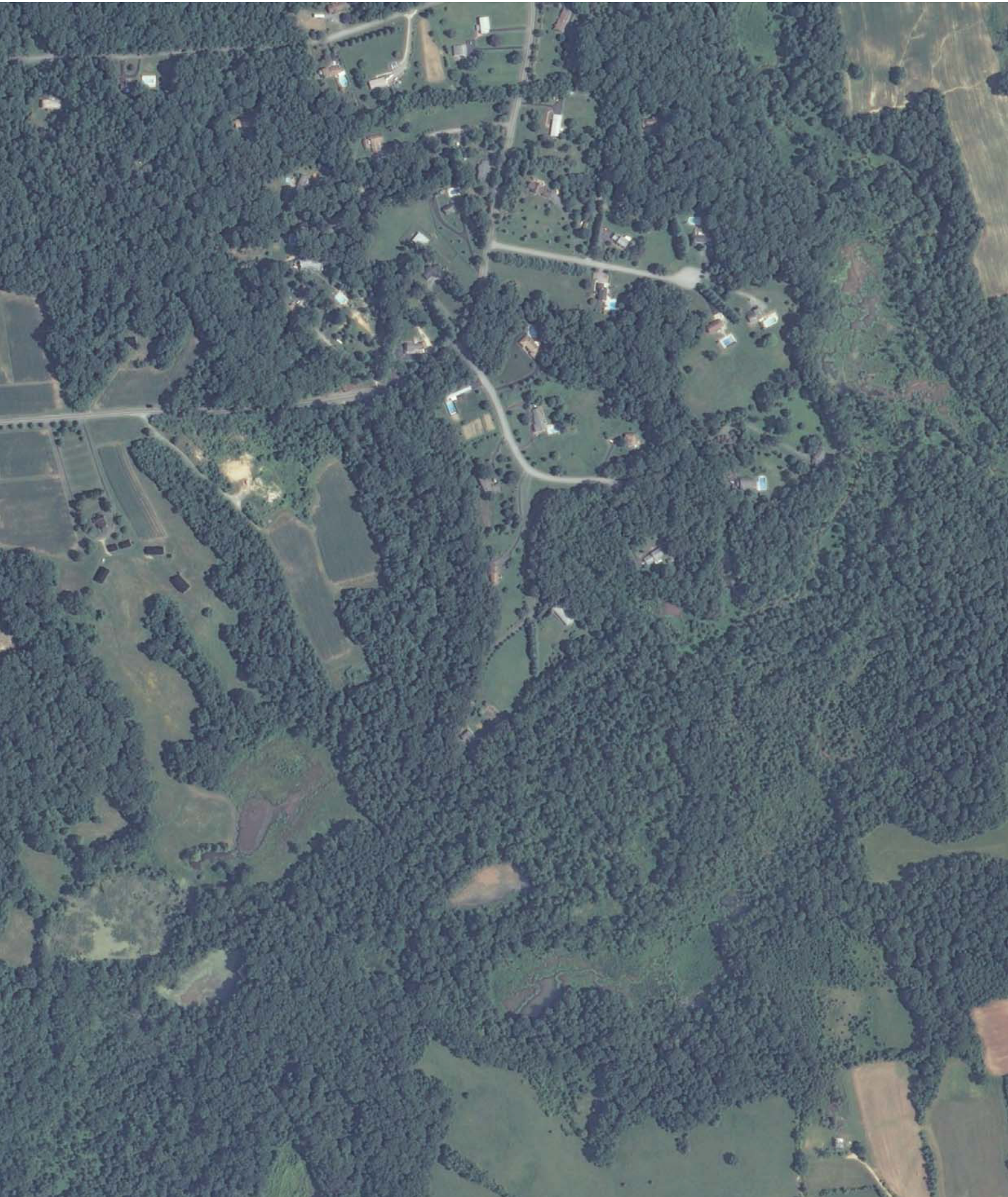


INQUIRY #: 3900443.12

YEAR: 2007

| = 500'





INQUIRY #: 3900443.12

YEAR: 2009

|—————| = 500'





INQUIRY #: 3900443.12

YEAR: 2011

| = 500'





INQUIRY #: 3900443.12

YEAR: 2011

 = 500'



Ward Park

Ward Road
Dunkirk, MD 20754

Inquiry Number: 3900443.5

April 04, 2014

The EDR-City Directory Image Report



Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

MAHAN RYKIEL

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with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
2013	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cole Information Services
2008	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cole Information Services
2003	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cole Information Services
1999	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cole Information Services
1995	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Stewart's Criss-Cross Directory
1990	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Stewart's Criss-Cross Directory
1985	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Stewart's Criss-Cross Directory

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FINDINGS

TARGET PROPERTY STREET

Ward Road
Dunkirk, MD 20754

<u>Year</u>	<u>CD Image</u>	<u>Source</u>	
-------------	-----------------	---------------	--

W WARD RD

1995	-	Stewart's Criss-Cross Directory	Street not listed in Source
1990	-	Stewart's Criss-Cross Directory	Street not listed in Source
1985	-	Stewart's Criss-Cross Directory	Street not listed in Source

WARD RD

2013	pg A1	Cole Information Services	
2008	pg A3	Cole Information Services	
2003	pg A5	Cole Information Services	
1999	pg A7	Cole Information Services	
1995	pg A9	Stewart's Criss-Cross Directory	
1990	pg A10	Stewart's Criss-Cross Directory	
1985	pg A11	Stewart's Criss-Cross Directory	

FINDINGS

CROSS STREETS

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
-------------	-----------------	---------------

W WARD RD

2013	pg. A2	Cole Information Services
2008	pg. A4	Cole Information Services
2003	pg. A6	Cole Information Services
1999	pg. A8	Cole Information Services

City Directory Images



-

WARD RD 2013

- 10095 CVS PHARMACY
- 10340 SCOTT BOND
- 10455 JEAN WARD
- 10520 KYLE MARKWARD
- 10525 DONALD SHOMETTE
- 10590 MICHAEL THOMPSON
- 10600 DOUGLAS DREIBELBIS
- 10615 EDWARD WOLSKI
- 10630 ADAM HOLSWORTH
- 10640 FRAUKE BOWEN
- 10650 LUIS KELLY
- 10660 HOWARD KIDD
- 10670 JOHN KYLER
- 10690 JOSE BROADWATER
- 10700 MABEL VAUGHN
- 10701 BRADLEY SWEET
- 10707 ROBERT POUDRIER
- 10715 SHAWN FUNCHION
- 10721 BRAD LAFLEY
- 10830 JERRY SHEPHERD
- 10920 BROWN LARRY V CPA
LARRY BROWN
- 10925 JOSEPH CLEARY
- 10930 ROBERT LOMEDICO
- 10940 BRENDAN OAK
- 10951 MATT BOUDREAU
- 10971 MARY NICHOLSON
- 10991 KIMBERLY MUSGROVE
- 11220 JOHN BALLENGER
- 11250 WILLIAM HANDLE
- 11252 B & B MASONRY
SUZANNE BACZYNSKI
- 11420 WILLIAM WATSON

W WARD RD 2013

- 3140 ADVANCED SURVEYS INC
- ALLSTATE
- CAPITOL TILE
- EXCEL PHYSICAL THERAPY
- JE RICE INSURANCE
- MEHTA BHARGESH P MD FAAP
- MIKE GIBBONS ALLSTATE AGENT
- PATRICIA BLACKFORD
- PATRICIA O BLACKFORD CPA LLC
- PATRIOT CONSTRUCTION
- SWANIGER MARIA
- TONY SPARGO ALLSTATE AGENT
- TRACY MARTIAL ARTS
- 3150 DAWNS EARLY LIGHT
- GENTLE FAMILY DENTISTRY LLC
- JULIE A SCHEJBAL
- LEGG MASON DUNKIRK OFFICE
- MONARCH BANK
- RATH & CARMEAN LIMITED
- 3175 CALVERT FINANCIAL
- GERGELY ANDREW T MD
- 3185 KIDS CAMPUS EARLY LEARNING CENTER
- 3189 U S CONCRETE ON SITE INC



-

WARD RD 2008

- 10095 CVS
CVS PHARMACY 1881
- 10155 LEE SIGNS
SOUTHERN MEMORIAL GARDEN
- 10340 SCOTT BOND
- 10455 OCCUPANT UNKNOWN
- 10520 KYLE MARKWARD
- 10525 DONALD SHOMETTE
- 10540 ROBERT PRUSHINSKI
- 10590 MICHAEL THOMPSON
- 10600 DOUGLAS DREIBELBIS
- 10615 BRIAN WOLF
- 10630 ADAM HOLSWORTH
- 10640 FRAUKE BOWEN
- 10650 LUIS KELLY
- 10660 HOWARD KIDD
- 10670 JOHN KYLER
- 10690 EUGENE FOSTER
- 10700 MABEL VAUGHN
- 10701 BRADLEY SWEET
- 10707 ROBERT POU德里ER
- 10711 WILLIAM QUADE
- 10715 OCCUPANT UNKNOWN
- 10721 HELEN THOMPSON
- 10830 J R SHEPHERD
JERRY SHEPHERD
- 10920 OCCUPANT UNKNOWN
- 10925 CLEARY INC
JOSEPH CLEARY
- 10930 ROBERT LOMEDICO
- 10940 BRENDAN OAK
- 10951 MATTHEW BOUDREAU
- 10971 ALBERT NICHOLSON
- 10991 WANDA HILT
- 11220 JOHN BALLENGER
- 11250 WILLIAM HANDLE
- 11252 B & B MASONRY
ROBERT BACZYNSKI
- 11370 ROY YOUNG
- 11420 WILLIAM WATSON

W WARD RD 2008

- 3140 ADVANCED SURVEYS INC
- ALLSTATE
- BAY COUNTRY TRAVEL SERVICE
- CURVES
- FIRST COUNTY MORTGAGE
- J WEBSTER & ASSOCS
- LISA GENTRY
- MARRICK PROPERTIES INC
- NELSON BRENNAN CONSULTANT
- PATUXENT MORTGAGE CO INC
- R A BARRETT & ASSOCS INC
- SPARGO TONY
- TANAGER
- TONY SPARGO
- 3150 CITIGROUP GLOBAL MARKETS INC
- CURVES
- DAVID HALE & ASSOCIATES INC
- DAWN EARLY LIGHT
- HEFFRON SCHWARTZ KOHLER & RAI
- LAW OFFICES OF JULIE A SCHEJBAL CHTD
- LEGG MASON WOOD WALKER INC
- MARRICK
- MRKTPLC PROFESSIONAL CENTER
- PRIOR ROBERT DR
- RATH & CARMEAN LIMITED ATTORNEY
- RATH MARGARET LAW OFFICES OF
- SMITH BARNEY
- SOUTHERN MARYLAND ORAL MAXILLO
- 3170 DUNKIRK5
- 3185 PATRICIA BLACKFORD CPA LLC
- 3189 CALVERT FINANCIAL ADVISORY INC
- U S CONCRETE ON SITE INC



-

WARD RD 2003

- 10155 LARRY DEFFENBAUGH
LEE GROUP OF VIRGINIA
LEE SIGNS
- 10455 EDWIN WARD
- 10520 SUSAN BOOTHE
- 10525 DONALD SHOMETTE
- 10540 ROBERT PRUSHINSKI
- 10590 MICHAEL THOMPSON
- 10600 DOUGLAS DREIBELBIS
- 10615 OCCUPANT UNKNOWN
- 10630 CHARLES GRAY
- 10640 FRAUKE BOWEN
- 10650 NEAL ARMOUR
- 10660 HOWARD KIDD
- 10670 JOHN KYLER
- 10690 EUGENE FOSTER
- 10695 JOSEPH PORTER
- 10700 EDWARD VAUGHN
- 10701 BRADLEY SWEET
- 10707 ROBERT POUDRIER
- 10711 JOSEPH DOUGLAS
THERESA HOLMGREN
- 10715 JASON HOOD
- 10721 MARCELLA LAFLEY
- 10830 JERRY SHEPHERD
- 10920 BROWN LARRY V CPA
LARRY BROWN
- 10925 JOSEPH CLEARY
- 10930 ROBERT LOMEDICO
- 10940 AD MAC CONSULTING CORP
BRENDAN OAK
- 10951 MATTHEW BOUDREAU
- 10971 ALBERT NICHOLSON
- 10991 WANDA HILT
- 11220 JOHN BALLENGER
SATURN CORP
- 11250 WILLIAM HANDLE
- 11252 B & B MASONRY
ROBERT BACZYNSKI
- 11370 LAURIE TOLSON
- 11420 STEVEN WATSON

W WARD RD 2003

- 3140 BAY COUNTRY TRAVEL SERVICE
- BEAUTIFUL KITCHENS
- CALVERT FINANCIAL ADVISORY INC
- CHESAPEAKE COUNSELING NETWORK
- LEE MONIKA G MD
- MARVIN OURSLER
- MICHAEL GILLOOLY
- RA BARRETT & ASSOCS INC
- RICE J E INSURANCE AGENCY
- TANAGER INC
- TRACYS MARTIAL ARTS ACADEMY
- 3150 CRUNKLETON ROSE C LAW OFC
- DAWNS EARLY LIGHT
- DHA INC
- LAW OFFICES OF JULIE SCHEJBAL INC
- MPI UTILITIES LLC
- RATH & CARMEAN LTD



-

WARD RD 1999

- 10155 DOUGLAS MITCHELL
- 10340 REBECCA HARING
- 10360 RICHARD EWING
- 10460 JAMES STURDIVANT
- 10520 BARBARA ARMOUR
CRAIG JOST
- 10525 DONALD SHOMETTE
- 10540 R PRUSHINSKI
- 10590 RALPH MANUEL
- 10600 DOUGLAS DREIBELBIS
- 10615 B WOLF
- 10640 F BOWEN
- 10650 NEAL ARMOUR
- 10660 HOWARD KIDD
- 10670 JOHN KYLER
- 10695 JOSEPH PORTER
- 10700 EDWARD VAUGHN
- 10701 BRADLEY SWEET
- 10707 GILBERT POU德里ER
L POU德里ER
- 10711 EMMETT CAVE
JOSEPH DOUGLAS
- 10715 DARREL KINCH
JASON HOOD
LEE LYONS
- 10721 M LAFLEY
- 10830 JERRY SHEPHERD
- 10920 BROWN LARRY V CPA
- 10925 JOSEPH CLEARY
- 10930 MARY LOMEDICO
- 10940 BRENDAN OAK
- 10971 ALBERT NICHOLSON
- 10991 WANDA HILT
- 11220 JOHN BALLENGER
SATURN CORPORATION
- 11250 WILLIAM HANDLE
- 11252 B & B MASONRY
ROBERT BACZYNSKI

Target Street

Cross Street

Source

-

✓

Cole Information Services

W WARD RD 1999

3140 BARRETT & ASSOCIATES INCORPORATED
BAY COUNTRY TRAVEL SERVICE
BAY COUNTRY TRAVEL SERVICE 3140 W WARD RD
CALVERT FINANCIAL ADVISORY INCORPORATED
CENTURY 21 BEST REALTY
MARRICK PROPERTIES INCORPORATED
RICE J E INSURANCE AGENCY
TANAGER INCORPORATED



-

WARD RD 1995

WARD RD (Dunkirk) 20754

e fr Southern Md Blvd (Rt 4)

Map 4:898-323

370	Prushinski R	+ 257-4369	95
10155	#Southern Memorial Gardens	257-3311	--
10340	Ewing Richard T	855-7837	83
10455	Ward Edwin E	257-2409	--
10520	Martin Griz	257-0427	90
10525	Shomette Donald G	855-5280	94
10590	Manuel Ralph	535-5722	90
10590	Manuel Ralph	855-2180	90
10615	Wolf B C	855-2923	94
10640	Bowen Karl A	257-0740	90
10650	Armour Neal	257-9125	88
10690	Farren Walter	855-7959	--
10695	Porter Joseph B Jr	855-5870	89
10700	Vaughn Edward J	855-7440	--
10701	Sweet B A	855-8992	--
10707	Nichols L	257-7130	94
10707	Poudrier Gilbert Sr	855-4051	91
10711	Cave Emmett L	855-8540	--
10715	Hood Jason	257-0114	94
10715	Lyons Lee	741-5513	90
10721	Lafley Thomas A	855-6570	--
10925	Cleary Joseph	855-8746	--
10971	Nicholson Albert H Jr	855-8342	--
10991	Hilt W L	855-8379	84
11220	Ballenger John W Jr	855-3723	93
11370	Sewell Doris M	855-6938	--

OF ADDRESS NEW LISTING

WARD RD 1990

10520	Martin Griz	+257-0427
10525	Covington Ross	855-2102
10590	Manuel Ralph	□535-5722
10590	Manuel Ralph	□855-2180
10615	Murphy James R	257-6370
10640	Bowen Karl A	+257-0740
10650	Armour Neal	257-9125
10660	Barham Thomas	855-5027
10695	Porter Joseph B Jr	855-5870
10700	Vaughn Edward J	855-7440
10701	Sweet B A	855-8992
10711	Cave Emmett L	855-8540
10715	Lyons Lee	+741-5513
10721	Lafley Thomas A	855-6570
10925	Cleary Joseph	855-8746
10971	Nicholson Albert H Jr	855-8342
10991	Hilt W L	855-8379
11370	Sewell Doris M	855-6938
--	Bellanger Lisa	257-0275
--	Ewing Richard T	855-7837
--	Farren Walter	855-7959
--	King Ronald D	257-3187
--	McCann Homer E	855-7257
--	Murphy James R	855-8843
--	#Southern Memorial Gardens	257-3311
--	Ward Edwin E	257-2409

WARD RD 1985

10525	Albright Henry H	855-5717
10650	Armour Richard N	+257-2830
10660	Barham Tommy A	+855-5027
10700	Vaughn Edward J	855-7440
10701	Sweet B A	855-8992
10711	Cave Emmett L	855-8540
10715	Flynn Michael R	+855-5303
10721	Lafley Thomas A	855-6570
10951	Cleary J L	855-8984
10951	Cleary Joseph	855-8746
10971	Nicholson Albert H Jr	855-8342
10991	Hilt W L	855-8379
--	Ahrons G Robert	855-7439
--	Ahrons George Robert	257-9412
--	Ewing Richard T	855-7837
--	Farren Walter	855-7959
--	Godshaw F	257-7593
--	King Ronald D	257-3187
--	McCann Homer E	855-7257
--	Murphy James R	257-6370
--	Murphy James R	855-8843
--	Reinecke David P	257-3298
--	Rollins Rosemary M	257-7002
--	#Southern Memorial Gardens	257-3311
--	Ward Edwin E	257-2409

Ward Park

Ward Road

Dunkirk, MD 20754

Inquiry Number: 3900443.3

April 03, 2014

Certified Sanborn® Map Report



6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

RYKIEL

Certified Sanborn® Map Report

4/03/14

Site Name:

Ward Park
Ward Road
Dunkirk, MD 20754

Client Name:

Whitman, Requardt & Assoc,
3701 Pender Drive
Fairfax, VA 22030

EDR Inquiry # 3900443.3

Contact: Kevin T. Roberts



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Certified Sanborn Results:

Site Name: Ward Park
Address: Ward Road
City, State, Zip: Dunkirk, MD 20754
Cross Street:
P.O. # 42083
Project: Ward Park
Certification # A25A-41DA-8BF2



Sanborn® Library search results
Certification # A25A-41DA-8BF2

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- University Publications of America
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Ward Park

Ward Road
Dunkirk, MD 20754

Inquiry Number: 3900443.7

April 04, 2014

EDR Environmental Lien and AUL Search



Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

MAHAN RYKIEL

EDR Environmental Lien and AUL Search

The EDR Environmental Lien and AUL Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

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

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EDR Environmental Lien and AUL Search

TARGET PROPERTY INFORMATION

ADDRESS

Ward Road
Ward Park
Dunkirk, MD 20754

RESEARCH SOURCE

Source 1:

Calvert County Recorder
Calvert, MD

PROPERTY INFORMATION

Deed 1:

Type of Deed: Deed
Title is vested in: Board of County Commissioners of Calvert County Ma
Title received from: Douglas E Ward & Karen K Ward
Deed Dated: 2/27/2013
Deed Recorded: 3/6/2013
Book: 4140
Page: 84
Volume: NA
Instrument: NA
Docket: NA
Land Record Comments: see exhibit
Miscellaneous Comments: NA
Legal Description: see exhibit
Legal Current Owner: Board of County Commissioners of Calvert County Maryland
Parcel # / Property Identifier: 03-106748, parcel 70
Comments: see exhibit

Deed 2:

Type of Deed: Deed
Title is vested in: Board of County Commissioners of Calvert County Ma
Title received from: Douglas E Ward
Deed Dated: 2/27/2013
Deed Recorded: 3/6/2013
Book: 4140
Page: 68
Volume: NA
Instrument: NA
Docket: NA
Land Record Comments:

EDR Environmental Lien and AUL Search

Miscellaneous Comments: see exhibit
NA

Legal Description: see exhibit

Legal Current Owner: Board of County Commissioners of Calvert County Maryland

Parcel # / Property Identifier: 03-020045, parcel 54

Comments: see exhibit

ENVIRONMENTAL LIEN

Environmental Lien: Found Not Found

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

AULs: Found Not Found

Deed Exhibit 1

OK 4140PG0084

TAX ID: 03-106748

THIS DEED entered into this 27TH day of February, 2013, by and

between, **DOUGLAS E. WARD and KAREN K. WARD**, parties of the first part, and **BOARD OF COUNTY COMMISSIONERS OF CALVERT COUNTY, MARYLAND**, a body politic, party of the second part.

WITNESSETH, in consideration of the sum of **Five Hundred Twenty-One Thousand Dollars (\$521,000.00)**, to be paid as follows; One-Fifth (1/5) the balance of the consideration (\$104,200.00) by certified check to Seller's order or by wire transfer in accordance with Seller's instructions on the delivery of the Deed, with the remaining balance to be paid by the party of the second part to the parties of the first part, annually in four (4) equal installments of \$104,200.00 over the next four years, and other good and valuable consideration, the receipt of which is hereby acknowledged, the said parties of the first part hereby grant and convey unto the said Board of County Commissioners of Calvert County, Maryland, its successors and/or assigns, in fee simple all that piece or parcel of ground situate, lying and being in the Third Election District of Calvert County, State of Maryland, and is more particularly described as follows, that is to say:

SEE ATTACHED EXHIBIT "A" – LEGAL DESCRIPTION

LR IMPROVE SU	0.00
RECORDING FEE	0.00
RECORDATION T	0.00
TR TAX STATE	0.00
NON-RES. WITH	0.00
TOTAL	0.00

Rest#CV01 Rcrt#999999
 KPS PVL Blk#440
 Mar 06, 2013 12:41 PM

BEING the property obtained by Douglas E. Ward and Karen K. Ward by virtue of a deed

from Edwin E. Ward and Douglas E. Ward dated May 31, 1984 and recorded June 1, 1984 among the Land Records of Calvert County, Maryland in Liber 318, folio 585.

The Damalouji Law Firm, LLC
 135 W. Dares Beach Road
 Suite 209-A
 Prince Frederick, MD 20678
 2013-0023

CALVERT COUNTY CIRCUIT COURT (Land Records) KPS 4140, p. 0084, MSA_CE4_4261. Date available 03/11/2013. Printed 04/03/2014.

BK 4140 PG 0085

TOGETHER with the buildings thereupon, and the rights, alleys, ways, waters, privileges, appurtenances and advantages thereto belonging, or in anywise appertaining.

TO HAVE AND TO HOLD the said lot of ground and premises, above described and mentioned, and hereby intended to be conveyed; together with the rights, privileges, appurtenances and advantages thereto belonging or appertaining unto the to the proper use and benefit of the said Board of County Commissioners of Calvert County, Maryland, its successors and/or assigns, in fee simple.

WITNESS the hand and seal of said grantor(s):

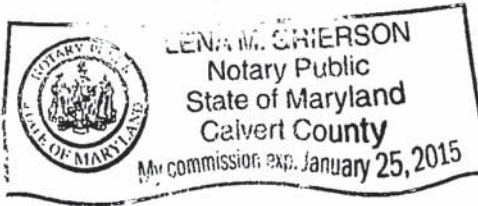
[Handwritten signatures]

[Handwritten signature]
DOUGLAS E. WARD
[Handwritten signature]
KAREN K. WARD

STATE OF Maryland, COUNTY OF Calvert, to wit:

I HEREBY CERTIFY that on this 27TH day of February, 2013, before me, the subscriber, a Notary Public of the State and County aforesaid, personally appeared Douglas E. Ward and Karen K. Ward, known to me, or satisfactorily proven to be the person(s) whose name(s) is/are subscribed to the within Deed and who acknowledge that he executed the same for the purposes therein contained.

AS WITNESS my hand and notarial seal.



[Handwritten signature]
Notary Public
My commission expires 01/25/2015

I HEREBY CERTIFY that the within instrument was prepared by or under the supervision of the undersigned Maryland attorney.

[Handwritten signature]
Robert I. Damalouji, Esquire
Member of the Bar of the Court of Appeals

This is to Certify that the Taxes on Property 2 Description within have been paid to and including 1251 pd 8-15-12 Calvert County Treasurer

CALVERT COUNTY GOVERNMENT
WATER & SEWER DUE \$ 0
BY: Cas DATE: 3/6/13

The Damalouji Law Firm, LLC
135 W. Dares Beach Road
Suite 209-A
Prince Frederick, MD 20678
2013-0023

**DESCRIPTION OF 40.207 ACRES, MORE OR LESS
THE PROPERTY OF
DOUGLAS AND KAREN WARD
THIRD DISTRICT, CALVERT COUNTY, MARYLAND**

BEGINNING for the same at a point where the southerly right-of-way line of Ward Road (30' right-of-way) is intersected by a projection of the westerly outline of Lot 17 in Dunkirk Fields subdivision as shown on a plat thereof recorded among the Plat Records of Calvert County, Maryland in Plat Book J.L.B. 2 at Plat 194 and said point also being the northeast corner of the herein described.

THENCE leaving the point of beginning, so fixed, and the southerly right-of-way line of Ward Road and running with the westerly outlines of Lots 17, 16, 15 and 14 shown on the above mentioned plat of Dunkirk Fields subdivision the following five (5) courses and distances as referenced to the meridian of the herein described, i.e.;

- 1) South 29° 59' 43" East – 445.75' to a tall pipe found, passing over a pipe found at 330.62' along said course;
- 2) South 30° 43' 53" East – 348.81', passing over a pipe found beside a tall pipe at 178.81' along said course;
- 3) South 00° 54' 13" East – 234.15' to a pipe found beside a tall pipe;
- 4) South 14° 54' 17" West – 426.49' to a tall pipe found, and;
- 5) South 05° 57' 33" West – 287.60' to a tall pipe found at the southernmost corner of the above mentioned Lot 14 of Dunkirk Fields;

THENCE running with a portion of the southeasterly outline of said Lot 14 the following two (2) courses and distances as referenced to the meridian of the herein described, i.e.;

- 6) North 50° 51' 17" East – 441.73' to a post, and;

7) North 49° 48' 37" East – 13.01';

THENCE leaving the southeasterly outline of Lot 14 and running with the conveyance from Brenda Dowell Paul to Brenda Dowell Paul and Stuart L. Paul by deed dated December 27, 2010 and recorded among the Land Records of Calvert County, Maryland in Liber K.P.S. 3645 at Folio 129 the following five (5) courses and distances, i.e.;

8) South 70° 46' 40" East – 791.96' to a pipe found;

9) South 18° 37' 22" West – 547.27' to a pipe found;

10) South 83° 13' 23" West – 432.01' to a pipe found;

11) North 87° 08' 03" West – 354.64', and;

12) North 81° 29' 09" West – 275.76' to a pipe found at the northeasterly corner of the First Parcel described in the conveyance from Charles H. Prout to Most Reverend Theodore E. McCarrick, Roman Catholic Archbishop of Washington by deed dated July 2, 2004 and recorded among the aforesaid Land Records in Liber K.P.S. 2252 at Folio 533;

THENCE leaving the Paul property and running with a portion of the northerly outline of the First Parcel of said conveyance to Most Reverend Theodore E. McCarrick, Roman Catholic Archbishop of Washington as referenced to the meridian of the herein described, i.e.;

13) North 74° 50' 25" West – 309.90' to a pipe found in the southeasterly outline of that portion of the conveyance from Edwin E. Ward to Edwin E. Ward, Trustee of the Edwin E. Ward Trust, by deed dated January 31, 2006 and recorded among the aforesaid Land Records in Liber K.P.S. 2696 at Folio 164 lying south of Ward Road, passing over a pipe found at 28.39' along said course;

THENCE leaving the First Parcel of the conveyance to Most Reverend Theodore E. McCarrick, Roman Catholic Archbishop of Washington and running with a portion of the southeasterly

CALVERT COUNTY CIRCUIT COURT (Land Records) KPS 4140, p. 0087, MSA_CE4_4261. Date available 03/11/2013. Printed 04/03/2014.

outline and the easterly outline of said Ward property the following four (4) courses and distances as now surveyed, i.e.;

- 14) North $46^{\circ} 36' 09''$ East – 412.58';
- 15) North $28^{\circ} 55' 07''$ West – 302.99' to an oak stump;
- 16) North $20^{\circ} 55' 21''$ West – 963.94' to a pipe found, and;
- 17) North $43^{\circ} 45' 32''$ West – 702.70' to intersect the southerly right-of-way line of the above mentioned Ward Road (30' right-of-way);

THENCE leaving the easterly outline of the Ward property and running with the southerly right-of-way line of said Ward Road the following three (3) courses and distances as now surveyed, i.e.;

- 18) 162.78' along the arc of a curve to the right, having a radius of 1,535.00' and a chord bearing and distance of North $89^{\circ} 29' 49''$ East – 162.71' to a point of reverse curvature;
- 19) 134.40' along the arc of a curve to the left, having a radius of 1,290.00' and a chord bearing and distance of North $89^{\circ} 33' 01''$ East – 134.34' to a point of compound curvature, and;
- 20) 548.02' along the arc of a curve to the left, having a radius of 5,020.00' and a chord bearing and distance of North $83^{\circ} 26' 18''$ East – 547.75' to the point and place of beginning.

CONTAINING 40.207 acres, more or less, as described and shown on a plat entitled "BOUNDARY SURVEY, 137.163 ACRES± AND 31.642 ACRES±, THE PROPERTY OF EDWIN E. WARD, TRUSTEE OF THE EDWIN E. WARD TRUST, AND 40.207 ACRES±, THE PROPERTY OF DOUGLAS E. WARD AND KAREN K. WARD" by Collinson, Oliff & Associates, Inc., Registered Professional Engineers and Land Surveyors in February 2013 from a boundary survey performed by Collinson, Oliff & Associates, Inc. in August 2011.

CALVERT COUNTY CIRCUIT COURT (Land Records) KPS 4140, p. 0088, MSA_CE4_4261. Date available 03/11/2013. Printed 04/03/2014.

wife, by deed dated May 31, 1984 and recorded among the Land Records of Calvert County, Maryland in Liber A.B.E. 315 at Folio 585.

THE bearings in the above described being referenced to NAD 1983. I hereby certify that this description was prepared under my responsible charge and is in compliance with requirements set forth in Chapter 06, "Minimum Standards of Practice," COMAR, Title 09, Subtitle 13, Maryland Department of Licensing and Regulation for Land Surveyors, as currently in effect.



Jeffrey L. Tewell
Maryland Professional Land Surveyor No. 21270
License Expiration: June 19, 2013



AFFIDAVIT AS TO TOTAL PAYMENT

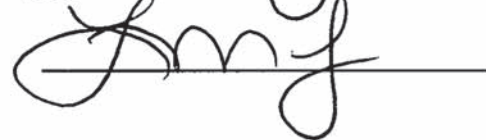
THE undersigned certifies under the penalties of perjury, that the following is true to the best of their knowledge, information and belief, in accordance with Section 10-912(b)(2) of the Tax-General Article of the Annotated Code of Maryland, (the "Withholding Law"):

1. That they are the transferors of that real property described in the accompanying deed.
2. The amount of total payment for the purpose of the Withholding Law is \$0.00.
3. That they are residents of the state of Maryland.

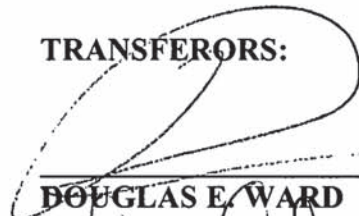
Dated this 27TH day of February, 2013.


WITNESS:





TRANSFERORS:



DOUGLAS E. WARD


KAREN K. WARD

The Damalouji Law Firm, LLC
 135 W. Dares Beach Road
 Suite 209-A
 Prince Frederick, MD 20678
 2013-0023

State of Maryland Land Instrument Intake Sheet

BK 4140PG0091

Baltimore City County: Calvert
 Information provided is for the use of the Clerk's Office, State Department of Assessments and Taxation, and County Finance Office Only.
 (Type or Print in Black Ink Only—All Copies Must Be Legible)

Space Reserved for Circuit Court Clerk Recording Validation

1	Type(s) of Instruments	<input type="checkbox"/> Check Box if addendum Intake Form is Attached.						
		<input checked="" type="checkbox"/> Deed	<input type="checkbox"/> Mortgage	<input type="checkbox"/> Other	<input type="checkbox"/> Other			
		<input type="checkbox"/> Deed of Trust	<input type="checkbox"/> Lease					
2	Conveyance Type Check Box	<input type="checkbox"/> Improved Sale Arms-Length [1]	<input type="checkbox"/> Unimproved Sale Arms-Length [2]	<input type="checkbox"/> Multiple Accounts Arms-Length [3]	<input type="checkbox"/> Not an Arms-Length Sale [9]			
3	Tax Exemptions (if applicable)	Recordation	Board of County Commissioners of Calvert County, Maryland					
	Cite or Explain Authority	State Transfer	Board of County Commissioners of Calvert County, Maryland					
		County Transfer						
4	Consideration and Tax Calculations	Consideration Amount			Finance Office Use Only			
		Purchase Price/Consideration	\$ 521,000.00		Transfer and Recordation Tax Consideration			
		Any New Mortgage	\$ 0.00		Transfer Tax Consideration	\$		
		Balance of Existing Mortgage	\$		X () % =	\$		
		Other:	\$		Less Exemption Amount	-		
		Other:	\$		Total Transfer Tax	=		
		Full Cash Value:	\$		Recordation Tax Consideration	\$		
				X () per \$500 =	\$			
				TOTAL DUE	\$			
5	Fees	Amount of Fees		Doc. 1	Doc. 2	Agent:		
		Recording Charge	\$ 0.00		\$	Tax Bill:		
		Surcharge	\$ 0.00		\$	C.B. Credit:		
		State Recordation Tax	\$ 0.00		\$	Ag. Tax/Other:		
		State Transfer Tax	\$ 0.00		\$			
		County Transfer Tax	\$		\$			
		Other	\$		\$			
	Other	\$		\$				
6	Description of Property SDAT requires submission of all applicable information. A maximum of 40 characters will be indexed in accordance with the priority cited in Real Property Article Section 3-104(g)(3)(i).	District	Property Tax ID No. (1)	Grantor Liber/Folio	Map	Parcel No.	Var. LOG	
		03	03-106748					<input type="checkbox"/> (5)
		Subdivision Name		Lot (3a)	Block (3b)	Sect/AR (3c)	Plat Ref.	SqFu/Acreage (4)
		Location/Address of Property Being Conveyed (2)						
		10501 Ward Road, Dunkirk, MD 20754						
		Other Property Identifiers (if applicable)					Water Meter Account No.	
		Residential <input checked="" type="checkbox"/> or Non-Residential <input type="checkbox"/> Fee Simple <input checked="" type="checkbox"/> or Ground Rent <input type="checkbox"/> Amount:						
		Partial Conveyance? <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Description/Amt. of SqFu/Acreage Transferred:				
		If Partial Conveyance, List Improvements Conveyed:						
		Doc. 1 – Grantor(s) Name(s)			Doc. 2 – Grantor(s) Name(s)			
7	Transferred From	Douglas E. Ward and Karen K. Ward						
		Doc. 1 – Owner(s) of Record, if Different from Grantor(s)			Doc. 2 – Owner(s) of Record, if Different from Grantor(s)			
8	Transferred To	Doc. 1 – Grantee(s) Name(s)			Doc. 2 – Grantee(s) Name(s)			
		Board of County Commissioners of Calvert County, Maryland						
	New Owner's (Grantee) Mailing Address							
	175 Main Street, Prince Frederick, MD 20678							
9	Other Names to Be Indexed	Doc. 1 – Additional Names to be Indexed (Optional)			Doc. 2 – Additional Names to be Indexed (Optional)			
10	Contact/Mail Information	Instrument Submitted By or Contact Person					<input checked="" type="checkbox"/> Return to Contact Person	
		Name: Lena M. Grierson					<input type="checkbox"/> Hold for Pickup	
		Firm: The Damalouji Law Firm, LLC					<input type="checkbox"/> Return Address Provided	
		Address: 135 W. Dares Beach Road, Suite 209-A, Prince Frederick, MD 20678 Phone: (410) 535-5008						
11	Assessment Information	IMPORTANT: BOTH THE ORIGINAL DEED AND A PHOTOCOPY MUST ACCOMPANY EACH TRANSFER						
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Will the property being conveyed be the grantee's principal residence?					
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Does transfer include personal property? If yes, identify: _____					
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Was property surveyed? If yes, attach copy of survey (if recorded, no copy required).					
	Assessment Use Only – Do Not Write Below This Line							
	Terminal Verification	Agricultural Verification	Whole	Part	Tran. Process Verification			
	Transfer Number	Date Received:	Deed Reference:		Assigned Property No.:			
	Year 20	20	Geo.	Map	Sub	Block		
	Land		Zoning	Grid	Plat	Lot		
	Buildings		Use	Parcel	Section	Occ. Cd.		
	Total		Town Cd.	Ex. St.	Ex. Cd.			
	REMARKS:							

CALVERT COUNTY CIRCUIT COURT (Land Records) KPS 4140, p. 0091, MSA_CE4_4261. Date available 03/11/2013. Printed 04/03/2014.

Space Reserved for County Validation

THIS DEED entered into this 27th day of February, 2013, by and

between, **DOUGLAS E. WARD, Trustee of the Edwin E. Ward Trust**, party of the first part, and **BOARD OF COUNTY COMMISSIONERS OF CALVERT COUNTY, MARYLAND**, a body politic, party of the second part.

WITNESSETH, in consideration of the sum of **Two Million One Hundred Seventy-Nine Thousand Dollars (\$2,179,000.00)** and other good and valuable consideration, the receipt of which is hereby acknowledged, the said party of the first part hereby grants and conveys unto the said Board of County Commissioners of Calvert County, Maryland, its successors and/or assigns, in fee simple all that piece or parcel of ground situate, lying and being in the Third Election District of Calvert County, State of Maryland, and is more particularly described as follows, that is to say:

SEE ATTACHED EXHIBIT "A" – LEGAL DESCRIPTION

BEING the property obtained by Edwin E. Ward, Trustee of the Edwin E. Ward Trust by virtue of a deed from Edwin E. Ward dated January 31, 2006 and recorded February 13, 2006 among the Land Records of Calvert County, Maryland in Liber 2696, folio 164.

TOGETHER with the buildings thereupon, and the rights, alleys, ways, waters, privileges, appurtenances and advantages thereto belonging, or in anywise appertaining.

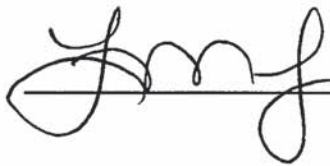
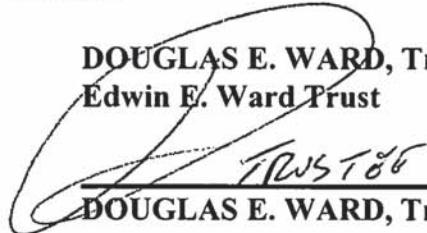
LR IMPROVE SU	0.00
RECORDING FEE	0.00
RECORDATION T	0.00
TR TAX STATE	0.00
NON-RES. WITH	0.00
TOTAL	0.00
Res#CV01 Rcrt#999999	
KPS PML Bk#440	
Mar 06, 2013 12:40 PM	

CALVERT COUNTY CIRCUIT COURT (Land Records) KPS 4140, p. 0068, MSA_CE4_4261. Date available 03/11/2013. Printed 04/03/2014.

The Damalouji Law Firm, LLC
135 W. Dares Beach Road
Suite 209-A
Prince Frederick, MD 20678
2013.0024

TO HAVE AND TO HOLD the said lot of ground and premises, above described and mentioned, and hereby intended to be conveyed; together with the rights, privileges, appurtenances and advantages thereto belonging or appertaining unto the to the proper use and benefit of the said Board of County Commissioners of Calvert County, Maryland, its successors and/or assigns, in fee simple.

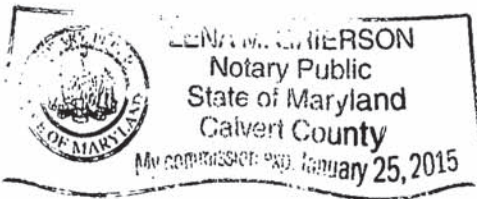
WITNESS the hand and seal of said grantor(s):

 _____
DOUGLAS E. WARD, Trustee of the Edwin E. Ward Trust
 _____
DOUGLAS E. WARD, Trustee

STATE OF Maryland, COUNTY OF Calvert, to wit:


I HEREBY CERTIFY that on this 27th day of February, 2013, before me, the subscriber, a Notary Public of the State and County aforesaid, personally appeared Douglas E. Ward as Trustee of the Edwin E. Ward Trust, known to me, or satisfactorily proven to be the person(s) whose name(s) is/are subscribed to the within Deed and who acknowledge that he executed the same for the purposes therein contained.

AS WITNESS my hand and notarial seal.



 _____
Notary Public
My commission expires 01/25/2015

I HEREBY CERTIFY that the within instrument was prepared by or under the supervision of the undersigned Maryland attorney.

 _____
Robert I. Damalouji, Esquire
Member of the Bar of the Court of Appeals

This is to Certify that the Taxes on Property Description within have been paid to and including 12/31/12 _____ 2
Calvert County Treasurer

CALVERT COUNTY GOVERNMENT
WATER & SEWER DUE \$ 0
BY: CRC DATE: 3/6/13

CALVERT COUNTY CIRCUIT COURT (Land Records) KPS 4140, p. 0069, MSA_CE4_4261. Date available 03/11/2013. Printed 04/03/2014.
The Damalouji Law Firm, LLC
135 W. Dares Beach Road
Suite 209-A
Prince Frederick, MD 20678
2013-0024

COLLINSON, OLIFF & ASSOCIATES, INC.*SURVEYORS · ENGINEERS · LAND PLANNERS*

P.O. Box 2209 · Prince Frederick, Maryland 20678

410-535-3101 · 301-855-1599 · FAX 410-535-3103

**DESCRIPTION OF 31.642 ACRES, MORE OR LESS
PART OF THE PROPERTY OF
EDWIN E. WARD, TRUSTEE OF THE
EDWIN E. WARD, TRUST
THIRD DISTRICT, CALVERT COUNTY, MARYLAND**

BEGINNING for the same at a pipe found at the southeast corner of the Non-buildable Residue shown on a plat entitled "REPLATTING OF PARCEL 291, LOT 1, NON-BUILDABLE RESIDUE, PARCEL A & INGRESS/EGRESS EASEMENTS, RED HALL" recorded among the Plat Records of Calvert County, Maryland in Plat Book K.P.S. 2 at Plat 371 and said pipe also being at the southernmost corner of Lot 6 in Section Two of Dunkirk Woods subdivision as shown on a plat thereof recorded among the aforesaid Plat Records in Plat Book J.L.B. 2 at Plat 115.

THENCE leaving the point of beginning, so fixed, and the above mentioned Non-buildable Residue and running with a portion of the southeasterly outline of said Lot 6 in Section Two of Dunkirk Woods subdivision as referenced to the meridian of the herein described, i.e.;

- 1) North 60° 40' 23" East – 332.90' to a pipe found at the northwesterly corner of Lot 7R in Section One of Woodlawn Farms subdivision as shown on a plat thereof recorded among the Land Records of Calvert County, Maryland in Liber K.P.S. 1184 at Folio 74, passing over iron rods found at 100.02' and 300.04' along said course;

THENCE leaving the southeasterly outline of Lot 6 in Section Two of Dunkirk Woods subdivision and running with the westerly outline and a portion of the southerly outline of said Lot 7R in Section One of Woodlawn Farms subdivision the following seven (7) courses and distances as referenced to the meridian of the herein described, i.e.;

- 2) South 29° 34' 33" East – 27.04' to a pipe found;

- 3) South 00° 43' 33" East – 60.11' to a pipe found;
- 4) South 66° 37' 33" East – 39.01' to a pipe found;
- 5) South 06° 17' 33" East – 27.80';
- 6) South 50° 31' 33" East – 35.24';
- 7) South 82° 26' 33" East – 12.68' to a pipe found, and;
- 8) North 60° 25' 27" East – 109.25' to the northwesterly corner of Lot 3 in Section One of Woodlawn Farms subdivision as shown on a plat thereof recorded among the aforesaid Plat Records in Plat Book J.L.B. 2 at Plat 25;

THENCE leaving the southerly outline of Lot 7R in Section One of Woodlawn Farms subdivision and running with the westerly outline of said Lot 3 in Section One of Woodlawn Farms subdivision and a portion of the westerly outline of Lot 2 in Section One of Woodlawn Farms subdivision (Plat Book J.L.B. 2/25) as referenced to the meridian of the herein described, i.e.;

- 9) South 29° 34' 33" East – 143.61' to a pipe found at the northwesterly corner of the conveyance from Hugh W. Ward, Jr. and Jane Denby Ward, his wife, to Richard N. Armour and Patricia J. Armour, his wife, by deed dated April 15, 1971 and recorded among the aforesaid Land Records in Liber J.L.B. 128 at Folio 209;

THENCE leaving the westerly outline of Lot 2 in Section One of Woodlawn Farms subdivision and running with the westerly outline of said Armour property the following eleven (11) courses and distances as referenced to the meridian of the herein described, i.e.;

- 10) South 46° 23' 27" West – 64.05' to a pipe found;
- 11) South 03° 06' 06" West – 73.52';
- 12) South 75° 04' 22" East – 72.62';
- 13) South 25° 37' 55" East – 65.15';

- 14) South 21° 33' 24" West – 65.37';
- 15) South 52° 45' 12" East – 50.91';
- 16) South 11° 34' 03" East – 150.33';
- 17) North 37° 14' 48" East – 83.44';
- 18) South 41° 26' 36" East – 79.32';
- 19) South 82° 25' 55" East – 75.69', and;
- 20) South 51° 41' 33" East – 67.45' to intersect the northerly right-of-way line of Ward Road
(30' right-of-way);

THENCE leaving the westerly outline of the Armour property and running with the northerly right-of-way line of said Ward Road the following eight (8) courses and distances as now surveyed, i.e.;

- 21) 531.41' along the arc of a curve to the right, having a radius of 4,990.00' and a chord bearing and distance of South 83° 30' 54" West – 531.15' to a point of compound curvature;
- 22) 131.27' along the arc of a curve to the right, having a radius of 1,260.00' and a chord bearing and distance of South 89° 33' 01" West – 131.21' to a point of reverse curvature;
- 23) 212.24' along the arc of a curve to the left, having a radius of 1,565.00' and a chord bearing and distance of South 88° 38' 59" West – 212.08' to a point of tangency;
- 24) South 84° 45' 52" West – 168.64';
- 25) South 85° 27' 11" West – 263.93';
- 26) South 85° 13' 32" West – 268.99';
- 27) South 85° 33' 33" West – 730.44' to a point of curvature, and;

28) 75.29' along the arc of a curve to the left, having a radius of 840.00' and a chord bearing and distance of South 82° 59' 29" West – 75.26';

THENCE leaving the northerly right-of-way line of Ward Road and running with the easterly outline of Parcel A and the easterly and southerly outlines of the Non-buildable Residue shown on the above mentioned plat of Red Hall (Plat Book K.P.S. 2/371) the following seven (7) courses and distances as now surveyed and referenced to the meridian of the herein described, i.e.;

29) North 55° 07' 38" West – 221.82' to a pipe found;

30) North 43° 03' 36" West – 63.18' to a pipe found;

31) North 18° 57' 00" West – 63.81' to a pipe found;

32) North 19° 51' 35" East – 295.46';

33) North 23° 49' 51" East – 99.76' to an iron rod found;

34) North 87° 11' 35" East – 1287.00' to an iron rod found, and;

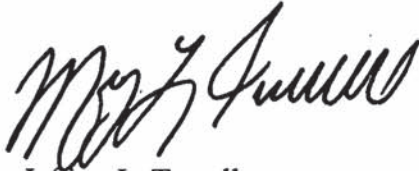
35) North 78° 54' 17" East – 324.30' to the point and place of beginning.

CONTAINING 31.642 acres, more or less, as described and shown on a plat entitled **"BOUNDARY SURVEY, 137.163 ACRES± AND 31.642 ACRES±, THE PROPERTY OF EDWIN E. WARD, TRUSTEE OF THE EDWIN E. WARD TRUST, AND 40.207 ACRES±, THE PROPERTY OF DOUGLAS E. WARD AND KAREN K. WARD"** by Collinson, Oliff & Associates, Inc., Registered Professional Engineers and Land Surveyors in February 2013 from a boundary survey performed by Collinson, Oliff & Associates, Inc. in August 2011.

BEING that portion of the conveyance from Edwin E. Ward to Edwin E. Ward, Trustee of the Edwin E. Ward Trust, by deed dated January 31, 2006 and recorded among the Land Records of Calvert County, Maryland in Liber K.P.S. 2696 at Folio 164 lying north of Ward Road.

in Chapter 06, "Minimum Standards of Practice," COMAR, Title 09, Subtitle 13, Maryland

Department of Licensing and Regulation for Land Surveyors, as currently in effect.



Jeffrey L. Tewell
Maryland Professional Land Surveyor No. 21270
License Expiration: June 19, 2013



**DESCRIPTION OF 137.163 ACRES, MORE OR LESS
PART OF THE PROPERTY OF
EDWIN E. WARD, TRUSTEE OF THE
EDWIN E. WARD, TRUST
THIRD DISTRICT, CALVERT COUNTY, MARYLAND**

BEGINNING for the same at a point where the southerly right-of-way line of Ward Road (30' right-of-way) is intersected by the westerly outline of the First Parcel described in the conveyance from Edwin E. Ward and Katharine S. Ward, his wife, and H. Wilson Dowell, Jr. to Douglas E. Ward and Karen K. Ward, his wife, by deed dated May 31, 1984 and recorded among the Land Records of Calvert County, Maryland in Liber A.B.E. 315 at Folio 585 and said point being further described as the northeast corner of the herein described.

THENCE leaving the point of beginning, so fixed, and the southerly right-of-way line of Ward Road and running with the westerly outline of the First Parcel described in the above mentioned conveyance to Ward the following four (4) courses and distances as now surveyed and referenced to the meridian of the herein described, i.e.;

- 1) South 43° 45' 32" East – 702.70' to a pipe found;
- 2) South 20° 55' 21" East – 963.94' to an oak stump;
- 3) South 28° 55' 07" East – 302.99', and;
- 4) South 46° 36' 09" West – 412.58' to a pipe found in the northerly outline of the First Parcel described in the conveyance from Charles H. Prout to Most Reverend Theodore E. McCarrick, Roman Catholic Archbishop of Washington by deed dated July 2, 2004 and recorded among the aforesaid Land Records in Liber K.P.S. 2252 at Folio 533;

CALVERT COUNTY CIRCUIT COURT (Land Records) KPS 4140, p. 0075, MSA_CE4_4261. Date available 03/11/2013. Printed 04/03/2014.

THENCE leaving the westerly outline of the First Parcel described in the above mentioned conveyance to Ward and running with a portion of the northerly outline of the First Parcel of said conveyance to Most Reverend Theodore E. McCarrick, Roman Catholic Archbishop of Washington the following three (3) courses and distances as referenced to the meridian of the herein described, i.e.;

- 5) North 74° 50' 25" West – 219.13';
- 6) South 50° 44' 45" West – 354.49', and;
- 7) South 53° 24' 36" West – 144.52' to a pipe found in a creek at the northeast corner of the conveyance from James F. King, Sr. to King Calvert Farm Limited Partnership by deed dated December 22, 1995 and recorded among the aforesaid Land Records in Liber A.B.E. 839 at Folio 361 and as more particularly described as the First Parcel in the conveyance from Carrow T. Prout, Jr., and others, to Carolyn Prout King and James Forrest King, her husband, by deed dated August 10, 1984 and recorded among the aforesaid Land Records in Liber A.B.E. 330 at Folio 16;

THENCE leaving the First Parcel of the conveyance to Most Reverend Theodore E. McCarrick, Roman Catholic Archbishop of Washington and running with the northerly outline of said King Calvert Farm Limited Partnership property the following two (2) courses and distances as referenced to the meridian of the herein described, i.e.;

- 8) South 51° 16' 52" West – 727.22', and;
- 9) South 39° 26' 08" West – 684.68' to a pipe found at the northernmost corner of Lot 3R, The Carrow T. Prout Property, as shown on a plat thereof recorded among the Plat Records of Calvert County, Maryland in Plat Book K.P.S. 2 at Plat 358, said pipe also being at the northeast corner of Lot 93 in Section Three of Apple Greene subdivision as shown on a plat thereof recorded among the aforesaid Plat Records in Plat Book J.L.B. 3 at Plat 150;

CALVERT COUNTY CIRCUIT COURT (Land Records) KPS 4140, p. 0076, MSA_CE4_4261. Date available 03/11/2013. Printed 04/03/2014.

THENCE leaving the King Calvert Farm Limited Partnership property and Lot 3R, The Carrow T. Prout Property, and running with the northerly outline of said Lot 93 in Section Three of Apple Green subdivision as referenced to the meridian of the herein described, i.e.;

10) North 85° 56' 00" West – 194.70';

THENCE leaving Lot 93 and running with the easterly outlines of Lots 92, 91, 90, 89, 88 and 81 in said Section Three of Apple Green subdivision the following four (4) courses and distances as referenced to the meridian of the herein described, i.e.;

11) North 10° 19' 00" East – 231.00' to a pipe found, passing over a pipe found at 135.08' along said course;

12) North 22° 56' 00" West – 257.40' to a pipe found, passing over a pipe found at 45.41' along said course;

13) North 75° 11' 00" West – 181.50' to a pipe found, passing over pipes found at 12.00' and 68.18' along said course, and;

14) North 33° 11' 00" West – 150.50' to a pipe found at the southeast corner of Lot 77 in Section Two of Apple Greene subdivision as shown on a plat thereof recorded among the aforesaid Plat Records in Plat Book J.L.B. 3 at Plat 84;

THENCE leaving Lot 81 in Section Three of Apple Green subdivision and running with the easterly outlines of Lots 77, 76 and 69 in said Section Two of Apple Green subdivision the following five (5) courses and distances as referenced to the meridian of the herein described, i.e.;

15) North 33° 11' 00" West – 97.00' to a pipe found;

16) North 18° 11' 00" West – 330.00', passing over a pipe found at 69.32' along said course;

17) North 27° 26' 00" West – 118.80' ;

18) North 47° 26' 00" West – 148.50', and;

CALVERT COUNTY CIRCUIT COURT (Land Records) KPS 4140, p. 0077, MSA_CE4_4261. Date available 03/11/2013. Printed 04/03/2014.

19) North 20° 26' 00" West – 162.95' to the southeasterly corner of Lot 43 in Section One of Apple Greene subdivision as shown on a plat thereof recorded among the aforesaid Plat Records in Plat Book J.L.B. 3 at Plat 63;

THENCE leaving Lot 69 in Section Two of Apple Green subdivision and running with the easterly outline of said Lot 43 in Section One of Apple Green subdivision as referenced to the meridian of the herein described, i.e.;

20) North 20° 26' 00" West – 205.00' to the southeast corner of the conveyance from Lee Group of Virginia, Inc. to Badtec, Inc. by deed dated February 28, 2006 and recorded among the aforesaid Land Records in Liber K.P.S. 2707 at Folio 435;

THENCE leaving Lot 43 in Section One of Apple Green subdivision and running with the easterly outline of said Badtec, Inc. property and generally with the meandering of a stream the following thirty-two (32) courses and distances as now surveyed, i.e.;

- 21) South 58° 22' 07" East – 33.13';
- 22) North 03° 59' 08" West – 89.53';
- 23) North 20° 10' 58" West – 34.65';
- 24) North 18° 18' 19" East – 7.44';
- 25) North 16° 47' 24" West – 50.72';
- 26) North 26° 14' 34" East – 36.84';
- 27) North 20° 42' 30" East – 57.35';
- 28) North 01° 23' 34" West – 72.55';
- 29) North 45° 17' 54" East – 33.08';
- 30) North 29° 08' 05" East – 29.48';
- 31) North 04° 28' 40" West – 31.31';

- 32) North 07° 02' 26" East – 27.69';
- 33) North 55° 17' 20" East – 39.48';
- 34) North 32° 52' 11" East – 42.36';
- 35) North 70° 09' 56" West – 46.82';
- 36) North 18° 26' 52" West – 111.64';
- 37) North 01° 37' 16" East – 65.58';
- 38) North 04° 13' 47" West – 94.65';
- 39) North 05° 35' 52" West – 126.58';
- 40) North 66° 17' 54" West – 63.75';
- 41) North 19° 24' 55" East – 58.59';
- 42) North 54° 56' 28" West – 51.23';
- 43) North 11° 18' 03" West – 28.31';
- 44) North 29° 30' 42" East – 47.58';
- 45) North 25° 03' 20" West – 33.16';
- 46) South 89° 08' 15" West – 40.66';
- 47) South 77° 33' 51" West – 70.82';
- 48) North 34° 42' 17" West – 19.48';
- 49) North 34° 13' 41" East – 38.04';
- 50) North 45° 43' 14" West – 40.83';
- 51) North 33° 30' 37" West – 77.85', and;
- 52) North 47° 53' 55" West – 21.94' to intersect the southerly right-of-way line of the above mentioned Ward Road (30' right-of-way);

THENCE leaving the Badtec, Inc. property and running with the southerly right-of-way line of said Ward Road the following eight (8) courses and distances as now surveyed, i.e.;

- 53) North 63° 45' 26" East – 225.81' to a point of curvature;
- 54) 329.95' along the arc of a curve to the right, having a radius of 1,585.00' and a chord bearing and distance of North 69° 43' 15" East – 329.36' to a point of compound curvature;
- 55) 139.60' along the arc of a curve to the right, having a radius of 810.00' and a chord bearing and distance of North 80° 37' 18" East – 139.43' to a point of tangency;
- 56) North 85° 33' 33" East – 730.44';
- 57) North 85° 13' 33" East – 269.13';
- 58) North 85° 27' 11" East – 264.02';
- 59) North 84° 45' 52" East – 168.82' to a point of curvature, and;
- 60) 45.39' along the arc of a curve to the right, having a radius of 1,535.00' and a chord bearing and distance of North 85° 36' 42" East – 45.39' to the point and place of beginning.

CONTAINING 137.163 acres, more or less, as described and shown on a plat entitled **"BOUNDARY SURVEY, 137.163 ACRES± AND 31.642 ACRES±, THE PROPERTY OF EDWIN E. WARD, TRUSTEE OF THE EDWIN E. WARD TRUST, AND 40.207 ACRES±, THE PROPERTY OF DOUGLAS E. WARD AND KAREN K. WARD"** by Collinson, Oliff & Associates, Inc., Registered Professional Engineers and Land Surveyors in February 2013 from a boundary survey performed by Collinson, Oliff & Associates, Inc. in August 2011.

BEING that portion of the conveyance from Edwin E. Ward to Edwin E. Ward, Trustee of the Edwin E. Ward Trust, by deed dated January 31, 2006 and recorded among the Land Records of Calvert County, Maryland in Liber K.P.S. 2696 at Folio 164 lying south of Ward Road.

CALVERT COUNTY CIRCUIT COURT (Land Records) KPS 4140, p. 0080, MSA_CE4_4261. Date available 03/11/2013. Printed 04/03/2014.

Description of 137.163 Acres, More or Less
Page 7

BK 4140PG0081

in Chapter 06, "Minimum Standards of Practice," COMAR, Title 09, Subtitle 13, Maryland

Department of Licensing and Regulation for Land Surveyors, as currently in effect.



Jeffrey L. Tewell
Maryland Professional Land Surveyor No. 21270
License Expiration: June 19, 2013



CALVERT COUNTY CIRCUIT COURT (Land Records) KPS 4140, p. 0081, MSA_CE4_4261. Date available 03/11/2013. Printed 04/03/2014.

Based on the certification below, Transferor claims exemption from the tax withholding requirements of §10-912 of the Tax-General Article, Annotated Code of Maryland. Section 10-912 provides that certain tax payments must be withheld and paid when a deed or other instrument that effects a change in

ownership of real property is presented for recordation. The requirements of §10-912 do not apply when a transferor provides a certification of Maryland residence or certification that the transferred property is the transferor's principal residence.

1. Transferor Information

Name of Transferor

Douglas E. Ward, Trustee of the Edwin E. Ward Trust

2. Reasons for Exemption

Resident Status

I, Transferor, am a resident of the State of Maryland.

Transferor is a resident entity as defined in Code of Maryland Regulations (COMAR) 03.04.12.02B(11), I am an agent of Transferor, and I have authority to sign this document on Transferor's behalf.

Principal Residence

Although I am no longer a resident of the State of Maryland, the Property is my principal residence as defined in IRC 121 and is recorded as such with the State Department of Assessments and Taxation.

Under penalty of perjury, I certify that I have examined this declaration and that, to the best of my knowledge, it is true, correct, and complete.

3a. Individual Transferors

Witness

Name

Signature

3b. Entity Transferors

Witness/Attest

Edwin E. Ward Trust

Name of Entity

By

Douglas E. Ward

Name

Trustee

Title

The Damalouji Law Firm, LLC
135 W. Dares Beach Road
Suite 209-A
Prince Frederick, MD 20678
2013.0024

CALVERT COUNTY CIRCUIT COURT (Land Records) KPS 4140, p. 0082, MSA_CE4_4261. Date available 03/11/2013. Printed 04/03/2014.

State of Maryland Land Instrument Intake Sheet
 Baltimore City County: Calvert
Information provided is for the use of the Clerk's Office, State Department of Assessments and Taxation, and County Finance Office Only.
 (Type or Print in Black Ink Only—All Copies Must Be Legible)

Space Reserved for Circuit Court Clerk Recording Validation

1	Type(s) of Instruments	<input type="checkbox"/> Check Box if addendum Intake Form is Attached.)						
		<input checked="" type="checkbox"/> Deed	<input type="checkbox"/> Mortgage	<input type="checkbox"/> Other _____	<input type="checkbox"/> Other _____	<input type="checkbox"/> Deed of Trust	<input type="checkbox"/> Lease	
2	Conveyance Type Check Box	<input type="checkbox"/> Improved Sale Arms-Length [1]	<input type="checkbox"/> Unimproved Sale Arms-Length [2]	<input type="checkbox"/> Multiple Accounts Arms-Length [3]	<input type="checkbox"/> Not an Arms-Length Sale [9]			
3	Tax Exemptions (if applicable)	Recordation	Board of County Commissioners of Calvert County, Maryland					
	State Transfer	Board of County Commissioners of Calvert County, Maryland						
	County Transfer							
4	Consideration and Tax Calculations	Consideration Amount			Finance Office Use Only Transfer and Recordation Tax Consideration			
		Purchase Price/Consideration	\$ 2,179,000.00		Transfer Tax Consideration	\$		
		Any New Mortgage	\$ 0.00		X () % =	\$		
		Balance of Existing Mortgage	\$		Less Exemption Amount	-		
		Other:	\$		Total Transfer Tax	-		
		Other:	\$		Recordation Tax Consideration	\$		
		Full Cash Value:	\$		X () per \$500 =	\$		
		TOTAL DUE			\$			
5	Fees	Amount of Fees		Doc. 1	Doc. 2	Agent:		
		Recording Charge	\$ 0.00		\$	Tax Bill:		
		Surcharge	\$ 0.00		\$	C.B. Credit:		
		State Recordation Tax	\$ 0.00		\$	Ag. Tax/Other:		
		State Transfer Tax	\$ 0.00		\$			
		County Transfer Tax	\$		\$			
		Other	\$		\$			
	Other	\$		\$				
6	Description of Property SDAT requires submission of all applicable information. A maximum of 40 characters will be indexed in accordance with the priority cited in Real Property Article Section 3-104(g)(3)(i).	District	Property Tax ID No. (1)	Grantor Liber/Folio	Map	Parcel No.	Var. LOG	
		03	03-020045					<input type="checkbox"/> (5)
		Subdivision Name			Lot (3a)	Block (3b)	Sect/AR (3c)	Plat Ref.
								SqFu/Acreage (4)
		Location/Address of Property Being Conveyed (2)						
		10455 Ward Road, Dunkirk, MD 20754						
		Other Property Identifiers (if applicable)						Water Meter Account No.
		Residential <input checked="" type="checkbox"/> or Non-Residential <input type="checkbox"/>		Fee Simple <input checked="" type="checkbox"/> or Ground Rent <input type="checkbox"/>		Amount:		
		Partial Conveyance? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Description/Amt. of SqFu/Acreage Transferred:				
	If Partial Conveyance, List Improvements Conveyed:							
7	Transferred From	Doc. 1 – Grantor(s) Name(s)			Doc. 2 – Grantor(s) Name(s)			
		Douglas E. Ward, Trustee of the Edwin E. Ward Trust						
		Doc. 1 – Owner(s) of Record, if Different from Grantor(s)			Doc. 2 – Owner(s) of Record, if Different from Grantor(s)			
8	Transferred To	Doc. 1 – Grantee(s) Name(s)			Doc. 2 – Grantee(s) Name(s)			
		Board of County Commissioners of Calvert County, Maryland						
		New Owner's (Grantee) Mailing Address						
	175 Main Street, Prince Frederick, MD 20678							
9	Other Names to Be Indexed	Doc. 1 – Additional Names to be Indexed (Optional)			Doc. 2 – Additional Names to be Indexed (Optional)			
10	Contact/Mail Information	Instrument Submitted By or Contact Person					<input checked="" type="checkbox"/> Return to Contact Person	
		Name: Lena M. Grierson					<input type="checkbox"/> Hold for Pickup	
		Firm: The Damalouji Law Firm, LLC					<input type="checkbox"/> Return Address Provided	
		Address: 135 W. Dares Beach Road, Suite 209-A, Prince Frederick, MD 20678 Phone: (410) 535-5008						
11	Assessment Information	IMPORTANT: BOTH THE ORIGINAL DEED AND A PHOTOCOPY MUST ACCOMPANY EACH TRANSFER						
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Will the property being conveyed be the grantee's principal residence?					
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Does transfer include personal property? If yes, identify: _____					
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Was property surveyed? If yes, attach copy of survey (if recorded, no copy required).					
	Assessment Use Only – Do Not Write Below This Line							
	Terminal Verification	Agricultural Verification	Whole	Part	Tran. Process Verification			
	Transfer Number	Date Received:	Deed Reference:		Assigned Property No.:			
	Year	20	20	Geo.	Map	Sub	Block	
	Land			Zoning	Grid	Plat	Lot	
	Buildings			Use	Parcel	Section	Occ. Cd.	
	Total			Town Cd.	Ex. St.	Ex. Cd.		
	REMARKS:							

Distribution: White – Clerk's Office Pink – Office of Finance Canary – SDAT Goldenrod – Preparer AOC-CC-300 (5/2007)

CALVERT COUNTY CIRCUIT COURT (Land Records) KPS 4140, p. 0083, MSA_CE4_4261. Date available 03/11/2013. Printed 04/03/2014.

Ward Park

Ward Road
Dunkirk, MD 20754

Inquiry Number: 3900443.6

April 03, 2014

The EDR Property Tax Map Report



Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

MAHAN RYKIEL

EDR Property Tax Map Report

Environmental Data Resources, Inc.'s EDR Property Tax Map Report is designed to assist environmental professionals in evaluating potential environmental conditions on a target property by understanding property boundaries and other characteristics. The report includes a search of available property tax maps, which include information on boundaries for the target property and neighboring properties, addresses, parcel identification numbers, as well as other data typically used in property location and identification.

NO COVERAGE

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

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Ward Park

Ward Road
Dunkirk, MD 20754

Inquiry Number: 3900443.6
April 03, 2014

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NO COVERAGE

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with any questions or comments.

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Ward Park

Ward Road
Dunkirk, MD 20754

Inquiry Number: 3900443.8
April 03, 2014

EDR Building Permit Report

Target Property and Adjoining Properties



Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

MAHAN RYKIEL

EDR Building Permit Report: Search Documentation

4/03/14

Site Name:

Ward Park
Ward Road
Dunkirk, MD 20754

Client Name:

Whitman, Requardt & Assoc,
3701 Pender Drive
Fairfax, VA 22030

EDR Inquiry # 3900443.8

Contact: Kevin T. Roberts

Search Documentation

DATA GAP

The complete collection of Building Permit data available to EDR has been searched, and as of 4/03/14, EDR does not have access to building permits in the city where your target property is located (Dunkirk, MD).

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

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MAHAN RYKIEL

EDR BUILDING PERMIT REPORT

About This Report

The EDR Building Permit Report provides a practical and efficient method to search building department records for indications of environmental conditions. Generated via a search of municipal building permit records gathered from more than 1,600 cities nationwide, this report will assist you in meeting the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

Building permit data can be used to identify current and/or former operations and structures/features of environmental concern. The data can provide information on a target property and adjoining properties such as the presence of underground storage tanks, pump islands, sumps, drywells, etc., as well as information regarding water, sewer, natural gas, electrical connection dates, and current/former septic tanks.

ASTM and EPA Requirements

ASTM E 1527-13 lists building department records as a "standard historical source," as detailed in § 8.3.4.7: "Building Department Records - The term building department records means those records of the local government in which the property is located indicating permission of the local government to construct, alter, or demolish improvements on the property." ASTM also states that "Uses in the area surrounding the property shall be identified in the report, but this task is required only to the extent that this information is revealed in the course of researching the property itself."

EPA's Standards and Practices for All Appropriate Inquiries (AAI) states: "§312.24: Reviews of historical sources of information. (a) Historical documents and records must be reviewed for the purposes of achieving the objectives and performance factors of §312.20(e) and (f). Historical documents and records may include, but are not limited to, aerial photographs, fire insurance maps, building department records, chain of title documents, and land use records."

Methodology

EDR has developed the EDR Building Permit Report through our partnership with BuildFax, the nation's largest repository of building department records. BuildFax collects, updates, and manages building department records from local municipal governments. The database now includes 30 million permits, on more than 10 million properties across 1,600 cities in the United States.

The EDR Building Permit Report comprises local municipal building permit records, gathered directly from local jurisdictions, including both target property and adjoining properties. Years of coverage vary by municipality. Data reported includes (where available): date of permit, permit type, permit number, status, valuation, contractor company, contractor name, and description.

Incoming permit data is checked at seven stages in a regimented quality control process, from initial data source interview, to data preparation, through final auditing. To ensure the building department is accurate, each of the seven quality control stages contains, on average, 15 additional quality checks, resulting in a process of approximately 105 quality control "touch points."

For more information about the EDR Building Permit Report, please contact your EDR Account Executive at (800) 352-0050.



APPENDIX B
CORRESPONDENCE

July 2014



April 10, 2014

Calvert County Health Department
Department of Environmental Health
975 Solomons Island Road
P.O. Box 980
Prince Frederick, MD 20678

Re: Ward Park
Phase I Environmental Site Assessment
WO #42083-000

Mr. Bill Haygood, Director, Environmental Health:

Whitman, Requardt & Associates, LLP (WR&A) is currently conducting a Phase I Environmental Site Assessment (ESA) for the Calvert County Division of Parks and Recreation at the proposed "Ward Park" located on Ward Road in Dunkirk, Calvert County, Maryland. An objective of this Phase I ESA is to obtain information indicating recognized environmental conditions within the project footprint, as well as the surrounding vicinity. Please find enclosed a site location map for your reference.

WR&A respectfully requests any information regarding spills, releases, wells, or other features that should be considered in our report. I can be notified of your findings in writing at 3701 Pender Drive, Suite 450, Fairfax, VA 22030, or contacted to arrange a file review visit, if necessary, at 703-293-7432 or by email (kroberts@wrallp.com).

Very truly yours,
Whitman, Requardt & Associates, LLP

Kevin T. Roberts
Environmental Scientist

Enclosures

cc: Amanda Baxter, WR&A

**CALVERT COUNTY HEALTH DEPARTMENT
DIVISION OF ENVIRONMENTAL HEALTH**

P.O. Box 980
Prince Frederick, Maryland 20678

Laurence Polsky, MD, MPH, F.A.C.O.G.
Health Officer

Paul S. McFaden, RS
Director



STATE OF MARYLAND

April 9, 2014

(410) 535-3922

Washington Area (301) 855-1557

FAX (410) 535-5252

www.calverthealth.org

To: Kevin T. Roberts
C/o Whitman, Requardt & Associates, LLP
3701 Pender Drive, Suite 450
Fairfax, Va. 22030

From: William E. Haygood LEHS *WH*

Re: Phase I ESA for the proposed "Ward Park".

The subject property looks to comprise two parcels of land. The first, Map 6, Parcel 54, Tax ID# 03-020045, has a street address of 10455 Ward Road. This property is improved with a residence that is served by an on-site well and septic system. Information pertaining to these installations is attached for your use. The second property is shown as Map 6, Parcel 70, Tax ID# 03-106748 and has a street address of 10501 Ward Road. This property is unimproved. Other than the well and septic systems on the first parcel, there is no other information available documenting any violations on the subject parcels.

In the future, please include the Map and Parcel, Tax ID# or street address for subject properties to ease the search for documents requested. Thank You.

Enc; file copies

Calvert County
HEALTH DEPARTMENT
Division of Environmental Health
P.O. Box 980
Prince Frederick, Maryland 20678

Laurence Polsky, MD, MPH, F.A.C.O.G.
Health Officer
Paul S. McFaden, R.S.
Director

Environmental Health
410-535-3922
301-855-1557
Fax 410-535-5252

SEPTIC FINAL

AP #13-312654

August 22, 2013

Address: 10455 WARD RD DUNKIRK, MD 20754

WARD, EDWIN E TRUSTEE

BOARD OF COUNTY COMMISSIONERS

Primary Applicant

MORGAN E. RUSSELL, INC.

Tax ID: 3- 020045

Parcel ID: 6-54-0-0-0

<u>Critical Area</u>	<u>District</u>	<u>Floodplain</u>	<u>TownCenter</u>	<u>Municipality</u>
N/A	3	N/A	N/A	N/A
N/A	3	N/A	N/A	N/A

A/P Name: MAP 6 PARCEL 54

Purpose of Permit: SEPTIC PERMIT

Approved By: _____

Paul S. McFaden

Date: _____

8-26-13

Environmental Health

Calvert County
HEALTH DEPARTMENT
 Division of Environmental Health
 P.O. Box 980
 Prince Frederick, Maryland 20678

Laurence Polsky, MD, MPH, F.A.C.O.G
 Health Officer
 Paul S. McFaden, R.S.
 Director

Environmental Health
 410-535-3922
 301-855-1557
 Fax 410-535-5252

PERMIT

AP #13-312654

May 30, 2013

Address: 10455 WARD RD DUNKIRK, MD 20754

WARD, EDWIN E TRUSTEE

DOUGLAS PARRAN COUNTY ADMIN BOARD O *Primary Applicant*

Tax ID: 3- 020045

Parcel ID: 6-54-0-0-0

<u>Critical Area</u>	<u>District</u>	<u>Floodplain</u>	<u>TownCenter</u>	<u>Municipality</u>
N/A	3	N/A	N/A	N/A
N/A	3	N/A	N/A	N/A

A/P Name: MAP 6 PARCEL 54

Purpose of Permit: SEPTIC PERMIT

Approved By: 
 Environmental Health

- Addition
- Remodel
- Existing

- Replace Septic System Only
- Existing Septic System
- Proposed Septic System

- Proposed Drilled Well
- Existing Drilled Well
- Existing Well - (dug, bored or driven)

CONTRACT PURCHASER _____

Applicant: Complete all applicable spaces: ALL COPIES MUST BE LEGIBLE

1. CURRENT OWNER Board of Commissioners of Calvert County ADDRESS 175 main Street
 CITY Prince Frederick STATE MD ZIP CODE 20678 PHONE: HOME 410-535-1600
 STREET ADDRESS OF PROPERTY: 0455 Ward Rd, Dunkirk MD 20754 WORK 410-535-1600

2. DIRECTIONS TO PROPERTY North on Rt 4 Turn right on Ward Rd. pass cemetery - next farm house - driveway on right

3. SUBDIVISION _____ LOT NO. _____ BLOCK _____ SECTION _____
 OR ACREAGE 168.80 ac TAX MAP NO. 6 PARCEL NO. 0054

4. BUILDING SPECIFICATIONS
 Residential Commercial _____ Other _____
 Number of Bedrooms 3
 Basement Yes No
 NOTE: If yes, top of septic tank is to be no deeper than three feet from ground surface.

5. Closest distance between any part of sewage disposal system and any water well _____

FOR NEW CONSTRUCTION THE FOLLOWING MUST BE CARRIED OUT. Non-compliance or inaccurate information will result in a denial of percolation test and/or final approval.

1. Attach 5 copies of plot plan showing the true size and shape of the property and the proposed house location to scale 1 inch=10, 20, 30 feet etc. Plot Plan shall include location of percolation test(s), proposed drainfield area, proposed well along with location of any wells or disposal systems within 100 ft. of the property lines.
2. The corners of any property less than 1 acre and proposed house must be staked and identified prior to testing.
3. After conducting the satisfactory percolation test, by a representative of this office 5 copies of the site plan fulfilling the requirements of COMAR 26.04.02 must be submitted. This site plan must be prepared by a registered surveyor.

NOTE: Only after the review of the final site plan will approval of a sanitary construction permit be considered.

The applicant hereby certifies and agrees as follows:
 (1) that he is authorized to make this application; (2) that the information is correct; (3) that he will comply with all regulations of Calvert County which are applicable hereto; (4) that he will perform no work on the above property not specifically described in this application; (5) that he grants County officials the right to enter onto the property for the purpose of inspecting the work permitted and posting notices; (6) it will be the responsibility of the applicant to ensure that the water supply serving this dwelling has been tested and certified by the Health Dept.

SIGNED Robert V. Rawlings
 DATE 5/16/13 PHONE 410-535-1600 x 6799

MAIL TO: PRINT OR TYPE

DO NOT WRITE BELOW THIS LINE

SOIL PERCOLATION INFORMATION

Date of Test 5-15-13
 Test Time 4-4
 Depth 12'
 Depth to Porous Soil (10-11')

ADDITIONAL COMMENTS:
0-2 inch soil
2-8 inches mid of
5-10 transition zone
with some clay
10-15 fine sand which
ranes well
water

HEALTH DEPARTMENT MINIMUM RECOMMENDATIONS

Septic Tank Size 1500 gallons
 Tile Field: Total length 100 ft. No. of Trenches 3 Length 50 ft. Width 2 ft. Depth 15 ft.
 Pipe in trench no deeper than 3 ft. Trenches separated by 15 ft. from center to center
12 ft. of washed gravel under the pipe contact zone for 24-in. tile manhole
 Seepage Pit: Total depth _____ ft., Diameter 36 inch U.S. Gallons per hour _____ ft., No. of pits _____
 Effec. depth _____ Effec. area _____ square ft.

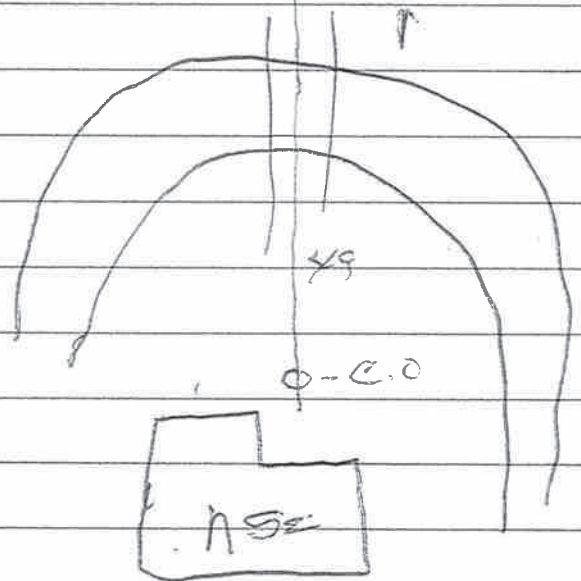
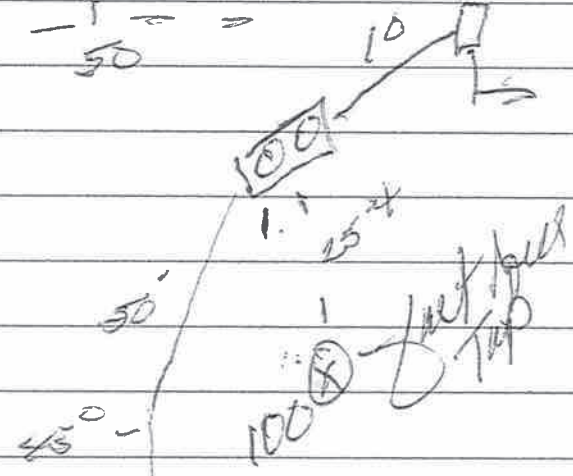
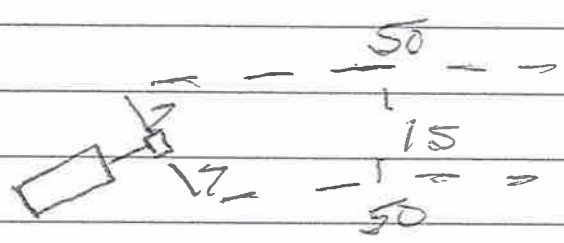
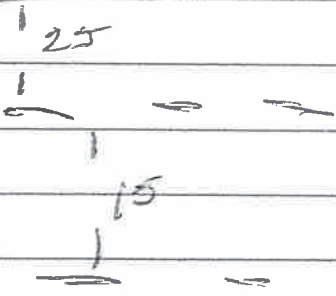
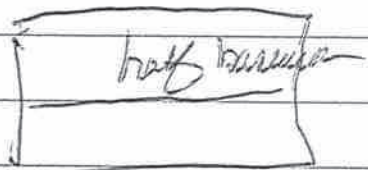
The house, well and septic system must be located as shown on the site plans submitted by _____ on _____
 Any deviations from these plans must have prior approval of the Health Department or the permit may be revoked.

Permit Issued: Paul SM Yacke Paul SM Yacke Date 6-12-13

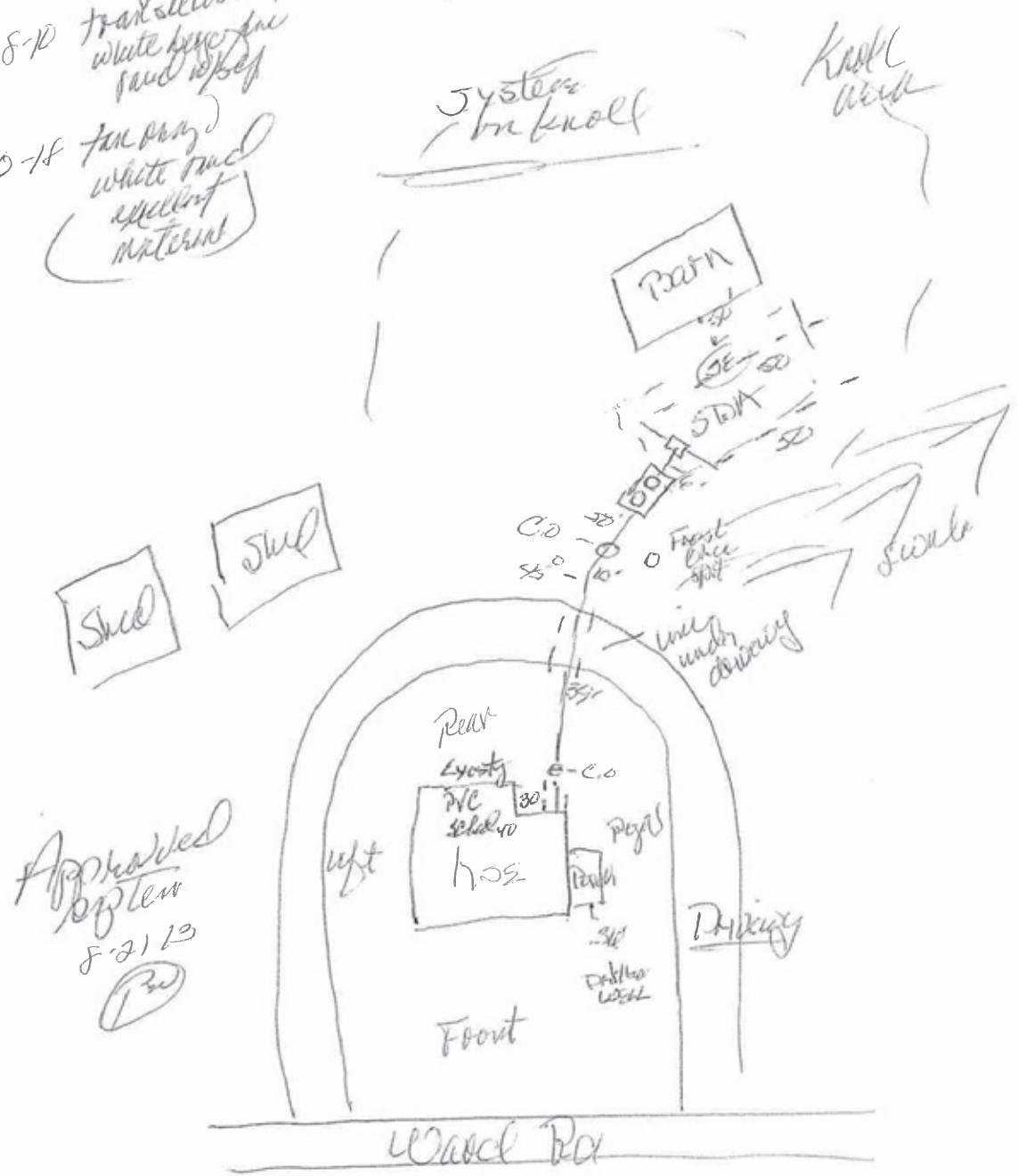
312-654

13-B

6-13-13
On-site
Layout



0-2 to soil 9:25 11' 30" 7
 2-8' ramped 9:33 2" Dip
 8-10 transition 9:50 4" Dip
 white base fine sand w/ seaf
 10-18 fan pay white sand excellent material



- Plot plan must be drawn to scale
- Engineer's scale only (1 inch = 10,20,30 ft. etc.).
- Indicate the dimensions of all property lines
- Show the proposed house locations, its dimensions

C1 2065 SEQUENCE NO. (DENV USE ONLY)
 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

STATE OF MARYLAND
 WELL COMPLETION REPORT
 FILL IN THIS FORM COMPLETELY
 PLEASE PRINT OR TYPE

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
 COUNTY NUMBER 93-03020045-30

ST/CO USE ONLY
 DATE RECEIVED

DATE WELL COMPLETED
 10/17/93

Depth of Well
 22 357 26
 (TO NEAREST FOOT)

PERMIT NO.
 FROM "PERMIT TO DRILL WELL"
 CA-88-372h

OWNER Ward, Edwin
 STREET OR RFD 10455 Ward Road first name TOWN Dunkirk, MD 20754
 SUBDIVISION Map 6, Parcel 54 SECTION LOT

WELL LOG
 Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

DESCRIPTION (Use additional sheets if needed)	FEET		Check if water bearing
	FROM	TO	
Orange clay	0	12	
tan sand + white clay	12	27	
green clay + black sand	27	246	
pink clay	246	260	
green clay, Black sand + shell	260	316	
cemented sand	316	338	
B&B sand + shell	338	357	
fine black sand	357	367	

GROUTING RECORD
 WELL HAS BEEN GROUTED (Circle Appropriate Box) Y N
 TYPE OF GROUTING MATERIAL
 CEMENT CM BENTONITE CLAY BC
 NO. OF BAGS 5 NO. OF POUNDS 250
 GALLONS OF WATER 150
 DEPTH OF GROUT SEAL (to nearest foot)
 from 0 ft. to 126 ft.
 (enter 0 if from surface)

CASING RECORD
 casing types insert appropriate code below
 ST STEEL CO CONCRETE
 PL PLASTIC OT OTHER
 MAIN CASING TYPE Nominal diameter top (main) casing (nearest inch) Total depth of main casing (nearest foot)
 PL 4 1/2" 330

OTHER CASING (if used) diameter inch depth (feet) from to
 SC 2" 300 342
 SCREEN RECORD
 screen type or open hole insert appropriate code below
 ST STEEL BR BRASS HO OPEN HOLE
 PL PLASTIC OT OTHER

C2

EACH CASING	DEPTH (nearest ft.)	
	from	to
1 SC	342	357
2		
3		

SLOT SIZE 2 1/2
 DIAMETER OF SCREEN 2 (NEAREST INCH)
 from 300 to 357
 GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

CIRCLE APPROPRIATE LETTER
 A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED
 E ELECTRIC LOG OBTAINED
 P TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

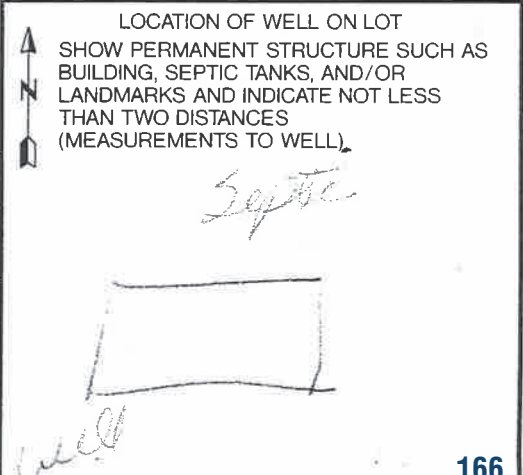
DRILLERS IDENT. NO. 341
Michael Anapol
 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

TELESCOPE CASING LOG INDICATOR OTHER DATA
 T (E.R.O.S.) W Q
 70 72 74 75 76

C3
 PUMPING TEST
 HOURS PUMPED (nearest hour) 1
 PUMPING RATE (gal. per min. to nearest gal.) 300
 METHOD USED TO MEASURE PUMPING RATE Direct
 WATER LEVEL (distance from land surface) BEFORE PUMPING 165 WHEN PUMPING 190
 TYPE OF PUMP USED (for test)
 A air P piston T turbine
 C centrifugal R rotary O other (describe below)
 J jet S submersible

PUMP INSTALLED
 DRILLER WILL INSTALL PUMP (CIRCLE) YES NO
 IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS EXCEPT HOME USE
 TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX - SEE ABOVE: A
 CAPACITY: GALLONS PER MINUTE (to nearest gallon) 300
 PUMP HORSE POWER 1
 PUMP COLUMN LENGTH (nearest ft.) 240
 CASING HEIGHT (circle appropriate box and enter casing height) + above } LAND SURFACE (nearest foot) 1
 - below }



B 1 09319

SEQUENCE NO. (DP USE ONLY)

STATE OF MARYLAND PERMIT TO DRILL WELL

please print or type

STATE PERMIT NUMBER

CA-88-3720 fill in this form completely

Date Received (APA)

Empty date grid

OWNER INFORMATION

Owner Name: Ward, Edwin; Street: 10455 Ward Road; Town: Dunkirk, MD; Zip: 20754

B 3

LOCATION OF WELL

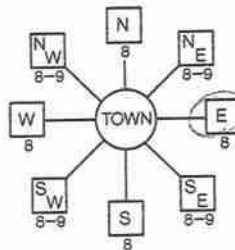
Location details: County: Calverton; Subdivision: TM-6 P-59; Nearest Town: Dunkirk; Miles from town: 2.5 MI

DRILLER INFORMATION

Driller's Name: Michael A. L...; License No: 0181; Firm Name: ...; Address: ...; Date: ...

B 4

DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



NEAR WHAT ROAD: 10455 Ward Rd.

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)



DISTANCE FROM ROAD: 75 FT

B 2

WELL INFORMATION

APPROX. PUMPING RATE: 8 GAL. PER MIN.; AVERAGE DAILY QUANTITY NEEDED: 550 GAL. PER DAY

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- Home (single or double household unit only) - circled; Farming; Industrial; Public or private water company; Test, observation, monitoring

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Approval section: County Name: Calverton; State Signature: ...; Date Issued: ...; North Grid: 25000; East Grid: 0778000

APPROXIMATE DEPTH OF WELL: 300 FEET

APPROXIMATE DIAMETER OF WELL: 4 inches NEAREST INCH

METHOD OF DRILLING (circle one)

- Bored, Jetted, Air-Rotary, Air-PerCussion, Cable, Reverse-Rotary, Drive-Point; ROTARY (Hydraulic Rotary) - circled

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

- Not replace existing well - circled; Replace well to be abandoned and sealed; Replace well to be used as a standby; Deepen existing well

Not to be filled in by driller (OEP USE ONLY)

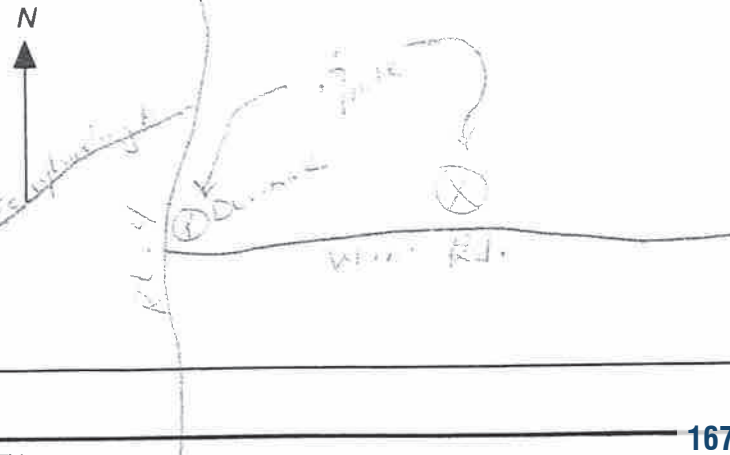
APPROX. PERMIT NUMBER: GAP; FORCE: ...; PERMIT No.: CA-88-3720

SPECIAL CONDITIONS

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X; SOURCES OF DRILLING WATER; WRITE THE BOX NUMBER FROM THE MAP HERE



DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION





April 10, 2014

Dunkirk Volunteer Fire Department (Calvert County 5)
3170 West Ward Road
Dunkirk, MD 20754

Re: Ward Park
Phase I Environmental Site Assessment
WO #42083-000

Dunkirk Volunteer Fire Department (Calvert County 5):

Whitman, Requardt & Associates, LLP (WR&A) is currently conducting a Phase I Environmental Site Assessment (ESA) for the Calvert County Division of Parks and Recreation at the proposed "Ward Park" located on Ward Road in Dunkirk, Calvert County, Maryland. An objective of this Phase I ESA is to obtain information indicating recognized environmental conditions within the project footprint, as well as the surrounding vicinity. Please find enclosed a site location map for your reference.

WR&A respectfully requests any information regarding spills, releases, wells, or other features that should be considered in our report. I can be notified of your findings in writing at 3701 Pender Drive, Suite 450, Fairfax, VA 22030, or contacted to arrange a file review visit, if necessary, at 703-293-7432 or by email (kroberts@wrallp.com).

Very truly yours,
Whitman, Requardt & Associates, LLP

Kevin T. Roberts
Environmental Scientist

Enclosures

cc: Amanda Baxter, WR&A



April 10, 2014

Calvert County Fire/Rescue/EMS Division
175 Main Street
Prince Frederick, MD 20678

Re: Ward Park
Phase I Environmental Site Assessment
WO #42083-000

Calvert County Fire/Rescue/EMS Division:

Whitman, Requardt & Associates, LLP (WR&A) is currently conducting a Phase I Environmental Site Assessment (ESA) for the Calvert County Division of Parks and Recreation at the proposed "Ward Park" located on Ward Road in Dunkirk, Calvert County, Maryland. An objective of this Phase I ESA is to obtain information indicating recognized environmental conditions within the project footprint, as well as the surrounding vicinity. Please find enclosed a site location map for your reference.

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Very truly yours,
Whitman, Requardt & Associates, LLP

Kevin T. Roberts
Environmental Scientist

Enclosures

cc: Amanda Baxter, WR&A



April 8, 2014

Ms. Maria Stephens
 Maryland Department of the Environment
 Waste Management Administration
 1800 Washington Boulevard
 Baltimore, Maryland 21230

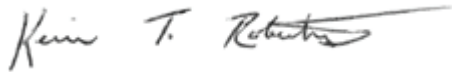
RE: Ward Park
 Phase I Environmental Site Assessment
 WO # 42083

Dear Ms. Stephens:

Whitman, Requardt & Associates, LLP (WR&A) is currently conducting a Phase I Environmental Site Assessment (ESA) the proposed Ward Park located on Ward Road in Dunkirk, Calvert County, Maryland. An objective of this Phase I ESA is to obtain information indicating recognized environmental conditions within the project footprint, as well as the surrounding vicinity. WR&A obtained an environmental data report which identified the regulatory sites within the project vicinity. Please find enclosed the table of identified regulatory sites in the vicinity of the Ward Park reconstruction project area.

Site Name(s)	Address	OCP #(s) Facility ID(s)
Jacquelyn Ewing (Red Hall) Residence	10340 Ward Road, Dunkirk, MD 20754	Facility ID: 14205
Charles Edwards Residence	1960 Haven Lane Dunkirk, MD 20754	OCP#: 10-0468CA
Maarcella La Fley	10221Ward Road, Dunkirk, MD 20754	OCP#: 96-0742CA
Dunkirk Sunoco (Besche Oil Site)	9850 Southern MD. BLVD, Dunkirk, MD 20754	OCP#:93-0750CA (Historical LUST)
Dunkirk Village Shopping Center	Route 4 Ward & Road Dunkirk, MD 20754	Facility ID: 3004670 (Hist. UST) Facility ID: 15459

Sincerely,



Whitman, Requardt & Associates, LLP

Kevin T. Roberts
Environmental Scientist

WHITMAN, REQUARDT & ASSOCIATES, LLP
3701 Pender Drive, Suite 450
Fairfax, VA 22030
703-293-7432-direct
703-293-9717 - office
703-273-6773 - fax
kroberts@wrallp.com

Enclosures

cc: Amanda Baxter, WR&A

APPENDIX C
SITE PHOTOGRAPHS

July 2014



PHOTO 1: Ward Residence (looking the south)



PHOTO 2: Property south of Ward Road (looking south)



PHOTO 3: Wooded area with road on southern portion of property (looking west)



PHOTO 4: Barns and Sheds located south of residence (looking north)

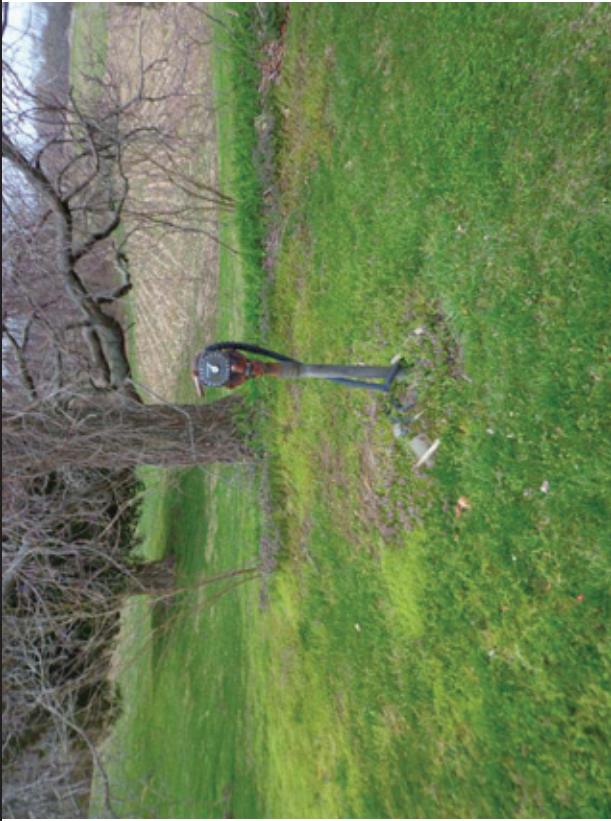


PHOTO 5: Petroleum Dispenser (located south of residence)



PHOTO 6: UST Port and Dispenser (located south of residence)



PHOTO 7: Heating oil UST (located on west side of residence)



PHOTO 8: Propane UST (located just northeast of residence)

PHOTO 11: Close up of portable septic box (east of residence)



PHOTO 12: Pad-mounted Transformer (located east of residence)



PHOTO 9: Close up of propane U2L (northwest of residence)



PHOTO 10: Possible septic access (east of residence)



PHOTO 12: Embury drums located below porch (southwest of residence)



PHOTO 16: Embury drums located in shed (southeast of residence)



PHOTO 13: Miscellaneous containers in shed (south of residence)



PHOTO 14: Shed (south of home)



PHOTO 19: Empty drum in front of northern most barn (looking east)



PHOTO 20: Dumped furniture on east property (looking north)



PHOTO 17: Out of commission tank located within barn (southeast)



Photo 18: Dumping area in center of property (looking east)





PHOTO 21: Out of commission tank located within barn (southeast)



Photo 22: Dumping area in center of property (looking east)



PHOTO 23: Shingles & construction debris dumped along east property line (looking east)



PHOTO 24: Wetland area within property interior (looking east)

PHOTO 57: Empty Propane Tank at vacant care taker property (looking east)



PHOTO 58: Abandoned well at the Dunkirk Sinoco (Open OCB Case) site (looking east)



PHOTO 59: Farming area located throughout the property (looking east)



PHOTO 59: Vacant former property care taker house (looking north)



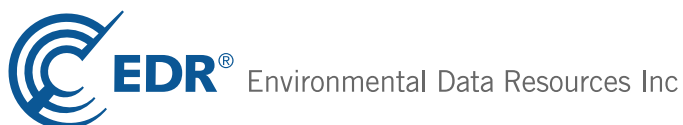
APPENDIX D
EDR RADIUS MAP REPORT

July 2014

Ward Park
Ward Road
Dunkirk, MD 20754

Inquiry Number: 3900443.2s
April 03, 2014

The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

MAHAN RYKIEL

FORM-LBB-CCA

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

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

WARD ROAD
DUNKIRK, MD 20754

COORDINATES

Latitude (North): 38.7215000 - 38° 43' 17.40"
Longitude (West): 76.6477000 - 76° 38' 51.72"
Universal Transverse Mercator: Zone 18
UTM X (Meters): 356757.2
UTM Y (Meters): 4286953.0
Elevation: 129 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 38076-F6 LOWER MARLBORO, MD
Most Recent Revision: 1979

AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year: 2011
Source: USDA

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 search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List

EXECUTIVE SUMMARY

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

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

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

Federal CERCLIS NFRAP site List

CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG..... RCRA - Large Quantity Generators
RCRA-SQG..... RCRA - Small Quantity Generators
RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROL..... Sites with Institutional Controls
LUCIS..... Land Use Control Information System

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent CERCLIS

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

State and tribal landfill and/or solid waste disposal site lists

SWF/LF..... Permitted Solid Waste Disposal Facilities

State and tribal leaking storage tank lists

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

AST..... Permitted Aboveground Storage Tanks

EXECUTIVE SUMMARY

INDIAN UST..... Underground Storage Tanks on Indian Land
FEMA UST..... Underground Storage Tank Listing

State and tribal institutional control / engineering control registries

ENG CONTROLS..... Engineering Controls Site listing
INST CONTROL..... Voluntary Cleanup Program Applicants/Participants

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing
VCP..... Voluntary Cleanup Program Applicants/Participants

State and tribal Brownfields sites

BROWNFIELDS..... Eligible Brownfields Properties

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
ODI..... Open Dump Inventory
SWRCY..... Recycling Directory
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs
US HIST CDL..... National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

HIST UST..... Historical UST Registered Database

Local Land Records

LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System
SPILLS 90..... SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR..... RCRA - Non Generators
DOT OPS..... Incident and Accident Data
DOD..... Department of Defense Sites
FUDS..... Formerly Used Defense Sites

EXECUTIVE SUMMARY

CONSENT.....	Superfund (CERCLA) Consent Decrees
ROD.....	Records Of Decision
UMTRA.....	Uranium Mill Tailings Sites
US MINES.....	Mines Master Index File
TRIS.....	Toxic Chemical Release Inventory System
TSCA.....	Toxic Substances Control Act
FTTS.....	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS.....	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS.....	Section 7 Tracking Systems
ICIS.....	Integrated Compliance Information System
PADS.....	PCB Activity Database System
MLTS.....	Material Licensing Tracking System
RADINFO.....	Radiation Information Database
FINDS.....	Facility Index System/Facility Registry System
RAATS.....	RCRA Administrative Action Tracking System
RMP.....	Risk Management Plans
UIC.....	Underground Injection Wells Database
DRYCLEANERS.....	Registered Drycleaning Facilities
NPDES.....	Wastewater Permit Listing
AIRS.....	Permit and Facility Information Listing
LEAD.....	Lead Inspection Database
INDIAN RESERV.....	Indian Reservations
SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing
EPA WATCH LIST.....	EPA WATCH LIST
Financial Assurance.....	Financial Assurance Information Listing
PCB TRANSFORMER.....	PCB Transformer Registration Database
COAL ASH EPA.....	Coal Combustion Residues Surface Impoundments List
US FIN ASSUR.....	Financial Assurance Information
COAL ASH DOE.....	Steam-Electric Plant Operation Data
COAL ASH.....	Coal Ash Disposal Site Listing
LRP.....	Land Restoration Program
PRP.....	Potentially Responsible Parties
US AIRS.....	Aerometric Information Retrieval System Facility Subsystem
2020 COR ACTION.....	2020 Corrective Action Program List
LEAD SMELTERS.....	Lead Smelter Sites

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP.....	EDR Proprietary Manufactured Gas Plants
EDR US Hist Auto Stat.....	EDR Exclusive Historic Gas Stations
EDR US Hist Cleaners.....	EDR Exclusive Historic Dry Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS.....	Recovered Government Archive State Hazardous Waste Facilities List
RGA LF.....	Recovered Government Archive Solid Waste Facilities List
RGA LUST.....	Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

EXECUTIVE SUMMARY

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

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

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

STANDARD ENVIRONMENTAL RECORDS

State and tribal leaking storage tank lists

OCPCASES: Cases monitored by the Oil Control Program.

A review of the OCPCASES list, as provided by EDR, and dated 06/30/2013 has revealed that there are 2 OCPCASES sites within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CHARLES EDWARDS RESIDENCE Facility Status: CLOSED	1960 HAVEN LANE	E 0 - 1/8 (0.078 mi.)	2	8
LA FLEY, MARCELLA Facility Status: CLOSED	10221 WARD RD	WSW 1/8 - 1/4 (0.206 mi.)	3	8

HIST LUST: 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 underground storage tank information maybe found in the OCPCASES database.

A review of the HIST LUST list, as provided by EDR, and dated 03/01/1999 has revealed that there is 1 HIST LUST site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
DUNKIRK SUNOCO (BESCHE OIL SIT Open Or Closed: OPEN	9850 SOUTHERN MD. BLVD.	SW 1/4 - 1/2 (0.495 mi.)	4	8

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of the Environment's Listing of Underground Storage Tanks Reported in Maryland.

A review of the UST list, as provided by EDR, and dated 06/30/2013 has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

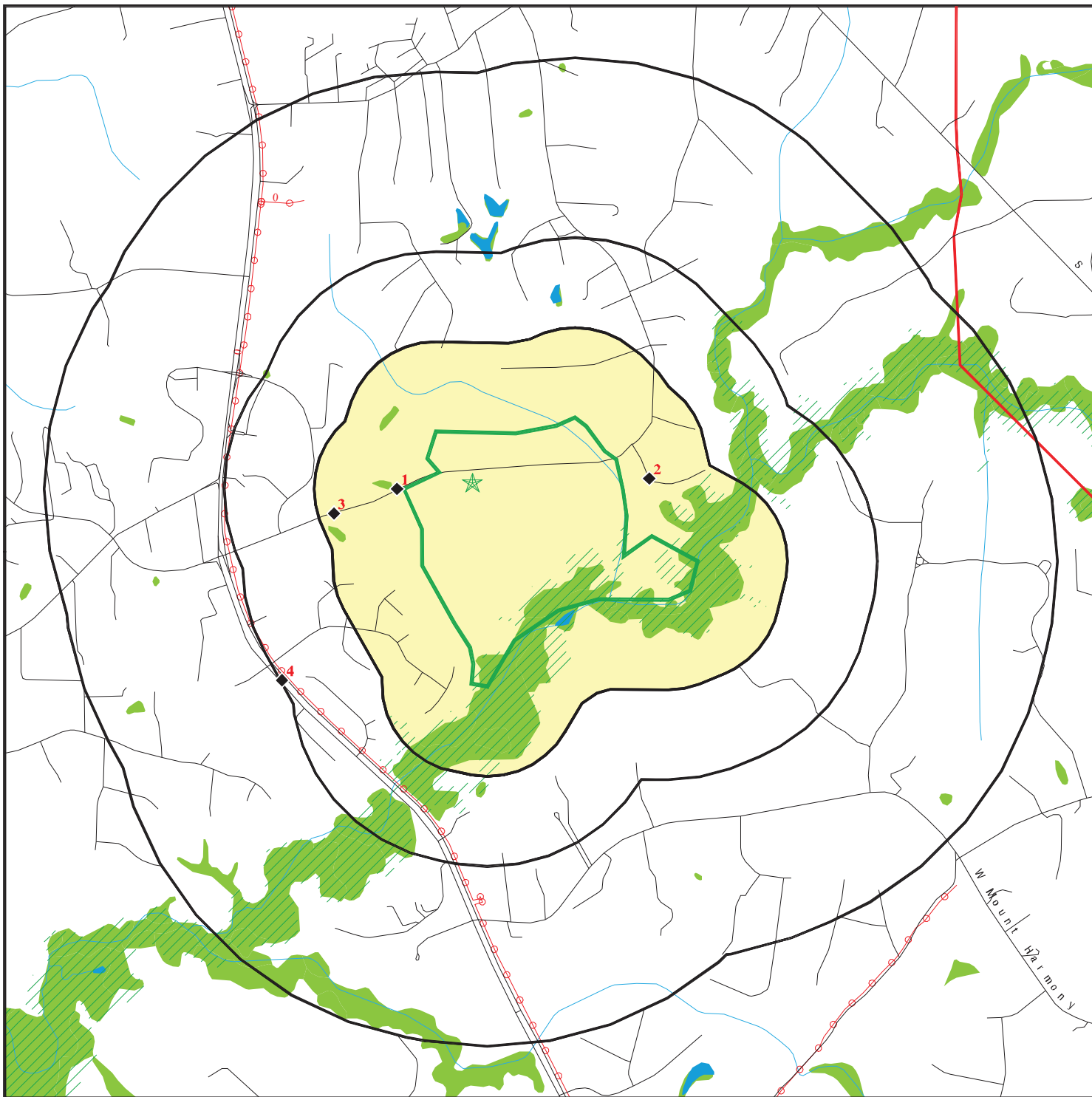
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>JACQUELYN EWING (RED HALL) RES</i>	<i>10340 WARD ROAD</i>	<i>W 0 - 1/8 (0.019 mi.)</i>	<i>1</i>	<i>7</i>

EXECUTIVE SUMMARY


Due to poor or inadequate address information, the following sites were not mapped. Count: 9 records.


<u>Site Name</u>	<u>Database(s)</u>
DUNKIRK SUPPLY TRUSS PLANT	OCPCASES, HIST UST
EXXON STATION #2-5880	HIST UST
DUNKIRK VILLA SHOPPING CTR.	HIST UST
WARD'S U.M. CHURCH	HIST UST
S/S #2-5880	UST, Financial Assurance
DUNKIRK VILLAGE SHOPPING CENTER	UST, Financial Assurance
HELEN P. MARSELLAS T/A WARDS GROCE	UST, Financial Assurance
S/S#2-1068	UST, Financial Assurance
DUNKIRK SUPPLY TRUSS PLANT	UST, Financial Assurance

OVERVIEW MAP - 3900443.2s



 Target Property

 Sites at elevations higher than or equal to the target property

 Sites at elevations lower than the target property

 Manufactured Gas Plants

 National Priority List Sites

 Dept. Defense Sites

 Indian Reservations BIA

 County Boundary

 Power transmission lines

 Oil & Gas pipelines from USGS

 100-year flood zone

 500-year flood zone

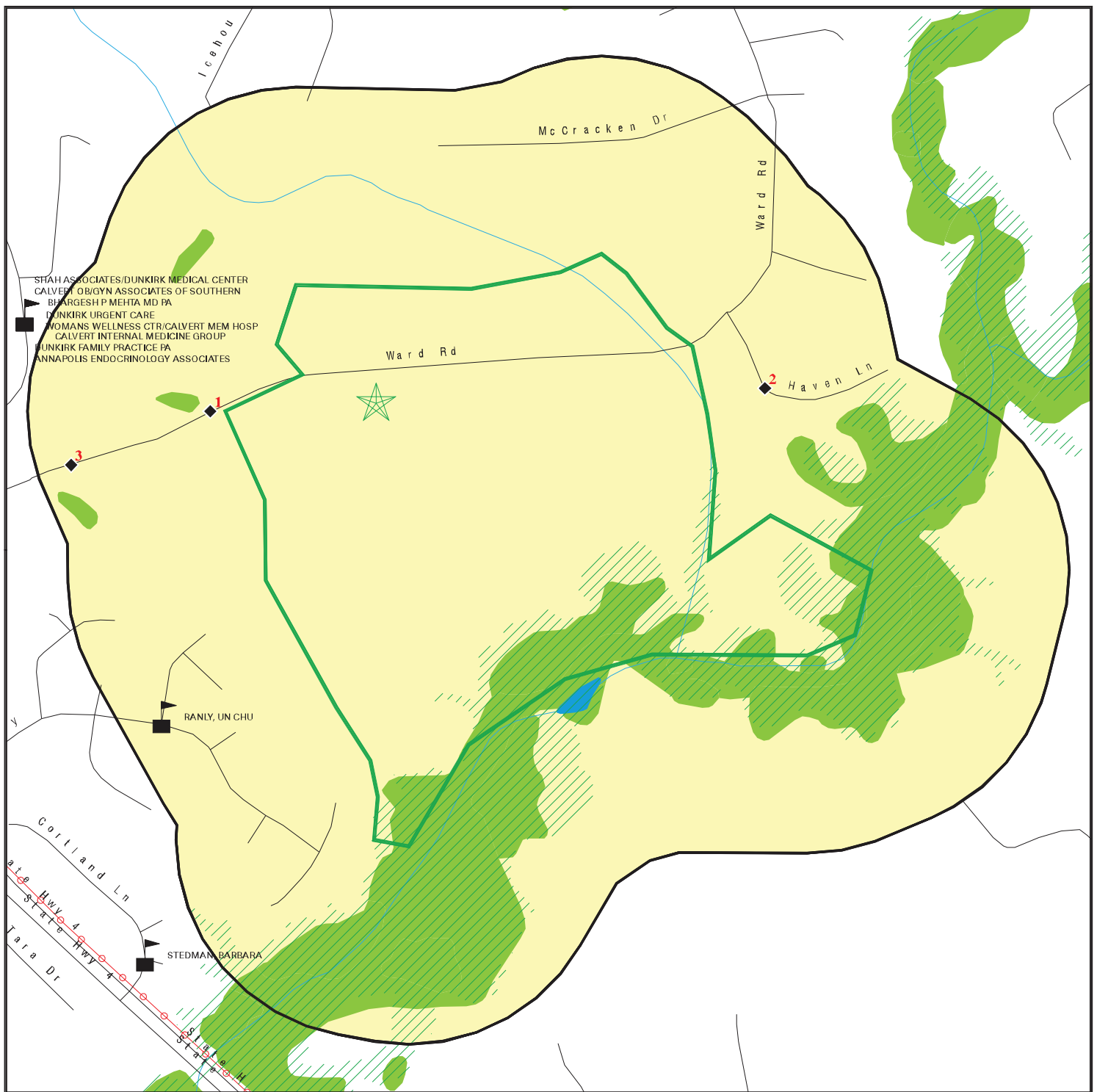
 National Wetland Inventory

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Ward Park
 ADDRESS: Ward Road
 Dunkirk MD 20754
 LAT/LONG: 38.7215 / 76.6477

CLIENT: Whitman, Requardt & Assoc, LLP
 CONTACT: Kevin T. Roberts
 INQUIRY #: 3900443.2s
 DATE: April 03, 2014 12:07 pm

DETAIL MAP - 3900443.2s



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites



- Indian Reservations BIA
- Power transmission lines
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

<p>SITE NAME: Ward Park ADDRESS: Ward Road Dunkirk MD 20754 LAT/LONG: 38.7215 / 76.6477</p>	<p>CLIENT: Whitman, Requardt & Assoc, LLP CONTACT: Kevin T. Roberts INQUIRY #: 3900443.2s DATE: April 03, 2014 12:09 pm</p>
---	--

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<u>STANDARD ENVIRONMENTAL RECORDS</u>								
<i>Federal NPL site list</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
CERCLIS	0.500		0	0	0	NR	NR	0
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
<i>Federal CERCLIS NFRAP site List</i>								
CERC-NFRAP	0.500		0	0	0	NR	NR	0
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
<i>Federal institutional controls / engineering controls registries</i>								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	TP		NR	NR	NR	NR	NR	0
<i>State- and tribal - equivalent CERCLIS</i>								
SHWS	1.000		0	0	0	0	NR	0
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF	0.500		0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
OCPCASES	0.500		1	1	0	NR	NR	2
HIST LUST	0.500		0	0	1	NR	NR	1
INDIAN LUST	0.500		0	0	0	NR	NR	0
<i>State and tribal registered storage tank lists</i>								
UST	0.250		1	0	NR	NR	NR	1

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
ENG CONTROLS	0.500		0	0	0	NR	NR	0
INST CONTROL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	NR	NR	NR	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
HIST UST	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UMTRA	0.500		0	0	0	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
LEAD	TP		NR	NR	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
LRP	0.500		0	0	0	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	0	0	NR	0
EDR US Hist Auto Stat	0.250		0	0	NR	NR	NR	0
EDR US Hist Cleaners	0.250		0	0	NR	NR	NR	0

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS	TP		NR	NR	NR	NR	NR	0
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

1	JACQUELYN EWING (RED HALL) RESIDENCE	UST	U003865606
West	10340 WARD ROAD	Financial Assurance	N/A
< 1/8	DUNKIRK, MD 20754		
0.019 mi.			
101 ft.			

Relative: UST:
Lower Facility Id: 14025
Oper Name: Not reported
Actual: Form Name: Jacquelyn R. Ewing
71 ft. Form Title: Not reported
Form Date: 12/13/2001
Owner Id: 8947

Owner:
Owner Name: Jacquelyn R. Ewing Trust
Owner Address: 10340 Ward Road
Owner City: Dunkirk
Owner State: MD
Owner Zip: 20754
Owner Phone: (202) 879-6301
Owner Contact: Perry Ives

Tanks:

Tank ID: 1
Tank Status: Permanently Out of Use
Tank Capacity: 1000
Substance Description: Gasoline
Tank Compartment: False
Compartment Compartment: A
Date Installed: 01/01/1972
Tank Material Desc: Asphalt Coated or Bare Steel
Pipe Material Desc: Bare or Galvanized Steel

Tank ID: 2
Tank Status: Permanently Out of Use
Tank Capacity: 550
Substance Description: Diesel
Tank Compartment: False
Compartment Compartment: A
Date Installed: 01/01/1972
Tank Material Desc: Asphalt Coated or Bare Steel
Pipe Material Desc: Bare or Galvanized Steel

MD Financial Assurance 2:
Region: 2
Facility ID: 14025
Self Insured: False
Insurance: False
Risk Retention Group: False
Guarantee: False
Surety Bonds: False
Letter of Credit: False
State Fund: False
Other Finance: False
Finacnce Comments: Not reported
FR Not Listed: False

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EPA ID Number
 EDR ID Number

2 **CHARLES EDWARDS RESIDENCE** **OCPCASES** **S110295094**
East **1960 HAVEN LANE** **N/A**
< 1/8 **DUNKIRK, MD 20754**

0.078 mi.
413 ft.

Relative: **OCP:**
Lower Facility ID: 10-0468CA
 Facility Status/Code: CLOSED/Aboveground Tank - Residential Heating Oil
Actual: Date Open: 03/05/2010
77 ft. Date Closed: 06/02/2010
 Release: YES
 Cleanup: YES
 Registration Number: Not reported

3 **LA FLEY, MARCELLA** **OCPCASES** **S104598394**
WSW **10221 WARD RD** **N/A**
1/8-1/4 **DUNKIRK, MD**

0.206 mi.
1088 ft.

Relative: **OCP:**
Lower Facility ID: 96-0742CA
 Facility Status/Code: CLOSED/Aboveground Tank Leak
Actual: Date Open: 10/23/1995
100 ft. Date Closed: 02/21/2001
 Release: YES
 Cleanup: YES
 Registration Number: Not reported

4 **DUNKIRK SUNOCO (BESCHE OIL SITE)** **HIST LUST** **S101638841**
SW **9850 SOUTHERN MD. BLVD.** **N/A**
1/4-1/2 **DUNKIRK, MD 20754**

0.495 mi.
2616 ft.

Relative: **Historical LUST:**
Lower Recover Type: Monitoring - No active remediation. Sampling of monitoring wells only
 County: CALVERT
Actual: Case Number: 93-0750CA
118 ft. **Open/Closed: OPEN**

Count: 9 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
DUNKIRK	U004108058	S/S #2-5880	ROUTE 260	20754	UST, Financial Assurance
DUNKIRK	S104633837	EXXON STATION #2-5880	ROUTE 260	20754	HIST UST
DUNKIRK	U003974274	DUNKIRK VILLAGE SHOPPING CENTER	RT. 4 & WARD ROAD	20754	UST, Financial Assurance
DUNKIRK	S104630689	DUNKIRK VILLA SHOPPING CTR.	RT 4 & WARD RD.	20754	HIST UST
DUNKIRK	U004108056	HELEN P. MARSELLAS T/A WARDS GROCE	FERRY LANDING ROAD (ROUTE 4)	20754	UST, Financial Assurance
DUNKIRK	U004065980	S/S#2-1068	10500 SOUTHERN MARYLAND BLVD.R	20754	UST, Financial Assurance
OWINGS	S104630691	DUNKIRK SUPPLY TRUSS PLANT	RT 260	20736	OCPCASES, HIST UST
OWINGS	U003974273	DUNKIRK SUPPLY TRUSS PLANT	RT.260	20736	UST, Financial Assurance
OWINGS	S104636866	WARD'S U.M. CHURCH	WARD'S CHAPEL RD.	20736	HIST UST

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

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

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: N/A
Date Made Active in Reports: 01/28/2014	Last EDR Contact: 01/21/2014
Number of Days to Update: 78	Next Scheduled EDR Contact: 04/21/2014
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

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

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: N/A
Date Made Active in Reports: 01/28/2014	Last EDR Contact: 01/09/2014
Number of Days to Update: 78	Next Scheduled EDR Contact: 04/21/2014
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

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

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

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

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: N/A
Date Made Active in Reports: 01/28/2014	Last EDR Contact: 01/09/2014
Number of Days to Update: 78	Next Scheduled EDR Contact: 04/21/2014
	Data Release Frequency: Quarterly

Federal CERCLIS list

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

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

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: 703-412-9810
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 02/28/2014
Number of Days to Update: 94	Next Scheduled EDR Contact: 06/09/2014
	Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

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

Date of Government Version: 05/31/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/08/2013	Telephone: 703-603-8704
Date Made Active in Reports: 12/06/2013	Last EDR Contact: 01/10/2014
Number of Days to Update: 151	Next Scheduled EDR Contact: 04/21/2014
	Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

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

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: 703-412-9810
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 02/28/2014
Number of Days to Update: 94	Next Scheduled EDR Contact: 06/09/2014
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/10/2013
Date Data Arrived at EDR: 10/02/2013
Date Made Active in Reports: 12/16/2013
Number of Days to Update: 75

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/13/2014
Next Scheduled EDR Contact: 07/14/2014
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

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

Date of Government Version: 09/10/2013
Date Data Arrived at EDR: 10/02/2013
Date Made Active in Reports: 12/16/2013
Number of Days to Update: 75

Source: Environmental Protection Agency
Telephone: 800-438-2474
Last EDR Contact: 03/13/2014
Next Scheduled EDR Contact: 07/14/2014
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

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

Date of Government Version: 09/10/2013
Date Data Arrived at EDR: 10/02/2013
Date Made Active in Reports: 12/16/2013
Number of Days to Update: 75

Source: Environmental Protection Agency
Telephone: 800-438-2474
Last EDR Contact: 03/13/2014
Next Scheduled EDR Contact: 07/14/2014
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

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

Date of Government Version: 09/10/2013
Date Data Arrived at EDR: 10/02/2013
Date Made Active in Reports: 12/16/2013
Number of Days to Update: 75

Source: Environmental Protection Agency
Telephone: 800-438-2474
Last EDR Contact: 03/13/2014
Next Scheduled EDR Contact: 07/14/2014
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

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

Date of Government Version: 09/10/2013
Date Data Arrived at EDR: 10/02/2013
Date Made Active in Reports: 12/16/2013
Number of Days to Update: 75

Source: Environmental Protection Agency
Telephone: 800-438-2474
Last EDR Contact: 03/13/2014
Next Scheduled EDR Contact: 07/14/2014
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

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

Date of Government Version: 12/17/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/14/2014	Telephone: 703-603-0695
Date Made Active in Reports: 01/28/2014	Last EDR Contact: 03/10/2014
Number of Days to Update: 14	Next Scheduled EDR Contact: 06/23/2014
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

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

Date of Government Version: 12/17/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/14/2014	Telephone: 703-603-0695
Date Made Active in Reports: 01/28/2014	Last EDR Contact: 03/10/2014
Number of Days to Update: 14	Next Scheduled EDR Contact: 06/23/2014
	Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 11/20/2013	Source: Department of the Navy
Date Data Arrived at EDR: 11/21/2013	Telephone: 843-820-7326
Date Made Active in Reports: 02/24/2014	Last EDR Contact: 02/14/2014
Number of Days to Update: 95	Next Scheduled EDR Contact: 06/02/2014
	Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

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

Date of Government Version: 09/30/2013	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 10/01/2013	Telephone: 202-267-2180
Date Made Active in Reports: 12/06/2013	Last EDR Contact: 02/07/2014
Number of Days to Update: 66	Next Scheduled EDR Contact: 04/14/2014
	Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Notice of Potential Hazardous Waste Sites

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: 10/01/2009	Source: Department of the Environment
Date Data Arrived at EDR: 12/11/2009	Telephone: 410-537-3000
Date Made Active in Reports: 12/14/2009	Last EDR Contact: 03/11/2014
Number of Days to Update: 3	Next Scheduled EDR Contact: 05/26/2014
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Permitted Solid Waste Disposal Facilities

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

Date of Government Version: 12/31/2013	Source: Department of the Environment
Date Data Arrived at EDR: 02/06/2014	Telephone: 410-537-3375
Date Made Active in Reports: 03/14/2014	Last EDR Contact: 11/04/2013
Number of Days to Update: 36	Next Scheduled EDR Contact: 02/17/2014
	Data Release Frequency: Annually

State and tribal leaking storage tank lists

OCPCASES: Oil Control Program Cases

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: 06/30/2013	Source: Department of Environment
Date Data Arrived at EDR: 07/12/2013	Telephone: 410-537-3433
Date Made Active in Reports: 08/26/2013	Last EDR Contact: 01/03/2014
Number of Days to Update: 45	Next Scheduled EDR Contact: 04/21/2014
	Data Release Frequency: Semi-Annually

HIST LUST: Recovery Sites

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: 03/01/1999	Source: Department of the Environment
Date Data Arrived at EDR: 03/22/1999	Telephone: 410-537-3433
Date Made Active in Reports: 04/16/1999	Last EDR Contact: 02/19/2001
Number of Days to Update: 25	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

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

Date of Government Version: 03/01/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2013	Telephone: 415-972-3372
Date Made Active in Reports: 04/12/2013	Last EDR Contact: 01/27/2014
Number of Days to Update: 42	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Quarterly

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

Date of Government Version: 08/27/2013	Source: EPA Region 7
Date Data Arrived at EDR: 08/27/2013	Telephone: 913-551-7003
Date Made Active in Reports: 11/01/2013	Last EDR Contact: 01/27/2014
Number of Days to Update: 66	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 11/06/2013	Source: EPA Region 10
Date Data Arrived at EDR: 11/07/2013	Telephone: 206-553-2857
Date Made Active in Reports: 12/06/2013	Last EDR Contact: 01/27/2014
Number of Days to Update: 29	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/27/2012	Source: EPA Region 8
Date Data Arrived at EDR: 08/28/2012	Telephone: 303-312-6271
Date Made Active in Reports: 10/16/2012	Last EDR Contact: 01/27/2014
Number of Days to Update: 49	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Quarterly

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 02/13/2014	Source: EPA, Region 5
Date Data Arrived at EDR: 02/14/2014	Telephone: 312-886-7439
Date Made Active in Reports: 02/24/2014	Last EDR Contact: 01/27/2014
Number of Days to Update: 10	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 02/01/2013	Source: EPA Region 1
Date Data Arrived at EDR: 05/01/2013	Telephone: 617-918-1313
Date Made Active in Reports: 11/01/2013	Last EDR Contact: 01/30/2014
Number of Days to Update: 184	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 11/21/2013	Source: EPA Region 4
Date Data Arrived at EDR: 11/26/2013	Telephone: 404-562-8677
Date Made Active in Reports: 02/24/2014	Last EDR Contact: 01/27/2014
Number of Days to Update: 90	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Semi-Annually

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/12/2011	Source: EPA Region 6
Date Data Arrived at EDR: 09/13/2011	Telephone: 214-665-6597
Date Made Active in Reports: 11/11/2011	Last EDR Contact: 02/21/2014
Number of Days to Update: 59	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Varies

State and tribal registered storage tank lists

UST: Registered Underground Storage Tank List

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: 06/30/2013	Source: Department of the Environment
Date Data Arrived at EDR: 07/12/2013	Telephone: 410-537-3433
Date Made Active in Reports: 08/26/2013	Last EDR Contact: 02/27/2014
Number of Days to Update: 45	Next Scheduled EDR Contact: 04/28/2014
	Data Release Frequency: Varies

AST: Permitted Aboveground Storage Tanks

Registered Aboveground Storage Tanks.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/23/2013
Date Data Arrived at EDR: 08/27/2013
Date Made Active in Reports: 10/01/2013
Number of Days to Update: 35

Source: Department of The Environment
Telephone: 410-537-3000
Last EDR Contact: 01/13/2014
Next Scheduled EDR Contact: 04/28/2014
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land

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

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 05/01/2013
Date Made Active in Reports: 01/27/2014
Number of Days to Update: 271

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/30/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

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

Date of Government Version: 11/21/2013
Date Data Arrived at EDR: 11/26/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 90

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 02/13/2014
Date Data Arrived at EDR: 02/14/2014
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 10

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

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

Date of Government Version: 01/29/2014
Date Data Arrived at EDR: 01/29/2014
Date Made Active in Reports: 03/12/2014
Number of Days to Update: 42

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land

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

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 02/28/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 43

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/29/2013 Source: EPA Region 8
Date Data Arrived at EDR: 08/01/2013 Telephone: 303-312-6137
Date Made Active in Reports: 11/01/2013 Last EDR Contact: 01/27/2014
Number of Days to Update: 92 Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 07/29/2013 Source: EPA Region 9
Date Data Arrived at EDR: 07/30/2013 Telephone: 415-972-3368
Date Made Active in Reports: 12/06/2013 Last EDR Contact: 01/27/2014
Number of Days to Update: 129 Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 02/05/2013 Source: EPA Region 10
Date Data Arrived at EDR: 02/06/2013 Telephone: 206-553-2857
Date Made Active in Reports: 04/12/2013 Last EDR Contact: 01/27/2014
Number of Days to Update: 65 Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Quarterly

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010 Source: FEMA
Date Data Arrived at EDR: 02/16/2010 Telephone: 202-646-5797
Date Made Active in Reports: 04/12/2010 Last EDR Contact: 01/13/2014
Number of Days to Update: 55 Next Scheduled EDR Contact: 04/28/2014
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

ENG CONTROLS: Engineering Controls Site listing

Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 11/10/2008 Source: Department of the Environment
Date Data Arrived at EDR: 11/21/2008 Telephone: 410-537-3422
Date Made Active in Reports: 12/17/2008 Last EDR Contact: 03/17/2014
Number of Days to Update: 26 Next Scheduled EDR Contact: 06/30/2014
Data Release Frequency: Varies

INST CONTROL: Voluntary Cleanup Program Applicants/Participants

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

Date of Government Version: 02/21/2013 Source: Department of the Environment
Date Data Arrived at EDR: 03/28/2013 Telephone: 410-537-3493
Date Made Active in Reports: 04/29/2013 Last EDR Contact: 03/21/2014
Number of Days to Update: 32 Next Scheduled EDR Contact: 06/30/2014
Data Release Frequency: Semi-Annually

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Program Applicants/Participants

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 03/28/2013
Date Made Active in Reports: 04/29/2013
Number of Days to Update: 32

Source: Dept. of the Environment
Telephone: 410-537-3000
Last EDR Contact: 03/21/2014
Next Scheduled EDR Contact: 06/30/2014
Data Release Frequency: Semi-Annually

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/17/2013
Date Data Arrived at EDR: 10/01/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 66

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 04/01/2014
Next Scheduled EDR Contact: 07/14/2014
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Eligible Brownfields Properties

The Site Assessment Section of the State Superfund Division is responsible for conducting federally funded assessments of eligible brownfields properties. These assessments are undertaken to determine whether there are environmental cleanup requirements at these sites.

Date of Government Version: 07/08/2013
Date Data Arrived at EDR: 09/11/2013
Date Made Active in Reports: 09/25/2013
Number of Days to Update: 14

Source: Department of Environment
Telephone: 410-537-3000
Last EDR Contact: 03/14/2014
Next Scheduled EDR Contact: 06/23/2014
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 09/24/2013
Date Data Arrived at EDR: 09/24/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/20/2014
Next Scheduled EDR Contact: 07/07/2014
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009	Source: EPA, Region 9
Date Data Arrived at EDR: 05/07/2009	Telephone: 415-947-4219
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 01/27/2014
Number of Days to Update: 137	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

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

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

SWRCY: Recycling Directory

A listing of recycling facilities.

Date of Government Version: 12/19/2013	Source: Department of the Environment
Date Data Arrived at EDR: 12/24/2013	Telephone: 410-631-3314
Date Made Active in Reports: 02/14/2014	Last EDR Contact: 03/24/2014
Number of Days to Update: 52	Next Scheduled EDR Contact: 07/07/2014
	Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 11/04/2013
Number of Days to Update: 52	Next Scheduled EDR Contact: 02/17/2014
	Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs

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

Date of Government Version: 12/04/2013	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 12/10/2013	Telephone: 202-307-1000
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 03/04/2014
Number of Days to Update: 65	Next Scheduled EDR Contact: 06/16/2014
	Data Release Frequency: Quarterly

US HIST CDL: National Clandestine Laboratory Register

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/04/2014
Next Scheduled EDR Contact: 06/16/2014
Data Release Frequency: No Update Planned

Local Lists of Registered Storage Tanks

Historical UST: Historical UST Registered Database

In 1997 the Department of the Environment sent out registration forms to all the owner's listed in the UST database. Once they got the registration forms back they entered the information into a new UST database. we call this database UST. Because not all owners returned their forms, we kept the old UST database and labeled it HIST UST so that we would not be missing any past UST records. This listing is no longer updated or maintained by the agency. It is current through November 1996.

Date of Government Version: 11/21/1996
Date Data Arrived at EDR: 09/10/1997
Date Made Active in Reports: 10/22/1997
Number of Days to Update: 42

Source: Department of Environment
Telephone: 410-537-3433
Last EDR Contact: 05/15/2000
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

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

Date of Government Version: 02/06/2013
Date Data Arrived at EDR: 04/25/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

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

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 01/03/2014
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 52

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 04/01/2014
Next Scheduled EDR Contact: 07/14/2014
Data Release Frequency: Annually

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 07/15/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/06/2013
Number of Days to Update: 62

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRA NonGen / NLR: RCRA - Non Generators

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

Date of Government Version: 09/10/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/02/2013	Telephone: 800-438-2474
Date Made Active in Reports: 12/16/2013	Last EDR Contact: 03/13/2014
Number of Days to Update: 75	Next Scheduled EDR Contact: 07/14/2014
	Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 08/07/2012	Telephone: 202-366-4595
Date Made Active in Reports: 09/18/2012	Last EDR Contact: 02/06/2014
Number of Days to Update: 42	Next Scheduled EDR Contact: 05/19/2014
	Data Release Frequency: Varies

DOD: Department of Defense Sites

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

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 01/15/2014
Number of Days to Update: 62	Next Scheduled EDR Contact: 04/28/2014
	Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

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

Date of Government Version: 12/31/2011	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 02/26/2013	Telephone: 202-528-4285
Date Made Active in Reports: 03/13/2013	Last EDR Contact: 03/10/2014
Number of Days to Update: 15	Next Scheduled EDR Contact: 06/23/2014
	Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

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

Date of Government Version: 12/31/2013	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 01/24/2014	Telephone: Varies
Date Made Active in Reports: 02/24/2014	Last EDR Contact: 03/27/2014
Number of Days to Update: 31	Next Scheduled EDR Contact: 07/14/2014
	Data Release Frequency: Varies

ROD: Records Of Decision

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

Date of Government Version: 11/25/2013	Source: EPA
Date Data Arrived at EDR: 12/12/2013	Telephone: 703-416-0223
Date Made Active in Reports: 02/24/2014	Last EDR Contact: 03/11/2014
Number of Days to Update: 74	Next Scheduled EDR Contact: 06/23/2014
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UMTRA: Uranium Mill Tailings Sites

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

Date of Government Version: 09/14/2010	Source: Department of Energy
Date Data Arrived at EDR: 10/07/2011	Telephone: 505-845-0011
Date Made Active in Reports: 03/01/2012	Last EDR Contact: 02/25/2014
Number of Days to Update: 146	Next Scheduled EDR Contact: 06/09/2014
	Data Release Frequency: Varies

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/01/2013	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 09/05/2013	Telephone: 303-231-5959
Date Made Active in Reports: 10/03/2013	Last EDR Contact: 03/05/2014
Number of Days to Update: 28	Next Scheduled EDR Contact: 06/16/2014
	Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

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

Date of Government Version: 12/31/2011	Source: EPA
Date Data Arrived at EDR: 07/31/2013	Telephone: 202-566-0250
Date Made Active in Reports: 09/13/2013	Last EDR Contact: 02/26/2014
Number of Days to Update: 44	Next Scheduled EDR Contact: 06/09/2014
	Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

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

Date of Government Version: 12/31/2006	Source: EPA
Date Data Arrived at EDR: 09/29/2010	Telephone: 202-260-5521
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 03/28/2014
Number of Days to Update: 64	Next Scheduled EDR Contact: 07/07/2014
	Data Release Frequency: Every 4 Years

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

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 02/24/2014
Number of Days to Update: 25	Next Scheduled EDR Contact: 06/09/2014
	Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 02/24/2014
Number of Days to Update: 25	Next Scheduled EDR Contact: 06/09/2014
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

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

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

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

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2008
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

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

Date of Government Version: 12/31/2009	Source: EPA
Date Data Arrived at EDR: 12/10/2010	Telephone: 202-564-4203
Date Made Active in Reports: 02/25/2011	Last EDR Contact: 01/28/2014
Number of Days to Update: 77	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

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

Date of Government Version: 07/20/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/10/2011	Telephone: 202-564-5088
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 10/09/2014
Number of Days to Update: 61	Next Scheduled EDR Contact: 04/28/2014
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 06/01/2013	Source: EPA
Date Data Arrived at EDR: 07/17/2013	Telephone: 202-566-0500
Date Made Active in Reports: 11/01/2013	Last EDR Contact: 01/28/2014
Number of Days to Update: 107	Next Scheduled EDR Contact: 04/28/2014
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

MLTS: Material Licensing Tracking System

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

Date of Government Version: 07/22/2013	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 08/02/2013	Telephone: 301-415-7169
Date Made Active in Reports: 11/01/2013	Last EDR Contact: 03/10/2014
Number of Days to Update: 91	Next Scheduled EDR Contact: 06/23/2014
	Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

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

Date of Government Version: 01/09/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/10/2014	Telephone: 202-343-9775
Date Made Active in Reports: 03/12/2014	Last EDR Contact: 01/10/2014
Number of Days to Update: 61	Next Scheduled EDR Contact: 04/21/2014
	Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

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

Date of Government Version: 11/18/2013	Source: EPA
Date Data Arrived at EDR: 02/27/2014	Telephone: (215) 814-5000
Date Made Active in Reports: 03/12/2014	Last EDR Contact: 03/14/2014
Number of Days to Update: 13	Next Scheduled EDR Contact: 06/23/2014
	Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

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

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

RMP: Risk Management Plans

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 11/01/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/12/2013	Telephone: 202-564-8600
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 01/27/2014
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Varies

BRS: Biennial Reporting System

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

Date of Government Version: 12/31/2011	Source: EPA/NTIS
Date Data Arrived at EDR: 02/26/2013	Telephone: 800-424-9346
Date Made Active in Reports: 04/19/2013	Last EDR Contact: 02/28/2014
Number of Days to Update: 52	Next Scheduled EDR Contact: 06/09/2014
	Data Release Frequency: Biennially

UIC: Underground Injection Wells Database

A listing of underground injection well locations. The UIC Program is responsible for regulating the construction, operation, permitting, and closure of injection wells that place fluids underground for storage or disposal.

Date of Government Version: 06/14/2013	Source: Department of the Environment
Date Data Arrived at EDR: 07/30/2013	Telephone: 410-537-3507
Date Made Active in Reports: 08/27/2013	Last EDR Contact: 02/10/2014
Number of Days to Update: 28	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Varies

DRYCLEANERS: Registered Drycleaning Facilities

A listing of registered drycleaning facilities.

Date of Government Version: 10/10/2013	Source: Department of the Environmental
Date Data Arrived at EDR: 10/15/2013	Telephone: 410-537-3220
Date Made Active in Reports: 11/21/2013	Last EDR Contact: 01/13/2014
Number of Days to Update: 37	Next Scheduled EDR Contact: 04/28/2014
	Data Release Frequency: Varies

NPDES: Wastewater Permit Listing

A listing of wastewater permit locations.

Date of Government Version: 10/31/2013	Source: Department of the Environment
Date Data Arrived at EDR: 12/11/2013	Telephone: 410-537-3507
Date Made Active in Reports: 12/18/2013	Last EDR Contact: 03/11/2014
Number of Days to Update: 7	Next Scheduled EDR Contact: 06/23/2014
	Data Release Frequency: Varies

AIRS: Permit and Facility Information Listing

A listing of permitted facilities and emissions information.

Date of Government Version: 12/31/2012	Source: Department of the Environment
Date Data Arrived at EDR: 12/05/2013	Telephone: 410-537-3220
Date Made Active in Reports: 01/08/2014	Last EDR Contact: 01/13/2014
Number of Days to Update: 34	Next Scheduled EDR Contact: 04/28/2014
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LEAD: Lead Inspection Database

The Childhood Lead Poisoning Prevention Program data of lead inspection for the state.

Date of Government Version: 01/13/2014	Source: Department of Environment, Lead Poisoning Prevention Program
Date Data Arrived at EDR: 01/14/2014	Telephone: 410-537-3000
Date Made Active in Reports: 02/14/2014	Last EDR Contact: 03/27/2014
Number of Days to Update: 31	Next Scheduled EDR Contact: 07/14/2014
	Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 12/08/2006	Telephone: 202-208-3710
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 01/15/2014
Number of Days to Update: 34	Next Scheduled EDR Contact: 04/28/2014
	Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

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

Date of Government Version: 03/07/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/09/2011	Telephone: 615-532-8599
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 01/20/2014
Number of Days to Update: 54	Next Scheduled EDR Contact: 05/05/2014
	Data Release Frequency: Varies

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 11/11/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/18/2012	Telephone: 703-308-4044
Date Made Active in Reports: 05/25/2012	Last EDR Contact: 02/14/2014
Number of Days to Update: 7	Next Scheduled EDR Contact: 05/26/2014
	Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001	Source: American Journal of Public Health
Date Data Arrived at EDR: 10/27/2010	Telephone: 703-305-6451
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 12/02/2009
Number of Days to Update: 36	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 01/29/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/14/2013	Telephone: 703-603-8787
Date Made Active in Reports: 02/27/2013	Last EDR Contact: 01/03/2014
Number of Days to Update: 13	Next Scheduled EDR Contact: 04/21/2014
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information.

Date of Government Version: 05/01/2013	Source: Department of the Environment
Date Data Arrived at EDR: 05/22/2013	Telephone: 410-537-3345
Date Made Active in Reports: 06/27/2013	Last EDR Contact: 11/04/2013
Number of Days to Update: 36	Next Scheduled EDR Contact: 02/17/2014
	Data Release Frequency: Varies

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 06/30/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/13/2013	Telephone: 617-520-3000
Date Made Active in Reports: 09/13/2013	Last EDR Contact: 02/10/2014
Number of Days to Update: 31	Next Scheduled EDR Contact: 05/26/2014
	Data Release Frequency: Quarterly

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for storage tank sites.

Date of Government Version: 06/30/2013	Source: Department of the Environment
Date Data Arrived at EDR: 07/12/2013	Telephone: 410-537-3461
Date Made Active in Reports: 08/26/2013	Last EDR Contact: 02/27/2014
Number of Days to Update: 45	Next Scheduled EDR Contact: 04/28/2014
	Data Release Frequency: Quarterly

PCB TRANSFORMER: PCB Transformer Registration Database

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

Date of Government Version: 02/01/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/19/2011	Telephone: 202-566-0517
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 01/30/2014
Number of Days to Update: 83	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

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

Date of Government Version: 08/17/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/03/2011	Telephone: N/A
Date Made Active in Reports: 03/21/2011	Last EDR Contact: 03/11/2014
Number of Days to Update: 77	Next Scheduled EDR Contact: 06/23/2014
	Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 11/20/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2013	Telephone: 202-566-1917
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 02/14/2014
Number of Days to Update: 72	Next Scheduled EDR Contact: 06/02/2014
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH DOE: Sleam-Electric Plan Operation Data

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

Date of Government Version: 12/31/2005	Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009	Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 01/13/2014
Number of Days to Update: 76	Next Scheduled EDR Contact: 04/28/2014
	Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Site Listing

Coal combustion byproduct site locations.

Date of Government Version: 08/13/2010	Source: Department of the Environment
Date Data Arrived at EDR: 01/05/2011	Telephone: 410-537-3507
Date Made Active in Reports: 01/31/2011	Last EDR Contact: 03/28/2014
Number of Days to Update: 26	Next Scheduled EDR Contact: 07/07/2014
	Data Release Frequency: Varies

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 04/15/2013	Source: EPA
Date Data Arrived at EDR: 07/03/2013	Telephone: 202-564-6023
Date Made Active in Reports: 09/13/2013	Last EDR Contact: 01/02/2014
Number of Days to Update: 72	Next Scheduled EDR Contact: 04/14/2014
	Data Release Frequency: Quarterly

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005	Source: U.S. Geological Survey
Date Data Arrived at EDR: 02/06/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 01/15/2014
Number of Days to Update: 339	Next Scheduled EDR Contact: 04/28/2014
	Data Release Frequency: N/A

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/23/2013	Source: EPA
Date Data Arrived at EDR: 11/06/2013	Telephone: 202-564-5962
Date Made Active in Reports: 12/06/2013	Last EDR Contact: 03/31/2014
Number of Days to Update: 30	Next Scheduled EDR Contact: 07/14/2014
	Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/23/2013	Source: EPA
Date Data Arrived at EDR: 11/06/2013	Telephone: 202-564-5962
Date Made Active in Reports: 12/06/2013	Last EDR Contact: 03/31/2014
Number of Days to Update: 30	Next Scheduled EDR Contact: 07/14/2014
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LRP: Land Restoration Program

A listing of Land Restoration Program sites. Site types included in the database are: Voluntary Cleanup Program, National Priority List, Brownfields, Site Assessment, Formerly Used Defense Site, State Master List, Non Master List, Groundwater Investigation and Federal Facility.

Date of Government Version: 07/08/2013	Source: Department of the Environment
Date Data Arrived at EDR: 09/11/2013	Telephone: 410-537-3000
Date Made Active in Reports: 09/25/2013	Last EDR Contact: 03/14/2014
Number of Days to Update: 14	Next Scheduled EDR Contact: 06/23/2014
	Data Release Frequency: Quarterly

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR US Hist Auto Stat: EDR Proprietary Historic Gas Stations - Cole

Date of Government Version: N/A	Source: N/A
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Proprietary Historic Dry Cleaners - Cole

Date of Government Version: N/A	Source: N/A
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of the Environment in Maryland from 1995-1999..

Date of Government Version: N/A	Source: Department of the Environment
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/03/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 186	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of the Environment in Maryland.

Date of Government Version: N/A	Source: Department of the Environment
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/03/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 186	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of the Environment in Maryland.

Date of Government Version: N/A	Source: Department of the Environment
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/16/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 199	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

OTHER DATABASE(S)

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/21/2014
Next Scheduled EDR Contact: 06/02/2014
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 08/28/2012
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/17/2014
Next Scheduled EDR Contact: 04/28/2014
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 02/07/2014
Date Made Active in Reports: 03/31/2014
Number of Days to Update: 52

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 03/12/2014
Next Scheduled EDR Contact: 05/19/2014
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 07/24/2013
Date Made Active in Reports: 08/19/2013
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/20/2014
Next Scheduled EDR Contact: 05/05/2014
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 06/21/2013
Date Made Active in Reports: 08/05/2013
Number of Days to Update: 45

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/24/2014
Next Scheduled EDR Contact: 06/09/2014
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 08/09/2013
Date Made Active in Reports: 09/27/2013
Number of Days to Update: 49

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/17/2014
Next Scheduled EDR Contact: 06/30/2014
Data Release Frequency: Annually

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

Electric Power Transmission Line Data

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

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

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

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

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Care 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 2003 & 2011 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, 2005 and 2010 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK® - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

WARD PARK
WARD ROAD
DUNKIRK, MD 20754

TARGET PROPERTY COORDINATES

Latitude (North):	38.7215 - 38° 43' 17.40"
Longitude (West):	76.6477 - 76° 38' 51.72"
Universal Transverse Mercator:	Zone 18
UTM X (Meters):	356757.2
UTM Y (Meters):	4286953.0
Elevation:	129 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	38076-F6 LOWER MARLBORO, MD
Most Recent Revision:	1979

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

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

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

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

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

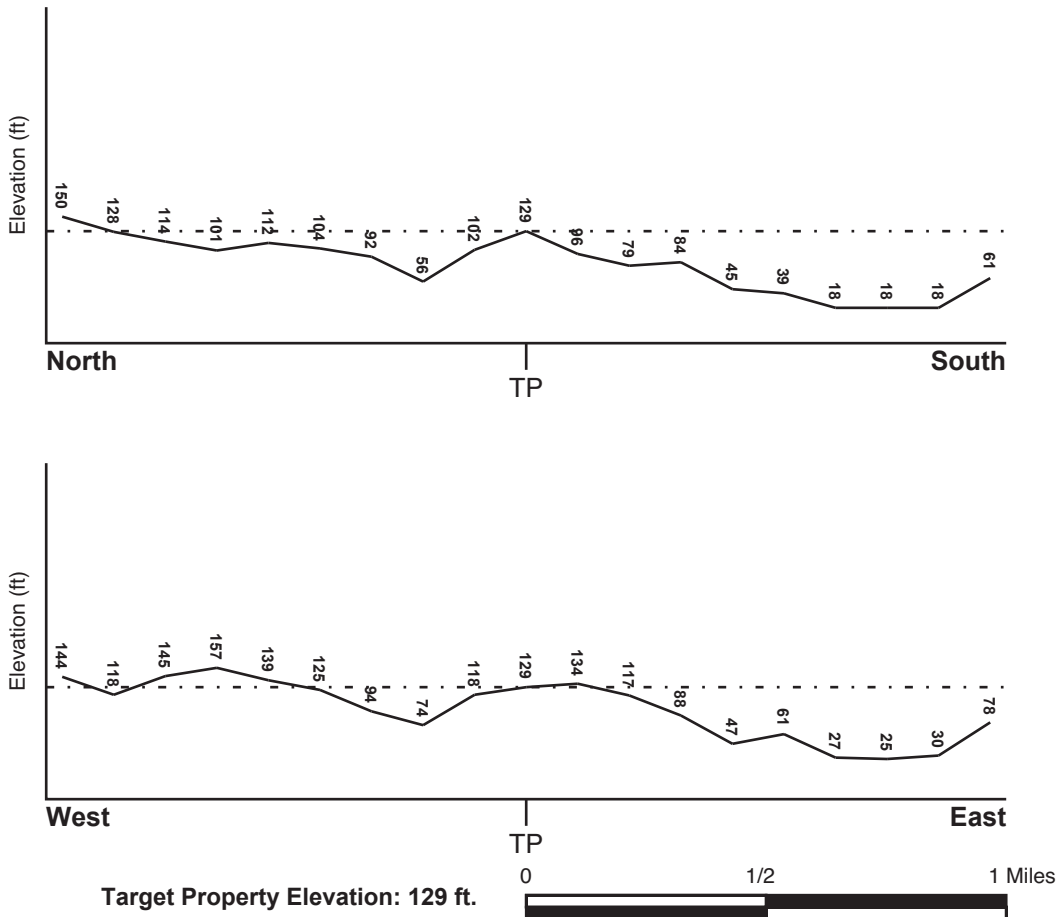
TOPOGRAPHIC INFORMATION

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

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NW

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> CALVERT, MD	<u>FEMA Flood Electronic Data</u> YES - refer to the Overview Map and Detail Map
Flood Plain Panel at Target Property:	2400110002B - FEMA Q3 Flood data
Additional Panels in search area:	2400110003B - FEMA Q3 Flood data

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u> LOWER MARLBORO	<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: Cenozoic
System: Tertiary
Series: Miocene
Code: Tm (decoded above as Era, System & Series)

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: WESTPHALIA
Soil Surface Texture: fine sandy loam
Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
Soil Drainage Class: Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.
Hydric Status: Soil does not meet the requirements for a hydric soil.
Corrosion Potential - Uncoated Steel: 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	10 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 5.50 Min: 3.60
2	10 inches	28 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 2.00 Min: 0.60	Max: 5.50 Min: 3.60
3	28 inches	72 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 6.00 Min: 0.60	Max: 5.50 Min: 3.60

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: sandy loam
silt loam
mucky-peat

Surficial Soil Types: sandy loam
silt loam
mucky-peat

Shallow Soil Types: No Other Soil Types

Deeper Soil Types: fine sandy loam
stratified
sandy loam
silt loam

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

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

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
D28	USGS40000431358	1/2 - 1 Mile West
C29	USGS40000431379	1/2 - 1 Mile WNW
D31	USGS40000431356	1/2 - 1 Mile West
35	USGS40000431388	1/2 - 1 Mile NE
37	USGS40000431347	1/2 - 1 Mile West
H39	USGS40000431365	1/2 - 1 Mile WNW
L45	USGS40000431302	1/2 - 1 Mile SW
P58	USGS40000431374	1/2 - 1 Mile WNW
P59	USGS40000431373	1/2 - 1 Mile WNW
T92	USGS40000431403	1/2 - 1 Mile North
T103	USGS40000431405	1/2 - 1 Mile North

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
D21	MD1041028	1/2 - 1 Mile West

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>
1	MD6000000463821	1/4 - 1/2 Mile WNW
A2	MD6000000529169	1/4 - 1/2 Mile East
A3	MD6000000492177	1/4 - 1/2 Mile East
4	MD6000000090039	1/2 - 1 Mile ESE
B5	MD6000000091261	1/2 - 1 Mile ENE
B6	MD6000000090665	1/2 - 1 Mile ENE
B7	MD6000000089897	1/2 - 1 Mile ENE
B8	MD6000000092663	1/2 - 1 Mile ENE
B9	MD6000000419077	1/2 - 1 Mile ENE
B10	MD6000000415533	1/2 - 1 Mile ENE
B11	MD6000000096586	1/2 - 1 Mile ENE
C12	MD6000000342733	1/2 - 1 Mile WNW
13	MD6000000469406	1/2 - 1 Mile SW
D14	MD6000000091526	1/2 - 1 Mile West
E15	MD6000000324196	1/2 - 1 Mile West

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

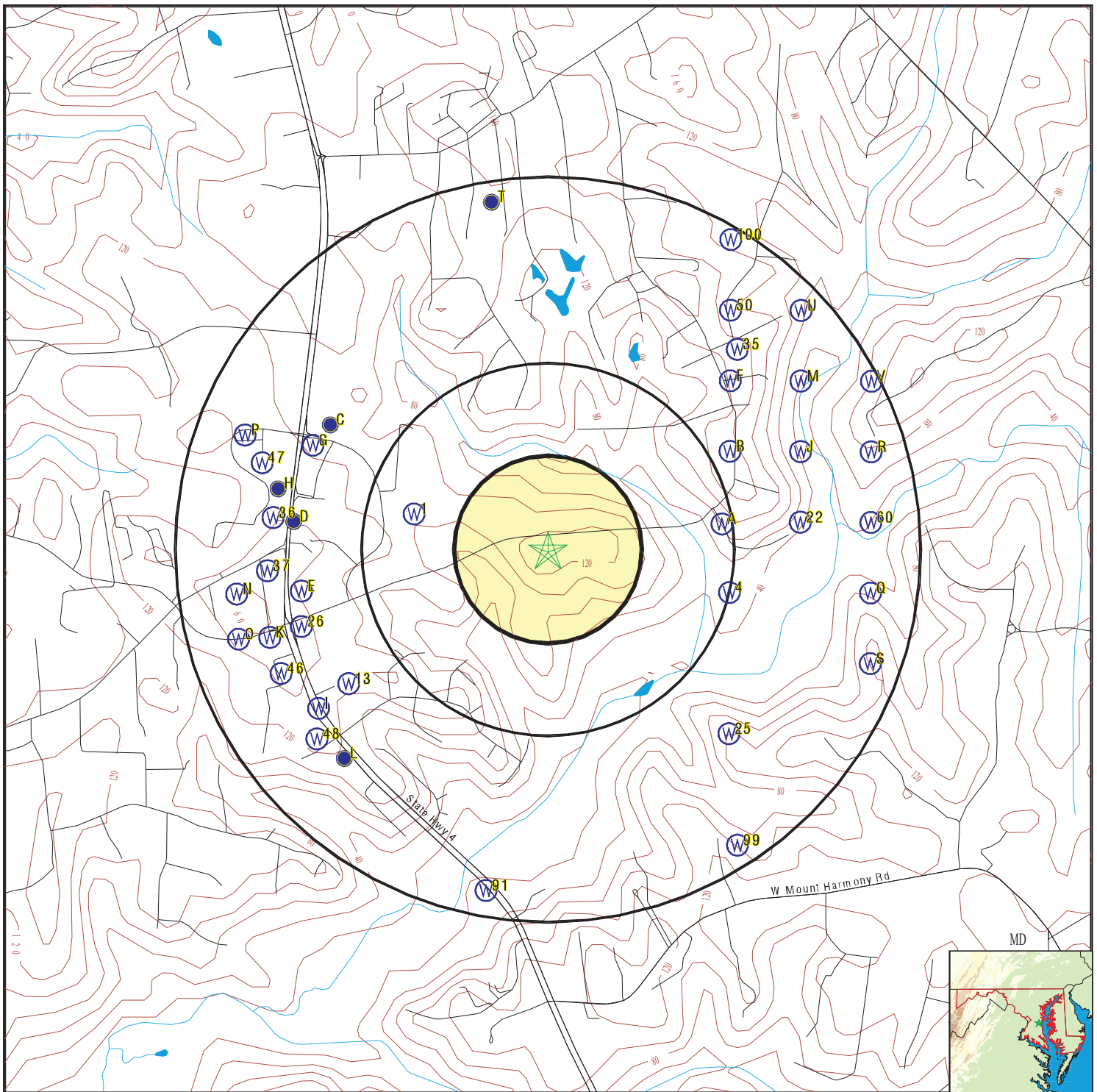
MAP ID	WELL ID	LOCATION FROM TP
E16	MD6000000094770	1/2 - 1 Mile WSW
F17	MD6000000089853	1/2 - 1 Mile NE
F18	MD6000000415294	1/2 - 1 Mile NE
F19	MD6000000490038	1/2 - 1 Mile NE
E20	MD6000000086818	1/2 - 1 Mile WSW
22	MD6000000489478	1/2 - 1 Mile East
G23	MD6000000349119	1/2 - 1 Mile WNW
E24	MD6000000092887	1/2 - 1 Mile West
25	MD6000000094222	1/2 - 1 Mile SE
26	MD6000000415417	1/2 - 1 Mile WSW
G27	MD6000000356407	1/2 - 1 Mile WNW
H30	MD6000000094883	1/2 - 1 Mile WNW
I32	MD6000000091474	1/2 - 1 Mile SW
J33	MD6000000089896	1/2 - 1 Mile ENE
J34	MD6000000418734	1/2 - 1 Mile ENE
36	MD6000000415590	1/2 - 1 Mile West
K38	MD6000000455180	1/2 - 1 Mile WSW
K40	MD6000000420217	1/2 - 1 Mile WSW
I41	MD6000000348290	1/2 - 1 Mile WSW
L42	MD6000000356070	1/2 - 1 Mile SW
K43	MD6000000478763	1/2 - 1 Mile WSW
K44	MD6000000479203	1/2 - 1 Mile WSW
46	MD6000000088907	1/2 - 1 Mile WSW
47	MD6000000089121	1/2 - 1 Mile WNW
48	MD6000000094874	1/2 - 1 Mile SW
K49	MD6000000463865	1/2 - 1 Mile WSW
50	MD6000000090801	1/2 - 1 Mile NE
M51	MD6000000091692	1/2 - 1 Mile ENE
M52	MD6000000092867	1/2 - 1 Mile ENE
N53	MD6000000095595	1/2 - 1 Mile West
N54	MD6000000091443	1/2 - 1 Mile West
N55	MD6000000093103	1/2 - 1 Mile West
O56	MD6000000343851	1/2 - 1 Mile WSW
O57	MD6000000392573	1/2 - 1 Mile WSW
60	MD6000000420037	1/2 - 1 Mile East
Q61	MD6000000416263	1/2 - 1 Mile East
Q62	MD6000000096569	1/2 - 1 Mile East
Q63	MD6000000490118	1/2 - 1 Mile East
Q64	MD6000000512790	1/2 - 1 Mile East
Q65	MD6000000502600	1/2 - 1 Mile East
R66	MD6000000087826	1/2 - 1 Mile ENE
R67	MD6000000087802	1/2 - 1 Mile ENE
R68	MD6000000087940	1/2 - 1 Mile ENE
R69	MD6000000087833	1/2 - 1 Mile ENE
R70	MD6000000087443	1/2 - 1 Mile ENE
R71	MD6000000087225	1/2 - 1 Mile ENE
R72	MD6000000087136	1/2 - 1 Mile ENE
R73	MD6000000087365	1/2 - 1 Mile ENE
R74	MD6000000087247	1/2 - 1 Mile ENE
R75	MD6000000088015	1/2 - 1 Mile ENE
R76	MD6000000089063	1/2 - 1 Mile ENE
R77	MD6000000088962	1/2 - 1 Mile ENE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
R78	MD600000089222	1/2 - 1 Mile ENE
R79	MD600000089179	1/2 - 1 Mile ENE
R80	MD600000088770	1/2 - 1 Mile ENE
R81	MD600000088409	1/2 - 1 Mile ENE
R82	MD600000088068	1/2 - 1 Mile ENE
R83	MD600000088669	1/2 - 1 Mile ENE
R84	MD600000088465	1/2 - 1 Mile ENE
R85	MD600000019954	1/2 - 1 Mile ENE
R86	MD600000087048	1/2 - 1 Mile ENE
S87	MD6000000355867	1/2 - 1 Mile ESE
S88	MD6000000497100	1/2 - 1 Mile ESE
S89	MD6000000501223	1/2 - 1 Mile ESE
T90	MD600000085883	1/2 - 1 Mile North
91	MD600000088783	1/2 - 1 Mile South
U93	MD6000000349095	1/2 - 1 Mile NE
U94	MD6000000095748	1/2 - 1 Mile NE
U95	MD6000000349121	1/2 - 1 Mile NE
U96	MD6000000416192	1/2 - 1 Mile NE
U97	MD6000000416072	1/2 - 1 Mile NE
T98	MD600000086925	1/2 - 1 Mile North
99	MD6000000335222	1/2 - 1 Mile SSE
100	MD6000000090844	1/2 - 1 Mile NNE
V101	MD6000000392562	1/2 - 1 Mile ENE
V102	MD6000000392998	1/2 - 1 Mile ENE

PHYSICAL SETTING SOURCE MAP - 3900443.2s



- County Boundary
- Major Roads
- Contour Lines
- 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

<p>SITE NAME: Ward Park ADDRESS: Ward Road Dunkirk MD 20754 LAT/LONG: 38.7215 / 76.6477</p>	<p>CLIENT: Whitman, Requardt & Assoc, LLP CONTACT: Kevin T. Roberts INQUIRY #: 3900443.2s DATE: April 03, 2014 12:09 pm</p>
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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

1
WNW
1/4 - 1/2 Mile
Lower

MD WELLS MD6000000463821

Objectid:	463820	County let:	CA
Permit:	CA944579	Mgs id:	Not Reported
B1 seq:	4551	B1 recd:	28-MAY-03
City:	CROFTON	State:	MD
Zip:	20114	Driller na:	DAVID B HARTMAN
Driller id:	MWD 517	Est gpm pr:	0
Use for wa:	T		
Approx dep:	6.0E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	CA2002G010	Subdivisio:	Not Reported
Section :	Not Reported	Lot:	Not Reported
Nearest to:	DUNKIRK	Town dista:	Not Reported
Road name:	10300 WARD RD	Road side:	E
Road dista:	525 FT	Tax map:	6
Block:	Not Reported	Parcel:	3
N grid27:	324096.00	E grid27:	898528.00
N grid83:	117301.00	E grid83:	430058.00
Lat dec de:	38.72	Lon dec de:	76.65
Issue date:	28-MAY-03	Special fl:	Not Reported
C1 seq:	4327	C1 recd:	07-JUL-03
Completion:	20-JUN-03	Total dept:	5.2E+002
Num unsucc:	0	Hydrofract:	N
Grouted:	Y	Grout type:	CM
Grout top:	0	Grout bott:	4.1E+002
Casing typ:	ST	Casing dia:	6.0E+000
Casing dep:	4.8E+002	Casing hei:	+2
Screen typ:	ST	Top screen:	4.8E+002
Bottom scr:	5.0E+002	Screen t 1:	ST
Top scre 1:	5.05E+002	Bottom s 1:	5.15E+002
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	6.0E+000
Flowing we:	Not Reported	Telescopin:	Not Reported
Log type:	Not Reported	Hrs pumped:	2.4E+001
Pumping ra:	2.0E+002	Level befo:	1.13E+002
Level duri:	1.93E+002	Test pump :	S
Pump insta:	N	Install pu:	S
Capacity:	0	Pump hp:	0
Column len:	0	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

A2
East
1/4 - 1/2 Mile
Lower

MD WELLS MD6000000529169

Objectid:	529168	County let:	Not Reported
Permit:	CA951796	Mgs id:	Not Reported
B1 seq:	4400	B1 recd:	14-DEC-11
City:	DUNKIRK	State:	MD
Zip:	20754	Driller na:	MICHAEL K GRIBBLE
Driller id:	MWD 318	Est gpm pr:	8.0E+000
Use for wa:	DW		
Approx dep:	3.5E+002	Drill meth:	ROTARY
Replacemen:	Y	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	DUNKIRK FIELDS

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Section :	Not Reported	Lot:	17
Nearest to:	DUNKIRK	Town dista:	Not Reported
Road name:	1970 HAVEN LANE	Road side:	S
Road dista:	100 FT	Tax map:	6
Block:	Not Reported	Parcel:	228
N grid27:	323941.00	E grid27:	902780.00
N grid83:	117254.00	E grid83:	431354.00
Lat dec de:	38.72	Lon dec de:	76.64
Issue date:	15-DEC-11	Special fl:	Y
C1 seq:	4531	C1 recd:	07-FEB-12
Completion:	20-DEC-11	Total dept:	2.8E+002
Num unsucc:	0	Hydrofract:	N
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	6.3E+001
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	2.6E+002	Casing hei:	+1
Screen typ:	PL	Top screen:	2.66E+002
Bottom scr:	2.8E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	Not Reported
Log type:	Not Reported	Hrs pumped:	2.0E+000
Pumping ra:	2.5E+001	Level befo:	1.3E+002
Level duri:	2.2E+002	Test pump :	A
Pump insta:	Y	Install pu:	S
Capacity:	7.0E+000	Pump hp:	7.5E-001
Column len:	2.1E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

**A3
East
1/4 - 1/2 Mile
Lower**

MD WELLS MD6000000492177

Objectid:	492176	County let:	CA
Permit:	CA945601	Mgs id:	Not Reported
B1 seq:	0456	B1 recd:	11-MAY-05
City:	DUNKIRK	State:	MD
Zip:	20754	Driller na:	BRIAN KLOBY
Driller id:	MWD 456	Est gpm pr:	1.0E+001
Use for wa:	DW		
Approx dep:	3.2E+002	Drill meth:	ROTARY
Replacemen:	Y	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	DUNKIRK FIELDS
Section :	2	Lot:	5
Nearest to:	DUNKIRK	Town dista:	4
Road name:	1910 MANNING CIRCLE	Road side:	S
Road dista:	80 FT	Tax map:	3
Block:	23	Parcel:	267
N grid27:	324000.00	E grid27:	903000.00
N grid83:	117272.00	E grid83:	431421.00
Lat dec de:	38.72	Lon dec de:	76.64
Issue date:	11-MAY-05	Special fl:	Not Reported
C1 seq:	8838	C1 recd:	25-JAN-06

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Completion:	12-MAY-05	Total dept:	3.28E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	2.8E+002
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	3.18E+002	Casing hei:	+1
Screen typ:	PL	Top screen:	3.18E+002
Bottom scr:	3.28E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	4.0E+000
Flowing we:	Not Reported	Telescopin:	Not Reported
Log type:	Not Reported	Hrs pumped:	2.0E+000
Pumping ra:	4.5E+001	Level befo:	1.38E+002
Level duri:	1.65E+002	Test pump :	A
Pump insta:	Y	Install pu:	S
Capacity:	1.0E+001	Pump hp:	7.5E-001
Column len:	2.0E+002	Closed:	A
Abandoned:	Not Reported	Abandon da:	Not Reported

4
ESE
1/2 - 1 Mile
Lower

MD WELLS MD6000000090039

Objectid:	90038	County let:	CA
Permit:	CA734272	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	11-DEC-81
City:	DUNKIRK	State:	MD
Zip:	20754	Driller na:	GRIBBLE, JOSEPH H.
Driller id:	MWD0317	Est gpm pr:	8.0E+000
Use for wa:	DW		
Approx dep:	3.5E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	DUNKIRK FIELDS
Section :	Not Reported	Lot:	3
Nearest to:	DUNKIRK	Town dista:	1.3 MI
Road name:	HAVEN LA	Road side:	E
Road dista:	40 FT	Tax map:	Not Reported
Block:	Not Reported	Parcel:	Not Reported
N grid27:	323000.00	E grid27:	903000.00
N grid83:	116967.00	E grid83:	431421.00
Lat dec de:	38.72	Lon dec de:	76.64
Issue date:	04-DEC-81	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	22-FEB-82
Completion:	23-DEC-81	Total dept:	3.05E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	CM
Grout top:	0	Grout bott:	1.5E+001
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	2.58E+002	Casing hei:	+01
Screen typ:	PL	Top screen:	2.9E+002
Bottom scr:	3.05E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	1.0E+000
Pumping ra:	2.0E+001	Level befo:	1.05E+002
Level duri:	1.3E+002	Test pump :	A
Pump insta:	Not Reported	Install pu:	S
Capacity:	8.0E+000	Pump hp:	5.0E-001
Column len:	1.6E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

B5
ENE
1/2 - 1 Mile
Higher

MD WELLS MD6000000091261

Objectid:	91260	County let:	CA
Permit:	CA811246	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	11-DEC-84
City:	DUNKIRK	State:	MD
Zip:	20754	Driller na:	GRIBBLE, MICHAEL K.
Driller id:	MWD0318	Est gpm pr:	8.0E+000
Use for wa:	DW		
Approx dep:	3.5E+002	Drill meth:	ROTARY
Replacemen:	Y	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	Not Reported
Section :	Not Reported	Lot:	Not Reported
Nearest to:	DUNKIRK	Town dista:	1.3 MI
Road name:	WARD RD	Road side:	E
Road dista:	70 FT	Tax map:	Not Reported
Block:	Not Reported	Parcel:	Not Reported
N grid27:	325000.00	E grid27:	903000.00
N grid83:	117577.00	E grid83:	431421.00
Lat dec de:	38.73	Lon dec de:	76.64
Issue date:	15-NOV-84	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	07-DEC-84
Completion:	21-NOV-84	Total dept:	2.55E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	CM
Grout top:	0	Grout bott:	5.0E+001
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	2.0E+002	Casing hei:	+01
Screen typ:	PL	Top screen:	2.45E+002
Bottom scr:	2.55E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	1.0E+000
Pumping ra:	3.0E+001	Level befo:	7.5E+001
Level duri:	1.6E+002	Test pump :	A
Pump insta:	Not Reported	Install pu:	S
Capacity:	3.0E+001	Pump hp:	5.0E-001
Column len:	1.35E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

B6
ENE
1/2 - 1 Mile
Higher

MD WELLS MD600000090665

Objectid:	90664	County let:	CA
Permit:	CA810521	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	30-AUG-83
City:	HARWOOD	State:	MD
Zip:	20776	Driller na:	GRIBBLE, MICHAEL K.
Driller id:	MWD0318	Est gpm pr:	8.0E+000
Use for wa:	DW		
Approx dep:	3.5E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	DUNKIRK WOODS
Section :	Not Reported	Lot:	30B
Nearest to:	DUNKIRK	Town dista:	1.2 MI
Road name:	WARD RD	Road side:	S
Road dista:	100 FT	Tax map:	Not Reported
Block:	Not Reported	Parcel:	Not Reported
N grid27:	325000.00	E grid27:	903000.00
N grid83:	117577.00	E grid83:	431421.00
Lat dec de:	38.73	Lon dec de:	76.64
Issue date:	23-AUG-83	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	05-MAR-84
Completion:	28-DEC-83	Total dept:	2.5E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	CM
Grout top:	0	Grout bott:	5.0E+001
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	2.2E+002	Casing hei:	+01
Screen typ:	PL	Top screen:	2.4E+002
Bottom scr:	2.5E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	2.0E+000
Pumping ra:	3.5E+001	Level befo:	6.0E+001
Level duri:	8.0E+001	Test pump :	A
Pump insta:	Not Reported	Install pu:	S
Capacity:	8.0E+000	Pump hp:	7.5E-001
Column len:	1.6E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

B7
ENE
1/2 - 1 Mile
Higher

MD WELLS MD600000089897

Objectid:	89896	County let:	CA
Permit:	CA734102	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	24-JUN-81
City:	DUNKIRK	State:	MD
Zip:	Not Reported	Driller na:	FORD, JAMES E.
Driller id:	MWD0165	Est gpm pr:	5.0E+000
Use for wa:	DW		
Approx dep:	3.8E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	MINOR BARBARA PRICE

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Section :	Not Reported	Lot:	1
Nearest to:	DUNKIRK	Town dista:	2 MI
Road name:	WARD RD	Road side:	E
Road dista:	3000FT	Tax map:	Not Reported
Block:	Not Reported	Parcel:	Not Reported
N grid27:	325000.00	E grid27:	903000.00
N grid83:	117577.00	E grid83:	431421.00
Lat dec de:	38.73	Lon dec de:	76.64
Issue date:	19-JUN-81	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	07-JUL-81
Completion:	24-JUN-81	Total dept:	3.4E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	CM
Grout top:	4.0E+000	Grout bott:	1.5E+001
Casing typ:	ST	Casing dia:	4.0E+000
Casing dep:	2.94E+002	Casing hei:	+01
Screen typ:	ST	Top screen:	3.3E+002
Bottom scr:	3.4E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	4.0E+000
Pumping ra:	4.0E+001	Level befo:	1.9E+002
Level duri:	2.1E+002	Test pump :	A
Pump insta:	Not Reported	Install pu:	S
Capacity:	1.3E+001	Pump hp:	7.5E-001
Column len:	2.6E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

**B8
ENE
1/2 - 1 Mile
Higher**

MD WELLS MD6000000092663

Objectid:	92662	County let:	CA
Permit:	CA812913	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	28-JAN-87
City:	LUSBY	State:	MD
Zip:	20657	Driller na:	WATTS, FRANCIS W
Driller id:	MWD0190	Est gpm pr:	1.0E+001
Use for wa:	DW		
Approx dep:	3.5E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	ROSEMARY ROLLINS
Section :	Not Reported	Lot:	2
Nearest to:	DUNKIRK	Town dista:	1.5 MI
Road name:	WARD RD	Road side:	W
Road dista:	440 FT	Tax map:	Not Reported
Block:	Not Reported	Parcel:	Not Reported
N grid27:	325000.00	E grid27:	903000.00
N grid83:	117577.00	E grid83:	431421.00
Lat dec de:	38.73	Lon dec de:	76.64
Issue date:	08-JAN-87	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	23-APR-87

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Completion:	09-MAR-87	Total dept:	3.5E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	4.0E+001
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	2.6E+002	Casing hei:	+01
Screen typ:	PL	Top screen:	3.2E+002
Bottom scr:	3.4E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	3.0E+000
Pumping ra:	2.5E+001	Level befo:	1.2E+002
Level duri:	1.35E+002	Test pump :	A
Pump insta:	Not Reported	Install pu:	S
Capacity:	7.0E+000	Pump hp:	7.5E-001
Column len:	2.0E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

B9
ENE
1/2 - 1 Mile
Higher

MD WELLS MD6000000419077

Objectid:	419086	County let:	CA
Permit:	CA942756	Mgs id:	Not Reported
B1 seq:	0732	B1 recd:	03-OCT-00
City:	SUNDERLAND	State:	MD
Zip:	20689	Driller na:	MICHAEL GRIBBLE
Driller id:	MWD 318	Est gpm pr:	8.0E+000
Use for wa:	DW		
Approx dep:	3.5E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	Not Reported
Section :	Not Reported	Lot:	Not Reported
Nearest to:	DUNKIRK	Town dista:	2
Road name:	10951 WARD RD	Road side:	E
Road dista:	160 FT	Tax map:	3
Block:	Not Reported	Parcel:	279
N grid27:	325000.00	E grid27:	903000.00
N grid83:	117577.00	E grid83:	431421.00
Lat dec de:	38.73	Lon dec de:	76.64
Issue date:	03-OCT-00	Special fl:	Not Reported
C1 seq:	7697	C1 recd:	04-JAN-01
Completion:	24-OCT-00	Total dept:	3.35E+002
Num unsucc:	0	Hydrofract:	N
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	6.3E+001
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	3.2E+002	Casing hei:	+1
Screen typ:	PL	Top screen:	3.2E+002
Bottom scr:	3.35E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	2.0E+000
Pumping ra:	2.0E+001	Level befo:	2.0E+002
Level duri:	2.2E+002	Test pump :	A
Pump insta:	Y	Install pu:	S
Capacity:	8.0E+000	Pump hp:	7.5E-001
Column len:	2.8E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

B10
ENE
1/2 - 1 Mile
Higher

MD WELLS MD6000000415533

Objectid:	415532	County let:	CA
Permit:	CA941383	Mgs id:	Not Reported
B1 seq:	9342	B1 recd:	13-OCT-98
City:	DUNKIRK	State:	MD
Zip:	20754	Driller na:	MICHAEL GRIBBLE
Driller id:	MWD 318	Est gpm pr:	8.0E+000
Use for wa:	DW		
Approx dep:	3.5E+002	Drill meth:	ROTARY
Replacemen:	Y	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	DUNKIRK WOODS
Section :	Not Reported	Lot:	2
Nearest to:	DUNKIRK	Town dista:	3
Road name:	2010 MCCRACKEN DRIVE	Road side:	W
Road dista:	100 FT	Tax map:	3
Block:	Not Reported	Parcel:	185
N grid27:	325000.00	E grid27:	903000.00
N grid83:	117577.00	E grid83:	431421.00
Lat dec de:	38.73	Lon dec de:	76.64
Issue date:	14-OCT-98	Special fl:	Not Reported
C1 seq:	2231	C1 recd:	24-NOV-98
Completion:	14-NOV-98	Total dept:	3.2E+002
Num unsucc:	0	Hydrofract:	N
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	8.4E+001
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	3.0E+002	Casing hei:	+1
Screen typ:	PL	Top screen:	3.0E+002
Bottom scr:	3.2E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	2.0E+000
Pumping ra:	2.5E+001	Level befo:	1.7E+002
Level duri:	1.9E+002	Test pump :	A
Pump insta:	Y	Install pu:	S
Capacity:	7.0E+000	Pump hp:	7.5E-001
Column len:	2.5E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

B11
ENE
1/2 - 1 Mile
Higher

MD WELLS MD600000096586

Objectid:	96585	County let:	CA
Permit:	CA883573	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	22-JUL-93
City:	DUNKIRK	State:	MD
Zip:	20754	Driller na:	GRIBBLE, MICHAEL K.
Driller id:	MWD0318	Est gpm pr:	8.0E+000
Use for wa:	DW		
Approx dep:	3.5E+002	Drill meth:	ROTARY
Replacemen:	Y	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	WOODLAWN FARMS
Section :	Not Reported	Lot:	5
Nearest to:	DUNKIRK	Town dista:	1.5 MI
Road name:	10670 WARD RD	Road side:	W
Road dista:	75 FT	Tax map:	Not Reported
Block:	Not Reported	Parcel:	Not Reported
N grid27:	325000.00	E grid27:	903000.00
N grid83:	117577.00	E grid83:	431421.00
Lat dec de:	38.73	Lon dec de:	76.64
Issue date:	26-JUL-93	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	27-AUG-93
Completion:	03-AUG-93	Total dept:	2.9E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	1.68E+002
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	2.55E+002	Casing hei:	+01
Screen typ:	ST	Top screen:	2.8E+002
Bottom scr:	2.9E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	Not Reported
Log type:	Not Reported	Hrs pumped:	1.0E+000
Pumping ra:	2.0E+001	Level befo:	1.1E+002
Level duri:	1.35E+002	Test pump :	A
Pump insta:	Not Reported	Install pu:	S
Capacity:	8.0E+000	Pump hp:	7.5E-001
Column len:	1.8E+002	Closed:	A
Abandoned:	Not Reported	Abandon da:	Not Reported

C12
WNW
1/2 - 1 Mile
Lower

MD WELLS MD6000000342733

Objectid:	342732	County let:	CA
Permit:	CA921043	Mgs id:	Not Reported
B1 seq:	7953	B1 recd:	11-SEP-96
City:	PR FREDERICK	State:	MD
Zip:	20678	Driller na:	STAN KWIATKOWSKI
Driller id:	MSD 107	Est gpm pr:	5.0E+001
Use for wa:	DW		
Approx dep:	4.2E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	CA1996G020	Subdivisio:	CALVERT GATEWAY

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Section :	Not Reported	Lot:	3
Nearest to:	DUNKIRK	Town dista:	.3
Road name:	TOWN CENTER BLVD	Road side:	N
Road dista:	250 FT	Tax map:	3,6
Block:	20,21,3	Parcel:	7,20,3
N grid27:	325300.00	E grid27:	897514.00
N grid83:	117668.00	E grid83:	429749.00
Lat dec de:	38.73	Lon dec de:	76.66
Issue date:	13-SEP-96	Special fl:	Not Reported
C1 seq:	8688	C1 recd:	31-JUL-00
Completion:	04-APR-97	Total dept:	5.2E+002
Num unsucc:	0	Hydrofract:	N
Grouted:	Y	Grout type:	BC
Grout top:	5.0E+000	Grout bott:	1.26E+002
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	3.1E+002	Casing hei:	+2
Screen typ:	ST	Top screen:	4.95E+002
Bottom scr:	5.15E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	8.0E+000
Pumping ra:	8.0E+001	Level befo:	1.26E+002
Level duri:	1.8E+002	Test pump :	A
Pump insta:	Y	Install pu:	S
Capacity:	6.0E+001	Pump hp:	5.0E+000
Column len:	2.0E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

**13
SW
1/2 - 1 Mile
Lower**

MD WELLS MD6000000469406

Objectid:	469405	County let:	CA
Permit:	CA944998	Mgs id:	Not Reported
B1 seq:	6315	B1 recd:	18-FEB-04
City:	DUNKIRK	State:	MD
Zip:	20754	Driller na:	MICHAEL K. GRIBBLE
Driller id:	MWD 318	Est gpm pr:	1.0E+002
Use for wa:	I		
Approx dep:	5.0E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	CA1989G008	Subdivisio:	SHOPPES@APPLE GREEN
Section :	Not Reported	Lot:	Not Reported
Nearest to:	DUNKIRK	Town dista:	.5
Road name:	2890 SOUTHERN MD BLVD	Road side:	E
Road dista:	40 FT	Tax map:	6
Block:	Not Reported	Parcel:	15
N grid27:	321688.00	E grid27:	897609.00
N grid83:	116567.00	E grid83:	429778.00
Lat dec de:	38.72	Lon dec de:	76.66
Issue date:	18-FEB-04	Special fl:	Not Reported
C1 seq:	2730	C1 recd:	17-SEP-04

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Completion:	06-APR-04	Total dept:	5.2E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	6.3E+001
Casing typ:	PL	Casing dia:	6.0E+000
Casing dep:	4.75E+002	Casing hei:	+1
Screen typ:	ST	Top screen:	4.9E+002
Bottom scr:	5.2E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	4.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	2.4E+001
Pumping ra:	1.0E+002	Level befo:	1.45E+002
Level duri:	1.65E+002	Test pump :	S
Pump insta:	Y	Install pu:	S
Capacity:	1.0E+002	Pump hp:	1.5E+001
Column len:	2.73E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

D14
West
1/2 - 1 Mile
Higher

MD WELLS MD6000000091526

Objectid:	91525	County let:	CA
Permit:	CA811553	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	18-JUN-85
City:	DUNKIRK	State:	MD
Zip:	20754	Driller na:	GRIBBLE, MICHAEL K.
Driller id:	MWD0318	Est gpm pr:	8.0E+000
Use for wa:	DW		
Approx dep:	3.5E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	CA1985G008	Subdivisio:	Not Reported
Section :	Not Reported	Lot:	Not Reported
Nearest to:	DUNKIRK	Town dista:	0 MI
Road name:	RT 4	Road side:	E
Road dista:	75 FT	Tax map:	Not Reported
Block:	Not Reported	Parcel:	Not Reported
N grid27:	324000.00	E grid27:	897000.00
N grid83:	117272.00	E grid83:	429592.00
Lat dec de:	38.72	Lon dec de:	76.66
Issue date:	10-JUN-85	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	26-MAY-86
Completion:	14-JUN-85	Total dept:	3.3E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	CM
Grout top:	0	Grout bott:	5.0E+001
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	2.9E+002	Casing hei:	+01
Screen typ:	PL	Top screen:	3.2E+002
Bottom scr:	3.3E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Bottom s 2:	0	Screen dia:	0
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	1.0E+000
Pumping ra:	3.0E+001	Level befo:	1.6E+002
Level duri:	1.85E+002	Test pump :	A
Pump insta:	Not Reported	Install pu:	S
Capacity:	8.0E+000	Pump hp:	7.5E-001
Column len:	2.2E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

E15
West
1/2 - 1 Mile
Higher

MD WELLS MD6000000324196

Objectid:	324195	County let:	CA
Permit:	CA883213	Mgs id:	Not Reported
B1 seq:	7153	B1 recd:	04-JAN-93
City:	WASHINGTON	State:	DC
Zip:	20017	Driller na:	MICHAEL K. GRIBBLE
Driller id:	MWD0318	Est gpm pr:	8.0E+000
Use for wa:	I		
Approx dep:	4.0E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	CA1990G008	Subdivisio:	DUNKIRK MARKET PL
Section :	Not Reported	Lot:	Not Reported
Nearest to:	DUNKIRK	Town dista:	.25
Road name:	10264 SOUTHERN MD BL	Road side:	W
Road dista:	75 FT	Tax map:	Not Reported
Block:	Not Reported	Parcel:	Not Reported
N grid27:	323000.00	E grid27:	897000.00
N grid83:	116967.00	E grid83:	429592.00
Lat dec de:	38.72	Lon dec de:	76.66
Issue date:	16-MAR-93	Special fl:	N
C1 seq:	1814	C1 recd:	17-MAY-96
Completion:	25-MAY-93	Total dept:	3.9E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	3.15E+002
Casing typ:	PL	Casing dia:	5.0E+000
Casing dep:	3.33E+002	Casing hei:	+1
Screen typ:	ST	Top screen:	3.5E+002
Bottom scr:	3.9E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	3.0E+000
Pumping ra:	4.0E+001	Level befo:	1.6E+002
Level duri:	1.85E+002	Test pump :	A
Pump insta:	Y	Install pu:	S
Capacity:	1.0E+001	Pump hp:	1.5E+000
Column len:	2.8E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

E16
WSW
1/2 - 1 Mile
Higher

MD WELLS MD600000094770

Objectid:	94769	County let:	CA
Permit:	CA881039	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	12-APR-89
City:	DUNKIRK	State:	MD
Zip:	20754	Driller na:	GRIBBLE, MICHAEL K.
Driller id:	MWD0318	Est gpm pr:	8.0E+000
Use for wa:	DW		
Approx dep:	3.5E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	CA1973G001	Subdivisio:	DUNKIRK VILLAGE
Section :	Not Reported	Lot:	Not Reported
Nearest to:	DUNKIRK	Town dista:	0 MI
Road name:	RT 4	Road side:	E
Road dista:	150 FT	Tax map:	6
Block:	3	Parcel:	166
N grid27:	322875.00	E grid27:	896999.00
N grid83:	116929.00	E grid83:	429592.00
Lat dec de:	38.72	Lon dec de:	76.66
Issue date:	13-APR-89	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	30-NOV-90
Completion:	11-APR-89	Total dept:	3.5E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	5.0E+001
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	3.2E+002	Casing hei:	+01
Screen typ:	PL	Top screen:	3.4E+002
Bottom scr:	3.5E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	3.0E+000
Pumping ra:	3.0E+001	Level befo:	1.4E+002
Level duri:	1.65E+002	Test pump :	A
Pump insta:	Not Reported	Install pu:	S
Capacity:	8.5E+001	Pump hp:	3.0E+000
Column len:	2.52E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

F17
NE
1/2 - 1 Mile
Lower

MD WELLS MD600000089853

Objectid:	89852	County let:	CA
Permit:	CA734047	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	11-MAY-81
City:	DUNKIRK	State:	MD
Zip:	Not Reported	Driller na:	GRIBBLE, JOSEPH H.
Driller id:	MWD0317	Est gpm pr:	8.0E+000
Use for wa:	DW		
Approx dep:	3.5E+002	Drill meth:	ROTARY
Replacemen:	S	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	DUNKIRK WOODS

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Section :	Not Reported	Lot:	Not Reported
Nearest to:	DUNKIRK	Town dista:	.4 MI
Road name:	INVERNESS WAY	Road side:	S
Road dista:	100 FT	Tax map:	Not Reported
Block:	Not Reported	Parcel:	Not Reported
N grid27:	326000.00	E grid27:	903000.00
N grid83:	117881.00	E grid83:	431421.00
Lat dec de:	38.73	Lon dec de:	76.64
Issue date:	06-MAY-81	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	04-JUN-81
Completion:	13-MAY-81	Total dept:	3.0E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	CM
Grout top:	0	Grout bott:	2.0E+001
Casing typ:	ST	Casing dia:	4.0E+000
Casing dep:	2.52E+002	Casing hei:	+01
Screen typ:	PL	Top screen:	2.85E+002
Bottom scr:	3.0E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	1.0E+000
Pumping ra:	3.0E+001	Level befo:	1.21E+002
Level duri:	1.43E+002	Test pump :	A
Pump insta:	Not Reported	Install pu:	S
Capacity:	7.0E+000	Pump hp:	5.0E-001
Column len:	1.75E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

**F18
NE
1/2 - 1 Mile
Lower**

MD WELLS MD6000000415294

Objectid:	415293	County let:	CA
Permit:	CA941353	Mgs id:	Not Reported
B1 seq:	2980	B1 recd:	29-SEP-98
City:	DUNKIRK	State:	MD
Zip:	20754	Driller na:	RICHARD L SHOCKLEY
Driller id:	MWD 486	Est gpm pr:	8.0E+000
Use for wa:	DW	Drill meth:	ROTARY
Approx dep:	3.0E+002	Replace pe:	Not Reported
Replacemen:	Y	Subdivisio:	DUNKIRK WOOD
Wapid:	Not Reported	Lot:	2
Section :	1	Town dista:	1.4
Nearest to:	DUNKIRK	Road side:	N
Road name:	1941 ABERDEEN DR	Tax map:	3
Road dista:	27 FT	Parcel:	142
Block:	Not Reported	E grid27:	903000.00
N grid27:	326000.00	E grid83:	431421.00
N grid83:	117881.00	Lon dec de:	76.64
Lat dec de:	38.73	Special fl:	Not Reported
Issue date:	29-SEP-98	C1 recd:	18-NOV-98
C1 seq:	2200		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Completion:	12-OCT-98	Total dept:	3.1E+002
Num unsucc:	0	Hydrofract:	N
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	5.6E+001
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	2.99E+002	Casing hei:	+2
Screen typ:	PL	Top screen:	3.0E+002
Bottom scr:	3.1E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	2.0E+000
Pumping ra:	3.0E+001	Level befo:	1.11E+002
Level duri:	1.48E+002	Test pump :	A
Pump insta:	Y	Install pu:	S
Capacity:	8.0E+000	Pump hp:	7.5E-001
Column len:	1.6E+002	Closed:	A
Abandoned:	Not Reported	Abandon da:	Not Reported

**F19
NE
1/2 - 1 Mile
Lower**

MD WELLS MD6000000490038

Objectid:	490037	County let:	Not Reported
Permit:	CA945797	Mgs id:	Not Reported
B1 seq:	6907	B1 recd:	05-OCT-05
City:	DUNKIRK	State:	MD
Zip:	20754	Driller na:	MICHAEL K GRIBBLE
Driller id:	MWD 318	Est gpm pr:	8.0E+000
Use for wa:	DW		
Approx dep:	3.5E+002	Drill meth:	ROTARY
Replacemen:	Y	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	APPLE GREENE
Section :	3	Lot:	87
Nearest to:	DUNKIRK	Town dista:	1
Road name:	9908 EMPIRE CT	Road side:	N
Road dista:	40 FT	Tax map:	6
Block:	Not Reported	Parcel:	278
N grid27:	326000.00	E grid27:	903000.00
N grid83:	117881.00	E grid83:	431421.00
Lat dec de:	38.73	Lon dec de:	76.64
Issue date:	05-OCT-05	Special fl:	Not Reported
C1 seq:	7160	C1 recd:	17-NOV-05
Completion:	24-OCT-05	Total dept:	2.75E+002
Num unsucc:	0	Hydrofract:	N
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	6.3E+001
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	2.51E+002	Casing hei:	+1
Screen typ:	PL	Top screen:	2.55E+002
Bottom scr:	2.75E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	2.0E+000
Pumping ra:	2.0E+001	Level befo:	1.1E+002
Level duri:	1.3E+002	Test pump :	A
Pump insta:	Y	Install pu:	S
Capacity:	8.0E+000	Pump hp:	7.5E-001
Column len:	1.8E+002	Closed:	A
Abandoned:	Not Reported	Abandon da:	Not Reported

E20
WSW
1/2 - 1 Mile
Higher

MD WELLS MD6000000086818

Objectid:	86817	County let:	CA
Permit:	CA730049	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	25-AUG-72
City:	DUNKIRK	State:	MD
Zip:	Not Reported	Driller na:	WARD, W S CO INC
Driller id:	MWD0053	Est gpm pr:	1.0E+001
Use for wa:	I		
Approx dep:	3.5E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	CA1973G001	Subdivisio:	Not Reported
Section :	Not Reported	Lot:	Not Reported
Nearest to:	DUNKIRK	Town dista:	0 MI
Road name:	RT 4	Road side:	E
Road dista:	600 FT	Tax map:	6
Block:	3	Parcel:	166
N grid27:	322875.00	E grid27:	896940.00
N grid83:	116929.00	E grid83:	429574.00
Lat dec de:	38.72	Lon dec de:	76.66
Issue date:	23-AUG-72	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	30-JAN-73
Completion:	12-OCT-72	Total dept:	3.42E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	CM
Grout top:	0	Grout bott:	3.28E+002
Casing typ:	ST	Casing dia:	4.0E+000
Casing dep:	3.28E+002	Casing hei:	+01
Screen typ:	ST	Top screen:	3.32E+002
Bottom scr:	3.38E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	3.0E+000
Flowing we:	Not Reported	Telescopin:	Not Reported
Log type:	Not Reported	Hrs pumped:	6.0E+000
Pumping ra:	2.5E+001	Level befo:	1.3E+002
Level duri:	1.36E+002	Test pump :	A
Pump insta:	Not Reported	Install pu:	S
Capacity:	1.8E+001	Pump hp:	1.0E+000
Column len:	2.1E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

D21
West
1/2 - 1 Mile
Higher

FRDS PWS MD1041028

PWS ID: MD1041028
Date Initiated: Not Reported Date Deactivated: Not Reported
PWS Name: DB'S FISH & MEAT MARKET
 ROUTE 4
 DUNKIRK, MD 20754

Addressee / Facility: System Owner/Responsible Party
 COUNTRY CUTS
 ROUTE 4
 OWINGS, MD 20736

Facility Latitude: 38 43 18 Facility Longitude: 076 39 38
City Served: Not Reported
Treatment Class: Untreated Population: 00000025

Violations information not reported.

22
East
1/2 - 1 Mile
Lower

MD WELLS MD6000000489478

Objectid:	489477	County let:	Not Reported
Permit:	CA945737	Mgs id:	Not Reported
B1 seq:	6133	B1 recd:	15-AUG-05
City:	DUNKIRK	State:	MD
Zip:	20754	Driller na:	CURTIS WINSLOW
Driller id:	MSD 150	Est gpm pr:	8.0E+000
Use for wa:	DW		
Approx dep:	2.8E+002	Drill meth:	ROTARY
Replacemen:	Y	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	DUNKIRK FIELDS
Section :	Not Reported	Lot:	11
Nearest to:	DUNKIRK	Town dista:	1
Road name:	1910 HAVEN LANE	Road side:	E
Road dista:	175 FT	Tax map:	6
Block:	5	Parcel:	228
N grid27:	324000.00	E grid27:	904000.00
N grid83:	117272.00	E grid83:	431726.00
Lat dec de:	38.72	Lon dec de:	76.64
Issue date:	15-AUG-05	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	15-SEP-05
Completion:	01-SEP-05	Total dept:	2.65E+002
Num unsucc:	0	Hydrofract:	N
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	1.5E+002
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	2.45E+002	Casing hei:	+1
Screen typ:	PL	Top screen:	2.45E+002
Bottom scr:	2.65E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Bottom s 2:	0	Screen dia:	0
Flowing we:	Not Reported	Telescopin:	Not Reported
Log type:	Not Reported	Hrs pumped:	3.0E+000
Pumping ra:	4.0E+001	Level befo:	8.4E+001
Level duri:	1.84E+002	Test pump :	A
Pump insta:	Y	Install pu:	S
Capacity:	1.0E+001	Pump hp:	1.0E+000
Column len:	1.6E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

G23
WNW
1/2 - 1 Mile
Lower

MD WELLS MD6000000349119

Objectid:	349118	County let:	CA
Permit:	CA884269	Mgs id:	Not Reported
B1 seq:	6392	B1 recd:	07-FEB-95
City:	PR FREDERICK	State:	MD
Zip:	20678	Driller na:	MICHAEL K GRIBBLE
Driller id:	MWD 318	Est gpm pr:	3.5E+001
Use for wa:	I		
Approx dep:	4.0E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	CA1994G002	Subdivisio:	MCDONALDS RESTURANT
Section :	Not Reported	Lot:	Not Reported
Nearest to:	DUNKIRK	Town dista:	.5
Road name:	ROUTE 4	Road side:	E
Road dista:	90 FT	Tax map:	3
Block:	20	Parcel:	7
N grid27:	324893.00	E grid27:	897065.00
N grid83:	117544.00	E grid83:	429612.00
Lat dec de:	38.73	Lon dec de:	76.66
Issue date:	07-FEB-95	Special fl:	Y
C1 seq:	1834	C1 recd:	24-MAR-95
Completion:	11-JAN-95	Total dept:	3.1E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	1.26E+002
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	2.8E+002	Casing hei:	+1
Screen typ:	ST	Top screen:	2.8E+002
Bottom scr:	3.1E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	Not Reported
Log type:	Not Reported	Hrs pumped:	2.0E+000
Pumping ra:	4.0E+001	Level befo:	1.3E+002
Level duri:	1.6E+002	Test pump :	A
Pump insta:	Y	Install pu:	S
Capacity:	3.5E+001	Pump hp:	5.0E+000
Column len:	2.3E+002	Closed:	Not Reported
Abandoned:	Y	Abandon da:	18-APR-06

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

E24
West
1/2 - 1 Mile
Higher

MD WELLS MD600000092887

Objectid:	92886	County let:	CA
Permit:	CA813195	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	08-MAY-87
City:	DUNKIRK	State:	MD
Zip:	20754	Driller na:	WARD, WILLARD C.
Driller id:	MWD0053	Est gpm pr:	3.0E+001
Use for wa:	I		
Approx dep:	4.0E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	CA1987G005	Subdivisio:	Not Reported
Section :	Not Reported	Lot:	Not Reported
Nearest to:	DUNKIRK	Town dista:	0 MI
Road name:	RT 4	Road side:	E
Road dista:	200 FT	Tax map:	6
Block:	3	Parcel:	171
N grid27:	323240.00	E grid27:	896802.00
N grid83:	117040.00	E grid83:	429532.00
Lat dec de:	38.72	Lon dec de:	76.66
Issue date:	08-MAY-87	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	24-JUL-87
Completion:	01-JUL-87	Total dept:	3.6E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	3.01E+002
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	3.01E+002	Casing hei:	+01
Screen typ:	ST	Top screen:	3.4E+002
Bottom scr:	3.6E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	3.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	8.0E+000
Pumping ra:	5.0E+001	Level befo:	1.65E+002
Level duri:	1.85E+002	Test pump :	A
Pump insta:	Not Reported	Install pu:	S
Capacity:	2.8E+001	Pump hp:	3.0E+000
Column len:	2.5E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

25
SE
1/2 - 1 Mile
Lower

MD WELLS MD600000094222

Objectid:	94221	County let:	CA
Permit:	CA880415	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	19-DEC-88
City:	DUNKIRK	State:	MD
Zip:	20754	Driller na:	GRIBBLE, MICHAEL K.
Driller id:	MWD0318	Est gpm pr:	8.0E+000
Use for wa:	DW		
Approx dep:	3.5E+002	Drill meth:	ROTARY
Replacemen:	Y	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	DUNKIRK WOODS

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Section :	II	Lot:	13
Nearest to:	DUNKIRK	Town dista:	1 MI
Road name:	DUMBARTON DR	Road side:	W
Road dista:	30 FT	Tax map:	Not Reported
Block:	Not Reported	Parcel:	Not Reported
N grid27:	321000.00	E grid27:	903000.00
N grid83:	116357.00	E grid83:	431421.00
Lat dec de:	38.71	Lon dec de:	76.64
Issue date:	20-DEC-88	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	03-JAN-89
Completion:	20-DEC-88	Total dept:	3.1E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	CM
Grout top:	0	Grout bott:	5.0E+001
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	2.6E+002	Casing hei:	+01
Screen typ:	PL	Top screen:	3.0E+002
Bottom scr:	3.1E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	8.0E+000
Pumping ra:	3.0E+001	Level befo:	1.25E+002
Level duri:	1.7E+002	Test pump :	A
Pump insta:	Not Reported	Install pu:	S
Capacity:	8.0E+000	Pump hp:	7.5E-001
Column len:	1.85E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

26
WSW
1/2 - 1 Mile
Higher

MD WELLS MD6000000415417

Objectid:	415416	County let:	CA
Permit:	CA941212	Mgs id:	Not Reported
B1 seq:	9390	B1 recd:	29-JUL-98
City:	DUNKIRK	State:	MD
Zip:	20754	Driller na:	MICHAEL K GRIBBLE
Driller id:	MWD 318	Est gpm pr:	8.0E+000
Use for wa:	DW	Drill meth:	ROTARY
Approx dep:	3.5E+002	Replace pe:	Not Reported
Replacemen:	Y	Subdivisio:	Not Reported
Wapid:	CA2003G004	Lot:	Not Reported
Section :	Not Reported	Town dista:	.25
Nearest to:	DUNKIRK	Road side:	E
Road name:	10075 SOUTHERN MD BL	Tax map:	6
Road dista:	80 FT	Parcel:	417
Block:	3	E grid27:	896937.00
N grid27:	322495.00	E grid83:	429573.00
N grid83:	116813.00	Lon dec de:	76.66
Lat dec de:	38.72	Special fl:	Not Reported
Issue date:	29-JUL-98	C1 recd:	16-NOV-98
C1 seq:	1749		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Completion:	01-AUG-98	Total dept:	3.3E+002
Num unsucc:	0	Hydrofract:	N
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	1.05E+002
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	3.2E+002	Casing hei:	+1
Screen typ:	PL	Top screen:	3.2E+002
Bottom scr:	3.3E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	1.0E+000
Pumping ra:	3.0E+001	Level befo:	1.95E+002
Level duri:	2.1E+002	Test pump :	A
Pump insta:	Y	Install pu:	S
Capacity:	8.0E+000	Pump hp:	7.5E-001
Column len:	2.75E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

**G27
WNW
1/2 - 1 Mile
Lower**

MD WELLS MD6000000356407

Objectid:	356406	County let:	CA
Permit:	CA921044	Mgs id:	Not Reported
B1 seq:	7956	B1 recd:	11-SEP-96
City:	DUNKIRK	State:	MD
Zip:	20678	Driller na:	STAN KWIATKOWSKI
Driller id:	MSD 107	Est gpm pr:	4.0E+001
Use for wa:	I		
Approx dep:	4.2E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	CA1995G010	Subdivisio:	CALVERT GATEWAY
Section :	Not Reported	Lot:	2
Nearest to:	DUNKIRK	Town dista:	.3
Road name:	TOWN CENTER BLVD	Road side:	N
Road dista:	250 FT	Tax map:	3
Block:	21	Parcel:	347
N grid27:	325231.00	E grid27:	897114.00
N grid83:	117647.00	E grid83:	429627.00
Lat dec de:	38.73	Lon dec de:	76.66
Issue date:	12-SEP-96	Special fl:	Not Reported
C1 seq:	0866	C1 recd:	31-JUL-00
Completion:	10-DEC-96	Total dept:	3.55E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	BC
Grout top:	6.0E+000	Grout bott:	1.05E+002
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	3.2E+002	Casing hei:	+2
Screen typ:	ST	Top screen:	3.2E+002
Bottom scr:	3.3E+002	Screen t 1:	ST
Top scre 1:	3.3E+002	Bottom s 1:	3.4E+002
Screen t 2:	ST	Top scre 2:	3.4E+002

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Bottom s 2:	3.5E+002	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	Not Reported
Log type:	Not Reported	Hrs pumped:	6.0E+000
Pumping ra:	7.0E+001	Level befo:	1.48E+002
Level duri:	2.2E+002	Test pump :	A
Pump insta:	Y	Install pu:	S
Capacity:	4.0E+001	Pump hp:	3.0E+000
Column len:	3.0E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

D28
West
1/2 - 1 Mile
Higher

FED USGS USGS40000431358

Org. Identifier:	USGS-MD		
Formal name:	USGS Maryland Water Science Center		
Monloc Identifier:	USGS-384323076393801		
Monloc name:	CA Bb 56		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02060006	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	38.7230556
Longitude:	-76.6605556	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Reported		
Horiz coord refsys:	NAD83	Vert measure val:	135.87
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from digital elevation model (DEM)		
Vert coord refsys:	NAVD88	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Magothy Formation		
Aquifer type:	Confined single aquifer		
Construction date:	20040406	Welldepth:	520
Welldepth units:	ft	Wellholedepth:	525
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

C29
WNW
1/2 - 1 Mile
Lower

FED USGS USGS40000431379

Org. Identifier:	USGS-MD		
Formal name:	USGS Maryland Water Science Center		
Monloc Identifier:	USGS-384335076393401		
Monloc name:	CA Bb 47		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02060006	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	38.7265058
Longitude:	-76.6591298	Sourcemap scale:	24000

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	120
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Aquia Formation		
Aquifer type:	Not Reported		
Construction date:	19961210	Welldepth:	350
Welldepth units:	ft	Wellholedepth:	355
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

**H30
WNW
1/2 - 1 Mile
Higher**

MD WELLS MD600000094883

Objectid:	94882	County let:	CA
Permit:	CA881173	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	17-NOV-89
City:	DUNKIRK	State:	MD
Zip:	20754	Driller na:	GRIBBLE, MICHAEL K.
Driller id:	MWD0318	Est gpm pr:	8.0E+000
Use for wa:	I		
Approx dep:	3.7E+002	Drill meth:	ROTARY
Replacemen:	Y	Replace pe:	Not Reported
Wapid:	CA1989G021	Subdivisio:	Not Reported
Section :	Not Reported	Lot:	Not Reported
Nearest to:	DUNKIRK	Town dista:	1 MI
Road name:	RT 4	Road side:	W
Road dista:	25 FT	Tax map:	3
Block:	21	Parcel:	22
N grid27:	324394.00	E grid27:	896750.00
N grid83:	117392.00	E grid83:	429516.00
Lat dec de:	38.72	Lon dec de:	76.66
Issue date:	20-NOV-89	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	05-DEC-89
Completion:	27-NOV-89	Total dept:	3.3E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	1.0E+002
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	3.1E+002	Casing hei:	+01
Screen typ:	PL	Top screen:	3.2E+002
Bottom scr:	3.3E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	5.0E+000
Pumping ra:	2.5E+001	Level befo:	1.6E+002
Level duri:	1.75E+002	Test pump :	A
Pump insta:	Not Reported	Install pu:	S
Capacity:	7.0E+000	Pump hp:	1.0E+000
Column len:	2.5E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

D31
West
1/2 - 1 Mile
Higher

FED USGS USGS40000431356

Org. Identifier:	USGS-MD		
Formal name:	USGS Maryland Water Science Center		
Monloc Identifier:	USGS-384322076394001		
Monloc name:	CA Bb 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02060006	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	38.7228947
Longitude:	-76.6607965	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	144.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Pleistocene Series		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	44
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 51

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1952-12-22	19.02		1952-09-03	25.54	
1952-07-18	27.85		1952-05-13	16.30	
1952-04-30	14.74		1952-03-20	19.25	
1952-02-01	17.14		1952-01-04	17.88	
1951-11-19	22.12		1951-10-23	30.81	
1951-09-13	30.08		1951-07-27	28.12	
1951-06-27	22.80		1951-06-04	28.05	
1951-04-10	22.52		1951-02-22	23.70	
1951-01-17	25.98		1951-01-02	24.87	
1950-11-28	26.43		1950-11-02	25.27	
1950-09-07	30.74		1950-08-10	29.40	
1950-06-28	29.70		1950-05-19	27.15	
1950-04-26	25.84		1950-03-23	28.84	
1950-02-28	29.52		1950-01-24	31.55	
1949-12-28	31.51		1949-10-03	31.48	
1949-09-14	31.26		1949-08-03	30.72	
1949-07-29	33.71		1949-06-15	26.79	
1949-05-19	23.05		1949-04-15	19.91	
1949-03-24	18.25		1948-06-28	27.06	
1948-06-01	25.28		1947-11-13	28.00	
1947-09-23	31.03		1947-08-18	30.23	
1947-07-24	28.50		1947-06-30	25.34	
1947-06-18	27.57		1947-06-03	29.96	
1947-05-20	29.84		1947-05-06	29.36	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1947-04-22	30.04		1947-04-07	28.64	
1947-01-13	26.97				

**I32
SW
1/2 - 1 Mile
Lower**

MD WELLS MD600000091474

Objectid:	91473	County let:	CA
Permit:	CA811493	Mgs id:	Not Reported
B1 seq:	3347	B1 recd:	01-APR-98
City:	DUNKIRK	State:	MD
Zip:	20754	Driller na:	MICHAEL K GRIBBLE
Driller id:	MWD0318	Est gpm pr:	8.0E+000
Use for wa:	DW		
Approx dep:	3.5E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	CA1985G006	Subdivisio:	Not Reported
Section :	Not Reported	Lot:	Not Reported
Nearest to:	DUNKIRK	Town dista:	25
Road name:	ROUTE 4	Road side:	E
Road dista:	50 FT	Tax map:	6
Block:	Not Reported	Parcel:	2
N grid27:	321356.00	E grid27:	897350.00
N grid83:	116466.00	E grid83:	429699.00
Lat dec de:	38.72	Lon dec de:	76.66
Issue date:	13-MAY-85	Special fl:	N
C1 seq:	2517	C1 recd:	25-FEB-86
Completion:	07-JUN-85	Total dept:	3.4E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	CM
Grout top:	0	Grout bott:	5.0E+001
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	3.0E+002	Casing hei:	+1
Screen typ:	PL	Top screen:	3.25E+002
Bottom scr:	3.4E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	Not Reported
Log type:	Not Reported	Hrs pumped:	1.0E+000
Pumping ra:	2.0E+001	Level befo:	1.5E+002
Level duri:	1.74E+002	Test pump :	A
Pump insta:	Y	Install pu:	S
Capacity:	2.0E+001	Pump hp:	5.0E-001
Column len:	2.31E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

**J33
ENE
1/2 - 1 Mile
Lower**

MD WELLS MD600000089896

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Objectid:	89895	County let:	CA
Permit:	CA734101	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	24-JUN-81
City:	DUNKIRK	State:	MD
Zip:	Not Reported	Driller na:	FORD, JAMES E.
Driller id:	MWD0165	Est gpm pr:	5.0E+000
Use for wa:	DW		
Approx dep:	3.8E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	BARBARA PRICE
Section :	Not Reported	Lot:	2
Nearest to:	DUNKIRK	Town dista:	2 MI
Road name:	WARD RD	Road side:	E
Road dista:	4000FT	Tax map:	Not Reported
Block:	Not Reported	Parcel:	Not Reported
N grid27:	325000.00	E grid27:	904000.00
N grid83:	117577.00	E grid83:	431726.00
Lat dec de:	38.73	Lon dec de:	76.64
Issue date:	19-JUN-81	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	07-JUL-81
Completion:	22-JUN-81	Total dept:	3.4E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	CM
Grout top:	4.0E+000	Grout bott:	1.0E+001
Casing typ:	ST	Casing dia:	4.0E+000
Casing dep:	2.94E+002	Casing hei:	+01
Screen typ:	ST	Top screen:	3.3E+002
Bottom scr:	3.4E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	6.0E+000
Pumping ra:	6.0E+001	Level befo:	1.8E+002
Level duri:	2.0E+002	Test pump :	A
Pump insta:	Not Reported	Install pu:	S
Capacity:	1.3E+001	Pump hp:	7.5E-001
Column len:	2.6E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

J34
ENE
1/2 - 1 Mile
Lower

MD WELLS MD6000000418734

Objectid:	418743	County let:	CA
Permit:	CA943083	Mgs id:	Not Reported
B1 seq:	9109	B1 recd:	01-MAY-01
City:	DUNKIRK	State:	MD
Zip:	20754	Driller na:	MICHAEL GRIBBLE
Driller id:	MWD 318	Est gpm pr:	8.0E+000
Use for wa:	DW		
Approx dep:	3.5E+002	Drill meth:	ROTARY
Replacemen:	Y	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	DUNKIRK WOODS

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Section :	1	Lot:	28
Nearest to:	DUNKIRK	Town dista:	1
Road name:	1950 ABERDEEN DR	Road side:	W
Road dista:	30 FT	Tax map:	3
Block:	Not Reported	Parcel:	142
N grid27:	325000.00	E grid27:	904000.00
N grid83:	117577.00	E grid83:	431726.00
Lat dec de:	38.73	Lon dec de:	76.64
Issue date:	01-MAY-01	Special fl:	Not Reported
C1 seq:	6042	C1 recd:	28-JUN-01
Completion:	23-MAY-01	Total dept:	3.07E+002
Num unsucc:	0	Hydrofract:	N
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	6.3E+001
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	2.8E+002	Casing hei:	+1
Screen typ:	PL	Top screen:	2.92E+002
Bottom scr:	3.07E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	2.0E+000
Pumping ra:	2.0E+001	Level befo:	1.6E+002
Level duri:	1.8E+002	Test pump :	A
Pump insta:	Y	Install pu:	S
Capacity:	8.0E+000	Pump hp:	7.5E-001
Column len:	2.3E+002	Closed:	A
Abandoned:	Not Reported	Abandon da:	Not Reported

**35
NE
1/2 - 1 Mile
Lower**

FED USGS USGS40000431388

Org. Identifier:	USGS-MD	Drainagearea value:	Not Reported
Formal name:	USGS Maryland Water Science Center	Contrib drainagearea:	Not Reported
Monloc Identifier:	USGS-384345076381901	Latitude:	38.7292836
Monloc name:	CA Bb 32	Sourcemap scale:	24000
Monloc type:	Well	Horiz Acc measure units:	seconds
Monloc desc:	Not Reported	Vert measure val:	130.00
Huc code:	02060006	Vertacc measure val:	10
Drainagearea Units:	Not Reported	Countrycode:	US
Contrib drainagearea units:	Not Reported		
Longitude:	-76.6382953		
Horiz Acc measure:	5		
Horiz Collection method:	Interpolated from map		
Horiz coord refs:	NAD83		
Vert measure units:	feet		
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refs:	NGVD29		
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Aquia Formation		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Not Reported	Welldepth:	380
Construction date:	19781210	Wellholedepth:	380
Welldepth units:	ft		
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1978-12-10	140.00	

36
West
1/2 - 1 Mile
Higher

MD WELLS MD6000000415590

Objectid:	415589	County let:	CA
Permit:	CA941020	Mgs id:	Not Reported
B1 seq:	1207	B1 recd:	21-APR-98
City:	DUNKIRK	State:	MD
Zip:	20754	Driller na:	RON KINGSBURY
Driller id:	MWD 543	Est gpm pr:	1.0E+001
Use for wa:	DW		
Approx dep:	4.0E+002	Drill meth:	ROTARY
Replacemen:	Y	Replace pe:	CA733719
Wapid:	CA1998G004	Subdivisio:	Not Reported
Section :	Not Reported	Lot:	Not Reported
Nearest to:	DUNKIRK	Town dista:	Not Reported
Road name:	SOUTHERN MD BLVD	Road side:	W
Road dista:	200 FT	Tax map:	6
Block:	Not Reported	Parcel:	194
N grid27:	324037.00	E grid27:	896530.00
N grid83:	117283.00	E grid83:	429449.00
Lat dec de:	38.72	Lon dec de:	76.66
Issue date:	21-APR-98	Special fl:	Not Reported
C1 seq:	2647	C1 recd:	08-MAY-98
Completion:	16-APR-98	Total dept:	3.4E+002
Num unsucc:	0	Hydrofract:	N
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	3.0E+002
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	3.2E+002	Casing hei:	+.6
Screen typ:	PL	Top screen:	3.2E+002
Bottom scr:	3.4E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	Not Reported
Log type:	Not Reported	Hrs pumped:	1.0E+000
Pumping ra:	3.0E+001	Level befo:	1.6E+002
Level duri:	1.9E+002	Test pump :	A
Pump insta:	Y	Install pu:	S
Capacity:	1.3E+001	Pump hp:	1.5E+000
Column len:	2.5E+002	Closed:	A
Abandoned:	Not Reported	Abandon da:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

37
West
1/2 - 1 Mile
Higher

FED USGS USGS40000431347

Org. Identifier:	USGS-MD		
Formal name:	USGS Maryland Water Science Center		
Monloc Identifier:	USGS-384314076394301		
Monloc name:	CA Bb 40		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02060004	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	38.7206726
Longitude:	-76.6616299	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	158
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Aquia Formation		
Aquifer type:	Confined single aquifer		
Construction date:	19910329	Welldepth:	395
Welldepth units:	ft	Wellholedepth:	395
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1991-04-03	183	

K38
WSW
1/2 - 1 Mile
Higher

MD WELLS MD6000000455180

Objectid:	455179	County let:	CA
Permit:	CA944338	Mgs id:	Not Reported
B1 seq:	3378	B1 recd:	07-JAN-03
City:	OWINGS	State:	MD
Zip:	20736	Driller na:	RICHARD WINSLOW
Driller id:	MSD 151	Est gpm pr:	8.0E+000
Use for wa:	I		
Approx dep:	2.5E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	CA2002G021	Subdivisio:	DUNKIRK MARKET PLACE
Section :	Not Reported	Lot:	PARCEL A&
Nearest to:	DUNKIRK	Town dista:	Not Reported
Road name:	10276 SOUTHERN MARYL	Road side:	W
Road dista:	120 FT	Tax map:	6
Block:	3	Parcel:	362
N grid27:	322514.00	E grid27:	896524.00
N grid83:	116819.00	E grid83:	429447.00
Lat dec de:	38.72	Lon dec de:	76.66
Issue date:	07-JAN-03	Special fl:	Not Reported
C1 seq:	7854	C1 recd:	06-MAR-03

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Completion:	19-FEB-03	Total dept:	3.9E+002
Num unsucc:	0	Hydrofract:	N
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	9.0E+001
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	3.6E+002	Casing hei:	+1
Screen typ:	PL	Top screen:	3.6E+002
Bottom scr:	3.8E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	Not Reported
Log type:	Not Reported	Hrs pumped:	3.0E+000
Pumping ra:	3.0E+001	Level befo:	2.0E+002
Level duri:	2.24E+002	Test pump :	A
Pump insta:	Y	Install pu:	S
Capacity:	7.0E+000	Pump hp:	1.0E+000
Column len:	2.8E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

**H39
WNW
1/2 - 1 Mile
Higher**

FED USGS USGS40000431365

Org. Identifier:	USGS-MD		
Formal name:	USGS Maryland Water Science Center		
Monloc Identifier:	USGS-384326076394301		
Monloc name:	CA Bb 26		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02060006	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	38.7240058
Longitude:	-76.6616299	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	140.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Magothy Formation		
Aquifer type:	Not Reported		
Construction date:	19790603	Welldepth:	531
Welldepth units:	ft	Wellholedepth:	531
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1979-06-03	120.00	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

K40
WSW
1/2 - 1 Mile
Higher

MD WELLS MD6000000420217

Objectid:	420226	County let:	CA
Permit:	CA943466	Mgs id:	Not Reported
B1 seq:	6035	B1 recd:	07-NOV-01
City:	HUNTINGTOWN	State:	MD
Zip:	20639	Driller na:	MICHAEL GRIBBLE
Driller id:	MWD 318	Est gpm pr:	3.6E+001
Use for wa:	I		
Approx dep:	3.5E+002	Drill meth:	ROTARY
Replacem:	N	Replace pe:	Not Reported
Wapid:	CA2000G014	Subdivisio:	DUNKIRK COMMERCIAL P
Section :	Not Reported	Lot:	5
Nearest to:	DUNKIRK	Town dista:	.25
Road name:	3170 W WARD	Road side:	W
Road dista:	300 FT	Tax map:	6
Block:	2	Parcel:	433
N grid27:	322186.00	E grid27:	896592.00
N grid83:	116719.00	E grid83:	429468.00
Lat dec de:	38.72	Lon dec de:	76.66
Issue date:	07-NOV-01	Special fl:	Not Reported
C1 seq:	0941	C1 recd:	01-OCT-02
Completion:	14-JUL-02	Total dept:	3.5E+002
Num unsucc:	0	Hydrofract:	N
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	6.3E+001
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	3.1E+002	Casing hei:	+1
Screen typ:	PL	Top screen:	3.2E+002
Bottom scr:	3.5E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	2.0E+000
Pumping ra:	6.0E+001	Level befo:	1.7E+002
Level duri:	1.9E+002	Test pump :	A
Pump insta:	Y	Install pu:	S
Capacity:	3.3E+001	Pump hp:	5.0E-001
Column len:	2.73E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

I41
WSW
1/2 - 1 Mile
Higher

MD WELLS MD6000000348290

Objectid:	348289	County let:	CA
Permit:	CA884576	Mgs id:	Not Reported
B1 seq:	6256	B1 recd:	24-JAN-95
City:	SILVER SPRING	State:	MD
Zip:	20901	Driller na:	MICHAEL K GRIBBLE
Driller id:	MWD 318	Est gpm pr:	1.0E+001
Use for wa:	I		
Approx dep:	3.5E+002	Drill meth:	ROTARY
Replacem:	Y	Replace pe:	Not Reported
Wapid:	CA1995G005	Subdivisio:	COUNTRY PLAZA

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Section :	Not Reported	Lot:	Not Reported
Nearest to:	DUNKIRK	Town dista:	1
Road name:	ROUTE 4 SOUTH	Road side:	W
Road dista:	75 FT	Tax map:	6
Block:	3	Parcel:	158
N grid27:	321317.00	E grid27:	897019.00
N grid83:	116454.00	E grid83:	429598.00
Lat dec de:	38.72	Lon dec de:	76.66
Issue date:	24-JAN-95	Special fl:	Y
C1 seq:	2345	C1 recd:	03-APR-95
Completion:	01-FEB-95	Total dept:	3.72E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	1.26E+002
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	3.35E+002	Casing hei:	+1
Screen typ:	PL	Top screen:	3.62E+002
Bottom scr:	3.72E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	2.0E+000
Pumping ra:	2.0E+001	Level befo:	1.4E+002
Level duri:	1.6E+002	Test pump :	A
Pump insta:	Y	Install pu:	S
Capacity:	9.0E+000	Pump hp:	1.0E+000
Column len:	2.2E+002	Closed:	A
Abandoned:	Not Reported	Abandon da:	Not Reported

**L42
SW
1/2 - 1 Mile
Lower**

MD WELLS MD6000000356070

Objectid:	356069	County let:	CA
Permit:	CA920916	Mgs id:	Not Reported
B1 seq:	5947	B1 recd:	10-JUL-96
City:	OWINGS	State:	MD
Zip:	20736	Driller na:	MICHAEL K GRIBBLE
Driller id:	MWD 318	Est gpm pr:	8.0E+000
Use for wa:	DW		
Approx dep:	3.5E+002	Drill meth:	ROTARY
Replacemen:	Y	Replace pe:	Not Reported
Wapid:	CA1996G039	Subdivisio:	MABLE HANKINS PROP
Section :	Not Reported	Lot:	2R
Nearest to:	DUNKIRK	Town dista:	.5
Road name:	9880 SOUTHERN MD BLV	Road side:	W
Road dista:	75 FT	Tax map:	6
Block:	9	Parcel:	295
N grid27:	320601.00	E grid27:	897611.00
N grid83:	116236.00	E grid83:	429779.00
Lat dec de:	38.71	Lon dec de:	76.66
Issue date:	26-JUL-96	Special fl:	Not Reported
C1 seq:	5182	C1 recd:	15-AUG-96

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Completion:	18-JUL-96	Total dept:	3.33E+002
Num unsucc:	0	Hydrofract:	N
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	6.3E+001
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	3.08E+002	Casing hei:	+1
Screen typ:	PL	Top screen:	3.23E+002
Bottom scr:	3.33E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	1.0E+000
Pumping ra:	2.0E+001	Level befo:	1.5E+002
Level duri:	1.75E+002	Test pump :	A
Pump insta:	Y	Install pu:	S
Capacity:	1.2E+001	Pump hp:	1.5E+000
Column len:	2.4E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

**K43
WSW
1/2 - 1 Mile
Higher**

MD WELLS MD6000000478763

Objectid:	478762	County let:	CA
Permit:	CA945439	Mgs id:	Not Reported
B1 seq:	7243	B1 recd:	02-DEC-04
City:	OWINGS	State:	MD
Zip:	20736	Driller na:	CURTIS WINSLOW
Driller id:	MSD 150	Est gpm pr:	8.0E+000
Use for wa:	DW		
Approx dep:	4.0E+002	Drill meth:	ROTARY
Replacemen:	Y	Replace pe:	Not Reported
Wapid:	CA2002G016	Subdivisio:	DUNKIRK VFD PROP
Section :	Not Reported	Lot:	1
Nearest to:	DUNKIRK	Town dista:	Not Reported
Road name:	10205 KIRKSVILLE LN	Road side:	E
Road dista:	128 FT	Tax map:	6
Block:	Not Reported	Parcel:	433
N grid27:	322327.00	E grid27:	896478.00
N grid83:	116762.00	E grid83:	429433.00
Lat dec de:	38.72	Lon dec de:	76.66
Issue date:	02-DEC-04	Special fl:	Not Reported
C1 seq:	1576	C1 recd:	05-APR-05
Completion:	14-MAR-05	Total dept:	3.7E+002
Num unsucc:	0	Hydrofract:	N
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	8.0E+001
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	3.3E+002	Casing hei:	+1
Screen typ:	PL	Top screen:	3.3E+002
Bottom scr:	3.5E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	Not Reported
Log type:	Not Reported	Hrs pumped:	3.0E+000
Pumping ra:	2.5E+001	Level befo:	1.95E+002
Level duri:	3.0E+002	Test pump :	A
Pump insta:	Y	Install pu:	S
Capacity:	1.3E+001	Pump hp:	3.0E+000
Column len:	3.15E+002	Closed:	A
Abandoned:	Not Reported	Abandon da:	Not Reported

K44
WSW
1/2 - 1 Mile
Higher

MD WELLS MD6000000479203

Objectid:	479202	County let:	CA
Permit:	CA945443	Mgs id:	Not Reported
B1 seq:	7244	B1 recd:	02-DEC-04
City:	OWINGS	State:	MD
Zip:	20736	Driller na:	CURTIS WINSLOW
Driller id:	MSD 150	Est gpm pr:	8.0E+000
Use for wa:	I		
Approx dep:	4.0E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	CA2002G016	Subdivisio:	DUNKIRK VFD PROP
Section :	Not Reported	Lot:	1
Nearest to:	DUNKIRK	Town dista:	Not Reported
Road name:	10205 KIRKSVILLE LN	Road side:	N
Road dista:	130 FT	Tax map:	6
Block:	Not Reported	Parcel:	433
N grid27:	322347.00	E grid27:	896468.00
N grid83:	116768.00	E grid83:	429430.00
Lat dec de:	38.72	Lon dec de:	76.66
Issue date:	02-DEC-04	Special fl:	Y
C1 seq:	1580	C1 recd:	05-APR-05
Completion:	16-MAR-05	Total dept:	3.75E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	1.0E+002
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	3.5E+002	Casing hei:	+1
Screen typ:	PL	Top screen:	3.5E+002
Bottom scr:	3.7E+002	Screen t 1 :	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	Not Reported
Log type:	Not Reported	Hrs pumped:	3.0E+000
Pumping ra:	1.5E+001	Level befo:	1.95E+002
Level duri:	3.0E+002	Test pump :	A
Pump insta:	Y	Install pu:	S
Capacity:	1.3E+001	Pump hp:	3.0E+000
Column len:	3.15E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

L45
SW
1/2 - 1 Mile
Lower

FED USGS USGS40000431302

Org. Identifier:	USGS-MD		
Formal name:	USGS Maryland Water Science Center		
Monloc Identifier:	USGS-384248076393001		
Monloc name:	CA Bb 22		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02060006	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	38.7134506
Longitude:	-76.6580185	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	120.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Aquia Formation		
Aquifer type:	Not Reported		
Construction date:	1959	Welldepth:	315
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1959-09-01	96.00	

46
WSW
1/2 - 1 Mile
Higher

MD WELLS MD600000088907

Objectid:	88906	County let:	CA
Permit:	CA732866	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	24-AUG-78
City:	DUNKIRK	State:	MD
Zip:	Not Reported	Driller na:	KANARR, PAUL E
Driller id:	MWD0243	Est gpm pr:	1.7E+001
Use for wa:	I		
Approx dep:	3.5E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	CA1995G005	Subdivisio:	Not Reported
Section :	Not Reported	Lot:	Not Reported
Nearest to:	DUNKIRK	Town dista:	0 MI
Road name:	MD RT 4	Road side:	W
Road dista:	250 FT	Tax map:	6
Block:	3	Parcel:	158
N grid27:	321829.00	E grid27:	896651.00
N grid83:	116610.00	E grid83:	429486.00
Lat dec de:	38.72	Lon dec de:	76.66
Issue date:	15-AUG-78	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	09-OCT-78

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Completion:	11-SEP-78	Total dept:	3.2E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	CM
Grout top:	0	Grout bott:	2.0E+001
Casing typ:	ST	Casing dia:	4.0E+000
Casing dep:	2.52E+002	Casing hei:	+01
Screen typ:	ST	Top screen:	3.05E+002
Bottom scr:	3.2E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	1.0E+000
Pumping ra:	2.0E+001	Level befo:	1.1E+002
Level duri:	1.48E+002	Test pump :	S
Pump insta:	Not Reported	Install pu:	S
Capacity:	7.0E+000	Pump hp:	1.0E+000
Column len:	1.89E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

47
WNW
1/2 - 1 Mile
Higher

MD WELLS MD6000000089121

Objectid:	89120	County let:	CA
Permit:	CA733129	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	13-MAR-79
City:	PRINCE FREDERICK	State:	MD
Zip:	Not Reported	Driller na:	E COAST WELL & PUMP
Driller id:	MWD0173	Est gpm pr:	2.5E+001
Use for wa:	I		
Approx dep:	5.0E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	CA1979G004	Subdivisio:	DUNKIRK PARK
Section :	Not Reported	Lot:	Not Reported
Nearest to:	DUNKIRK	Town dista:	MI
Road name:	MD 4 SO MD BLVD	Road side:	Not Reported
Road dista:	400 FT	Tax map:	3
Block:	20,21	Parcel:	21
N grid27:	324812.00	E grid27:	896373.00
N grid83:	117519.00	E grid83:	429401.00
Lat dec de:	38.72	Lon dec de:	76.66
Issue date:	05-MAR-79	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	05-OCT-79
Completion:	03-JUN-79	Total dept:	5.12E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	CM
Grout top:	6.0E+000	Grout bott:	1.4E+002
Casing typ:	ST	Casing dia:	4.0E+000
Casing dep:	4.97E+002	Casing hei:	+01
Screen typ:	ST	Top screen:	4.97E+002
Bottom scr:	5.12E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Bottom s 2:	0	Screen dia:	3.0E+000
Flowing we:	Not Reported	Telescopin:	Not Reported
Log type:	Not Reported	Hrs pumped:	1.2E+001
Pumping ra:	6.0E+001	Level befo:	1.2E+002
Level duri:	1.8E+002	Test pump :	A
Pump insta:	Not Reported	Install pu:	S
Capacity:	2.5E+001	Pump hp:	5.0E+000
Column len:	1.89E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

48
SW
1/2 - 1 Mile
Higher

MD WELLS MD6000000094874

Objectid:	94873	County let:	CA
Permit:	CA881162	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	15-NOV-89
City:	OWINGS	State:	MD
Zip:	20736	Driller na:	WILLIAM DALRYMPLE
Driller id:	MWD0476	Est gpm pr:	8.0E+000
Use for wa:	I		
Approx dep:	3.5E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	CA1989G022	Subdivisio:	Not Reported
Section :	Not Reported	Lot:	Not Reported
Nearest to:	DUNDKIRK	Town dista:	1
Road name:	RT 2&4	Road side:	W
Road dista:	170 FT	Tax map:	6
Block:	Not Reported	Parcel:	127
N grid27:	320904.00	E grid27:	897163.00
N grid83:	116328.00	E grid83:	429642.00
Lat dec de:	38.71	Lon dec de:	76.66
Issue date:	05-DEC-89	Special fl:	Not Reported
C1 seq:	6097	C1 recd:	20-APR-90
Completion:	14-MAR-90	Total dept:	3.6E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	3.0E+001
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	3.4E+002	Casing hei:	+1
Screen typ:	PL	Top screen:	3.4E+002
Bottom scr:	3.6E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	Not Reported
Log type:	Not Reported	Hrs pumped:	3.0E+000
Pumping ra:	8.0E+001	Level befo:	1.64E+002
Level duri:	1.75E+002	Test pump :	S
Pump insta:	Y	Install pu:	S
Capacity:	7.0E+000	Pump hp:	1.5E+000
Column len:	3.0E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

K49
WSW
1/2 - 1 Mile
Higher

MD WELLS MD6000000463865

Objectid:	463864	County let:	Not Reported
Permit:	CA944493	Mgs id:	Not Reported
B1 seq:	1010	B1 recd:	31-MAR-03
City:	DUNKIRK	State:	MD
Zip:	20754	Driller na:	MICHAEL GRIBBLE
Driller id:	MWD 318	Est gpm pr:	1.8E+001
Use for wa:	I		
Approx dep:	3.5E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	CA2000G015	Subdivisio:	ARBYS RESTURANT
Section :	Not Reported	Lot:	2
Nearest to:	DUNKIRK	Town dista:	.75
Road name:	10200 KIRKSVILLE LAN	Road side:	S
Road dista:	20 FT	Tax map:	6
Block:	3	Parcel:	433
N grid27:	322318.00	E grid27:	896386.00
N grid83:	116759.00	E grid83:	429405.00
Lat dec de:	38.72	Lon dec de:	76.66
Issue date:	31-MAR-03	Special fl:	Not Reported
C1 seq:	2919	C1 recd:	23-SEP-03
Completion:	07-JUL-03	Total dept:	3.84E+002
Num unsucc:	0	Hydrofract:	N
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	6.3E+001
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	3.6E+002	Casing hei:	+1
Screen typ:	PL	Top screen:	3.71E+002
Bottom scr:	3.84E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	2.0E+000
Pumping ra:	2.0E+001	Level befo:	2.2E+002
Level duri:	0	Test pump :	A
Pump insta:	Y	Install pu:	S
Capacity:	1.0E+001	Pump hp:	1.5E+000
Column len:	3.0E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

50
NE
1/2 - 1 Mile
Lower

MD WELLS MD6000000090801

Objectid:	90800	County let:	CA
Permit:	CA810675	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	08-DEC-83
City:	DUNKIRK	State:	MD
Zip:	20754	Driller na:	WARD, WILLARD C.
Driller id:	MWD0053	Est gpm pr:	1.0E+001
Use for wa:	DW		
Approx dep:	3.25E+002	Drill meth:	ROTARY
Replacemen:	S	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	DUNKIRK WOODS

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Section :	Not Reported	Lot:	20
Nearest to:	DUNKIRK	Town dista:	1.3 MI
Road name:	DUMBARTON DR	Road side:	E
Road dista:	200 FT	Tax map:	Not Reported
Block:	Not Reported	Parcel:	Not Reported
N grid27:	327000.00	E grid27:	903000.00
N grid83:	118186.00	E grid83:	431421.00
Lat dec de:	38.73	Lon dec de:	76.64
Issue date:	30-NOV-83	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	03-JAN-84
Completion:	22-DEC-83	Total dept:	3.22E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	CM
Grout top:	3.0E+000	Grout bott:	3.0E+001
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	2.8E+002	Casing hei:	+01
Screen typ:	ST	Top screen:	3.12E+002
Bottom scr:	3.22E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	3.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	8.0E+000
Pumping ra:	2.0E+001	Level befo:	1.22E+002
Level duri:	1.32E+002	Test pump :	A
Pump insta:	Not Reported	Install pu:	S
Capacity:	1.0E+001	Pump hp:	5.0E-001
Column len:	1.68E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

**M51
ENE
1/2 - 1 Mile
Lower**

MD WELLS MD6000000091692

Objectid:	91691	County let:	CA
Permit:	CA811738	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	04-SEP-85
City:	DUNKIRK	State:	MD
Zip:	20754	Driller na:	WARD, WILLARD C.
Driller id:	MWD0053	Est gpm pr:	1.0E+001
Use for wa:	DW		
Approx dep:	3.25E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	DUNKIRK FIELDS
Section :	2	Lot:	2
Nearest to:	DUNKIRK	Town dista:	1.2 MI
Road name:	WARD RD	Road side:	E
Road dista:	1000FT	Tax map:	Not Reported
Block:	Not Reported	Parcel:	Not Reported
N grid27:	326000.00	E grid27:	904000.00
N grid83:	117881.00	E grid83:	431726.00
Lat dec de:	38.73	Lon dec de:	76.64
Issue date:	20-AUG-85	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	03-OCT-85

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Completion:	12-SEP-85	Total dept:	3.22E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	CM
Grout top:	3.0E+000	Grout bott:	3.0E+001
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	2.62E+002	Casing hei:	+01
Screen typ:	ST	Top screen:	3.12E+002
Bottom scr:	3.22E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	3.0E+000
Flowing we:	Not Reported	Telescopin:	Not Reported
Log type:	Not Reported	Hrs pumped:	4.0E+000
Pumping ra:	3.0E+001	Level befo:	1.07E+002
Level duri:	1.17E+002	Test pump :	A
Pump insta:	Not Reported	Install pu:	S
Capacity:	1.0E+001	Pump hp:	7.5E-001
Column len:	1.64E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

M52
ENE
1/2 - 1 Mile
Lower

MD WELLS MD6000000092867

Objectid:	92866	County let:	CA
Permit:	CA813164	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	30-APR-87
City:	DUNKIRK	State:	MD
Zip:	20754	Driller na:	GRIBBLE, MICHAEL K.
Driller id:	MWD0318	Est gpm pr:	8.0E+000
Use for wa:	DW	Drill meth:	ROTARY
Approx dep:	3.5E+002	Replace pe:	Not Reported
Replacemen:	Y	Subdivisio:	DUNKIRK WOODS
Wapid:	Not Reported	Lot:	40
Section :	Not Reported	Town dista:	2 MI
Nearest to:	DUNKIRK	Road side:	S
Road name:	EDINBURGH LA	Tax map:	Not Reported
Road dista:	70 FT	Parcel:	Not Reported
Block:	Not Reported	E grid27:	904000.00
N grid27:	326000.00	E grid83:	431726.00
N grid83:	117881.00	Lon dec de:	76.64
Lat dec de:	38.73	Special fl:	Not Reported
Issue date:	01-MAY-87	C1 recd:	01-JUN-87
C1 seq:	Not Reported	Total dept:	3.3E+002
Completion:	06-MAY-87	Hydrofract:	Not Reported
Num unsucc:	0	Grout type:	CM
Grouted:	Y	Grout bott:	5.0E+001
Grout top:	0	Casing dia:	4.0E+000
Casing typ:	PL	Casing hei:	+01
Casing dep:	2.7E+002	Top screen:	3.2E+002
Screen typ:	PL	Screen t 1:	Not Reported
Bottom scr:	3.3E+002	Bottom s 1:	0
Top scre 1:	0	Top scre 2:	0
Screen t 2:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	1.0E+000
Pumping ra:	1.8E+001	Level befo:	1.25E+002
Level duri:	1.51E+002	Test pump :	A
Pump insta:	Not Reported	Install pu:	S
Capacity:	8.0E+000	Pump hp:	7.5E-001
Column len:	2.15E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

**N53
West
1/2 - 1 Mile
Higher**

MD WELLS MD6000000095595

Objectid:	95594	County let:	CA
Permit:	CA882052	Mgs id:	Not Reported
B1 seq:	8952	B1 recd:	12-MAR-91
City:	WASHINGTON	State:	DC
Zip:	20017	Driller na:	GRIBBLE, MICHAEL K.
Driller id:	MWD0318	Est gpm pr:	3.0E+001
Use for wa:	T		
Approx dep:	5.0E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	CA1990G008	Subdivisio:	Not Reported
Section :	Not Reported	Lot:	Not Reported
Nearest to:	DUNKIRK	Town dista:	.25 MI
Road name:	RT 4 & FERRY LANDING RD	Road side:	W
Road dista:	75 FT	Tax map:	6
Block:	2,3	Parcel:	362
N grid27:	322852.00	E grid27:	896058.00
N grid83:	116922.00	E grid83:	429305.00
Lat dec de:	38.72	Lon dec de:	76.66
Issue date:	21-MAR-91	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	12-APR-91
Completion:	29-MAR-91	Total dept:	5.8E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	1.0E+002
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	5.2E+002	Casing hei:	+01
Screen typ:	ST	Top screen:	3.65E+002
Bottom scr:	3.95E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	2.0E+000
Pumping ra:	3.5E+001	Level befo:	1.94E+002
Level duri:	2.29E+002	Test pump :	A
Pump insta:	Not Reported	Install pu:	S
Capacity:	3.0E+001	Pump hp:	5.0E+001
Column len:	2.94E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

N54
West
1/2 - 1 Mile
Higher

MD WELLS MD6000000091443

Objectid:	91442	County let:	CA
Permit:	CA811458	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	24-APR-85
City:	DUNKIRK	State:	MD
Zip:	20754	Driller na:	GRIBBLE, MICHAEL K.
Driller id:	MWD0318	Est gpm pr:	8.0E+000
Use for wa:	I		
Approx dep:	3.5E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	CA1985G004	Subdivisio:	Not Reported
Section :	Not Reported	Lot:	Not Reported
Nearest to:	DUNKIRK	Town dista:	.3 MI
Road name:	RT 4	Road side:	E
Road dista:	150 FT	Tax map:	Not Reported
Block:	Not Reported	Parcel:	Not Reported
N grid27:	323000.00	E grid27:	896000.00
N grid83:	0.00	E grid83:	429287.00
Lat dec de:	38.72	Lon dec de:	76.66
Issue date:	15-APR-85	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	30-DEC-86
Completion:	14-JUL-85	Total dept:	2.7E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	CM
Grout top:	0	Grout bott:	5.0E+001
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	1.8E+002	Casing hei:	+01
Screen typ:	PL	Top screen:	2.6E+002
Bottom scr:	2.7E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	1.0E+000
Pumping ra:	2.5E+001	Level befo:	9.0E+001
Level duri:	1.2E+002	Test pump :	A
Pump insta:	Not Reported	Install pu:	S
Capacity:	8.0E+000	Pump hp:	7.5E-001
Column len:	1.8E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

N55
West
1/2 - 1 Mile
Higher

MD WELLS MD6000000093103

Objectid:	93102	County let:	CA
Permit:	CA813465	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	15-AUG-87
City:	CHURCHTON	State:	MD
Zip:	20733	Driller na:	GRIBBLE, MICHAEL K.
Driller id:	MWD0318	Est gpm pr:	8.0E+000
Use for wa:	I		
Approx dep:	3.5E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	CA1987G012	Subdivisio:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Section :	Not Reported	Lot:	Not Reported
Nearest to:	DUNKIRK	Town dista:	0 MI
Road name:	RT 2-4	Road side:	W
Road dista:	70 FT	Tax map:	Not Reported
Block:	Not Reported	Parcel:	Not Reported
N grid27:	323000.00	E grid27:	896000.00
N grid83:	116967.00	E grid83:	429287.00
Lat dec de:	38.72	Lon dec de:	76.66
Issue date:	15-SEP-87	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	Not Reported
Completion:	Not Reported	Total dept:	0
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Not Reported	Grout type:	Not Reported
Grout top:	0	Grout bott:	0
Casing typ:	Not Reported	Casing dia:	0
Casing dep:	0	Casing hei:	+00
Screen typ:	Not Reported	Top screen:	0
Bottom scr:	0	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	0
Flowing we:	Not Reported	Telescopin:	Not Reported
Log type:	Not Reported	Hrs pumped:	0
Pumping ra:	0	Level befo:	0
Level duri:	0	Test pump :	Not Reported
Pump insta:	Not Reported	Install pu:	Not Reported
Capacity:	0	Pump hp:	0
Column len:	0	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

O56
WSW
1/2 - 1 Mile
Higher

MD WELLS MD6000000343851

Objectid:	343850	County let:	CA
Permit:	CA882731	Mgs id:	Not Reported
B1 seq:	1068	B1 recd:	30-MAR-92
City:	WASHINGTON	State:	DC
Zip:	20017	Driller na:	GRIBBLE MICHAEL K.
Driller id:	MWD318	Est gpm pr:	3.0E+001
Use for wa:	I		
Approx dep:	5.0E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	CA1992G024	Subdivisio:	SAFEWAY
Section :	Not Reported	Lot:	WELL #2
Nearest to:	DUNKIRK	Town dista:	.25 MI
Road name:	RT 4 & FERRYLANDING RD	Road side:	W
Road dista:	80 FT	Tax map:	6
Block:	3	Parcel:	409
N grid27:	322360.00	E grid27:	896048.00
N grid83:	116772.00	E grid83:	429302.00
Lat dec de:	38.72	Lon dec de:	76.66
Issue date:	Not Reported	Special fl:	Not Reported
C1 seq:	2260	C1 recd:	14-OCT-04

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Completion:	05-MAY-92	Total dept:	3.95E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	8.0E+001
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	3.2E+002	Casing hei:	+1
Screen typ:	ST	Top screen:	3.42E+002
Bottom scr:	3.72E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	5.0E+000
Pumping ra:	3.5E+001	Level befo:	1.5E+002
Level duri:	1.8E+002	Test pump :	S
Pump insta:	Y	Install pu:	S
Capacity:	3.0E+001	Pump hp:	5.0E+000
Column len:	2.5E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

**O57
WSW
1/2 - 1 Mile
Higher**

MD WELLS MD6000000392573

Objectid:	392572	County let:	CA
Permit:	CA940696	Mgs id:	Not Reported
B1 seq:	2354	B1 recd:	07-OCT-97
City:	UPPER MARLBOR	State:	MD
Zip:	20772	Driller na:	MICHAEL K GRIBBLE
Driller id:	MWD 318	Est gpm pr:	8.0E+000
Use for wa:	I		
Approx dep:	3.5E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	CA2005G018	Subdivisio:	DUNKIRK MARKET PLACE
Section :	Not Reported	Lot:	Not Reported
Nearest to:	DUNKIRK	Town dista:	.25
Road name:	RT 4 & FERRYLANDING	Road side:	S
Road dista:	Not Reported	Tax map:	6
Block:	3	Parcel:	362
N grid27:	322265.00	E grid27:	896048.00
N grid83:	116743.00	E grid83:	429302.00
Lat dec de:	38.72	Lon dec de:	76.66
Issue date:	07-OCT-97	Special fl:	Not Reported
C1 seq:	8206	C1 recd:	21-AUG-98
Completion:	22-APR-98	Total dept:	3.15E+002
Num unsucc:	0	Hydrofract:	N
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	1.05E+002
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	3.0E+002	Casing hei:	+1
Screen typ:	PL	Top screen:	3.0E+002
Bottom scr:	3.15E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0

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Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	2.0E+000
Pumping ra:	2.8E+001	Level befo:	1.75E+002
Level duri:	2.0E+002	Test pump :	A
Pump insta:	Y	Install pu:	S
Capacity:	1.8E+001	Pump hp:	2.0E+000
Column len:	2.52E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

P58
WNW
1/2 - 1 Mile
Higher

FED USGS USGS40000431374

Org. Identifier:	USGS-MD		
Formal name:	USGS Maryland Water Science Center		
Monloc Identifier:	USGS-384333076394702		
Monloc name:	CA Bb 28		
Monloc type:	Well		
Monloc desc:	C16 was 138.67. FMG 7/10. MDWatResAdm surv 11/87.		
Huc code:	02060006	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	38.7259502
Longitude:	-76.6627411	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	138.80
Vert measure units:	feet	Vertacc measure val:	.01
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Nanjemoy Formation		
Aquifer type:	Not Reported		
Construction date:	19800611	Welldepth:	170
Welldepth units:	ft	Wellholedepth:	200
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 283

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2005-01-18	83.77		2004-09-24	83.80	
2004-07-30	82.77		2004-04-14	80.82	
2004-03-16	80.47		2004-02-11	80.08	
2004-01-14	80.00		2003-12-15	80.10	
2003-11-19	80.24		2003-10-27	80.32	
2003-09-24	80.15		2003-08-27	79.98	
2003-07-23	79.62		2003-06-24	79.51	
2003-05-28	79.55		2003-04-23	79.78	
2003-03-26	80.61		2003-02-26	81.72	
2003-01-29	82.27		2002-12-19	83.56	
2002-11-26	84.32		2002-10-28	85.09	
2002-09-25	84.97		2002-08-28	84.62	
2002-07-29	83.64		2002-06-27	82.95	
2002-05-31	82.51		2002-04-26	82.53	
2002-03-22	82.54		2002-02-25	82.61	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2002-01-29	82.40		2001-12-18	82.07	
2001-11-27	82.98		2001-10-29	81.68	
2001-09-26	81.03		2001-08-28	80.73	
2001-07-17	80.12		2001-06-27	79.65	
2001-05-31	79.31		2001-04-23	79.25	
2001-03-22	79.88		2001-02-15	80.16	
2001-01-08	80.35		2000-12-14	80.49	
2000-11-28	80.21		2000-10-18	80.17	
2000-09-12	80.77		2000-08-08	80.57	
2000-07-18	80.38		2000-06-21	80.08	
2000-05-23	79.89		2000-04-26	80.21	
2000-03-08	80.95		2000-02-24	80.97	
2000-01-14	81.13		1999-12-14	81.21	
1999-11-17	81.86		1999-10-13	82.67	
1999-09-22	83.34		1999-08-24	83.85	
1999-07-20	82.73		1999-06-02	81.99	
1999-05-06	81.84		1999-04-08	82.05	
1999-03-02	82.70		1999-02-10	82.95	
1999-01-05	83.03		1998-12-08	82.83	
1998-11-05	82.20		1998-10-07	81.19	
1998-09-09	80.03		1998-08-27	79.46	
1998-07-10	77.65		1998-06-10	77.05	
1998-05-04	76.55		1998-04-06	76.85	
1998-03-17	77.67		1998-02-03	79.48	
1998-01-12	79.97		1997-12-04	80.19	
1997-11-18	80.57		1997-10-21	80.66	
1997-09-16	79.95		1997-08-28	79.54	
1997-07-08	78.65		1997-06-27	78.38	
1997-05-06	77.64		1997-04-08	77.55	
1997-03-18	77.67		1997-02-06	77.88	
1997-01-07	78.13		1996-12-10	78.61	
1996-11-06	79.31		1996-10-01	79.13	
1996-09-18	78.94		1996-08-27	78.85	
1996-07-10	78.66		1996-06-04	78.42	
1996-05-08	78.65		1996-04-03	79.44	
1996-03-12	79.82		1996-02-13	80.16	
1996-01-25	80.43		1995-12-12	81.08	
1995-11-03	81.34		1995-10-06	81.20	
1995-09-12	80.90		1995-08-16	80.08	
1995-07-12	79.59		1995-06-07	79.49	
1995-05-09	79.50		1995-04-11	79.66	
1995-03-01	79.81		1995-02-08	79.79	
1995-01-13	80.06		1994-12-08	80.07	
1994-11-04	79.91		1994-10-14	79.76	
1994-09-16	79.73		1994-08-12	79.33	
1994-07-19	78.55		1994-06-17	78.45	
1994-05-12	77.65		1994-04-15	78.19	
1994-03-04	79.56		1994-02-04	80.40	
1994-01-07	80.25		1993-12-03	80.98	
1993-11-04	80.78		1993-10-08	80.40	
1993-09-09	79.88		1993-08-02	78.78	
1993-07-09	78.35		1993-06-04	77.50	
1993-05-07	77.54		1993-04-09	76.95	
1993-03-04	78.57		1993-02-05	79.04	
1993-01-08	79.18		1992-12-11	79.34	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1992-11-06	79.60		1992-10-09	79.64	
1992-09-03	79.66		1992-08-07	79.58	
1992-07-10	79.37		1992-06-05	79.01	
1992-05-15	79.06		1992-04-10	79.40	
1992-03-06	79.93		1992-02-07	79.93	
1992-01-10	80.19		1991-12-13	80.45	
1991-11-08	80.60		1991-10-04	80.33	
1991-09-13	80.15		1991-08-15	79.16	
1991-07-09	79.02		1991-06-13	78.68	
1991-05-09	78.25		1991-04-12	78.38	
1991-03-06	78.40		1991-02-07	78.52	
1991-01-17	78.69		1990-12-07	78.97	
1990-11-08	78.50		1990-10-19	78.25	
1990-09-01	78.31		1990-08-01	78.24	
1990-07-10	77.93		1990-06-12	77.98	
1990-05-09	77.89		1990-04-09	77.87	
1990-03-07	78.02		1990-02-07	77.88	
1990-01-04	77.85		1989-12-06	78.07	
1989-11-01	78.22		1989-10-11	78.38	
1989-09-12	78.48		1989-08-09	78.13	
1989-07-11	78.03		1989-06-14	78.32	
1989-05-09	78.95		1989-04-11	79.47	
1989-03-01	80.34		1989-02-07	80.61	
1989-01-17	80.76		1988-12-06	81.04	
1988-11-01	81.08		1988-10-11	80.94	
1988-09-14	80.62		1988-08-03	79.97	
1988-07-12	79.73		1988-06-01	79.13	
1988-05-03	79.30		1988-04-12	79.37	
1988-03-01	79.91		1988-02-03	80.40	
1988-01-06	80.74		1987-12-02	80.75	
1987-11-04	80.67		1987-10-06	80.25	
1987-09-11	80.06		1987-08-05	80.42	
1987-07-08	78.67		1987-06-03	79.02	
1987-05-05	79.37		1987-03-04	79.07	
1987-02-10	79.40		1987-01-06	80.19	
1986-12-03	80.75		1986-11-12	79.98	
1986-10-15	80.74		1986-08-06	80.09	
1986-07-09	79.65		1986-06-04	80.19	
1986-05-14	78.96		1986-04-02	78.73	
1986-03-04	77.91		1986-01-31	79.09	
1986-01-03	78.50		1985-12-03	79.34	
1985-11-13	78.96		1985-10-08	79.97	
1985-09-11	79.76		1985-08-06	79.94	
1985-07-10	79.66		1985-06-12	79.33	
1985-04-03	79.23		1985-03-05	79.46	
1985-02-12	79.47		1985-01-09	79.46	
1984-12-10	79.60		1984-10-31	79.34	
1984-10-09	79.40		1984-09-11	79.06	
1984-08-08	78.52		1984-07-11	78.02	
1984-06-11	77.81		1984-04-03	78.03	
1984-03-07	77.86		1984-02-01	78.67	
1984-01-12	78.88		1983-11-16	79.55	
1983-10-03	79.43		1983-09-07	78.93	
1983-08-09	78.25		1983-07-20	78.11	
1983-06-07	77.60		1983-05-02	78.07	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1983-03-31	78.72		1983-03-02	79.23	
1983-02-03	79.32		1983-01-06	79.62	
1982-11-24	79.80		1982-11-02	79.89	
1982-10-04	79.85		1982-09-03	79.70	
1982-08-03	79.47		1982-07-07	79.49	
1982-06-02	79.44		1982-05-03	79.83	
1982-04-02	80.08		1982-03-03	80.59	
1982-02-01	80.96		1982-01-05	81.18	
1981-12-02	81.03		1981-11-05	81.07	
1981-10-02	80.80		1981-08-04	80.38	
1981-07-01	80.26		1981-06-01	80.33	
1981-05-01	80.51		1981-04-03	80.38	
1981-03-02	80.59		1981-02-06	79.12	
1980-12-16	80.72		1980-10-31	80.44	
1980-10-03	80.07		1980-09-02	79.71	
1980-08-04	79.31		1980-07-07	78.96	
1980-06-23	97				

**P59
WNW
1/2 - 1 Mile
Higher**

FED USGS USGS40000431373

Org. Identifier:	USGS-MD		
Formal name:	USGS Maryland Water Science Center		
Monloc Identifier:	USGS-384333076394701		
Monloc name:	CA Bb 27		
Monloc type:	Well		
Monloc desc:	leveled in by MD WRA 11/87 138.40		
Huc code:	02060006	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	38.7259502
Longitude:	-76.6627411	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	137.87
Vert measure units:	feet	Vertacc measure val:	.01
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Aquia Formation		
Aquifer type:	Not Reported		
Construction date:	19790801	Welldepth:	320
Welldepth units:	ft	Wellholedepth:	440
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 303

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2005-02-16	172.71		2005-02-10	172.88	
2005-02-10	172.88		2005-01-18	173.36	
2004-12-14	173.67		2004-09-24	176.01	
2004-07-21	176.33		2004-06-24	174.57	

MAHAN RYKIEL

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2004-05-24	173.41		2004-04-14	170.74	
2004-03-16	170.91		2004-02-23	171.16	
2004-02-11	171.74		2004-01-14	171.96	
2003-12-15	172.20		2003-11-19	172.72	
2003-10-27	173.93		2003-09-24	174.04	
2003-08-27	174.41		2003-07-23	173.92	
2003-06-24	172.71		2003-05-28	172.65	
2003-04-23	172.83		2003-03-26	172.71	
2003-02-26	173.55		2003-01-29	174.69	
2002-12-19	175.63		2002-11-26	176.42	
2002-10-28	178.34		2002-09-25	180.79	
2002-08-28	182.95		2002-07-29	179.75	
2002-06-27	176.93		2002-05-31	169.08	
2002-04-26	171.08		2002-03-23	170.49	
2002-02-25	170.84		2002-01-29	172.06	
2001-12-18	171.86		2001-11-27	173.08	
2001-10-29	173.22		2001-09-26	173.61	
2001-08-28	173.97		2001-07-17	173.75	
2001-06-27	171.92		2001-05-31	170.94	
2001-04-23	167.90		2001-03-22	167.74	
2001-02-15	168.32		2001-01-08	168.82	
2000-12-14	168.83		2000-11-28	168.34	
2000-10-18	169.53		2000-09-12	170.15	
2000-08-08	169.64		2000-07-18	170.44	
2000-06-21	169.84		2000-05-23	169.04	
2000-04-26	167.24		2000-03-08	168.39	
2000-02-24	168.43		2000-01-14	168.90	
1999-12-14	168.94		1999-11-17	169.91	
1999-10-13	171.30		1999-09-22	171.68	
1999-08-24	173.97		1999-07-20	175.26	
1999-06-02	171.94		1999-05-06	166.70	
1999-04-08	166.40		1999-03-02	167.02	
1999-02-10	167.57		1999-01-05	168.48	
1998-12-08	168.74		1998-11-05	170.01	
1998-10-07	171.31		1998-09-09	172.01	
1998-08-27	171.18		1998-07-10	166.62	
1998-06-10	165.97		1998-05-04	162.74	
1998-04-06	162.38		1998-03-17	162.61	
1998-02-03	163.57		1998-01-12	164.19	
1997-12-04	164.29		1997-11-18	164.82	
1997-10-21	166.23		1997-09-16	166.59	
1997-08-28	166.57		1997-07-08	165.35	
1997-06-27	165.29		1997-05-06	162.38	
1997-04-08	162.08		1997-03-18	162.14	
1997-02-06	162.93		1997-01-07	162.96	
1996-12-10	163.04		1996-11-06	163.28	
1996-10-01	163.81		1996-09-18	164.03	
1996-08-27	164.15		1996-07-10	164.27	
1996-06-05	162.63		1996-05-08	162.15	
1996-04-03	161.52		1996-03-12	161.75	
1996-02-13	162.20		1996-01-25	162.59	
1995-12-12	163.41		1995-11-03	164.44	
1995-10-06	165.94		1995-09-12	168.35	
1995-08-16	164.38		1995-07-12	162.03	
1995-06-07	161.70		1995-05-09	161.26	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1995-04-11	160.81		1995-03-01	160.25	
1995-02-08	160.23		1995-01-13	160.47	
1994-12-08	160.76		1994-11-04	161.34	
1994-10-14	162.05		1994-09-16	162.26	
1994-08-12	163.29		1994-07-19	164.25	
1994-06-17	163.09		1994-05-12	159.21	
1994-04-15	158.67		1994-03-04	159.53	
1994-02-04	159.90		1994-01-07	159.90	
1993-12-03	160.45		1993-11-04	161.45	
1993-10-08	162.73		1993-09-09	164.60	
1993-08-02	164.84		1993-07-09	163.18	
1993-06-04	159.55		1993-05-07	158.34	
1993-04-09	157.89		1993-03-04	157.97	
1993-02-05	157.84		1993-01-08	157.78	
1992-12-11	157.72		1992-11-06	158.46	
1992-10-09	158.78		1992-09-03	159.62	
1992-08-07	159.76		1992-07-10	159.12	
1992-06-05	157.12		1992-05-15	156.83	
1992-04-10	156.23		1992-03-06	156.55	
1992-02-07	156.57		1992-01-10	156.76	
1991-12-13	157.20		1991-11-08	158.14	
1991-10-04	159.15		1991-09-13	159.99	
1991-08-15	160.32		1991-07-09	160.19	
1991-06-13	159.34		1991-05-09	154.44	
1991-04-12	154.32		1991-03-06	153.91	
1991-02-07	154.23		1991-01-17	154.38	
1990-12-07	154.80		1990-11-08	155.36	
1990-10-19	156.34		1990-09-05	155.90	
1990-08-01	156.21		1990-07-10	155.63	
1990-06-12	154.76		1990-05-09	153.90	
1990-04-09	153.32		1990-03-07	153.76	
1990-02-07	153.56		1990-01-04	154.13	
1989-12-06	153.86		1989-11-01	154.35	
1989-10-11	154.72		1989-09-12	156.60	
1989-08-09	154.83		1989-07-11	153.80	
1989-06-14	153.57		1989-05-09	152.48	
1989-04-11	152.67		1989-03-01	152.77	
1989-02-07	152.99		1989-01-17	153.27	
1988-12-08	168.74		1988-12-06	153.89	
1988-11-05	170.01		1988-11-01	155.03	
1988-10-11	155.76		1988-09-14	156.59	
1988-08-03	157.74		1988-07-12	160.09	
1988-06-01	153.46		1988-05-03	152.04	
1988-04-12	151.36		1988-03-01	152.42	
1988-02-03	152.11		1988-01-06	152.00	
1987-12-02	152.03		1987-11-04	152.53	
1987-10-06	153.33		1987-09-11	154.35	
1987-08-05	155.86		1987-07-08	148.13	
1987-06-03	146.64		1987-05-05	149.51	
1987-04-07	148.45		1987-03-04	148.83	
1987-02-10	148.54		1987-01-06	149.08	
1986-12-03	149.39		1986-11-12	150.43	
1986-10-15	150.93		1986-09-10	150.01	
1986-08-06	150.75		1986-07-09	151.50	
1986-06-04	150.15		1986-05-14	148.89	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1986-04-02	146.96		1986-03-04	146.04	
1986-01-31	146.27		1986-01-03	146.22	
1985-12-03	145.86		1985-11-13	146.27	
1985-10-08	147.28		1985-09-11	147.46	
1985-08-06	146.91		1985-07-10	146.83	
1985-06-12	145.69		1985-05-08	146.24	
1985-04-03	144.08		1985-03-05	144.02	
1985-02-12	143.95		1985-01-09	144.28	
1984-12-10	146.23		1984-10-31	143.68	
1984-10-09	144.89		1984-09-11	144.86	
1984-08-08	144.03		1984-07-11	143.63	
1984-06-11	141.61		1984-05-09	142.35	
1984-04-03	142.37		1984-03-07	142.44	
1984-02-01	142.87		1984-01-12	142.71	
1983-11-16	142.52		1983-10-03	143.42	
1983-09-07	143.68		1983-08-09	140.16	
1983-07-20	142.53		1983-06-07	140.33	
1983-05-02	139.90		1983-03-31	139.60	
1983-03-02	139.37		1983-02-03	139.35	
1983-01-06	139.93		1982-11-24	140.09	
1982-11-02	140.11		1982-10-04	140.29	
1982-09-03	140.08		1982-08-03	140.20	
1982-07-07	139.26		1982-06-02	138.71	
1982-05-03	138.10		1982-04-02	137.76	
1982-03-03	137.95		1982-02-01	137.88	
1982-01-05	138.03		1981-12-02	138.07	
1981-11-05	138.42		1981-10-02	138.43	
1981-09-09	138.28		1981-07-01	137.32	
1981-06-01	136.85		1981-05-01	136.29	
1981-04-03	136.23		1981-03-02	135.99	
1981-02-06	134.50		1980-12-16	138.60	
1980-10-31	136.60		1980-10-03	139.38	
1980-09-02	136.93		1980-08-04	136.74	
1980-07-07	138.40		1980-05-06	133.82	
1980-04-03	136.11		1980-02-08	133.85	
1980-01-04	138.40		1979-11-01	134.05	
1979-10-04	133.87		1979-08-30	133.83	
1979-08-01	120				

**60
East
1/2 - 1 Mile
Lower**

MD WELLS MD6000000420037

Objectid:	420046	County let:	CA
Permit:	CA943147	Mgs id:	Not Reported
B1 seq:	9171	B1 recd:	01-JUN-01
City:	HUNTINGTOWN	State:	MD
Zip:	20639	Driller na:	MICHAEL K GRIBBLE
Driller id:	MWD 318	Est gpm pr:	8.0E+000
Use for wa:	DW	Drill meth:	ROTARY
Approx dep:	3.5E+002	Replace pe:	Not Reported
Replacemen:	N	Subdivisio:	CABIN BRANCH
Wapid:	Not Reported		

MAHAN RYKIEL

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Section :	Not Reported	Lot:	39
Nearest to:	OWINGS	Town dista:	1
Road name:	9345 MEGATHA LA	Road side:	E
Road dista:	49 FT	Tax map:	7
Block:	Not Reported	Parcel:	543
N grid27:	324000.00	E grid27:	905000.00
N grid83:	117272.00	E grid83:	432031.00
Lat dec de:	38.72	Lon dec de:	76.63
Issue date:	01-JUN-01	Special fl:	Not Reported
C1 seq:	0814	C1 recd:	17-AUG-01
Completion:	11-JUL-01	Total dept:	3.75E+002
Num unsucc:	0	Hydrofract:	N
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	6.3E+001
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	3.6E+002	Casing hei:	+1
Screen typ:	PL	Top screen:	3.6E+002
Bottom scr:	3.75E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	2.0E+000
Pumping ra:	2.0E+001	Level befo:	1.7E+002
Level duri:	1.9E+002	Test pump :	A
Pump insta:	Y	Install pu:	S
Capacity:	7.0E+000	Pump hp:	7.5E-001
Column len:	2.5E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

Q61
East
1/2 - 1 Mile
Lower

MD WELLS MD6000000416263

Objectid:	416262	County let:	CA
Permit:	CA942248	Mgs id:	Not Reported
B1 seq:	2767	B1 recd:	06-JAN-00
City:	DUNKIRK	State:	MD
Zip:	20754	Driller na:	MICHAEL K GRIBBLE
Driller id:	MWD 318	Est gpm pr:	8.0E+000
Use for wa:	DW		
Approx dep:	3.5E+002	Drill meth:	ROTARY
Replacemen:	Y	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	DUNKIRK FIELDS
Section :	Not Reported	Lot:	15
Nearest to:	DUNKIRK	Town dista:	2
Road name:	1950 HAVEN LA	Road side:	S
Road dista:	90 FT	Tax map:	6
Block:	Not Reported	Parcel:	228
N grid27:	323000.00	E grid27:	905000.00
N grid83:	116967.00	E grid83:	432031.00
Lat dec de:	38.72	Lon dec de:	76.63
Issue date:	06-JAN-00	Special fl:	Not Reported
C1 seq:	4014	C1 recd:	02-FEB-00

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Completion:	12-JAN-00	Total dept:	2.75E+002
Num unsucc:	0	Hydrofract:	N
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	6.3E+001
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	2.6E+002	Casing hei:	+1
Screen typ:	PL	Top screen:	2.6E+002
Bottom scr:	2.75E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	2.0E+000
Pumping ra:	3.0E+001	Level befo:	1.0E+002
Level duri:	1.25E+002	Test pump :	A
Pump insta:	Y	Install pu:	S
Capacity:	8.0E+000	Pump hp:	7.5E-001
Column len:	1.6E+002	Closed:	A
Abandoned:	Not Reported	Abandon da:	Not Reported

Q62
East
1/2 - 1 Mile
Lower

MD WELLS MD6000000096569

Objectid:	96568	County let:	CA
Permit:	CA883535	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	01-JUL-93
City:	DUNKIRK	State:	MD
Zip:	20754	Driller na:	GRIBBLE, MICHAEL K.
Driller id:	MWD0318	Est gpm pr:	8.0E+000
Use for wa:	DW		
Approx dep:	3.5E+002	Drill meth:	ROTARY
Replacemen:	Y	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	DUNKIRK WOODS
Section :	Not Reported	Lot:	43
Nearest to:	DUNKIRK	Town dista:	1 MI
Road name:	1721 EDINBURGH LANE	Road side:	E
Road dista:	75 FT	Tax map:	Not Reported
Block:	Not Reported	Parcel:	Not Reported
N grid27:	323000.00	E grid27:	905000.00
N grid83:	116967.00	E grid83:	432031.00
Lat dec de:	38.72	Lon dec de:	76.63
Issue date:	02-JUL-93	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	21-OCT-93
Completion:	09-JUL-93	Total dept:	2.95E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	1.05E+002
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	2.8E+002	Casing hei:	+01
Screen typ:	PL	Top screen:	2.8E+002
Bottom scr:	2.95E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	1.0E+000
Pumping ra:	2.2E+001	Level befo:	1.45E+002
Level duri:	1.7E+002	Test pump :	A
Pump insta:	Not Reported	Install pu:	S
Capacity:	8.0E+000	Pump hp:	7.5E-001
Column len:	2.25E+002	Closed:	A
Abandoned:	Not Reported	Abandon da:	Not Reported

Q63
East
1/2 - 1 Mile
Lower

MD WELLS MD6000000490118

Objectid:	490117	County let:	CA
Permit:	CA945751	Mgs id:	Not Reported
B1 seq:	6953	B1 recd:	25-AUG-05
City:	HUNTINGTOWN	State:	MD
Zip:	20639	Driller na:	MICHAEL K. GRIBBLE
Driller id:	MWD 318	Est gpm pr:	8.0E+000
Use for wa:	DW		
Approx dep:	3.5E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	COVENANT CREEK
Section :	Not Reported	Lot:	6
Nearest to:	OWINGS	Town dista:	2
Road name:	9540 COVENANT CT	Road side:	N
Road dista:	75 FT	Tax map:	6
Block:	Not Reported	Parcel:	427
N grid27:	323000.00	E grid27:	905000.00
N grid83:	116967.00	E grid83:	432031.00
Lat dec de:	38.72	Lon dec de:	76.63
Issue date:	25-AUG-05	Special fl:	Not Reported
C1 seq:	7112	C1 recd:	17-NOV-05
Completion:	29-SEP-05	Total dept:	3.7E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	6.3E+001
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	3.4E+002	Casing hei:	+1
Screen typ:	PL	Top screen:	3.5E+002
Bottom scr:	3.7E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	2.0E+000
Pumping ra:	2.0E+001	Level befo:	1.8E+002
Level duri:	2.0E+002	Test pump :	S
Pump insta:	Y	Install pu:	S
Capacity:	1.0E+001	Pump hp:	1.5E+000
Column len:	2.8E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

Q64
East
1/2 - 1 Mile
Lower

MD WELLS MD6000000512790

Objectid:	512824	County let:	Not Reported
Permit:	CA950887	Mgs id:	Not Reported
B1 seq:	1330	B1 recd:	02-JUL-08
City:	HUNTINGTOWN	State:	MD
Zip:	20639	Driller na:	MICHAEL K GRIBBLE
Driller id:	MWD 318	Est gpm pr:	8.0E+000
Use for wa:	DW		
Approx dep:	4.0E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	COVENANT CREEK
Section :	Not Reported	Lot:	35
Nearest to:	OWINGS	Town dista:	2
Road name:	9607 COVENANT CT	Road side:	E
Road dista:	Not Reported	Tax map:	6
Block:	Not Reported	Parcel:	454
N grid27:	323000.00	E grid27:	905000.00
N grid83:	116967.00	E grid83:	432031.00
Lat dec de:	38.72	Lon dec de:	76.63
Issue date:	02-JUL-08	Special fl:	Not Reported
C1 seq:	2954	C1 recd:	19-AUG-08
Completion:	05-AUG-08	Total dept:	3.15E+002
Num unsucc:	0	Hydrofract:	N
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	6.3E+001
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	3.0E+002	Casing hei:	Not Reported
Screen typ:	PL	Top screen:	3.01E+002
Bottom scr:	3.15E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	1.0E+000
Pumping ra:	2.5E+001	Level befo:	1.4E+002
Level duri:	2.3E+002	Test pump :	A
Pump insta:	Y	Install pu:	S
Capacity:	7.0E+000	Pump hp:	1.0E+000
Column len:	2.2E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

Q65
East
1/2 - 1 Mile
Lower

MD WELLS MD6000000502600

Objectid:	502599	County let:	Not Reported
Permit:	CA950383	Mgs id:	Not Reported
B1 seq:	0085	B1 recd:	24-OCT-06
City:	HUNTINGTOWN	State:	MD
Zip:	20639	Driller na:	MICHAEL K GRIBBLE
Driller id:	MWD 318	Est gpm pr:	8.0E+000
Use for wa:	DW		
Approx dep:	3.5E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	COVENANT CREEK

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Section :	Not Reported	Lot:	15
Nearest to:	OWINGS	Town dista:	2
Road name:	9601 COVENANT CT	Road side:	N
Road dista:	85 FT	Tax map:	6
Block:	Not Reported	Parcel:	427
N grid27:	323000.00	E grid27:	905000.00
N grid83:	116967.00	E grid83:	432031.00
Lat dec de:	38.72	Lon dec de:	76.63
Issue date:	25-OCT-06	Special fl:	Not Reported
C1 seq:	9257	C1 recd:	07-MAR-07
Completion:	28-FEB-07	Total dept:	3.25E+002
Num unsucc:	0	Hydrofract:	N
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	4.2E+001
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	3.0E+002	Casing hei:	+1
Screen typ:	PL	Top screen:	3.09E+002
Bottom scr:	3.23E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	1.0E+000
Pumping ra:	3.0E+001	Level befo:	1.0E+000
Level duri:	2.4E+002	Test pump :	A
Pump insta:	Y	Install pu:	S
Capacity:	1.2E+001	Pump hp:	1.5E+000
Column len:	2.3E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

**R66
ENE
1/2 - 1 Mile
Lower**

MD WELLS MD6000000087826

Objectid:	87825	County let:	CA
Permit:	CA731443	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	25-JUN-76
City:	UPPER MARLBORO	State:	MD
Zip:	Not Reported	Driller na:	KANARR, PAUL
Driller id:	MWD0243	Est gpm pr:	6.0E+000
Use for wa:	DW	Drill meth:	ROTARY
Approx dep:	3.0E+002	Replace pe:	Not Reported
Replacemen:	N	Subdivisio:	ODYSSEY
Wapid:	Not Reported	Lot:	30
Section :	Not Reported	Town dista:	3 MI
Nearest to:	OWINGS	Road side:	N
Road name:	MD RT 260	Tax map:	Not Reported
Road dista:	300 FT	Parcel:	Not Reported
Block:	Not Reported	E grid27:	905000.00
N grid27:	325000.00	E grid83:	432031.00
N grid83:	117577.00	Lon dec de:	76.63
Lat dec de:	38.73	Special fl:	Not Reported
Issue date:	24-JUN-76	C1 recd:	07-JUL-76
C1 seq:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Completion:	29-JUN-76	Total dept:	3.3E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	CM
Grout top:	0	Grout bott:	1.1E+001
Casing typ:	ST	Casing dia:	4.0E+000
Casing dep:	2.32E+002	Casing hei:	+01
Screen typ:	PL	Top screen:	3.2E+002
Bottom scr:	3.3E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	4.0E+000
Pumping ra:	7.0E+000	Level befo:	1.51E+002
Level duri:	1.72E+002	Test pump :	S
Pump insta:	Not Reported	Install pu:	S
Capacity:	7.0E+000	Pump hp:	1.0E+000
Column len:	1.9E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

R67
ENE
1/2 - 1 Mile
Lower

MD WELLS MD600000087802

Objectid:	87801	County let:	CA
Permit:	CA731415	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	08-JUN-76
City:	DUNKIRK	State:	MD
Zip:	Not Reported	Driller na:	BUNKER, H H & SONS
Driller id:	MWD0055	Est gpm pr:	1.0E+001
Use for wa:	DW		
Approx dep:	2.5E+002	Drill meth:	ROTARY
Replacemen:	Y	Replace pe:	CA730826
Wapid:	Not Reported	Subdivisio:	DUNKIRK WOODS
Section :	1	Lot:	13
Nearest to:	LAKE WOOD	Town dista:	1 MI
Road name:	BRICK HOUSE RD	Road side:	S
Road dista:	1 MI	Tax map:	Not Reported
Block:	Not Reported	Parcel:	Not Reported
N grid27:	325000.00	E grid27:	905000.00
N grid83:	117577.00	E grid83:	432031.00
Lat dec de:	38.73	Lon dec de:	76.63
Issue date:	07-JUN-76	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	Not Reported
Completion:	Not Reported	Total dept:	0
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Not Reported	Grout type:	Not Reported
Grout top:	0	Grout bott:	0
Casing typ:	Not Reported	Casing dia:	0
Casing dep:	0	Casing hei:	+00
Screen typ:	Not Reported	Top screen:	0
Bottom scr:	0	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Bottom s 2:	0	Screen dia:	0
Flowing we:	Not Reported	Telescopin:	Not Reported
Log type:	Not Reported	Hrs pumped:	0
Pumping ra:	0	Level befo:	0
Level duri:	0	Test pump :	Not Reported
Pump insta:	Not Reported	Install pu:	Not Reported
Capacity:	0	Pump hp:	0
Column len:	0	Closed:	C
Abandoned:	Not Reported	Abandon da:	Not Reported

R68
ENE
1/2 - 1 Mile
Lower

MD WELLS MD600000087940

Objectid:	87939	County let:	CA
Permit:	CA731594	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	15-SEP-76
City:	HAMPTON PARK	State:	MD
Zip:	Not Reported	Driller na:	BRANHAM WELL DRLG
Driller id:	MWD0080	Est gpm pr:	1.0E+001
Use for wa:	DW		
Approx dep:	3.5E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	BRIGHT ACRES
Section :	Not Reported	Lot:	Not Reported
Nearest to:	DUNKIRK	Town dista:	1 MI
Road name:	RT 260& WARD CHAPEL	Road side:	N
Road dista:	35 FT	Tax map:	Not Reported
Block:	Not Reported	Parcel:	Not Reported
N grid27:	325000.00	E grid27:	905000.00
N grid83:	117577.00	E grid83:	432031.00
Lat dec de:	38.73	Lon dec de:	76.63
Issue date:	14-SEP-76	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	28-OCT-76
Completion:	Not Reported	Total dept:	4.0E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	CM
Grout top:	0	Grout bott:	2.0E+001
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	3.93E+002	Casing hei:	+01
Screen typ:	PL	Top screen:	3.93E+002
Bottom scr:	4.0E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	Not Reported
Log type:	Not Reported	Hrs pumped:	4.0E+000
Pumping ra:	1.0E+001	Level befo:	1.0E+002
Level duri:	2.0E+002	Test pump :	A
Pump insta:	Not Reported	Install pu:	S
Capacity:	6.0E+000	Pump hp:	1.0E+000
Column len:	2.5E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

R69
ENE
1/2 - 1 Mile
Lower

MD WELLS MD6000000087833

Objectid:	87832	County let:	CA
Permit:	CA731451	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	06-JUL-76
City:	BOULEVARD HTS	State:	MD
Zip:	Not Reported	Driller na:	WARD, W S CO INC
Driller id:	MWD0053	Est gpm pr:	1.0E+001
Use for wa:	DW		
Approx dep:	3.25E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	EARL HICKS
Section :	Not Reported	Lot:	3
Nearest to:	OWINGS	Town dista:	2 MI
Road name:	RT 260	Road side:	W
Road dista:	900 FT	Tax map:	Not Reported
Block:	Not Reported	Parcel:	Not Reported
N grid27:	325000.00	E grid27:	905000.00
N grid83:	117577.00	E grid83:	432031.00
Lat dec de:	38.73	Lon dec de:	76.63
Issue date:	02-JUL-76	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	31-AUG-76
Completion:	05-AUG-76	Total dept:	3.05E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	CM
Grout top:	3.0E+000	Grout bott:	3.0E+001
Casing typ:	ST	Casing dia:	4.0E+000
Casing dep:	2.85E+002	Casing hei:	+01
Screen typ:	HO	Top screen:	2.85E+002
Bottom scr:	3.05E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	0
Flowing we:	Not Reported	Telescopin:	Not Reported
Log type:	Not Reported	Hrs pumped:	6.0E+000
Pumping ra:	4.0E+001	Level befo:	1.23E+002
Level duri:	1.35E+002	Test pump :	A
Pump insta:	Not Reported	Install pu:	S
Capacity:	1.0E+001	Pump hp:	1.0E+000
Column len:	1.68E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

R70
ENE
1/2 - 1 Mile
Lower

MD WELLS MD6000000087443

Objectid:	87442	County let:	CA
Permit:	CA730921	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	06-MAY-75
City:	DUNKIRK	State:	MD
Zip:	Not Reported	Driller na:	LEATHERBURY, TAYLOR
Driller id:	MWD0226	Est gpm pr:	6.0E+000
Use for wa:	DW		
Approx dep:	2.8E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	ODYSSEY

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Section :	Not Reported	Lot:	22
Nearest to:	OWINGS	Town dista:	3 MI
Road name:	RAMBLE DR	Road side:	E
Road dista:	150 FT	Tax map:	Not Reported
Block:	Not Reported	Parcel:	Not Reported
N grid27:	325000.00	E grid27:	905000.00
N grid83:	117577.00	E grid83:	432031.00
Lat dec de:	38.73	Lon dec de:	76.63
Issue date:	30-APR-75	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	06-JAN-77
Completion:	17-MAY-75	Total dept:	3.15E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	CM
Grout top:	0	Grout bott:	3.0E+001
Casing typ:	ST	Casing dia:	4.0E+000
Casing dep:	2.9E+002	Casing hei:	+01
Screen typ:	ST	Top screen:	2.9E+002
Bottom scr:	3.15E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	Not Reported
Log type:	Not Reported	Hrs pumped:	4.0E+000
Pumping ra:	1.5E+001	Level befo:	1.07E+002
Level duri:	3.15E+002	Test pump :	A
Pump insta:	Not Reported	Install pu:	S
Capacity:	1.0E+001	Pump hp:	1.0E+000
Column len:	1.89E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

**R71
ENE
1/2 - 1 Mile
Lower**

MD WELLS MD6000000087225

Objectid:	87224	County let:	CA
Permit:	CA730618	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	20-JUN-74
City:	PRINCE FREDERICK	State:	MD
Zip:	Not Reported	Driller na:	FRANK'S WELL DRLG CO
Driller id:	MWD0005	Est gpm pr:	1.0E+001
Use for wa:	DW		
Approx dep:	3.0E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	ODYSSEY
Section :	Not Reported	Lot:	4
Nearest to:	OWNINGS	Town dista:	6 MI
Road name:	RT 260	Road side:	N
Road dista:	600 FT	Tax map:	Not Reported
Block:	Not Reported	Parcel:	Not Reported
N grid27:	325000.00	E grid27:	905000.00
N grid83:	117577.00	E grid83:	432031.00
Lat dec de:	38.73	Lon dec de:	76.63
Issue date:	14-JUN-74	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	18-JUL-74

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Completion:	03-JUL-74	Total dept:	3.58E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	2.0E+001
Casing typ:	ST	Casing dia:	4.0E+000
Casing dep:	3.48E+002	Casing hei:	+01
Screen typ:	ST	Top screen:	3.48E+002
Bottom scr:	3.58E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	Not Reported
Log type:	Not Reported	Hrs pumped:	2.0E+000
Pumping ra:	7.0E+000	Level befo:	1.5E+002
Level duri:	1.6E+002	Test pump :	A
Pump insta:	Not Reported	Install pu:	S
Capacity:	7.0E+000	Pump hp:	1.0E+000
Column len:	2.0E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

R72
ENE
1/2 - 1 Mile
Lower

MD WELLS MD600000087136

Objectid:	87135	County let:	CA
Permit:	CA730494	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	02-APR-74
City:	CHESAPEAKE	State:	MD
Zip:	Not Reported	Driller na:	WARD, W S CO INC
Driller id:	MWD0053	Est gpm pr:	1.0E+001
Use for wa:	DW		
Approx dep:	3.5E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	DUNKIRK FIELDS
Section :	Not Reported	Lot:	Not Reported
Nearest to:	DUNKIRK	Town dista:	1 MI
Road name:	WARDS RD	Road side:	S
Road dista:	300 FT	Tax map:	Not Reported
Block:	Not Reported	Parcel:	Not Reported
N grid27:	325000.00	E grid27:	905000.00
N grid83:	117577.00	E grid83:	432031.00
Lat dec de:	38.73	Lon dec de:	76.63
Issue date:	01-APR-74	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	30-SEP-74
Completion:	27-AUG-74	Total dept:	3.45E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	CM
Grout top:	0	Grout bott:	3.5E+001
Casing typ:	ST	Casing dia:	4.0E+000
Casing dep:	3.05E+002	Casing hei:	+02
Screen typ:	HO	Top screen:	3.05E+002
Bottom scr:	3.45E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Bottom s 2:	0	Screen dia:	0
Flowing we:	Not Reported	Telescopin:	Not Reported
Log type:	Not Reported	Hrs pumped:	6.0E+000
Pumping ra:	2.5E+001	Level befo:	1.15E+002
Level duri:	1.2E+002	Test pump :	A
Pump insta:	Not Reported	Install pu:	S
Capacity:	1.0E+001	Pump hp:	1.0E+000
Column len:	1.47E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

R73
ENE
1/2 - 1 Mile
Lower

MD WELLS MD6000000087365

Objectid:	87364	County let:	CA
Permit:	CA730826	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	08-JAN-75
City:	OWINGS	State:	MD
Zip:	Not Reported	Driller na:	BUNKER, H H & SONS
Driller id:	MWD0055	Est gpm pr:	1.0E+001
Use for wa:	DW		
Approx dep:	2.5E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	DUNKIRK WOODS
Section :	1	Lot:	13
Nearest to:	LAKEWOOD	Town dista:	1 MI
Road name:	BRICKHOUSE RD	Road side:	S
Road dista:	1 MI	Tax map:	Not Reported
Block:	Not Reported	Parcel:	Not Reported
N grid27:	325000.00	E grid27:	905000.00
N grid83:	117577.00	E grid83:	432031.00
Lat dec de:	38.73	Lon dec de:	76.63
Issue date:	07-JAN-75	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	20-MAR-75
Completion:	04-MAR-75	Total dept:	2.45E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	CM
Grout top:	3.0E+000	Grout bott:	2.0E+001
Casing typ:	ST	Casing dia:	4.0E+000
Casing dep:	2.35E+002	Casing hei:	+01
Screen typ:	ST	Top screen:	2.4E+002
Bottom scr:	2.45E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	3.0E+000
Pumping ra:	7.0E+000	Level befo:	1.15E+002
Level duri:	1.75E+002	Test pump :	A
Pump insta:	Not Reported	Install pu:	S
Capacity:	7.0E+000	Pump hp:	1.0E+000
Column len:	1.8E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

R74
ENE
1/2 - 1 Mile
Lower

MD WELLS MD600000087247

Objectid:	87246	County let:	CA
Permit:	CA730644	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	08-JUL-74
City:	HARWOOD	State:	MD
Zip:	Not Reported	Driller na:	SLATER, JAMES H
Driller id:	MWD0268	Est gpm pr:	1.0E+001
Use for wa:	DW		
Approx dep:	3.0E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	CEDAR RUN DIV
Section :	Not Reported	Lot:	1
Nearest to:	OWINGS	Town dista:	4 MI
Road name:	CEDAR RUN	Road side:	N
Road dista:	20 FT	Tax map:	Not Reported
Block:	Not Reported	Parcel:	Not Reported
N grid27:	325000.00	E grid27:	905000.00
N grid83:	117577.00	E grid83:	432031.00
Lat dec de:	38.73	Lon dec de:	76.63
Issue date:	03-JUL-74	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	08-NOV-74
Completion:	02-OCT-74	Total dept:	2.9E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	CM
Grout top:	3.0E+000	Grout bott:	5.0E+001
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	2.7E+002	Casing hei:	+01
Screen typ:	PL	Top screen:	2.8E+002
Bottom scr:	2.9E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	4.0E+000
Pumping ra:	4.0E+001	Level befo:	1.0E+002
Level duri:	1.3E+002	Test pump :	A
Pump insta:	Not Reported	Install pu:	S
Capacity:	1.0E+001	Pump hp:	1.0E+000
Column len:	2.0E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

R75
ENE
1/2 - 1 Mile
Lower

MD WELLS MD600000088015

Objectid:	88014	County let:	CA
Permit:	CA731698	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	04-NOV-76
City:	OWINGS	State:	MD
Zip:	Not Reported	Driller na:	KANARR, PAUL
Driller id:	MWD0243	Est gpm pr:	6.0E+000
Use for wa:	DW		
Approx dep:	3.5E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	ODYSSEY

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Section :	Not Reported	Lot:	36
Nearest to:	OWINGS	Town dista:	2.1 MI
Road name:	MD RT 260	Road side:	N
Road dista:	350 FT	Tax map:	Not Reported
Block:	Not Reported	Parcel:	Not Reported
N grid27:	325000.00	E grid27:	905000.00
N grid83:	117577.00	E grid83:	432031.00
Lat dec de:	38.73	Lon dec de:	76.63
Issue date:	03-NOV-76	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	22-NOV-76
Completion:	15-NOV-76	Total dept:	3.45E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	CM
Grout top:	0	Grout bott:	1.8E+001
Casing typ:	ST	Casing dia:	4.0E+000
Casing dep:	2.32E+002	Casing hei:	+01
Screen typ:	PL	Top screen:	3.3E+002
Bottom scr:	3.45E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	3.0E+000
Pumping ra:	7.0E+000	Level befo:	1.49E+002
Level duri:	1.82E+002	Test pump :	S
Pump insta:	Not Reported	Install pu:	S
Capacity:	7.0E+000	Pump hp:	1.0E+000
Column len:	1.95E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

**R76
ENE
1/2 - 1 Mile
Lower**

MD WELLS MD6000000089063

Objectid:	89062	County let:	CA
Permit:	CA733062	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	18-DEC-78
City:	FORRESTVILLE	State:	MD
Zip:	20689	Driller na:	KANARR, PAUL
Driller id:	MWD0243	Est gpm pr:	8.0E+000
Use for wa:	DW	Drill meth:	ROTARY
Approx dep:	3.0E+002	Replace pe:	Not Reported
Replacemen:	N	Subdivisio:	Not Reported
Wapid:	Not Reported	Lot:	Not Reported
Section :	Not Reported	Town dista:	2 MI
Nearest to:	OWINGS	Road side:	N
Road name:	RT 260	Tax map:	Not Reported
Road dista:	75 FT	Parcel:	Not Reported
Block:	Not Reported	E grid27:	905000.00
N grid27:	325000.00	E grid83:	432031.00
N grid83:	117577.00	Lon dec de:	76.63
Lat dec de:	38.73	Special fl:	Not Reported
Issue date:	14-DEC-78	C1 recd:	05-MAR-79
C1 seq:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Completion:	14-FEB-79	Total dept:	3.6E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	CM
Grout top:	0	Grout bott:	2.3E+001
Casing typ:	ST	Casing dia:	4.0E+000
Casing dep:	2.58E+002	Casing hei:	+01
Screen typ:	PL	Top screen:	3.4E+002
Bottom scr:	3.6E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	1.0E+000
Pumping ra:	3.0E+001	Level befo:	1.4E+002
Level duri:	1.62E+002	Test pump :	A
Pump insta:	Not Reported	Install pu:	S
Capacity:	7.0E+000	Pump hp:	1.0E+000
Column len:	1.9E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

R77
ENE
1/2 - 1 Mile
Lower

MD WELLS MD6000000088962

Objectid:	88961	County let:	CA
Permit:	CA732931	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	22-SEP-78
City:	UPPER MARLBORO	State:	MD
Zip:	Not Reported	Driller na:	KANARR, PAUL E
Driller id:	MWD0243	Est gpm pr:	7.0E+000
Use for wa:	DW		
Approx dep:	3.25E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	EARLE HICKS SUBDIV
Section :	Not Reported	Lot:	4
Nearest to:	OWINGS	Town dista:	2.0 MI
Road name:	CHEWS BRANCH RD	Road side:	W
Road dista:	75 FT	Tax map:	Not Reported
Block:	Not Reported	Parcel:	Not Reported
N grid27:	325000.00	E grid27:	905000.00
N grid83:	117577.00	E grid83:	432031.00
Lat dec de:	38.73	Lon dec de:	76.63
Issue date:	20-SEP-78	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	19-OCT-78
Completion:	12-SEP-78	Total dept:	2.85E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	CM
Grout top:	0	Grout bott:	2.0E+001
Casing typ:	ST	Casing dia:	4.0E+000
Casing dep:	2.29E+002	Casing hei:	+01
Screen typ:	ST	Top screen:	2.75E+002
Bottom scr:	2.85E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	1.0E+000
Pumping ra:	3.0E+001	Level befo:	1.0E+002
Level duri:	1.41E+002	Test pump :	S
Pump insta:	Not Reported	Install pu:	S
Capacity:	7.0E+000	Pump hp:	1.0E+000
Column len:	1.8E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

R78
ENE
1/2 - 1 Mile
Lower

MD WELLS MD6000000089222

Objectid:	89221	County let:	CA
Permit:	CA733260	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	25-MAY-79
City:	HYATTSVILLE	State:	MD
Zip:	Not Reported	Driller na:	KANARR, PAUL
Driller id:	MWD0243	Est gpm pr:	8.0E+000
Use for wa:	DW		
Approx dep:	3.25E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	ODDYSSEY
Section :	1	Lot:	35
Nearest to:	OWINGS	Town dista:	2.8 MI
Road name:	JOURNEY DR	Road side:	W
Road dista:	75 FT	Tax map:	Not Reported
Block:	Not Reported	Parcel:	Not Reported
N grid27:	325000.00	E grid27:	905000.00
N grid83:	117577.00	E grid83:	432031.00
Lat dec de:	38.73	Lon dec de:	76.63
Issue date:	24-MAY-79	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	28-JAN-80
Completion:	30-MAY-79	Total dept:	3.3E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	CM
Grout top:	0	Grout bott:	2.1E+001
Casing typ:	ST	Casing dia:	4.0E+000
Casing dep:	2.32E+002	Casing hei:	+01
Screen typ:	PL	Top screen:	3.2E+002
Bottom scr:	3.3E+002	Screen t 1 :	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	1.0E+000
Pumping ra:	6.0E+000	Level befo:	1.3E+002
Level duri:	1.53E+002	Test pump :	A
Pump insta:	Not Reported	Install pu:	S
Capacity:	7.0E+000	Pump hp:	1.0E+000
Column len:	1.8E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

R79
ENE
1/2 - 1 Mile
Lower

MD WELLS MD600000089179

Objectid:	89178	County let:	CA
Permit:	CA733209	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	03-MAY-79
City:	BALTIMORE	State:	MD
Zip:	Not Reported	Driller na:	KANARR, PAUL
Driller id:	MWD0243	Est gpm pr:	8.0E+000
Use for wa:	DW		
Approx dep:	3.0E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	Not Reported
Section :	Not Reported	Lot:	Not Reported
Nearest to:	OWINGS	Town dista:	1 MI
Road name:	RT 260	Road side:	S
Road dista:	50 FT	Tax map:	Not Reported
Block:	Not Reported	Parcel:	Not Reported
N grid27:	325000.00	E grid27:	905000.00
N grid83:	117577.00	E grid83:	432031.00
Lat dec de:	38.73	Lon dec de:	76.63
Issue date:	01-MAY-79	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	30-JUL-79
Completion:	14-JUL-79	Total dept:	3.7E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	CM
Grout top:	0	Grout bott:	2.3E+001
Casing typ:	ST	Casing dia:	4.0E+000
Casing dep:	2.52E+002	Casing hei:	+01
Screen typ:	PL	Top screen:	3.55E+002
Bottom scr:	3.7E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	1.0E+000
Pumping ra:	2.0E+001	Level befo:	1.1E+002
Level duri:	1.3E+002	Test pump :	A
Pump insta:	Not Reported	Install pu:	S
Capacity:	7.0E+000	Pump hp:	1.0E+000
Column len:	1.7E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

R80
ENE
1/2 - 1 Mile
Lower

MD WELLS MD600000088770

Objectid:	88769	County let:	CA
Permit:	CA732669	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	24-APR-78
City:	DUNKIRK	State:	MD
Zip:	Not Reported	Driller na:	KANARR, PAUL
Driller id:	MWD0243	Est gpm pr:	6.0E+000
Use for wa:	DW		
Approx dep:	3.0E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	ODYSSEY

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Section :	Not Reported	Lot:	28
Nearest to:	OWINGS	Town dista:	2.8 MI
Road name:	WANDER RD	Road side:	E
Road dista:	80 FT	Tax map:	Not Reported
Block:	Not Reported	Parcel:	Not Reported
N grid27:	325000.00	E grid27:	905000.00
N grid83:	117577.00	E grid83:	432031.00
Lat dec de:	38.73	Lon dec de:	76.63
Issue date:	21-APR-78	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	16-MAY-78
Completion:	03-MAY-78	Total dept:	2.75E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	CM
Grout top:	0	Grout bott:	1.8E+001
Casing typ:	ST	Casing dia:	4.0E+000
Casing dep:	2.3E+002	Casing hei:	+01
Screen typ:	ST	Top screen:	2.65E+002
Bottom scr:	2.75E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	1.0E+000
Pumping ra:	3.0E+001	Level befo:	9.6E+001
Level duri:	1.42E+002	Test pump :	A
Pump insta:	Not Reported	Install pu:	S
Capacity:	1.1E+001	Pump hp:	1.0E+000
Column len:	1.65E+002	Closed:	Not Reported
Abandoned:	Y	Abandon da:	01-MAR-95

**R81
ENE
1/2 - 1 Mile
Lower**

MD WELLS MD6000000088409

Objectid:	88408	County let:	CA
Permit:	CA732211	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	08-AUG-77
City:	PRINCE FREDERICK	State:	MD
Zip:	Not Reported	Driller na:	KANARR, PAUL
Driller id:	MWD0243	Est gpm pr:	6.0E+000
Use for wa:	DW	Drill meth:	ROTARY
Approx dep:	3.0E+002	Replace pe:	Not Reported
Replacemen:	N	Subdivisio:	ODYSSEY
Wapid:	Not Reported	Lot:	24
Section :	Not Reported	Town dista:	2.2 MI
Nearest to:	OWINGS	Road side:	N
Road name:	MD RT 260	Tax map:	3
Road dista:	300 FT	Parcel:	215
Block:	Not Reported	E grid27:	905000.00
N grid27:	325000.00	E grid83:	432031.00
N grid83:	117577.00	Lon dec de:	76.63
Lat dec de:	38.73	Special fl:	Not Reported
Issue date:	04-AUG-77	C1 recd:	19-SEP-77
C1 seq:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Completion:	29-AUG-77	Total dept:	3.15E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	CM
Grout top:	0	Grout bott:	1.4E+001
Casing typ:	ST	Casing dia:	4.0E+000
Casing dep:	2.52E+002	Casing hei:	+01
Screen typ:	PL	Top screen:	3.05E+002
Bottom scr:	3.15E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	1.0E+000
Pumping ra:	2.0E+001	Level befo:	1.4E+002
Level duri:	1.6E+002	Test pump :	S
Pump insta:	Not Reported	Install pu:	S
Capacity:	1.0E+001	Pump hp:	1.0E+000
Column len:	1.8E+002	Closed:	Not Reported
Abandoned:	Y	Abandon da:	13-APR-96

R82
ENE
1/2 - 1 Mile
Lower

MD WELLS MD6000000088068

Objectid:	88067	County let:	CA
Permit:	CA731758	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	06-JAN-77
City:	OWINGS	State:	MD
Zip:	Not Reported	Driller na:	KANARR, PAUL
Driller id:	MWD0243	Est gpm pr:	6.0E+000
Use for wa:	DW		
Approx dep:	3.75E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	ODYSSEY
Section :	Not Reported	Lot:	2
Nearest to:	OWINGS	Town dista:	2.2 MI
Road name:	RT 20	Road side:	N
Road dista:	200 FT	Tax map:	Not Reported
Block:	Not Reported	Parcel:	Not Reported
N grid27:	325000.00	E grid27:	905000.00
N grid83:	117577.00	E grid83:	432031.00
Lat dec de:	38.73	Lon dec de:	76.63
Issue date:	05-JAN-77	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	18-FEB-77
Completion:	25-JAN-77	Total dept:	3.15E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	CM
Grout top:	0	Grout bott:	1.6E+001
Casing typ:	ST	Casing dia:	4.0E+000
Casing dep:	2.52E+002	Casing hei:	+01
Screen typ:	PL	Top screen:	3.0E+002
Bottom scr:	3.15E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	2.0E+000
Pumping ra:	2.5E+001	Level befo:	1.1E+002
Level duri:	1.69E+002	Test pump :	S
Pump insta:	Not Reported	Install pu:	S
Capacity:	7.0E+000	Pump hp:	1.0E+000
Column len:	1.95E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

R83
ENE
1/2 - 1 Mile
Lower

MD WELLS MD6000000088669

Objectid:	88668	County let:	CA
Permit:	CA732540	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	19-JAN-78
City:	DUNKIRK	State:	MD
Zip:	Not Reported	Driller na:	KANARR, PAUL
Driller id:	MWD0243	Est gpm pr:	6.0E+000
Use for wa:	DW		
Approx dep:	3.0E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	ODYSSEY
Section :	Not Reported	Lot:	19
Nearest to:	OWINGS	Town dista:	2.2 MI
Road name:	MD RT 260	Road side:	N
Road dista:	300 FT	Tax map:	Not Reported
Block:	Not Reported	Parcel:	Not Reported
N grid27:	325000.00	E grid27:	905000.00
N grid83:	117577.00	E grid83:	432031.00
Lat dec de:	38.73	Lon dec de:	76.63
Issue date:	17-JAN-78	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	13-JUN-78
Completion:	08-JUN-78	Total dept:	2.95E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	CM
Grout top:	0	Grout bott:	1.6E+001
Casing typ:	ST	Casing dia:	4.0E+000
Casing dep:	2.52E+002	Casing hei:	+01
Screen typ:	PL	Top screen:	2.85E+002
Bottom scr:	2.95E+002	Screen t 1 :	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	2.0E+000
Pumping ra:	1.0E+001	Level befo:	1.1E+002
Level duri:	1.45E+002	Test pump :	S
Pump insta:	Not Reported	Install pu:	S
Capacity:	7.0E+000	Pump hp:	1.0E+000
Column len:	2.0E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

R84
ENE
1/2 - 1 Mile
Lower

MD WELLS MD6000000088465

Objectid:	88464	County let:	CA
Permit:	CA732277	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	06-SEP-77
City:	OWINGS	State:	MD
Zip:	Not Reported	Driller na:	KANARR, PAUL
Driller id:	MWD0243	Est gpm pr:	6.0E+000
Use for wa:	DW		
Approx dep:	3.5E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	ODYSSEY
Section :	Not Reported	Lot:	31
Nearest to:	OWINGS	Town dista:	2.6 MI
Road name:	WANDER RD	Road side:	W
Road dista:	150 FT	Tax map:	Not Reported
Block:	Not Reported	Parcel:	Not Reported
N grid27:	325000.00	E grid27:	905000.00
N grid83:	117577.00	E grid83:	432031.00
Lat dec de:	38.73	Lon dec de:	76.63
Issue date:	01-SEP-77	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	28-SEP-77
Completion:	15-SEP-77	Total dept:	3.15E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	CM
Grout top:	0	Grout bott:	1.7E+001
Casing typ:	ST	Casing dia:	4.0E+000
Casing dep:	2.52E+002	Casing hei:	+01
Screen typ:	PL	Top screen:	3.05E+002
Bottom scr:	3.15E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	1.0E+000
Pumping ra:	1.5E+001	Level befo:	1.55E+002
Level duri:	1.75E+002	Test pump :	S
Pump insta:	Not Reported	Install pu:	S
Capacity:	7.0E+000	Pump hp:	1.0E+000
Column len:	1.9E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

R85
ENE
1/2 - 1 Mile
Lower

MD WELLS MD6000000019954

Objectid:	19953	County let:	AA
Permit:	AA737413	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	25-MAY-77
City:	SUITLAND	State:	MD
Zip:	Not Reported	Driller na:	WARD, W S CO INC
Driller id:	MWD0053	Est gpm pr:	1.0E+001
Use for wa:	DW		
Approx dep:	3.25E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Section :	Not Reported	Lot:	Not Reported
Nearest to:	FRIENDSHIP	Town dista:	2 MI
Road name:	SANDBURY RD	Road side:	N
Road dista:	300 FT	Tax map:	Not Reported
Block:	Not Reported	Parcel:	Not Reported
N grid27:	325000.00	E grid27:	905000.00
N grid83:	117577.00	E grid83:	432031.00
Lat dec de:	38.73	Lon dec de:	76.63
Issue date:	24-MAY-77	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	29-DEC-77
Completion:	20-NOV-77	Total dept:	3.35E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	CM
Grout top:	0	Grout bott:	3.1E+001
Casing typ:	ST	Casing dia:	4.0E+000
Casing dep:	3.25E+002	Casing hei:	+02
Screen typ:	ST	Top screen:	3.25E+002
Bottom scr:	3.35E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	3.0E+000
Flowing we:	Not Reported	Telescopin:	Not Reported
Log type:	Not Reported	Hrs pumped:	8.0E+000
Pumping ra:	2.6E+001	Level befo:	1.35E+002
Level duri:	1.5E+002	Test pump :	A
Pump insta:	Not Reported	Install pu:	S
Capacity:	1.0E+001	Pump hp:	1.0E+000
Column len:	2.1E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

**R86
ENE
1/2 - 1 Mile
Lower**

MD WELLS MD6000000087048

Objectid:	87047	County let:	CA
Permit:	CA730371	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	25-OCT-73
City:	UPPER MARLBORO	State:	MD
Zip:	Not Reported	Driller na:	WARD, W S CO INC
Driller id:	MWD0053	Est gpm pr:	1.0E+001
Use for wa:	DW	Drill meth:	ROTARY
Approx dep:	3.5E+002	Replace pe:	Not Reported
Replacemen:	N	Subdivisio:	DUNKIRK WOODS
Wapid:	Not Reported	Lot:	16
Section :	Not Reported	Town dista:	1 MI
Nearest to:	DUNKIRK	Road side:	E
Road name:	WARDS RD	Tax map:	Not Reported
Road dista:	600 FT	Parcel:	Not Reported
Block:	Not Reported	E grid27:	905000.00
N grid27:	325000.00	E grid83:	432031.00
N grid83:	117577.00	Lon dec de:	76.63
Lat dec de:	38.73	Special fl:	Not Reported
Issue date:	24-OCT-73	C1 recd:	26-NOV-73
C1 seq:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Completion:	28-OCT-73	Total dept:	3.05E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	BC
Grout top:	4.0E+000	Grout bott:	3.0E+001
Casing typ:	ST	Casing dia:	4.0E+000
Casing dep:	2.5E+002	Casing hei:	+01
Screen typ:	HO	Top screen:	2.5E+002
Bottom scr:	3.05E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	0
Flowing we:	Not Reported	Telescopin:	Not Reported
Log type:	Not Reported	Hrs pumped:	4.0E+000
Pumping ra:	3.0E+001	Level befo:	6.3E+001
Level duri:	8.1E+001	Test pump :	S
Pump insta:	Not Reported	Install pu:	S
Capacity:	1.0E+001	Pump hp:	1.0E+000
Column len:	1.08E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

S87
ESE
1/2 - 1 Mile
Lower

MD WELLS MD6000000355867

Objectid:	355866	County let:	CA
Permit:	CA920637	Mgs id:	Not Reported
B1 seq:	6067	B1 recd:	23-FEB-96
City:	OWINGS	State:	MD
Zip:	20736	Driller na:	MICHAEL K GRIBBLE
Driller id:	MWD 318	Est gpm pr:	8.0E+000
Use for wa:	DW		
Approx dep:	3.5E+002	Drill meth:	ROTARY
Replacemen:	Y	Replace pe:	CA732211
Wapid:	Not Reported	Subdivisio:	ODYSSEY
Section :	Not Reported	Lot:	24
Nearest to:	OWINGS	Town dista:	3
Road name:	11836 RAMBLE DRIVE	Road side:	W
Road dista:	75 FT	Tax map:	3
Block:	Not Reported	Parcel:	215
N grid27:	322000.00	E grid27:	905000.00
N grid83:	116662.00	E grid83:	432031.00
Lat dec de:	38.72	Lon dec de:	76.63
Issue date:	26-FEB-96	Special fl:	Y
C1 seq:	8301	C1 recd:	17-MAY-96
Completion:	13-APR-96	Total dept:	3.2E+002
Num unsucc:	0	Hydrofract:	N
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	2.1E+002
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	3.0E+002	Casing hei:	+1
Screen typ:	PL	Top screen:	3.1E+002
Bottom scr:	3.2E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	1.0E+000
Pumping ra:	3.0E+001	Level befo:	1.3E+002
Level duri:	1.55E+002	Test pump :	A
Pump insta:	Y	Install pu:	S
Capacity:	8.0E+000	Pump hp:	7.5E-001
Column len:	2.1E+002	Closed:	A
Abandoned:	Not Reported	Abandon da:	Not Reported

S88
ESE
1/2 - 1 Mile
Lower

MD WELLS MD6000000497100

Objectid:	497099	County let:	Not Reported
Permit:	CA950093	Mgs id:	Not Reported
B1 seq:	1730	B1 recd:	03-JAN-06
City:	HUNTINGTOWN	State:	MD
Zip:	20639	Driller na:	MICHAEL K GRIBBLE
Driller id:	MWD 318	Est gpm pr:	8.0E+000
Use for wa:	DW		
Approx dep:	3.5E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	COVENANT CREEK
Section :	Not Reported	Lot:	9
Nearest to:	OWINGS	Town dista:	2
Road name:	9570 COVENANT CT	Road side:	N
Road dista:	65 FT	Tax map:	6
Block:	Not Reported	Parcel:	427
N grid27:	322000.00	E grid27:	905000.00
N grid83:	116662.00	E grid83:	432031.00
Lat dec de:	38.72	Lon dec de:	76.63
Issue date:	04-JAN-06	Special fl:	Not Reported
C1 seq:	4549	C1 recd:	29-JUN-06
Completion:	21-FEB-06	Total dept:	3.35E+002
Num unsucc:	0	Hydrofract:	N
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	6.3E+001
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	3.1E+002	Casing hei:	+1
Screen typ:	PL	Top screen:	3.15E+002
Bottom scr:	3.35E+002	Screen t 1 :	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	2.0E+000
Pumping ra:	3.5E+001	Level befo:	1.5E+002
Level duri:	1.7E+002	Test pump :	A
Pump insta:	Y	Install pu:	S
Capacity:	7.0E+000	Pump hp:	1.0E+000
Column len:	2.3E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

S89
ESE
1/2 - 1 Mile
Lower

MD WELLS MD6000000501223

Objectid:	501222	County let:	CA
Permit:	CA950382	Mgs id:	Not Reported
B1 seq:	0093	B1 recd:	23-OCT-06
City:	HUNTINGTOWN	State:	MD
Zip:	20639	Driller na:	MICHAEL K. GRIBBLE
Driller id:	MWD 318	Est gpm pr:	8.0E+000
Use for wa:	DW		
Approx dep:	4.0E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	COVENANT CREEK
Section :	Not Reported	Lot:	7
Nearest to:	OWINGS	Town dista:	2
Road name:	9550 COVENANT CT	Road side:	S
Road dista:	85 FT	Tax map:	6
Block:	Not Reported	Parcel:	427
N grid27:	322000.00	E grid27:	905000.00
N grid83:	116662.00	E grid83:	432031.00
Lat dec de:	38.72	Lon dec de:	76.63
Issue date:	24-OCT-06	Special fl:	Not Reported
C1 seq:	9256	C1 recd:	23-JAN-06
Completion:	16-JAN-07	Total dept:	3.57E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	6.3E+001
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	3.4E+002	Casing hei:	+1
Screen typ:	PL	Top screen:	3.44E+002
Bottom scr:	3.57E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	1.0E+000
Pumping ra:	2.5E+001	Level befo:	1.8E+002
Level duri:	3.0E+002	Test pump :	A
Pump insta:	Y	Install pu:	S
Capacity:	1.2E+001	Pump hp:	1.5E+000
Column len:	2.8E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

T90
North
1/2 - 1 Mile
Higher

MD WELLS MD6000000085883

Objectid:	85882	County let:	CA
Permit:	CA660044	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	Not Reported
City:	GREENBELT,	State:	MD
Zip:	Not Reported	Driller na:	WARD, WILLARD S
Driller id:	MWD0000	Est gpm pr:	3.0E+001
Use for wa:	DW		
Approx dep:	0	Drill meth:	ROTARY
Replacemen:	Not Reported	Replace pe:	Not Reported
Wapid:	CA1966G005	Subdivisio:	LAKEWOOD

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Section :	Not Reported	Lot:	Not Reported
Nearest to:	DUNKIRK	Town dista:	Not Reported
Road name:	RT 4	Road side:	E
Road dista:	.5 MI	Tax map:	Not Reported
Block:	Not Reported	Parcel:	Not Reported
N grid27:	328378.00	E grid27:	899566.00
N grid83:	118606.00	E grid83:	430374.00
Lat dec de:	38.73	Lon dec de:	76.65
Issue date:	Not Reported	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	Not Reported
Completion:	01-FEB-66	Total dept:	4.25E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Not Reported	Grout type:	Not Reported
Grout top:	0	Grout bott:	0
Casing typ:	Not Reported	Casing dia:	4.0E+000
Casing dep:	3.45E+002	Casing hei:	+00
Screen typ:	ST	Top screen:	3.45E+002
Bottom scr:	3.55E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	0
Flowing we:	Not Reported	Telescopin:	Not Reported
Log type:	Not Reported	Hrs pumped:	8.0E+000
Pumping ra:	0	Level befo:	1.37E+002
Level duri:	1.47E+002	Test pump :	A
Pump insta:	Not Reported	Install pu:	Not Reported
Capacity:	0	Pump hp:	0
Column len:	0	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

**91
South
1/2 - 1 Mile
Lower**

MD WELLS MD6000000088783

Objectid:	88782	County let:	CA
Permit:	CA732691	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	08-MAY-78
City:	DUNKIRK	State:	MD
Zip:	Not Reported	Driller na:	DENNIS THOMAS
Driller id:	MWD0226	Est gpm pr:	5.0E+000
Use for wa:	I		
Approx dep:	2.5E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	CA1978G009	Subdivisio:	Not Reported
Section :	Not Reported	Lot:	Not Reported
Nearest to:	DUNKIRK	Town dista:	1 MI
Road name:	MD RT 4	Road side:	S
Road dista:	75 FT	Tax map:	6
Block:	10	Parcel:	191,103
N grid27:	318765.00	E grid27:	899567.00
N grid83:	115676.00	E grid83:	430375.00
Lat dec de:	38.71	Lon dec de:	76.65
Issue date:	18-APR-78	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	07-JUN-79

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Completion:	15-SEP-78	Total dept:	2.3E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	CM
Grout top:	0	Grout bott:	9.0E+001
Casing typ:	ST	Casing dia:	4.0E+000
Casing dep:	2.0E+002	Casing hei:	+01
Screen typ:	PL	Top screen:	2.0E+002
Bottom scr:	2.3E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	Not Reported
Log type:	Not Reported	Hrs pumped:	3.0E+000
Pumping ra:	2.0E+001	Level befo:	5.4E+001
Level duri:	2.3E+002	Test pump :	A
Pump insta:	Not Reported	Install pu:	S
Capacity:	1.0E+001	Pump hp:	1.0E+000
Column len:	1.2E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

T92
North
1/2 - 1 Mile
Higher

FED USGS USGS40000431403

Org. Identifier:	USGS-MD		
Formal name:	USGS Maryland Water Science Center		
Monloc Identifier:	USGS-384405076390201		
Monloc name:	CA Bb 41		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02060006	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	38.734839
Longitude:	-76.6502405	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	155
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Aquia Formation		
Aquifer type:	Confined single aquifer		
Construction date:	19660201	Welldepth:	355
Welldepth units:	ft	Wellholedepth:	425
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1966-02-01	137	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

U93
NE
1/2 - 1 Mile
Lower

MD WELLS MD6000000349095

Objectid:	349094	County let:	CA
Permit:	CA884298	Mgs id:	Not Reported
B1 seq:	5704	B1 recd:	01-AUG-94
City:	CHESAPEAKE BC	State:	MD
Zip:	20732	Driller na:	MICHAEL K GRIBBLE
Driller id:	MWD 318	Est gpm pr:	8.0E+000
Use for wa:	DW		
Approx dep:	3.5E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	WELCHPOOLE ESTATE
Section :	Not Reported	Lot:	4
Nearest to:	DUNKIRK	Town dista:	1
Road name:	WELCHPOOLE COURT	Road side:	S
Road dista:	75 FT	Tax map:	Not Reported
Block:	Not Reported	Parcel:	Not Reported
N grid27:	327000.00	E grid27:	904000.00
N grid83:	118186.00	E grid83:	431726.00
Lat dec de:	38.73	Lon dec de:	76.64
Issue date:	01-AUG-94	Special fl:	Y
C1 seq:	7261	C1 recd:	13-OCT-94
Completion:	15-SEP-94	Total dept:	3.1E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	1.05E+002
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	2.8E+002	Casing hei:	+1
Screen typ:	PL	Top screen:	2.95E+002
Bottom scr:	3.1E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	1.0E+000
Pumping ra:	3.5E+001	Level befo:	1.6E+002
Level duri:	1.85E+002	Test pump :	A
Pump insta:	Y	Install pu:	S
Capacity:	1.0E+001	Pump hp:	1.5E+000
Column len:	2.4E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

U94
NE
1/2 - 1 Mile
Lower

MD WELLS MD6000000095748

Objectid:	95747	County let:	CA
Permit:	CA882201	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	12-JUN-91
City:	WASHINGTON	State:	DC
Zip:	20024	Driller na:	GRIBBLE, MICHAEL K.
Driller id:	MWD0318	Est gpm pr:	8.0E+000
Use for wa:	DW		
Approx dep:	3.5E+002	Drill meth:	ROTARY
Replacemen:	Y	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	DUNKIRK WOODS

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Section :	1	Lot:	42
Nearest to:	DUNKIRK	Town dista:	2 MI
Road name:	EDINBURGH LANE	Road side:	W
Road dista:	100 FT	Tax map:	3
Block:	Not Reported	Parcel:	142
N grid27:	327000.00	E grid27:	904000.00
N grid83:	118186.00	E grid83:	431726.00
Lat dec de:	38.73	Lon dec de:	76.64
Issue date:	18-JUN-91	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	15-JUL-91
Completion:	19-JUN-91	Total dept:	3.1E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	1.0E+002
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	2.8E+002	Casing hei:	+01
Screen typ:	PL	Top screen:	3.0E+002
Bottom scr:	3.1E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	2.0E+000
Pumping ra:	2.0E+001	Level befo:	1.45E+002
Level duri:	1.7E+002	Test pump :	A
Pump insta:	Not Reported	Install pu:	S
Capacity:	8.0E+000	Pump hp:	7.5E-001
Column len:	2.3E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

**U95
NE
1/2 - 1 Mile
Lower**

MD WELLS MD6000000349121

Objectid:	349120	County let:	CA
Permit:	CA884270	Mgs id:	Not Reported
B1 seq:	7111	B1 recd:	27-JUL-94
City:	BOWIE	State:	MD
Zip:	20720	Driller na:	MICHAEL MIRFIELD
Driller id:	MWD 305	Est gpm pr:	0
Use for wa:	G	Drill meth:	ROTARY
Approx dep:	2.0E+002	Replace pe:	Not Reported
Replacemen:	N	Subdivisio:	WELCHPOOLE ESTATES
Wapid:	Not Reported	Lot:	3
Section :	Not Reported	Town dista:	3.5
Nearest to:	DUNKIRK	Road side:	W
Road name:	WARD ROAD	Tax map:	3
Road dista:	100 FT	Parcel:	323
Block:	16	E grid27:	904000.00
N grid27:	327000.00	E grid83:	431726.00
N grid83:	118186.00	Lon dec de:	76.64
Lat dec de:	38.73	Special fl:	Not Reported
Issue date:	27-JUL-94	C1 recd:	01-NOV-94
C1 seq:	7253		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Completion:	27-OCT-94	Total dept:	2.0E+002
Num unsucc:	0	Hydrofract:	N
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	2.0E+002
Casing typ:	Not Reported	Casing dia:	0
Casing dep:	0	Casing hei:	Not Reported
Screen typ:	Not Reported	Top screen:	0
Bottom scr:	0	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	0
Flowing we:	Not Reported	Telescopin:	Not Reported
Log type:	Not Reported	Hrs pumped:	0
Pumping ra:	0	Level befo:	0
Level duri:	0	Test pump :	Not Reported
Pump insta:	Not Reported	Install pu:	Not Reported
Capacity:	0	Pump hp:	0
Column len:	0	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

U96
NE
1/2 - 1 Mile
Lower

MD WELLS MD6000000416192

Objectid:	416191	County let:	CA
Permit:	CA941941	Mgs id:	Not Reported
B1 seq:	6153	B1 recd:	02-AUG-99
City:	DUNKIRK	State:	MD
Zip:	20754	Driller na:	RICHARD WINSLOW
Driller id:	MSD 151	Est gpm pr:	8.0E+000
Use for wa:	DW		
Approx dep:	3.7E+002	Drill meth:	ROTARY
Replacemen:	Y	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	DUNKIRK WOODS
Section :	1	Lot:	22
Nearest to:	DUNKIRK	Town dista:	1
Road name:	1911 ABERDEEN DRIVE	Road side:	N
Road dista:	15 FT	Tax map:	3
Block:	Not Reported	Parcel:	142
N grid27:	327000.00	E grid27:	904000.00
N grid83:	118186.00	E grid83:	431726.00
Lat dec de:	38.73	Lon dec de:	76.64
Issue date:	02-AUG-99	Special fl:	Not Reported
C1 seq:	4105	C1 recd:	17-SEP-99
Completion:	20-AUG-99	Total dept:	3.3E+002
Num unsucc:	0	Hydrofract:	N
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	4.0E+001
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	3.1E+002	Casing hei:	+1
Screen typ:	PL	Top screen:	3.1E+002
Bottom scr:	3.3E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	Not Reported
Log type:	Not Reported	Hrs pumped:	3.0E+000
Pumping ra:	6.0E+001	Level befo:	1.5E+002
Level duri:	1.65E+002	Test pump :	A
Pump insta:	Y	Install pu:	S
Capacity:	7.0E+000	Pump hp:	1.0E+000
Column len:	2.4E+002	Closed:	A
Abandoned:	Not Reported	Abandon da:	Not Reported

U97
NE
1/2 - 1 Mile
Lower

MD WELLS MD6000000416072

Objectid:	416071	County let:	CA
Permit:	CA942078	Mgs id:	Not Reported
B1 seq:	4430	B1 recd:	07-OCT-99
City:	DUNKIRK	State:	MD
Zip:	20754	Driller na:	RICHARD WINSLOW
Driller id:	MSD 151	Est gpm pr:	8.0E+000
Use for wa:	DW		
Approx dep:	3.7E+002	Drill meth:	ROTARY
Replacemen:	Y	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	DUNKIRK WOODS
Section :	1	Lot:	21
Nearest to:	DUNKIRK	Town dista:	2
Road name:	1921 ABERDEEN DR	Road side:	N
Road dista:	15 FT	Tax map:	3
Block:	Not Reported	Parcel:	142
N grid27:	327000.00	E grid27:	904000.00
N grid83:	118186.00	E grid83:	431726.00
Lat dec de:	38.73	Lon dec de:	76.64
Issue date:	07-OCT-99	Special fl:	Not Reported
C1 seq:	2746	C1 recd:	30-NOV-99
Completion:	29-OCT-99	Total dept:	3.25E+002
Num unsucc:	0	Hydrofract:	N
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	4.0E+001
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	3.0E+002	Casing hei:	+1
Screen typ:	PL	Top screen:	3.05E+002
Bottom scr:	3.25E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	3.0E+000
Pumping ra:	5.0E+001	Level befo:	1.4E+002
Level duri:	1.48E+002	Test pump :	A
Pump insta:	Y	Install pu:	S
Capacity:	7.0E+000	Pump hp:	7.5E-001
Column len:	2.3E+002	Closed:	A
Abandoned:	Not Reported	Abandon da:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

T98
North
1/2 - 1 Mile
Higher

MD WELLS MD6000000086925

Objectid:	86924	County let:	CA
Permit:	CA730196	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	24-APR-73
City:	DUNKIRK	State:	MD
Zip:	Not Reported	Driller na:	WARD, W S CO INC
Driller id:	MWD0053	Est gpm pr:	5.0E+001
Use for wa:	DW		
Approx dep:	4.0E+002	Drill meth:	ROTARY
Replacemen:	S	Replace pe:	Not Reported
Wapid:	CA1966G005	Subdivisio:	LAKE WOOD
Section :	Not Reported	Lot:	Not Reported
Nearest to:	DUNKIRK	Town dista:	1 MI
Road name:	BRICK HOUSE RD	Road side:	S
Road dista:	1200FT	Tax map:	Not Reported
Block:	Not Reported	Parcel:	Not Reported
N grid27:	328481.00	E grid27:	899579.00
N grid83:	118638.00	E grid83:	430378.00
Lat dec de:	38.73	Lon dec de:	76.65
Issue date:	23-APR-73	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	21-JUL-73
Completion:	28-JUN-73	Total dept:	3.35E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	CM
Grout top:	6.0E+000	Grout bott:	3.15E+002
Casing typ:	ST	Casing dia:	4.0E+000
Casing dep:	3.15E+002	Casing hei:	+01
Screen typ:	ST	Top screen:	3.15E+002
Bottom scr:	3.2E+002	Screen t 1:	ST
Top scre 1:	3.3E+002	Bottom s 1:	3.35E+002
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	3.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	4.0E+000
Pumping ra:	6.0E+001	Level befo:	1.28E+002
Level duri:	1.6E+002	Test pump :	S
Pump insta:	Not Reported	Install pu:	S
Capacity:	4.0E+001	Pump hp:	5.0E+000
Column len:	2.75E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

99
SSE
1/2 - 1 Mile
Lower

MD WELLS MD60000000335222

Objectid:	335221	County let:	CA
Permit:	CA881376	Mgs id:	Not Reported
B1 seq:	2341	B1 recd:	07-MAR-90
City:	OWINGS	State:	MD
Zip:	20736	Driller na:	WARD JR. WILLARD C.
Driller id:	MWD393	Est gpm pr:	1.5E+001
Use for wa:	I		
Approx dep:	3.5E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	CA2005G022	Subdivisio:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Section :	Not Reported	Lot:	Not Reported
Nearest to:	CHANEYVILLE	Town dista:	1
Road name:	MT. HARMONY ROAD	Road side:	N
Road dista:	600 FT	Tax map:	6
Block:	11	Parcel:	82
N grid27:	319421.00	E grid27:	903128.00
N grid83:	115876.00	E grid83:	431460.00
Lat dec de:	38.71	Lon dec de:	76.64
Issue date:	07-MAR-90	Special fl:	Not Reported
C1 seq:	2000	C1 recd:	19-JUL-90
Completion:	20-JUN-90	Total dept:	3.59E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	CM
Grout top:	0	Grout bott:	2.94E+002
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	2.94E+002	Casing hei:	+1
Screen typ:	ST	Top screen:	3.49E+002
Bottom scr:	3.59E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	3.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	6.0E+000
Pumping ra:	4.0E+001	Level befo:	1.2E+002
Level duri:	1.4E+002	Test pump :	S
Pump insta:	Y	Install pu:	S
Capacity:	2.5E+001	Pump hp:	1.5E+000
Column len:	2.4E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

**100
NNE
1/2 - 1 Mile
Lower**

MD WELLS MD6000000090844

Objectid:	90843	County let:	CA
Permit:	CA810732	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	11-JAN-84
City:	LUSBY	State:	MD
Zip:	20657	Driller na:	BRANHAM, JAMES A.
Driller id:	MWD0352	Est gpm pr:	1.0E+001
Use for wa:	DW		
Approx dep:	3.5E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	DUNKIRK WOODS
Section :	Not Reported	Lot:	5
Nearest to:	DUNKIRK	Town dista:	1.5 MI
Road name:	DUMBARTON DR	Road side:	W
Road dista:	75 FT	Tax map:	Not Reported
Block:	Not Reported	Parcel:	Not Reported
N grid27:	328000.00	E grid27:	903000.00
N grid83:	118491.00	E grid83:	431421.00
Lat dec de:	38.73	Lon dec de:	76.64
Issue date:	06-JAN-84	Special fl:	Not Reported
C1 seq:	Not Reported	C1 recd:	03-FEB-84

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Completion:	10-JAN-84	Total dept:	2.9E+002
Num unsucc:	0	Hydrofract:	Not Reported
Grouted:	Y	Grout type:	BC
Grout top:	5.0E+000	Grout bott:	3.0E+001
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	2.8E+002	Casing hei:	+01
Screen typ:	PL	Top screen:	2.8E+002
Bottom scr:	2.9E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	Not Reported
Log type:	Not Reported	Hrs pumped:	5.0E+000
Pumping ra:	3.0E+001	Level befo:	1.0E+002
Level duri:	1.8E+002	Test pump :	A
Pump insta:	Not Reported	Install pu:	S
Capacity:	7.0E+000	Pump hp:	7.5E-001
Column len:	2.5E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

**V101
ENE
1/2 - 1 Mile
Lower**

MD WELLS MD6000000392562

Objectid:	392561	County let:	CA
Permit:	CA940720	Mgs id:	Not Reported
B1 seq:	2368	B1 recd:	22-OCT-97
City:	PR FREDERICK	State:	MD
Zip:	20678	Driller na:	MICHAEL K GRIBBLE
Driller id:	MWD 318	Est gpm pr:	8.0E+000
Use for wa:	DW	Drill meth:	ROTARY
Approx dep:	3.5E+002	Replace pe:	Not Reported
Replacemen:	N	Subdivisio:	WELCHPOOLE ESTATES
Wapid:	Not Reported	Lot:	11
Section :	Not Reported	Town dista:	.75
Nearest to:	DUNKIRK	Road side:	N
Road name:	2115 WELCHEPOOLE COU	Tax map:	Not Reported
Road dista:	100 FT	Parcel:	Not Reported
Block:	Not Reported	E grid27:	905000.00
N grid27:	326000.00	E grid83:	432031.00
N grid83:	117881.00	Lon dec de:	76.63
Lat dec de:	38.73	Special fl:	Not Reported
Issue date:	22-OCT-97	C1 recd:	05-MAR-98
C1 seq:	8231	Total dept:	3.3E+002
Completion:	07-NOV-97	Hydrofract:	N
Num unsucc:	0	Grout type:	BC
Grouted:	Y	Grout bott:	1.05E+002
Grout top:	0	Casing dia:	4.0E+000
Casing typ:	PL	Casing hei:	+1
Casing dep:	3.0E+002	Top screen:	3.15E+002
Screen typ:	PL	Screen t 1:	Not Reported
Bottom scr:	3.3E+002	Bottom s 1:	0
Top scre 1:	0	Top scre 2:	0
Screen t 2:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	1.0E+000
Pumping ra:	2.0E+001	Level befo:	1.85E+002
Level duri:	2.05E+002	Test pump :	A
Pump insta:	Y	Install pu:	S
Capacity:	8.0E+000	Pump hp:	7.5E-001
Column len:	2.65E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

V102
ENE
1/2 - 1 Mile
Lower

MD WELLS MD6000000392998

Objectid:	392997	County let:	CA
Permit:	CA940933	Mgs id:	Not Reported
B1 seq:	1070	B1 recd:	12-MAR-98
City:	HUNTINGTOWN	State:	MD
Zip:	20639	Driller na:	MICHAEL K GRIBBLE
Driller id:	MWD 318	Est gpm pr:	8.0E+000
Use for wa:	DW		
Approx dep:	3.5E+002	Drill meth:	ROTARY
Replacemen:	N	Replace pe:	Not Reported
Wapid:	Not Reported	Subdivisio:	DUNKIRK WOODS
Section :	Not Reported	Lot:	11
Nearest to:	DUNKIRK	Town dista:	2
Road name:	2061 MCCRACKEN DR	Road side:	W
Road dista:	90 FT	Tax map:	Not Reported
Block:	Not Reported	Parcel:	Not Reported
N grid27:	326000.00	E grid27:	905000.00
N grid83:	117881.00	E grid83:	432031.00
Lat dec de:	38.73	Lon dec de:	76.63
Issue date:	12-MAR-98	Special fl:	Not Reported
C1 seq:	7455	C1 recd:	21-AUG-98
Completion:	01-MAY-98	Total dept:	2.8E+002
Num unsucc:	0	Hydrofract:	N
Grouted:	Y	Grout type:	BC
Grout top:	0	Grout bott:	1.04E+002
Casing typ:	PL	Casing dia:	4.0E+000
Casing dep:	2.6E+002	Casing hei:	+1
Screen typ:	PL	Top screen:	2.6E+002
Bottom scr:	2.8E+002	Screen t 1:	Not Reported
Top scre 1:	0	Bottom s 1:	0
Screen t 2:	Not Reported	Top scre 2:	0
Bottom s 2:	0	Screen dia:	2.0E+000
Flowing we:	Not Reported	Telescopin:	T
Log type:	Not Reported	Hrs pumped:	2.0E+000
Pumping ra:	2.0E+001	Level befo:	1.4E+002
Level duri:	1.6E+002	Test pump :	A
Pump insta:	Y	Install pu:	S
Capacity:	8.0E+000	Pump hp:	7.5E-001
Column len:	2.2E+002	Closed:	Not Reported
Abandoned:	Not Reported	Abandon da:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

T103
North
1/2 - 1 Mile
Higher

FED USGS USGS40000431405

Org. Identifier:	USGS-MD		
Formal name:	USGS Maryland Water Science Center		
Monloc Identifier:	USGS-384408076390301		
Monloc name:	CA Bb 30		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02060006	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	38.7356723
Longitude:	-76.6505183	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	160.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Aquia Formation		
Aquifer type:	Not Reported		
Construction date:	19730628	Welldepth:	335
Welldepth units:	ft	Wellholedepth:	335
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1979-04-12	154.00	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

EPA Region 3 Statistical Summary Readings for Zip Code: 20754

Number of sites tested: 222.

Maximum Radon Level: 75.1 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
81 (36.49%)	75 (33.78%)	35 (15.77%)	29 (13.06%)	2 (0.90%)	0 (0.00%)

Federal EPA Radon Zone for CALVERT County: 1

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

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 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, 2005 and 2010 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) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

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

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

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

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

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

STATE RECORDS

Maryland Public Supply Wells Database

Source: Department of the Environment

Telephone: 410-537-3702

Water use types included are farm (livestock watering and agricultural irrigation), geo-thermal, industrial-commercial-state and federal government, municipal, test-observation-monitoring.

OTHER STATE DATABASE INFORMATION

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

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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APPENDIX:
**USDA CUSTOM SOIL RESOURCE
REPORT FOR CALVERT COUNTY**



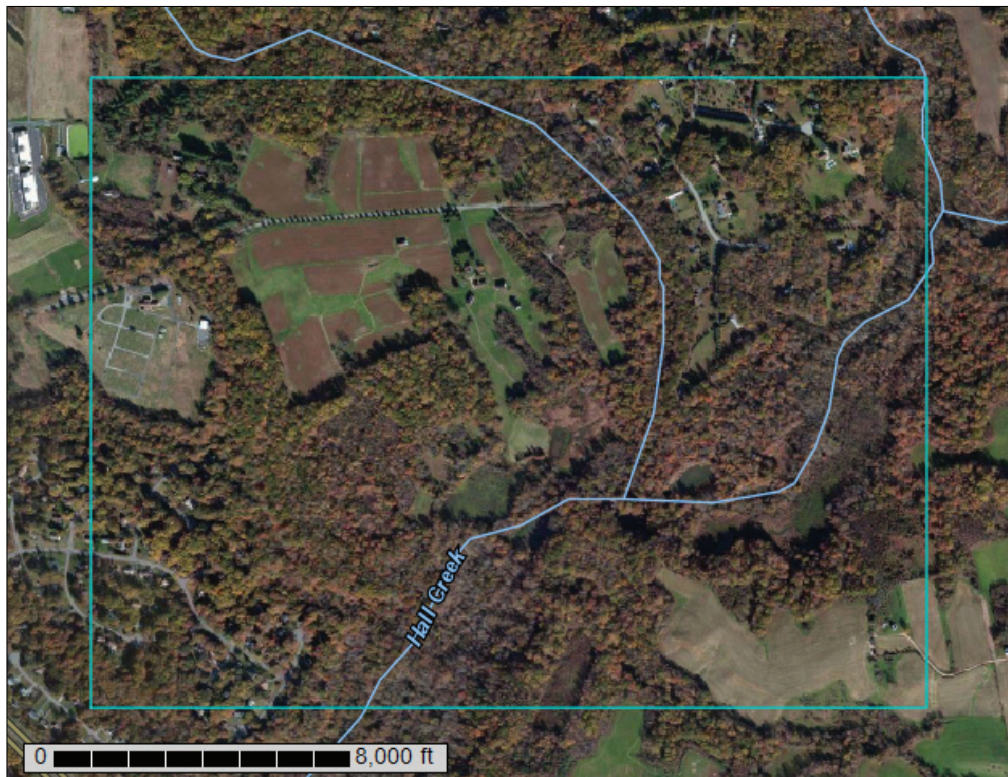
United States
Department of
Agriculture

NRCS

Natural
Resources
Conservation
Service

A product of the National
Cooperative Soil Survey,
a joint effort of the United
States Department of
Agriculture and other
Federal agencies, State
agencies including the
Agricultural Experiment
Stations, and local
participants

Custom Soil Resource Report for Calvert County, Maryland



May 7, 2014

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<http://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil scientists classified and named the soils in the survey area, they compared the

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individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

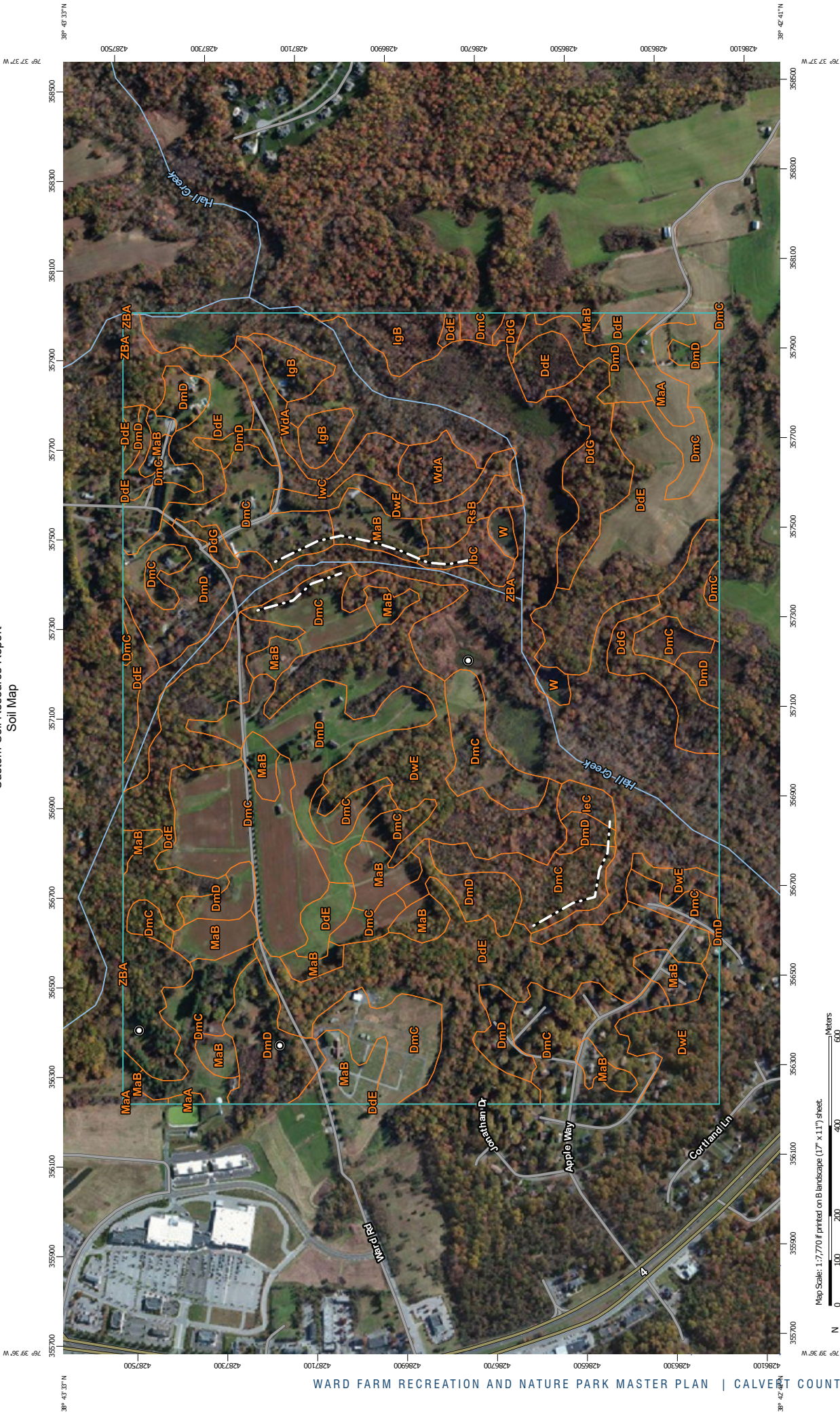
Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map



Map Scale: 1:7,770 if printed on B landscape (17" x 11") sheet.
0 100 200 400 600 Meters
0 350 700 1400 2100 Feet
Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.











































Soil Survey Area: Calvert County, Maryland
 Survey Area Data: Version 10, Dec 11, 2013

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 14, 2011—Nov 12, 2011

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map-unit boundaries may be evident.

MAP LEGEND

 Area of Interest (AOI)	 Spoil Area
 Area of Interest (AOI)	 Stony Spot
 Soils	 Very Stony Spot
 Soil Map Unit Polygons	 Wet Spot
 Soil Map Unit Lines	 Other
 Soil Map Unit Points	 Special Line Features
 Special Point Features	 Water Features
 Blowout	 Streams and Canals
 Borrow Pit	 Transportation
 Clay Spot	 Rails
 Closed Depression	 Interstate Highways
 Gravel Pit	 US Routes
 Gravelly Spot	 Major Roads
 Landfill	 Local Roads
 Lava Flow	 Background
 Marsh or swamp	 Aerial Photography
 Mine or Quarry	
 Miscellaneous Water	
 Perennial Water	
 Rock Outcrop	
 Saline Spot	
 Sandy Spot	
 Severely Eroded Spot	
 Sinkhole	
 Slide or Slip	
 Sodic Spot	

Map Unit Legend

Calvert County, Maryland (MD009)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
DdE	Dodon and Marr soils, 15 to 25 percent slopes	127.2	21.9%
DdG	Dodon and Marr soils, 25 to 80 percent slopes	24.8	4.3%
DmC	Dodon-Marr complex, 5 to 10 percent slopes	118.4	20.4%
DmD	Dodon-Marr complex, 10 to 15 percent slopes	67.4	11.6%
DwE	Downer-Woodstown complex, 15 to 25 percent slopes	52.9	9.1%
IbC	Ingleside loamy sand, 5 to 10 percent slopes	3.5	0.6%
IeC	Ingleside-Evesboro complex, 5 to 10 percent slopes	2.2	0.4%
IgB	Ingleside-Galestown complex, 0 to 5 percent slopes	11.6	2.0%
IwC	Ingleside-Woodstown complex, 5 to 10 percent slopes	7.2	1.2%
MaA	Marr-Dodon complex, 0 to 2 percent slopes	4.5	0.8%
MaB	Marr-Dodon complex, 2 to 5 percent slopes	38.4	6.6%
RsB	Rosedale fine sand, 0 to 5 percent slopes	3.3	0.6%
W	Water	2.5	0.4%
WdA	Woodstown sandy loam, 0 to 2 percent slopes	7.6	1.3%
ZBA	Zekiah and Issue soils, 0 to 2 percent slopes, frequently flooded	109.0	18.8%
Totals for Area of Interest		580.6	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability

of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and

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relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Calvert County, Maryland

DdE—Dodon and Marr soils, 15 to 25 percent slopes

Map Unit Setting

Elevation: 0 to 190 feet

Mean annual precipitation: 40 to 50 inches

Mean annual air temperature: 52 to 57 degrees F

Frost-free period: 180 to 210 days

Map Unit Composition

Dodon and similar soils: 50 percent

Marr and similar soils: 45 percent

Minor components: 5 percent

Description of Dodon

Setting

Landform: Knolls, interfluves

Landform position (three-dimensional): Tread

Down-slope shape: Convex, linear

Across-slope shape: Convex, linear

Parent material: Loamy fluviomarine deposits

Properties and qualities

Slope: 15 to 25 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Moderately well drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.60 to 2.00 in/hr)

Depth to water table: About 15 to 40 inches

Frequency of flooding: None

Frequency of ponding: None

Available water capacity: High (about 9.8 inches)

Interpretive groups

Farmland classification: Not prime farmland

Land capability (nonirrigated): 6e

Hydrologic Soil Group: B

Typical profile

0 to 9 inches: Fine sandy loam

9 to 36 inches: Sandy clay loam

36 to 48 inches: Sandy clay loam

48 to 64 inches: Fine sandy loam

Description of Marr

Setting

Landform: Interfluves, knolls

Landform position (three-dimensional): Side slope

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Loamy fluviomarine deposits

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Properties and qualities

Slope: 15 to 25 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.60 to 1.98 in/hr)
Depth to water table: About 40 to 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: High (about 9.5 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 6e
Hydrologic Soil Group: B

Typical profile

0 to 12 inches: Fine sandy loam
12 to 25 inches: Fine sandy loam
25 to 57 inches: Sandy clay loam
57 to 76 inches: Loamy fine sand

Minor Components

Zekiah

Percent of map unit: 5 percent
Landform: Flood plains, drainageways
Down-slope shape: Linear
Across-slope shape: Linear

DdG—Dodon and Marr soils, 25 to 80 percent slopes

Map Unit Setting

Elevation: 0 to 180 feet
Mean annual precipitation: 40 to 50 inches
Mean annual air temperature: 52 to 57 degrees F
Frost-free period: 180 to 210 days

Map Unit Composition

Dodon and similar soils: 50 percent
Marr and similar soils: 45 percent
Minor components: 5 percent

Description of Dodon

Setting

Landform: Interfluves, knolls
Landform position (three-dimensional): Tread
Down-slope shape: Linear, convex

Custom Soil Resource Report

Across-slope shape: Linear, convex
Parent material: Loamy fluviomarine deposits

Properties and qualities

Slope: 40 to 80 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: About 15 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: High (about 9.8 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 7e
Hydrologic Soil Group: B

Typical profile

0 to 9 inches: Fine sandy loam
9 to 36 inches: Sandy clay loam
36 to 48 inches: Sandy clay loam
48 to 64 inches: Fine sandy loam

Description of Marr

Setting

Landform: Knolls, interfluves
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Loamy fluviomarine deposits

Properties and qualities

Slope: 40 to 80 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 1.98 in/hr)
Depth to water table: About 40 to 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: High (about 9.5 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 7e
Hydrologic Soil Group: B

Typical profile

0 to 12 inches: Fine sandy loam
12 to 25 inches: Fine sandy loam
25 to 57 inches: Sandy clay loam
57 to 76 inches: Loamy fine sand

Minor Components

Zekiah

Percent of map unit: 5 percent

Landform: Drainageways, flood plains

Down-slope shape: Linear

Across-slope shape: Linear

DmC—Dodon-Marr complex, 5 to 10 percent slopes

Map Unit Setting

Elevation: 0 to 190 feet

Mean annual precipitation: 40 to 50 inches

Mean annual air temperature: 52 to 57 degrees F

Frost-free period: 180 to 210 days

Map Unit Composition

Dodon and similar soils: 65 percent

Marr and similar soils: 30 percent

Minor components: 5 percent

Description of Dodon

Setting

Landform: Interfluves, knolls

Landform position (three-dimensional): Tread

Down-slope shape: Linear, convex

Across-slope shape: Linear, convex

Parent material: Loamy fluviomarine deposits

Properties and qualities

Slope: 5 to 10 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Moderately well drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.60 to 2.00 in/hr)

Depth to water table: About 15 to 40 inches

Frequency of flooding: None

Frequency of ponding: None

Available water capacity: High (about 9.8 inches)

Interpretive groups

Farmland classification: Farmland of statewide importance

Land capability (nonirrigated): 3e

Hydrologic Soil Group: B

Typical profile

0 to 9 inches: Fine sandy loam

9 to 36 inches: Sandy clay loam

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36 to 48 inches: Sandy clay loam
48 to 64 inches: Fine sandy loam

Description of Marr

Setting

Landform: Knolls, interfluves
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Loamy fluviomarine deposits

Properties and qualities

Slope: 5 to 10 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.60 to 1.98 in/hr)
Depth to water table: About 40 to 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: High (about 9.5 inches)

Interpretive groups

Farmland classification: Farmland of statewide importance
Land capability (nonirrigated): 3e
Hydrologic Soil Group: B

Typical profile

0 to 12 inches: Fine sandy loam
12 to 25 inches: Fine sandy loam
25 to 57 inches: Sandy clay loam
57 to 76 inches: Loamy fine sand

Minor Components

Issue

Percent of map unit: 5 percent
Landform: Drainhead complexes, drainageways, flood plains
Down-slope shape: Linear
Across-slope shape: Linear

DmD—Dodon-Marr complex, 10 to 15 percent slopes

Map Unit Setting

Elevation: 0 to 250 feet
Mean annual precipitation: 40 to 50 inches
Mean annual air temperature: 52 to 57 degrees F
Frost-free period: 180 to 210 days

Map Unit Composition

Dodon and similar soils: 65 percent
Marr and similar soils: 30 percent
Minor components: 5 percent

Description of Dodon

Setting

Landform: Knolls, interfluves
Landform position (three-dimensional): Tread
Down-slope shape: Convex, linear
Across-slope shape: Convex, linear
Parent material: Loamy fluviomarine deposits

Properties and qualities

Slope: 10 to 15 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.60 to 2.00 in/hr)
Depth to water table: About 15 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: High (about 9.8 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 4e
Hydrologic Soil Group: B

Typical profile

0 to 9 inches: Fine sandy loam
9 to 36 inches: Sandy clay loam
36 to 48 inches: Sandy clay loam
48 to 64 inches: Fine sandy loam

Description of Marr

Setting

Landform: Interfluves, knolls
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Loamy fluviomarine deposits

Properties and qualities

Slope: 10 to 15 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.60 to 1.98 in/hr)
Depth to water table: About 40 to 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: High (about 9.5 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 4e
Hydrologic Soil Group: B

Typical profile

0 to 12 inches: Fine sandy loam
12 to 25 inches: Fine sandy loam
25 to 57 inches: Sandy clay loam
57 to 76 inches: Loamy fine sand

Minor Components

Issue

Percent of map unit: 5 percent
Landform: Flood plains, drainageways, drainhead complexes
Down-slope shape: Linear
Across-slope shape: Linear

DwE—Downer-Woodstown complex, 15 to 25 percent slopes

Map Unit Setting

Elevation: 0 to 200 feet
Mean annual precipitation: 40 to 50 inches
Mean annual air temperature: 52 to 57 degrees F
Frost-free period: 180 to 210 days

Map Unit Composition

Downer, .-, and similar soils: 65 percent
Woodstown and similar soils: 25 percent
Minor components: 10 percent

Description of Downer, .-

Setting

Landform: Low hills, knolls
Landform position (three-dimensional): Side slope
Down-slope shape: Linear, convex
Across-slope shape: Linear
Parent material: Loamy fluviomarine deposits and/or gravelly fluviomarine deposits

Properties and qualities

Slope: 15 to 25 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.60 to 6.00 in/hr)
Depth to water table: About 40 to 72 inches
Frequency of flooding: None

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Frequency of ponding: None
Available water capacity: Moderate (about 6.6 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 4e
Hydrologic Soil Group: B

Typical profile

0 to 3 inches: Loamy sand
3 to 16 inches: Loamy sand
16 to 36 inches: Sandy loam
36 to 48 inches: Loamy sand
48 to 80 inches: Stratified sand to sandy loam

Description of Woodstown

Setting

Landform: Fluviomarine terraces, pediments, broad interstream divides, depressions, stream terraces, swales
Landform position (three-dimensional): Tread
Down-slope shape: Linear, concave
Across-slope shape: Linear, concave
Parent material: Loamy fluviomarine deposits

Properties and qualities

Slope: 15 to 25 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.20 to 2.00 in/hr)
Depth to water table: About 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Moderate (about 8.9 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 6e
Hydrologic Soil Group: C

Typical profile

0 to 8 inches: Sandy loam
8 to 28 inches: Loam
28 to 42 inches: Fine sandy loam
42 to 60 inches: Sandy loam
60 to 72 inches: Loamy sand

Minor Components

Galestown

Percent of map unit: 5 percent
Landform: Knolls, fluviomarine terraces, interfluves
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Riser
Down-slope shape: Convex
Across-slope shape: Linear

Issue

Percent of map unit: 5 percent
Landform: Flood plains, drainageways, drainhead complexes
Down-slope shape: Linear
Across-slope shape: Linear

IbC—Ingleside loamy sand, 5 to 10 percent slopes

Map Unit Setting

Elevation: 0 to 90 feet
Mean annual precipitation: 40 to 50 inches
Mean annual air temperature: 52 to 57 degrees F
Frost-free period: 180 to 210 days

Map Unit Composition

Ingleside and similar soils: 80 percent
Galestown and similar soils: 10 percent
Minor components: 10 percent

Description of Ingleside

Setting

Landform: Broad interstream divides, fluviomarine terraces
Landform position (two-dimensional): Summit, backslope, shoulder
Landform position (three-dimensional): Side slope, tread
Down-slope shape: Convex, linear
Across-slope shape: Convex, linear
Parent material: Loamy eolian deposits and/or fluviomarine deposits

Properties and qualities

Slope: 5 to 10 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high
(0.06 to 5.95 in/hr)
Depth to water table: About 40 to 72 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Moderate (about 6.6 inches)

Interpretive groups

Farmland classification: Farmland of statewide importance
Land capability (nonirrigated): 3e
Hydrologic Soil Group: B

Typical profile

0 to 10 inches: Loamy sand
10 to 15 inches: Sandy loam
15 to 33 inches: Sandy loam

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33 to 43 inches: Sandy loam
43 to 56 inches: Loamy sand
56 to 80 inches: Silt loam

Description of Galestown

Setting

Landform: Interfluves, knolls, fluviomarine terraces
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Riser
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Sandy eolian deposits and/or fluviomarine deposits

Properties and qualities

Slope: 5 to 10 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat excessively drained
Capacity of the most limiting layer to transmit water (Ksat): High to very high (6.00 to 19.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 5.8 inches)

Interpretive groups

Farmland classification: Farmland of statewide importance
Land capability (nonirrigated): 4e
Hydrologic Soil Group: A

Typical profile

0 to 3 inches: Sand
3 to 21 inches: Loamy sand
21 to 48 inches: Loamy sand
48 to 72 inches: Loamy sand

Minor Components

Hammonton

Percent of map unit: 10 percent
Landform: Flats, depressions, drainageways
Down-slope shape: Linear, concave
Across-slope shape: Linear, concave

1eC—Ingleside-Evesboro complex, 5 to 10 percent slopes

Map Unit Setting

Elevation: 0 to 190 feet
Mean annual precipitation: 40 to 50 inches
Mean annual air temperature: 52 to 57 degrees F

Frost-free period: 180 to 220 days

Map Unit Composition

Ingleside and similar soils: 70 percent
Evesboro and similar soils: 25 percent
Minor components: 5 percent

Description of Ingleside

Setting

Landform: Fluvio-marine terraces, broad interstream divides
Landform position (two-dimensional): Summit, backslope, shoulder
Landform position (three-dimensional): Side slope, tread
Down-slope shape: Linear, convex
Across-slope shape: Linear, convex
Parent material: Loamy eolian deposits and/or fluvio-marine deposits

Properties and qualities

Slope: 5 to 10 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high (0.06 to 5.95 in/hr)
Depth to water table: About 40 to 72 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Moderate (about 6.6 inches)

Interpretive groups

Farmland classification: Farmland of statewide importance
Land capability (nonirrigated): 3e
Hydrologic Soil Group: B

Typical profile

0 to 10 inches: Loamy sand
10 to 15 inches: Sandy loam
15 to 33 inches: Sandy loam
33 to 43 inches: Sandy loam
43 to 56 inches: Loamy sand
56 to 80 inches: Silt loam

Description of Evesboro

Setting

Landform: Knolls, dunes
Landform position (three-dimensional): Rise
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Sandy eolian deposits and/or fluvio-marine sediments

Properties and qualities

Slope: 5 to 10 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Capacity of the most limiting layer to transmit water (Ksat): High to very high (6.38 to 99.90 in/hr)
Depth to water table: More than 80 inches

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Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 3.7 inches)

Interpretive groups

Farmland classification: Farmland of statewide importance
Land capability (nonirrigated): 4e
Hydrologic Soil Group: A

Typical profile

0 to 4 inches: Sand
4 to 16 inches: Loamy sand
16 to 39 inches: Loamy sand
39 to 80 inches: Sand

Minor Components

Hammonton

Percent of map unit: 5 percent
Landform: Flats, drainageways, depressions
Down-slope shape: Linear, concave
Across-slope shape: Linear, concave

IgB—Ingleside-Galestown complex, 0 to 5 percent slopes

Map Unit Setting

Elevation: 0 to 180 feet
Mean annual precipitation: 40 to 50 inches
Mean annual air temperature: 52 to 57 degrees F
Frost-free period: 180 to 210 days

Map Unit Composition

Ingleside and similar soils: 50 percent
Galestown and similar soils: 50 percent

Description of Galestown

Setting

Landform: Knolls, fluvio-marine terraces, interfluves
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Riser
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Sandy eolian deposits and/or fluvio-marine deposits

Properties and qualities

Slope: 0 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat excessively drained

Custom Soil Resource Report

Capacity of the most limiting layer to transmit water (Ksat): High to very high (6.00 to 19.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water capacity: Low (about 5.8 inches)

Interpretive groups

Farmland classification: All areas are prime farmland

Land capability (nonirrigated): 3s

Hydrologic Soil Group: A

Typical profile

0 to 3 inches: Sand

3 to 21 inches: Loamy sand

21 to 48 inches: Loamy sand

48 to 72 inches: Loamy sand

Description of Ingleside

Setting

Landform: Fluvio-marine terraces, broad interstream divides

Landform position (two-dimensional): Summit, backslope, shoulder

Landform position (three-dimensional): Side slope, tread

Down-slope shape: Linear, convex

Across-slope shape: Linear, convex

Parent material: Loamy eolian deposits and/or fluvio-marine deposits

Properties and qualities

Slope: 0 to 5 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high (0.06 to 5.95 in/hr)

Depth to water table: About 40 to 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water capacity: Moderate (about 6.6 inches)

Interpretive groups

Farmland classification: All areas are prime farmland

Land capability (nonirrigated): 2e

Hydrologic Soil Group: B

Typical profile

0 to 10 inches: Loamy sand

10 to 15 inches: Sandy loam

15 to 33 inches: Sandy loam

33 to 43 inches: Sandy loam

43 to 56 inches: Loamy sand

56 to 80 inches: Silt loam

lwC—Ingleside-Woodstown complex, 5 to 10 percent slopes

Map Unit Setting

Elevation: 0 to 190 feet

Mean annual precipitation: 40 to 50 inches

Mean annual air temperature: 52 to 57 degrees F

Frost-free period: 180 to 210 days

Map Unit Composition

Ingleside and similar soils: 70 percent

Woodstown and similar soils: 20 percent

Minor components: 10 percent

Description of Ingleside

Setting

Landform: Broad interstream divides, fluviomarine terraces

Landform position (two-dimensional): Summit, backslope, shoulder

Landform position (three-dimensional): Side slope, tread

Down-slope shape: Convex, linear

Across-slope shape: Convex, linear

Parent material: Loamy eolian deposits and/or fluviomarine deposits

Properties and qualities

Slope: 5 to 10 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high
(0.06 to 5.95 in/hr)

Depth to water table: About 40 to 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water capacity: Moderate (about 6.6 inches)

Interpretive groups

Farmland classification: Farmland of statewide importance

Land capability (nonirrigated): 3e

Hydrologic Soil Group: B

Typical profile

0 to 10 inches: Loamy sand

10 to 15 inches: Sandy loam

15 to 33 inches: Sandy loam

33 to 43 inches: Sandy loam

43 to 56 inches: Loamy sand

56 to 80 inches: Silt loam

Description of Woodstown

Setting

Landform: Fluviomarine terraces, pediments, broad interstream divides, depressions, stream terraces, swales

Landform position (three-dimensional): Tread

Down-slope shape: Linear, concave

Across-slope shape: Linear, concave

Parent material: Loamy fluviomarine deposits

Properties and qualities

Slope: 5 to 10 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Moderately well drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.20 to 2.00 in/hr)

Depth to water table: About 20 to 42 inches

Frequency of flooding: None

Frequency of ponding: None

Available water capacity: Moderate (about 8.9 inches)

Interpretive groups

Farmland classification: Farmland of statewide importance

Land capability (nonirrigated): 3e

Hydrologic Soil Group: C

Typical profile

0 to 8 inches: Sandy loam

8 to 28 inches: Loam

28 to 42 inches: Fine sandy loam

42 to 60 inches: Sandy loam

60 to 72 inches: Loamy sand

Minor Components

Issue

Percent of map unit: 10 percent

Landform: Drainhead complexes, flood plains, drainageways

Down-slope shape: Linear

Across-slope shape: Linear

MaA—Marr-Dodon complex, 0 to 2 percent slopes

Map Unit Setting

Elevation: 10 to 200 feet

Mean annual precipitation: 40 to 50 inches

Mean annual air temperature: 52 to 57 degrees F

Frost-free period: 180 to 210 days

Map Unit Composition

Marr and similar soils: 80 percent
Dodon and similar soils: 20 percent

Description of Marr

Setting

Landform: Knolls, interfluves
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Loamy fluviomarine deposits

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.60 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: High (about 9.5 inches)

Interpretive groups

Farmland classification: All areas are prime farmland
Land capability (nonirrigated): 1
Hydrologic Soil Group: B

Typical profile

0 to 12 inches: Fine sandy loam
12 to 25 inches: Fine sandy loam
25 to 57 inches: Sandy clay loam
57 to 76 inches: Loamy fine sand

Description of Dodon

Setting

Landform: Stream terraces
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Loamy fluviomarine deposits

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.60 to 2.00 in/hr)
Depth to water table: About 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: High (about 9.8 inches)

Interpretive groups

Farmland classification: All areas are prime farmland

Land capability (nonirrigated): 2w
Hydrologic Soil Group: B

Typical profile

0 to 9 inches: Fine sandy loam
9 to 36 inches: Sandy clay loam
36 to 48 inches: Sandy clay loam
48 to 64 inches: Fine sandy loam

MaB—Marr-Dodon complex, 2 to 5 percent slopes

Map Unit Setting

Elevation: 0 to 200 feet
Mean annual precipitation: 40 to 50 inches
Mean annual air temperature: 52 to 57 degrees F
Frost-free period: 180 to 210 days

Map Unit Composition

Marr and similar soils: 45 percent
Dodon and similar soils: 35 percent
Minor components: 20 percent

Description of Marr

Setting

Landform: Interfluves, knolls
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Loamy fluviomarine deposits

Properties and qualities

Slope: 2 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.60 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: High (about 9.5 inches)

Interpretive groups

Farmland classification: All areas are prime farmland
Land capability (nonirrigated): 2e
Hydrologic Soil Group: B

Typical profile

0 to 12 inches: Fine sandy loam
12 to 25 inches: Fine sandy loam
25 to 57 inches: Sandy clay loam

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57 to 76 inches: Loamy fine sand

Description of Dodon

Setting

Landform: Stream terraces
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Loamy fluviomarine deposits

Properties and qualities

Slope: 2 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.60 to 2.00 in/hr)
Depth to water table: About 20 to 40 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: High (about 9.8 inches)

Interpretive groups

Farmland classification: All areas are prime farmland
Land capability (nonirrigated): 2e
Hydrologic Soil Group: B

Typical profile

0 to 9 inches: Fine sandy loam
9 to 36 inches: Sandy clay loam
36 to 48 inches: Sandy clay loam
48 to 64 inches: Fine sandy loam

Minor Components

Hambrook

Percent of map unit: 10 percent
Landform: Broad interstream divides, interfluves, fluviomarine terraces
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear

Liverpool

Percent of map unit: 10 percent
Landform: Terraces
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear

RsB—Rosedale fine sand, 0 to 5 percent slopes

Map Unit Setting

Elevation: 0 to 180 feet
Mean annual precipitation: 40 to 50 inches
Mean annual air temperature: 52 to 57 degrees F
Frost-free period: 180 to 210 days

Map Unit Composition

Rosedale and similar soils: 95 percent
Minor components: 5 percent

Description of Rosedale

Setting

Landform: Terraces
Landform position (three-dimensional): Tread
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Loamy alluvium over sandy alluvium

Properties and qualities

Slope: 0 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.57 to 5.95 in/hr)
Depth to water table: About 30 to 72 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 4.2 inches)

Interpretive groups

Farmland classification: Prime farmland if irrigated
Land capability (nonirrigated): 2e
Hydrologic Soil Group: A

Typical profile

0 to 8 inches: Fine sand
8 to 24 inches: Fine sand
24 to 36 inches: Sandy loam
36 to 42 inches: Loamy sand
42 to 84 inches: Sand

Minor Components

Galestown

Percent of map unit: 5 percent
Landform: Interfluves, fluviomarine terraces, knolls

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Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Riser
Down-slope shape: Convex
Across-slope shape: Linear

W—Water

Map Unit Composition

Water: 100 percent

WdA—Woodstown sandy loam, 0 to 2 percent slopes

Map Unit Setting

Elevation: 0 to 150 feet
Mean annual precipitation: 40 to 50 inches
Mean annual air temperature: 52 to 57 degrees F
Frost-free period: 180 to 210 days

Map Unit Composition

Woodstown and similar soils: 85 percent
Minor components: 15 percent

Description of Woodstown

Setting

Landform: Swales, drainhead complexes, interfluves, depressions, broad interstream divides, fluvio-marine terraces
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear, concave
Across-slope shape: Concave, linear
Parent material: Loamy fluvio-marine deposits

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.20 to 2.00 in/hr)
Depth to water table: About 20 to 42 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Moderate (about 8.9 inches)

Interpretive groups

Farmland classification: All areas are prime farmland
Land capability (nonirrigated): 2w
Hydrologic Soil Group: C

Typical profile

- 0 to 8 inches:* Sandy loam
- 8 to 28 inches:* Loam
- 28 to 42 inches:* Fine sandy loam
- 42 to 60 inches:* Sandy loam
- 60 to 72 inches:* Loamy sand

Minor Components

Annemessex

- Percent of map unit:* 10 percent
- Landform:* Fluvio-marine terraces, stream terraces
- Landform position (three-dimensional):* Tread
- Down-slope shape:* Linear
- Across-slope shape:* Concave

Fallsington

- Percent of map unit:* 5 percent
- Landform:* Flats, depressions, swales
- Landform position (three-dimensional):* Talf
- Down-slope shape:* Linear, concave
- Across-slope shape:* Linear, concave

ZBA—Zekiah and Issue soils, 0 to 2 percent slopes, frequently flooded

Map Unit Setting

- Elevation:* 0 to 600 feet
- Mean annual precipitation:* 40 to 50 inches
- Mean annual air temperature:* 50 to 57 degrees F
- Frost-free period:* 180 to 210 days

Map Unit Composition

- Zekiah and similar soils:* 40 percent
- Issue and similar soils:* 40 percent
- Minor components:* 20 percent

Description of Issue

Setting

- Landform:* Flood plains, drainhead complexes, drainageways
- Down-slope shape:* Linear
- Across-slope shape:* Linear
- Parent material:* Loamy alluvium

Properties and qualities

- Slope:* 0 to 2 percent
- Depth to restrictive feature:* More than 80 inches
- Drainage class:* Somewhat poorly drained
- Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high (0.60 to 2.00 in/hr)

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Depth to water table: About 10 to 20 inches
Frequency of flooding: Occasional
Frequency of ponding: None
Available water capacity: High (about 9.9 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 5w
Hydrologic Soil Group: C

Typical profile

0 to 4 inches: Silt loam
4 to 19 inches: Loam
19 to 30 inches: Fine sandy loam
30 to 58 inches: Fine sandy loam
58 to 70 inches: Silt loam

Description of Zekiah

Setting

Landform: Flood plains, drainageways
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Loamy alluvium

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.05 to 1.42 in/hr)
Depth to water table: About 0 to 10 inches
Frequency of flooding: Frequent
Frequency of ponding: Frequent
Available water capacity: High (about 10.9 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 5w
Hydrologic Soil Group: D

Typical profile

0 to 10 inches: Silt loam
10 to 35 inches: Silt loam
35 to 60 inches: Mucky silt loam
60 to 72 inches: Sandy loam

Minor Components

Widewater

Percent of map unit: 10 percent
Landform: Drainageways, flood plains
Down-slope shape: Linear
Across-slope shape: Linear

Fallsington

Percent of map unit: 5 percent
Landform: Depressions, swales, drainageways

Custom Soil Resource Report

Down-slope shape: Concave, linear
Across-slope shape: Concave

Longmarsh

Percent of map unit: 5 percent
Landform: Flood plains
Down-slope shape: Linear
Across-slope shape: Linear

Soil Information for All Uses

Soil Properties and Qualities

The Soil Properties and Qualities section includes various soil properties and qualities displayed as thematic maps with a summary table for the soil map units in the selected area of interest. A single value or rating for each map unit is generated by aggregating the interpretive ratings of individual map unit components. This aggregation process is defined for each property or quality.

Soil Qualities and Features

Soil qualities are behavior and performance attributes that are not directly measured, but are inferred from observations of dynamic conditions and from soil properties. Example soil qualities include natural drainage, and frost action. Soil features are attributes that are not directly part of the soil. Example soil features include slope and depth to restrictive layer. These features can greatly impact the use and management of the soil.

Hydrologic Soil Group

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

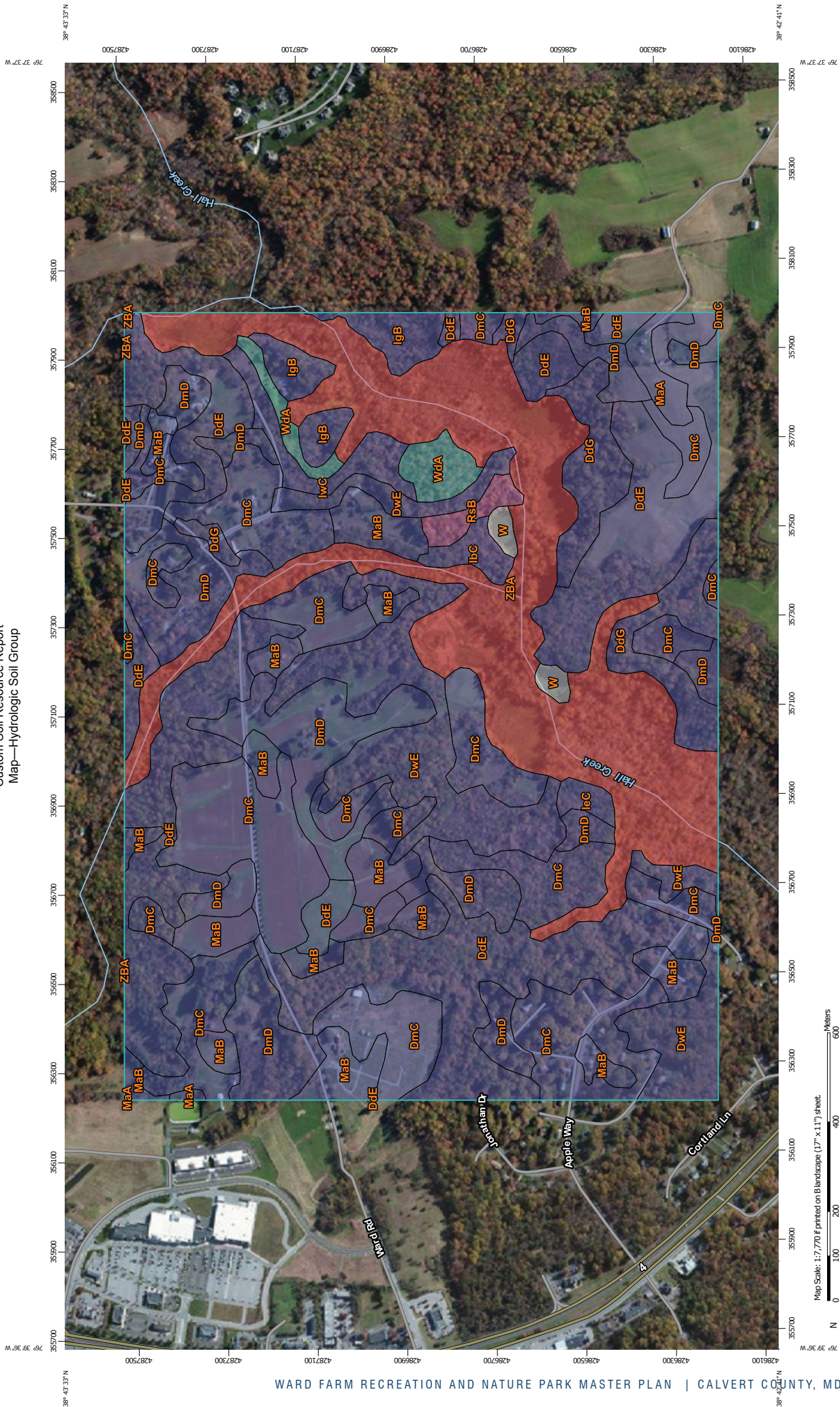
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Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Custom Soil Resource Report
Map—Hydrologic Soil Group



Map Scale: 1:7,770 if printed on Blandscape (17" x 11") sheet.
 0 100 200 400 600 Meters
 0 350 700 1400 2100 Feet
 Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84

MAP LEGEND

Area of Interest (AOI)
 Area of Interest (AOI)

Soils

Soil Rating Polygons

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

Soil Rating Lines

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points

- A
- A/D
- B
- B/D

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.
 Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Calvert County, Maryland
 Survey Area Data: Version 10, Dec 11, 2013

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 14, 2011—Nov 12, 2011

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map-unit boundaries may be evident.

Table—Hydrologic Soil Group

Hydrologic Soil Group— Summary by Map Unit — Calvert County, Maryland (MD009)				
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
DdE	Dodon and Marr soils, 15 to 25 percent slopes	B	127.2	21.9%
DdG	Dodon and Marr soils, 25 to 80 percent slopes	B	24.8	4.3%
DmC	Dodon-Marr complex, 5 to 10 percent slopes	B	118.4	20.4%
DmD	Dodon-Marr complex, 10 to 15 percent slopes	B	67.4	11.6%
DwE	Downer-Woodstown complex, 15 to 25 percent slopes	B	52.9	9.1%
lbC	Ingleside loamy sand, 5 to 10 percent slopes	B	3.5	0.6%
leC	Ingleside-Evesboro complex, 5 to 10 percent slopes	B	2.2	0.4%
IgB	Ingleside-Galestown complex, 0 to 5 percent slopes	B	11.6	2.0%
IwC	Ingleside-Woodstown complex, 5 to 10 percent slopes	B	7.2	1.2%
MaA	Marr-Dodon complex, 0 to 2 percent slopes	B	4.5	0.8%
MaB	Marr-Dodon complex, 2 to 5 percent slopes	B	38.4	6.6%
RsB	Rosedale fine sand, 0 to 5 percent slopes	A	3.3	0.6%
W	Water		2.5	0.4%
WdA	Woodstown sandy loam, 0 to 2 percent slopes	C	7.6	1.3%
ZBA	Zekiah and Issue soils, 0 to 2 percent slopes, frequently flooded	D	109.0	18.8%
Totals for Area of Interest			580.6	100.0%

Rating Options—Hydrologic Soil Group

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Drainage Class

"Drainage class (natural)" refers to the frequency and duration of wet periods under conditions similar to those under which the soil formed. Alterations of the water regime by human activities, either through drainage or irrigation, are not a consideration unless they have significantly changed the morphology of the soil. Seven classes of natural soil drainage are recognized-excessively drained, somewhat excessively drained, well drained, moderately well drained, somewhat poorly drained, poorly drained, and very poorly drained. These classes are defined in the "Soil Survey Manual."

Custom Soil Resource Report
Map—Drainage Class



MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.


















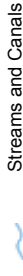



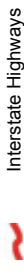
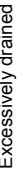
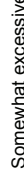
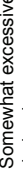


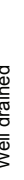
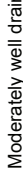


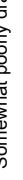
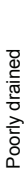
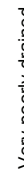

Soil Survey Area: Calvert County, Maryland
 Survey Area Data: Version 10, Dec 11, 2013

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 14, 2011—Nov 12, 2011

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map-unit boundaries may be evident.

MAP LEGEND

Area of Interest (AOI)	 Excessively drained
 Area of Interest (AOI)	 Somewhat excessively drained
Soils	 Well drained
Soil Rating Polygons	 Moderately well drained
 Excessively drained	 Somewhat poorly drained
 Somewhat excessively drained	 Poorly drained
 Well drained	 Very poorly drained
 Moderately well drained	 Subaqueous
 Somewhat poorly drained	 Not rated or not available
 Poorly drained	Water Features
 Very poorly drained	 Streams and Canals
 Subaqueous	Transportation
 Not rated or not available	 Rails
Soil Rating Lines	 Interstate Highways
 Excessively drained	 US Routes
 Somewhat excessively drained	 Major Roads
 Well drained	 Local Roads
 Moderately well drained	Background
 Somewhat poorly drained	 Aerial Photography
 Poorly drained	
 Very poorly drained	
 Subaqueous	
 Not rated or not available	
Soil Rating Points	

Table—Drainage Class

Drainage Class— Summary by Map Unit — Calvert County, Maryland (MD009)				
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
DdE	Dodon and Marr soils, 15 to 25 percent slopes	Moderately well drained	127.2	21.9%
DdG	Dodon and Marr soils, 25 to 80 percent slopes	Moderately well drained	24.8	4.3%
DmC	Dodon-Marr complex, 5 to 10 percent slopes	Moderately well drained	118.4	20.4%
DmD	Dodon-Marr complex, 10 to 15 percent slopes	Moderately well drained	67.4	11.6%
DwE	Downer-Woodstown complex, 15 to 25 percent slopes	Well drained	52.9	9.1%
lbC	Ingleside loamy sand, 5 to 10 percent slopes	Well drained	3.5	0.6%
leC	Ingleside-Evesboro complex, 5 to 10 percent slopes	Well drained	2.2	0.4%
IgB	Ingleside-Galestown complex, 0 to 5 percent slopes	Well drained	11.6	2.0%
IwC	Ingleside-Woodstown complex, 5 to 10 percent slopes	Well drained	7.2	1.2%
MaA	Marr-Dodon complex, 0 to 2 percent slopes	Well drained	4.5	0.8%
MaB	Marr-Dodon complex, 2 to 5 percent slopes	Well drained	38.4	6.6%
RsB	Rosedale fine sand, 0 to 5 percent slopes	Well drained	3.3	0.6%
W	Water		2.5	0.4%
WdA	Woodstown sandy loam, 0 to 2 percent slopes	Moderately well drained	7.6	1.3%
ZBA	Zekiah and Issue soils, 0 to 2 percent slopes, frequently flooded	Poorly drained	109.0	18.8%
Totals for Area of Interest			580.6	100.0%

Rating Options—Drainage Class

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

References

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United States Department of Agriculture, Natural Resources Conservation Service. National range and pasture handbook. <http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/landuse/rangepasture/?cid=stelprdb1043084>

Custom Soil Resource Report

United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2_054242

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APPENDIX:
FOREST STAND DELINEATION

DATE	
BY	
APPROVED BY	
REVISIONS	



Calvert County Parks
175 Main Street
Poolesville, Maryland 20689
410-336-1600

DATE PLAN _____

DATE SCALE _____

SCALE: 1" = 100'

DATE _____

SCALE: 1" = 100'

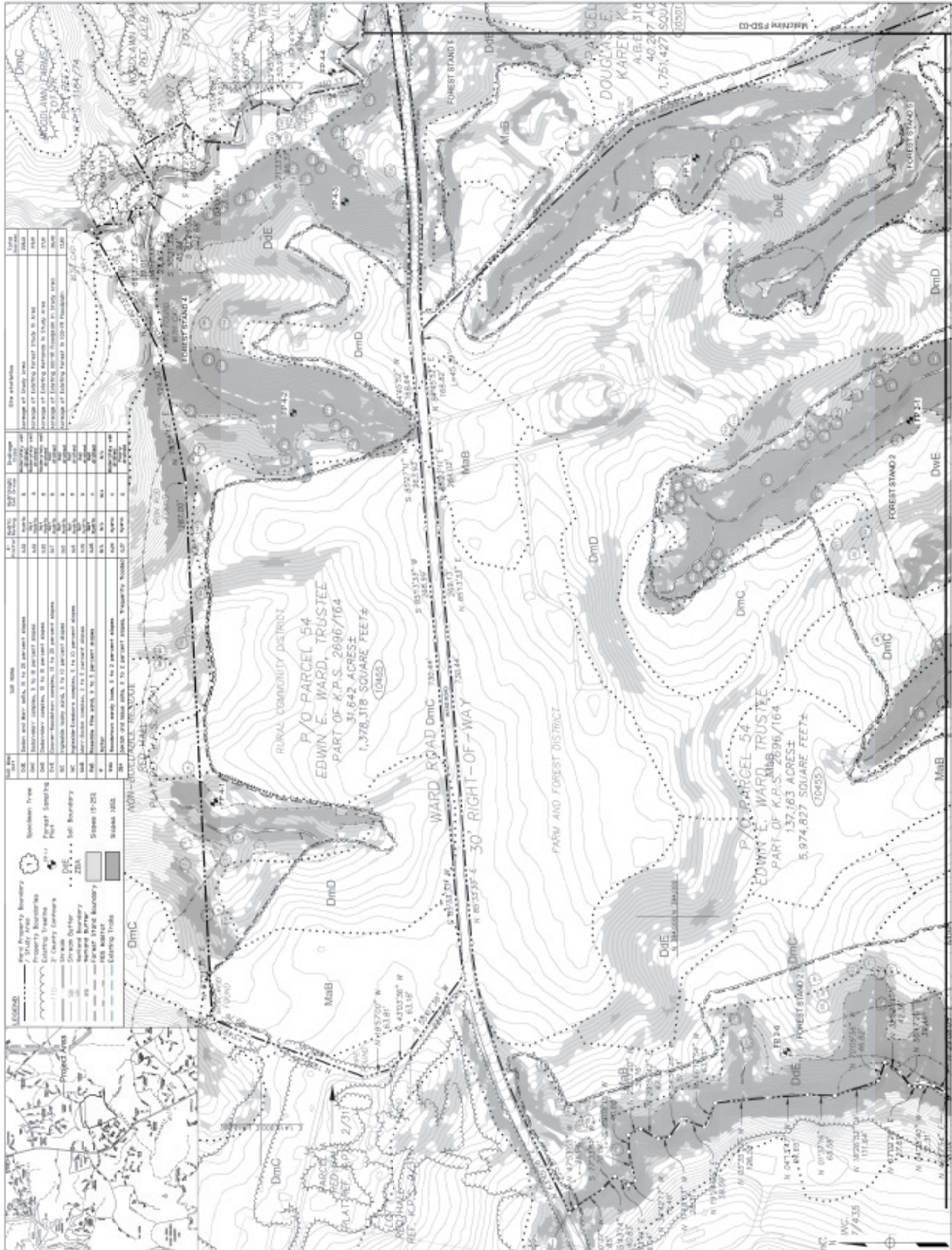
DATE _____

SCALE: 1" = 100'



WHITMAN, REQUARDT & ASSOCIATES, LLP
100 South Central Expressway, Maryland 21117

FSD-01	Drawing No.
WARD ROAD PARK FOREST STAND DELINEATION	
Date: April 21, 2014	Sheet: 1 of 3
Drawn: JRS	Printed: JRS
Checked: UC	



APPENDIX:
**MARYLAND DEPARTMENT OF
NATURAL RESOURCES LETTER**



Martin O'Malley, Governor
Anthony G. Brown, Lt. Governor
Joseph P. Gill, Secretary
Frank W. Dawson III, Deputy Secretary

May 29, 2014

Mr. James Ashby
Whitman, Requardt and Assoc., LLP
801 South Caroline Street
Baltimore, MD 21231

RE: Environmental Review for Ward Road Park, Proposed New County Park, Dunkirk, Calvert County, Maryland.

Dear Mr. Ashby:

The Wildlife and Heritage Service has determined that there are no State or Federal records for rare, threatened or endangered species within the boundaries of the project site as delineated. This statement should not be interpreted however as meaning that rare, threatened or endangered species are not in fact present. If appropriate habitat is available, certain species could be present without documentation because adequate surveys have not been conducted. It is also important to note that the utilization of state funds, or the need to obtain a state authorized permit may warrant additional evaluations that could lead to protection or survey recommendations by the Wildlife and Heritage Service. If this project falls into one of these categories, please contact us for further coordination.

Our analysis of the information provided also suggests that the forested area on the project site contains Forest Interior Dwelling Bird habitat. Populations of many Forest Interior Dwelling Bird species (FIDS) are declining in Maryland and throughout the eastern United States. The conservation of FIDS habitat is strongly encouraged by the Department of Natural Resources. The following guidelines could be incorporated as appropriate into the site design to help minimize the project's impacts on FIDS and other native forest plants and wildlife:

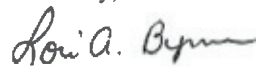
1. Restrict development to nonforested areas.
2. If forest loss or disturbance is unavoidable, concentrate or restrict development to the following areas:
 - a. the perimeter of the forest (i.e., within 300 feet of existing forest edge)
 - b. thin strips of upland forest less than 300 feet wide
 - c. small, isolated forests less than 50 acres in size
 - d. portions of the forest with low quality FIDS habitat, (i.e., areas that are already heavily fragmented, relatively young, exhibit low structural diversity, etc.)
3. Maximize the amount of forest "interior" (forest area >300 feet from the forest edge) within each forest tract (i.e., minimize the forest edge:area ratio). Circular forest tracts are ideal and square tracts are better than rectangular or long, linear forests.
4. Minimize forest isolation. Generally, forests that are adjacent, close to, or connected to other forests provide higher quality FIDS habitat than more isolated forests.

Towers State Office Building – 580 Taylor Avenue – Annapolis, Maryland 21401

5. Limit forest removal to the “footprint” of houses and to that which is necessary for the placement of roads and driveways.
6. Minimize the number and length of driveways and roads.
7. Roads and driveways should be as narrow and as short as possible; preferably less than 25 and 15 feet, respectively
8. Maintain forest canopy closure over roads and driveways.
9. Maintain forest habitat up to the edges of roads and driveways; do not create or maintain mowed grassy berms.
10. Maintain or create wildlife corridors.
11. Do not remove or disturb forest habitat during April-August, the breeding season for most FIDS. This seasonal restriction may be expanded to February-August if certain early nesting FIDS (e.g., Barred Owl) are present.
12. Landscape homes with native trees, shrubs and other plants and/or encourage homeowners to do so.
13. Encourage homeowners to keep pet cats indoors or, if taken outside, kept on a leash or inside a fenced area.
14. In forested areas reserved from development, promote the development of a diverse forest understory by removing livestock from forested areas and controlling white-tailed deer populations. Do not mow the forest understory or remove woody debris and snags.
15. Afforestation efforts should target a) riparian or streamside areas that lack woody vegetative buffers, b) forested riparian areas less than 300 feet wide, and c) gaps or peninsulas of nonforested habitat within or adjacent to existing FIDS habitat.

Thank you for allowing us the opportunity to review this project. If you should have any further questions regarding this information, please contact me at (410) 260-8573.

Sincerely,



Lori A. Byrne,
Environmental Review Coordinator
Wildlife and Heritage Service
MD Dept. of Natural Resources

ER# 2014.0631.ct

APPENDIX:
**U.S. FISH & WILDLIFE SERVICE
LETTER**



United States Department of the Interior

FISH AND WILDLIFE SERVICE
Chesapeake Bay Ecological Services Field Office
177 ADMIRAL COCHRANE DRIVE
ANNAPOLIS, MD 21401
PHONE: (410)573-4599 FAX: (410)266-9127



Consultation Tracking Number: 05E2CB00-2014-SLI-1773

Project Name: Ward Road

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project.

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the

human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment



United States Department of Interior
Fish and Wildlife Service

Project name: Ward Road

Preliminary Species list

Provided by:

Chesapeake Bay Ecological Services Field Office
177 ADMIRAL COCHRANE DRIVE
ANNAPOLIS, MD 21401
(410) 573-4599

Consultation Tracking Number: 05E2CB00-2014-SLI-1773

Project Type: Recreation Construction / Maintenance

Project Description: Construct a new park for outdoor recreation

Preliminary



United States Department of Interior
Fish and Wildlife Service

Project name: Ward Road

Project Location Map:



Project Coordinates: MULTIPOLYGON (((-76.6510854 38.7236917, -76.6430178 38.7245433, -76.6402283 38.7221862, -76.6377153 38.7167186, -76.6413441 38.7174651, -76.6430261 38.7175273, -76.6447062 38.7173213, -76.6473777 38.7154814, -76.6485534 38.7158583, -76.6498408 38.7174639, -76.650742 38.7209462, -76.6510854 38.7236917)))

Project Counties: Calvert, MD



United States Department of Interior
Fish and Wildlife Service

Project name: Ward Road

Endangered Species Act Species List

There are a total of 0 threatened or endangered species on your species list. Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Critical habitats listed under the **Has Critical Habitat** column may or may not lie within your project area. See the **Critical habitats within your project area** section further below for critical habitat that lies within your project. Please contact the designated FWS office if you have questions.

There are no listed species identified for the vicinity of your project.

Preliminary



United States Department of Interior
Fish and Wildlife Service

Project name: Ward Road

Critical habitats that lie within your project area

There are no critical habitats within your project area.

Preliminary

APPENDIX:
MASTER PLAN ALTERNATIVES

FIGURE 19. ALTERNATIVE A

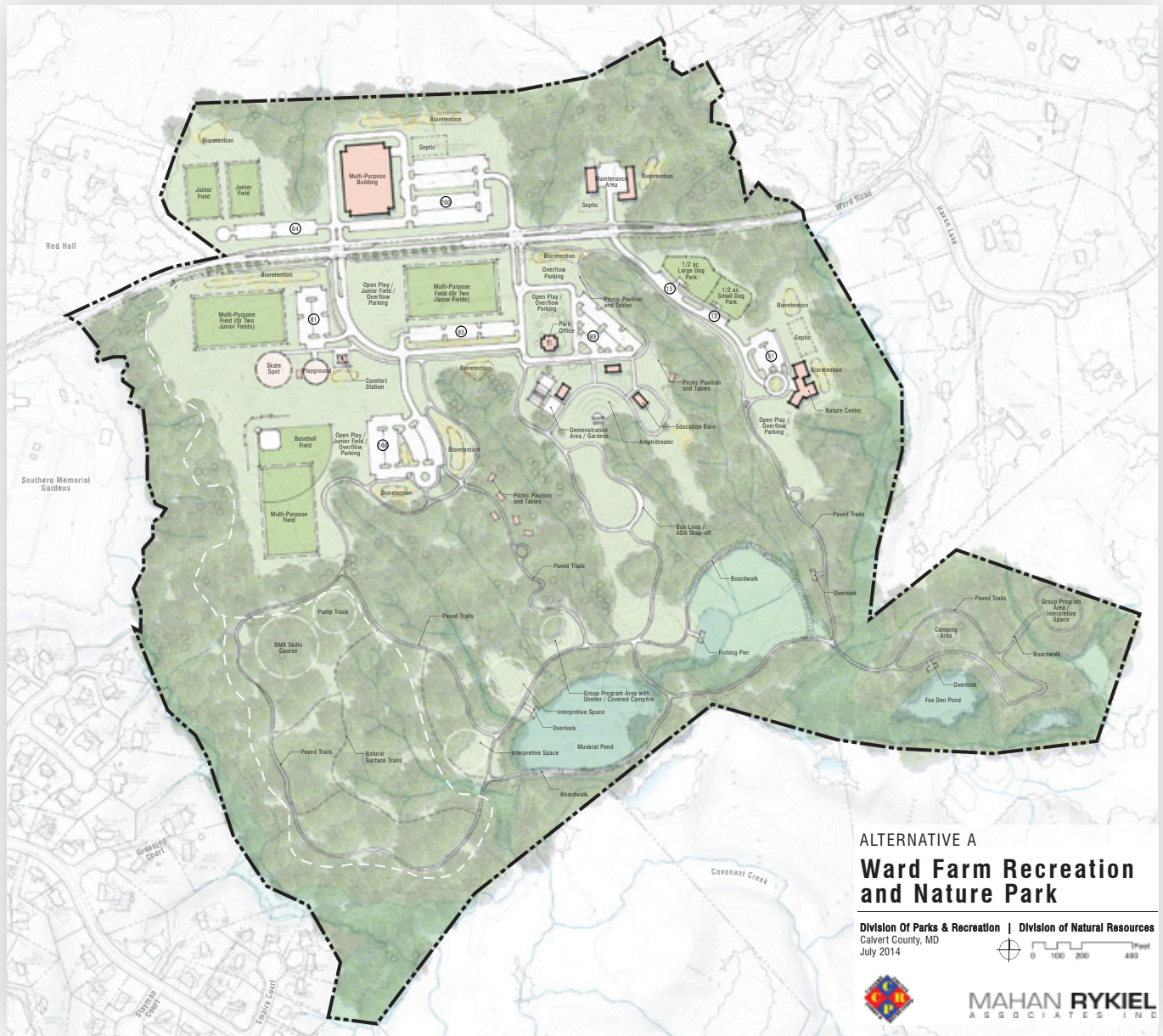


FIGURE 20. ALTERNATIVE B

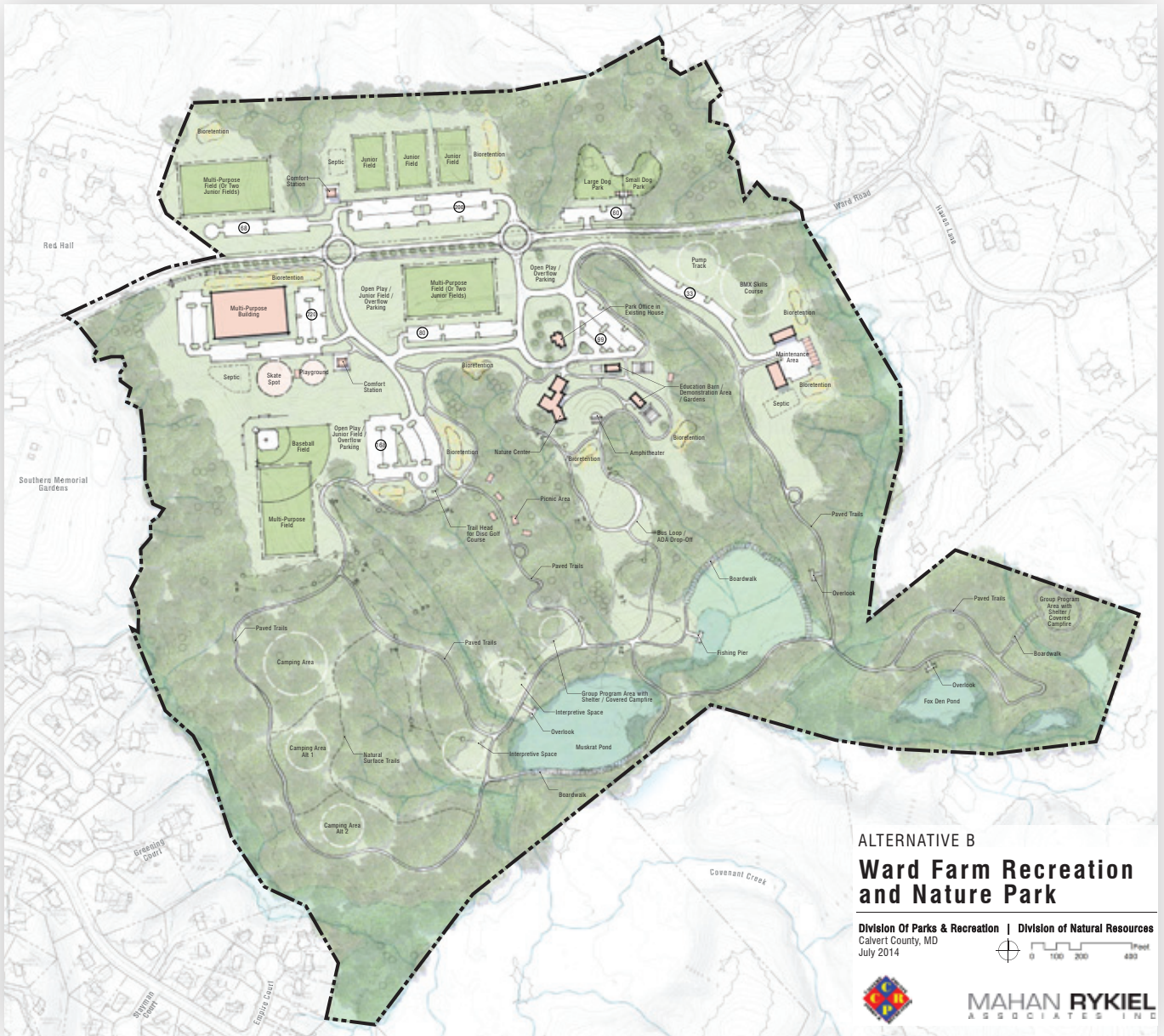
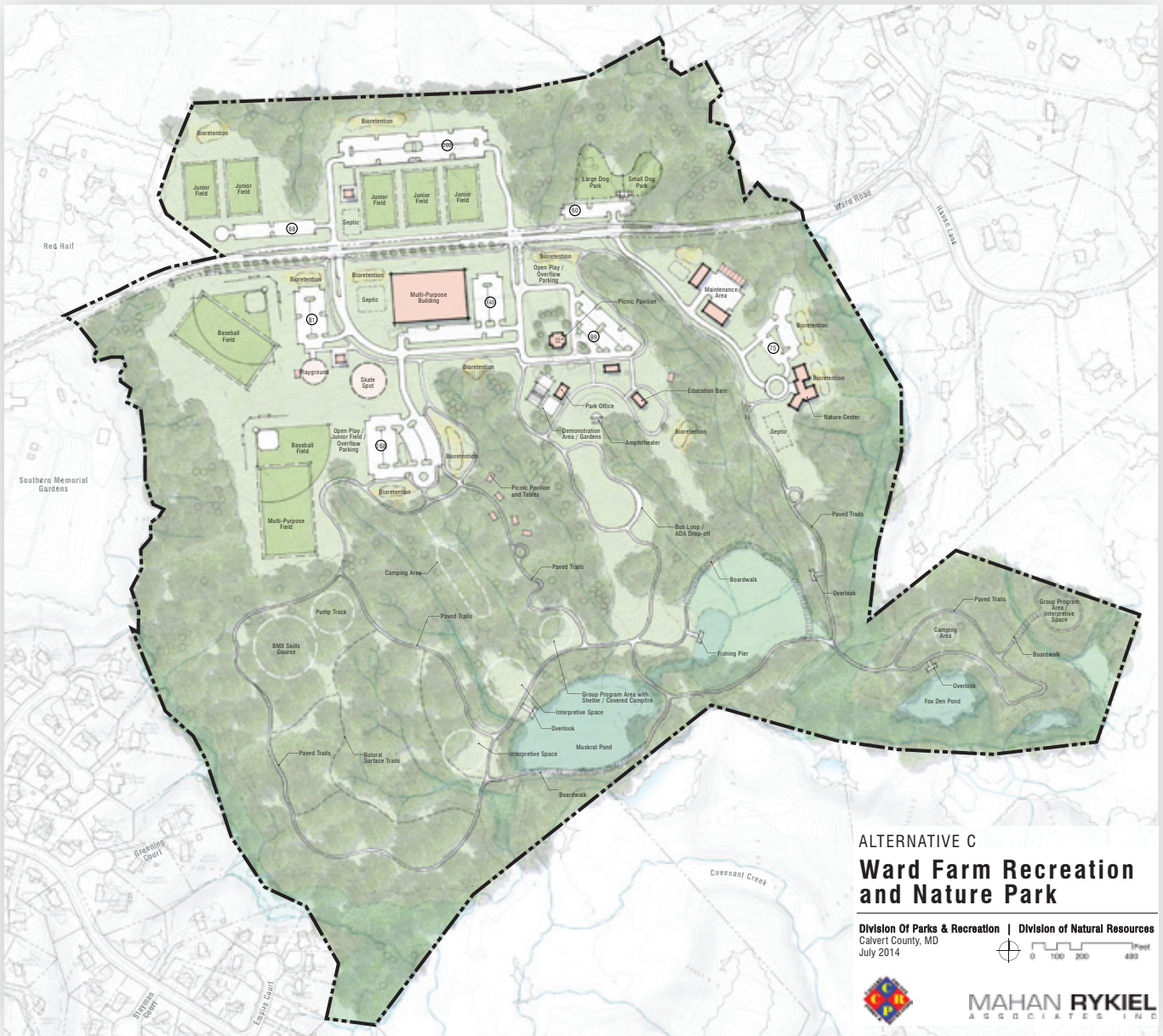


FIGURE 21. ALTERNATIVE C



APPENDIX:
DETAILED COST ESTIMATE

COST ESTIMATE WORKSHEET- Draft

Project: **Ward Road Park Master Plan**
Proj. No.: 14021

Prepared by: CO
Checked by: CB
Date: 9/18/2014

Area

Ward Road Improvements	\$	1,263,808.00
Well and Water Distribution System	\$	1,237,600.00
Phase 1a - Rec Fields South - Upper Terrace	\$	5,939,609.80
Phase 1b - Rec Fields South - Lower Terrace	\$	4,560,450.34
Phase 1c - Existing House Renovation	\$	150,000.00
Phase 2 - Rec Fields North	\$	3,764,856.85
Phase 3 - Dog Park	\$	987,362.13
Phase 4 Nature Center, Parking, and Educational Area	\$	4,197,524.93
Phase 5 - Maintenance Facility	\$	2,425,586.80
Phase 6 - Picnic/Camp Area	\$	1,846,474.93
Phase 7 - Trail System	\$	2,378,068.62
Total	\$	28,751,342.42

COST ESTIMATE WORKSHEET- Draft

Project: **Ward Road Park Master Plan**
 Proj. No.: 14021

Prepared by: CO
 Checked by: CB
 Date: 9/18/2014

ITEM	DESCRIPTION	QTY.	UNIT	COST	TOTAL
Ward Road Improvements					
1	Roadway Improvements allowance (Ward Road)	1	LS	700,000.00 \$	700,000.00
2	Maintenance of Traffic (Ward Road)	1	LS	20,000.00 \$	20,000.00
3	Utility Relocation Allowance (Ward Road)	1	LS	60,000.00 \$	60,000.00
4	Split Rail Fence	4,400	LF	20.00 \$	88,000.00
Contingency				30% \$	260,400.00
				Subtotal	\$ 1,128,400.00
				A & E Fees @ 12%	\$ 135,408.00
				Total Road Improvements	\$ 1,263,808.00

ITEM	DESCRIPTION	QTY.	UNIT	COST	TOTAL
Well and Water Distribution System					
1	Well, control, pump, small hydro pneumatic tank, building, permitting	1	LS	850,000.00 \$	850,000.00
Contingency				30% \$	255,000.00
				Subtotal	\$ 1,105,000.00
				A & E Fees @ 12%	\$ 132,600.00
				Total Water Improvements	\$ 1,237,600.00

ITEM	DESCRIPTION	QTY.	UNIT	COST	TOTAL
Area 1a - Rec Fields South - Upper Terrace					
Erosion & Sediment Control/Preliminary					
1	Construction Entrance	2	EA	4,000.00 \$	8,000.00
2	Sediment Control Measures	1	LS	80,000.00 \$	80,000.00
3	E&S Maintenance	1	LS	15,000.00 \$	15,000.00
4	Mobilization	1	LS	15,000.00 \$	15,000.00
5	Site Trailer	1	LS	10,000.00 \$	10,000.00
Civil/Site Work					
6	Topsoil, strip and replace	12,907	CY	5.00 \$	64,533.33
7	Grading / Earthwork	125,000	CY	8.00 \$	1,000,000.00
8	Roadway, asphalt	17,000	SF	4.50 \$	76,500.00
9	Curb and Gutter	4,600	LF	18.00 \$	82,800.00
10	Parking, asphalt	73,000	SF	4.50 \$	328,500.00
11	Concrete Sidewalk	40,500	SF	6.00 \$	243,000.00
Site Utilities					
12	Water Utilities	1,600	LF	15.00 \$	24,000.00
13	Septic System	1	LS	15,000.00 \$	15,000.00
14	Storm Drain Utilities	2,000	LF	35.00 \$	70,000.00
15	Power	1	LS	300,000.00 \$	300,000.00
16	Stormwater Management (Bioretention)	13,050	SF	8.00 \$	104,400.00
Active Rec Areas					
17	Baseball Fields/Multipurpose Field Combo	1	LS	\$ 796,099.00	796,099.00
18	Multi-Purpose Fields	1	LS	391,320.00 \$	391,320.00
20	Field Fencing	940	LF	20.00 \$	18,800.00
Landscape					
21	Entrance Gates	1	EA	15,000.00 \$	15,000.00
22	Park Signage	1	LS	15,000.00 \$	15,000.00
23	Bioretention Plantings (2" Plugs @ 12" O.C.)	14,700	EA	3.50 \$	51,450.00
24	Landscaping (plantings and site stabilization)	1	LS	75,000.00 \$	75,000.00
25	Site Furnishings	1	LS	25,000.00 \$	25,000.00
Structures					
26	Comfort Station (with built in storage)	1	LS	180,000.00 \$	180,000.00
27	Playground	1	LS	75,000.00 \$	75,000.00
Contingency				30% \$	1,223,820.70
				Subtotal	\$ 5,303,223.03
				A & E Fees @ 12%	\$ 636,386.76
				Total Area 1a	\$ 5,939,609.80

ITEM	DESCRIPTION	QTY.	UNIT	COST	TOTAL
Area 1b - Rec Fields South - Lower Terrace					
Erosion & Sediment Control/Preliminary					
1	Site Demolition / Clearing/Grub	2	AC	1,000.00 \$	2,000.00
2	Construction Entrance	1	EA	4,000.00 \$	4,000.00
3	Sediment Control Measures	1	LS	60,000.00 \$	60,000.00
4	E&S Maintenance	1	LS	10,000.00 \$	10,000.00
5	Mobilization	1	LS	15,000.00 \$	15,000.00
6	Site Trailer	1	LS	10,000.00 \$	10,000.00
Civil/Site Work					
7	Topsoil, strip and replace	807	CY	5.00 \$	4,033.33
8	Grading / Earthwork	75,000	CY	8.00 \$	600,000.00
9	Restroom		LS	\$	-
10	Roadway, asphalt	5,000	SF	4.50 \$	22,500.00
11	Curb and Gutter	2,200	LF	18.00 \$	39,600.00
12	Parking, asphalt	60,000	SF	4.50 \$	270,000.00
13	Concrete Sidewalk	16,800	SF	6.00 \$	100,800.00
Site Utilities					
14	Water Utilities	1,400	LF	15.00 \$	21,000.00
15	Sewer System	1	LS	15,000.00 \$	15,000.00
16	Storm Drain Utilities	1,500	LF	35.00 \$	52,500.00
17	Power	1	LS	180,000.00 \$	180,000.00
18	Stormwater Management (Bioretention)	8,180	SF	8.00 \$	65,440.00
Active Rec Areas					
19	Baseball Fields	1	LS	681,609.10 \$	681,609.10
20	Multi-Purpose Fields	1	LS	391,320.00 \$	391,320.00
21	Trailhead Signage	1	LS	10,000.00 \$	10,000.00
Landscape					
22	Bioretention Plantings (2" Plugs @ 12" O.C.)	9,250	EA	3.50 \$	32,375.00
23	Landscaping (plantings and site stabilization)	1	LS	75,000.00 \$	75,000.00
24	Site Furnishings	1	LS	20,000.00 \$	20,000.00
Structures					
25	Comfort Station	1	LS	125,000.00 \$	125,000.00
26	Skate Spot	1	LS	250,000.00 \$	250,000.00
27	Playgrounds	1	LS	75,000.00 \$	75,000.00
Contingency				30% \$	939,653.23
				Subtotal	\$ 4,071,830.66
				A & E Fees @ 12%	\$ 488,619.68
				Total Area 1b	\$ 4,560,450.34

ITEM	DESCRIPTION	QTY.	UNIT	COST	TOTAL
Area 1c - Existing House Renovation					
1	Existing House Renovation	1	LS	150,000.00 \$	150,000.00
				Subtotal	\$ 150,000.00

ITEM	DESCRIPTION	QTY.	UNIT	COST	TOTAL
Area 2 - Rec Fields North					
Erosion & Sediment Control/Preliminary					
1	Construction Entrance	1	EA	4,000.00 \$	4,000.00
2	Sediment Control Measures	1	LS	80,000.00 \$	80,000.00
3	E&S Maintenance	1	LS	15,000.00 \$	15,000.00
4	Mobilization	1	LS	15,000.00 \$	15,000.00
5	Site Trailer	1	LS	10,000.00 \$	10,000.00
Civil/Site Work					
6	Topsail, strip and replace	10,487	CY	5.00 \$	52,433.33
7	Grading / Earthwork	45,000	CY	8.00 \$	360,000.00
8	Roadway, asphalt	19,600	SF	4.50 \$	88,200.00
9	Curb and Gutter	4,600	LF	18.00 \$	82,800.00
10	Parking, asphalt	74,000	SF	4.50 \$	333,000.00
11	Concrete Sidewalk	10,000	SF	6.00 \$	60,000.00
12	Comfort Station	1	EA	180,000.00 \$	180,000.00
Site Utilities					
13	Water Utilities	1,300	LF	15.00 \$	19,500.00
14	Septic System	1	LS	15,000.00 \$	15,000.00
15	Storm Drain Utilities	1,600	LF	35.00 \$	56,000.00
16	Power	1	LS	200,000.00 \$	200,000.00
17	Stormwater Management (Bioretention)	10,360	SF	8.00 \$	82,880.00
Active Rec Areas					
18	Multi-Purpose Fields	1	LS	391,320.00 \$	391,320.00
19	Junior Fields	2	LS	195,660.00 \$	391,320.00
20	Field Fencing	940	LF	20.00 \$	18,800.00
Landscape					
21	Bioretention Plantings (2" Plugs @ 12" O.C.)	13,000	EA	3.50 \$	45,500.00
22	Landscaping (plantings and site stabilization)	1	LS	65,000.00 \$	65,000.00
23	Site Furnishings	1	LS	20,000.00 \$	20,000.00
Contingency				30% \$	775,726.00
Subtotal				\$	3,361,479.33
A & E Fees @ 12%				\$	403,377.52
Total Area 2				\$	3,764,856.85

ITEM	DESCRIPTION	QTY.	UNIT	COST	TOTAL
Area 3 - Dog Park					
Erosion & Sediment Control/Preliminary					
1	Site Demolition / Clearing/Grub	2	AC	2,000.00 \$	4,000.00
2	Construction Entrance	1	EA	4,000.00 \$	4,000.00
3	Sediment Control Measures	1	LS	40,000.00 \$	40,000.00
4	E&S Maintenance	1	LS	8,000.00 \$	8,000.00
5	Mobilization	1	LS	8,000.00 \$	8,000.00
6	Site Trailer	1	LS	5,000.00 \$	5,000.00
Civil/Site Work					
7	Topsoil, strip and replace	3,227	CY	5.00 \$	16,133.33
8	Grading / Earthwork	17,000	CY	8.00 \$	136,000.00
9	Restroom	1	LS	20,000.00 \$	20,000.00
10	Fencing (4' high chain link)	1,900	LF	20.00 \$	38,000.00
11	Curb and Gutter	800	LF	18.00 \$	14,400.00
12	Parking and Access Drive, asphalt	14,000	SF	4.50 \$	63,000.00
13	Concrete Sidewalk	6,500	SF	6.00 \$	39,000.00
14	Sun Shelter Structures	2	EA	10,000.00 \$	20,000.00
15	Storage Shed	1	EA	20,000.00 \$	20,000.00
Site Utilities					
16	Water Utilities	800	LF	15.00 \$	12,000.00
17	Restroom (composting toilet)	1	LS	100,000.00 \$	100,000.00
18	Storm Drain Utilities	600	LF	35.00 \$	21,000.00
19	Power	1	LS	50,000.00 \$	50,000.00
20	Stormwater Management (Bioretention)	2,563	SF	8.00 \$	20,500.00
Landscape					
21	Bioretention Plantings (2" Plugs @ 12" O.C.)	2,600	EA	3.50 \$	9,100.00
22	Landscaping (plantings and site stabilization)	1	LS	20,000.00 \$	20,000.00
23	Site Furnishings	1	LS	10,000.00 \$	10,000.00
Contingency				30% \$	203,440.00
Subtotal				\$	881,573.33
A & E Fees @ 12%				\$	105,788.80
Total Area 3				\$	987,362.13

ITEM	DESCRIPTION	QTY.	UNIT	COST	TOTAL
Area 4 Nature Center, Parking, and Educational Area					
Erosion & Sediment Control/Preliminary					
1	Construction Entrance	1	EA	4,000.00 \$	4,000.00
2	Sediment Control Measures	1	LS	60,000.00 \$	60,000.00
3	E&S Maintenance	1	LS	10,000.00 \$	10,000.00
4	Mobilization	1	LS	15,000.00 \$	15,000.00
5	Site Trailer	1	LS	10,000.00 \$	10,000.00
Civil/Site Work					
6	Topsoil, strip and replace	5,647	CY	5.00 \$	28,233.33
7	Grading / Earthwork	6,000	CY	8.00 \$	48,000.00
8	Roadway, asphalt	6,450	LF	4.50 \$	29,025.00
9	Curb and Gutter	2,650	LF	18.00 \$	47,700.00
10	Parking, asphalt	43,000	SF	4.50 \$	193,500.00
11	Concrete Sidewalk	22,000	SF	6.00 \$	132,000.00
Site Utilities					
1	Fire protection storage tank and pump with house (Nature Ctr & park office)	1	LS	300,000.00 \$	300,000.00
2	Water Utilities	300	LF	15.00 \$	4,500.00
3	Septic System	1	LS	25,000.00 \$	25,000.00
4	Storm Drain Utilities	1,800	LF	35.00 \$	63,000.00
5	Power	1	LS	350,000.00 \$	350,000.00
6	Stormwater Management (Bioretention)	10,207	SF	8.00 \$	81,657.14
Structures					
7	Nature Center (Phase 4c)	7,000	SF	150.00 \$	1,050,000.00
8	Amphitheater (Phase 4b)	1	LS	100,000.00 \$	100,000.00
9	Barn Rehabilitation	3	LS	35,000.00 \$	105,000.00
Landscape					
10	Bioretention Plantings (2" Plugs @ 12" O.C.)	11,800	EA	3.50 \$	41,300.00
11	Garden/Demonstration Areas (Phase 4b)	2	LS	35,000.00 \$	70,000.00
12	Landscaping (plantings and site stabilization)	1	LS	45,000.00 \$	45,000.00
13	Children's Nature Play Area	1	LS	50,000.00 \$	50,000.00
14	Site Furnishings	1	LS	20,000.00 \$	20,000.00
Contingency				30% \$	864,874.64
				Subtotal	\$ 3,747,790.12
				A & E Fees @ 12%	\$ 449,734.81
				Total Area 4	\$ 4,197,524.93

ITEM	DESCRIPTION	QTY.	UNIT	COST	TOTAL
Area 5 - Maintenance Facility					
Erosion & Sediment Control/Preliminary					
1	Construction Entrance	1	EA	4,000.00 \$	4,000.00
2	Sediment Control Measures	1	LS	60,000.00 \$	60,000.00
3	E&S Maintenance	1	LS	10,000.00 \$	10,000.00
4	Mobilization	1	LS	15,000.00 \$	15,000.00
5	Site Trailer	1	LS	10,000.00 \$	10,000.00
Civil/Site Work					
6	Topsoil, strip and replace	2,420	CY	5.00 \$	12,100.00
7	Grading / Earthwork	8,000	CY	8.00 \$	64,000.00
8	Roadway, asphalt	30,450	LF	4.50 \$	137,025.00
9	Curb and Gutter	2,000	LF	18.00 \$	36,000.00
10	Maintenance Facility	1	LS	1,000,000.00 \$	1,000,000.00
Site Utilities					
11	Water Utilities	1,300	LF	15.00 \$	19,500.00
12	Sewer System	1	LS	15,000.00 \$	15,000.00
13	Storm Drain Utilities	800	LF	35.00 \$	28,000.00
14	Power	1	LS	180,000.00 \$	180,000.00
15	Stormwater Management (Bioretention)	4,350	SF	8.00 \$	34,800.00
Landscape					
16	Bioretention Plantings (2" Plugs @ 12" O.C.)	5,000	EA	3.50 \$	17,500.00
	Landscaping (plantings and site stabilization)	1	LS	20,000.00 \$	20,000.00
	Site Furnishings	1	LS	3,000.00 \$	3,000.00
Contingency				30% \$	499,777.50
				Subtotal	\$ 2,165,702.50
				A & E Fees @ 12%	\$ 259,884.30
				Total Area 5	\$ 2,425,586.80

ITEM	DESCRIPTION	QTY.	UNIT	COST	TOTAL
Area 6 - Picnic/Camp Area					
Erosion & Sediment Control/Preliminary					
1	Site Demolition / Clearing/Grub	1	AC	1,000.00 \$	1,000.00
2	Construction Entrance	1	EA	4,000.00 \$	4,000.00
3	Sediment Control Measures	1	LS	80,000.00 \$	80,000.00
4	E&S Maintenance	1	LS	10,000.00 \$	10,000.00
5	Mobilization	1	LS	15,000.00 \$	15,000.00
6	Site Trailer	1	LS	10,000.00 \$	10,000.00
Civil/Site Work					
7	Topsoil, strip and replace	3,227	CY	5.00 \$	16,133.33
8	Grading / Earthwork	8,000	CY	8.00 \$	64,000.00
9	Roadway, asphalt	9,500	SF	4.50 \$	42,750.00
10	Curb and Gutter	2,000	LF	18.00 \$	36,000.00
11	Parking, asphalt	34,000	SF	4.50 \$	153,000.00
12	Concrete Sidewalk	6,400	SF	6.00 \$	38,400.00
Site Utilities					
12	Water Utilities	800	LF	15.00 \$	12,000.00
13	Septic System	1	LS	15,000.00 \$	15,000.00
14	Storm Drain Utilities	1,100	LF	35.00 \$	38,500.00
15	Power	1	LS	130,000.00 \$	130,000.00
16	Stormwater Management (Bioretention)	5,438	SF	8.00 \$	43,500.00
Landscape					
17	Bioretention Plantings (2" Plugs @ 12" O.C.)	5,400	EA	3.50 \$	18,900.00
18	Landscaping (plantings and site stabilization)	1	LS	35,000.00 \$	25,000.00
19	Site Furnishings	1	LS	15,000.00 \$	15,000.00
20	Playground	1	LS	75,000.00 \$	75,000.00
Structures					
21	Comfort Station	1	LS	125,000.00 \$	125,000.00
22	Picnic Pavilions	3	LS	100,000.00 \$	300,000.00
Contingency				30% \$	380,455.00
Subtotal				\$	1,648,638.33
A & E Fees @ 12%				\$	197,836.60
Total Area 6				\$	1,846,474.93

ITEM	DESCRIPTION	QTY.	UNIT	COST	TOTAL
Area 7 - Trail System					
Erosion & Sediment Control/Preliminary					
1	Site Demolition / Clearing/Grub	2	AC	1,000.00 \$	2,000.00
2	Construction Entrance	1	EA	4,000.00 \$	4,000.00
3	Sediment Control Measures	1	LS	20,000.00 \$	20,000.00
4	E&S Maintenance	1	LS	4,000.00 \$	4,000.00
5	Mobilization	1	LS	8,000.00 \$	8,000.00
6	Site Trailer	1	LS	5,000.00 \$	5,000.00
Civil/Site Work					
7	Topsoil, strip and replace	1,385	CY	5.00 \$	6,925.93
8	Grading / Earthwork	2,770	CY	8.00 \$	22,162.96
Site Utilities					
9	Water Utilities		LF	15.00 \$	-
10	Sewer Utilities		LF	20.00 \$	-
11	Pump Station		LS	10,000.00 \$	-
	Power	1	LS	150,000.00 \$	150,000.00
Structures					
12	Sheltered Overlook at Fishing Pond (150 person)	1	LS	100,000.00 \$	100,000.00
13	Amphitheater/Open Teaching Area	1	LS	10,000.00 \$	10,000.00
14	Council House and Camp Fire	1	LS	75,000.00 \$	75,000.00
15	Restroom (composting toilet)	1	LS	100,000.00 \$	100,000.00
16	Pavilion between Ponds (30 person)	1	LS	75,000.00 \$	75,000.00
17	Pavilion at Fox Den Pond	1	LS	75,000.00 \$	75,000.00
18	Specialty Skills Area	1	LS	100,000.00 \$	100,000.00
	Bridge over stream in southeast corner	1	LS	50,000.00 \$	50,000.00
Landscape					
19	Shade Structures	3	EA	0.00 \$	-
20	Disc Golf Course	1	LS	0.00 \$	-
21	Piers/Overlooks	4	EA	35,000.00 \$	140,000.00
22	AsphaltStabilized Trails (8' wide)	5,600	LF	18.00 \$	100,800.00
23	Variable Surface Trails	7,100	LF	14.00 \$	99,400.00
24	Natural Surface Trails	6,000	LF	8.00 \$	48,000.00
25	Boardwalk (8' wide)	2,400	LF	120.00 \$	288,000.00
26	Landscaping (plantings and site stabilization)	1	LS	100,000.00 \$	100,000.00
27	Site Furniture	1	LS	50,000.00 \$	50,000.00
Contingency				30% \$	489,986.67
Subtotal				\$	2,123,275.56
A & E Fees @ 12%				\$	254,793.07
Total Area 7				\$	2,378,068.62

BALL FIELDS BREAKDOWN

Baseball Fields

Field, infield mix & outfield sod, mound	107,823 SF	\$0.70	\$ 75,476.10	
Import topsoil	1,997 CY	\$30.00	\$ 59,910.00	
Irrigation	107,823 SF	\$1.00	\$ 107,823.00	
Dugouts	2 EA	\$5,000.00	\$ 10,000.00	
Backstop	1 EA	\$30,000.00	\$ 30,000.00	
8' Chainlink Fence	400 LF	\$28.00	\$ 11,200.00	
Bleachers, 20'x10'	2 EA	\$10,000.00	\$ 20,000.00	
Player Benches	40 LF	\$80.00	\$ 3,200.00	
Foul poles	2 EA	\$1,200.00	\$ 2,400.00	
Field lights	6 EA	\$40,000.00	\$ 240,000.00	
Lights conduit & wire, direct burried, allowance	1,800 LF	\$30.00	\$ 54,000.00	
Pull box / misc. lighting equipment, allowance	1 EA	\$10,000.00	\$ 10,000.00	
			\$ 624,009.10	

Multi-Purpose Field

Field, sod	75,600 SF	\$0.70	\$ 52,920.00	
Import topsoil	1,400 CY	\$30.00	\$ 42,000.00	
Irrigation	75,600 SF	\$1.00	\$ 75,600.00	
Player Benches	60 LF	\$80.00	\$ 4,800.00	
Misc. sports equipment	1 EA	\$10,000.00	\$ 10,000.00	
Field lights	4 EA	\$40,000.00	\$ 160,000.00	
Lights conduit & wire, direct burried, allowance	1,200 LF	\$30.00	\$ 36,000.00	
Pull box / misc. lighting equipment, allowance	1 EA	\$10,000.00	\$ 10,000.00	
			\$ 391,320.00	

Baseball Field with Overlapping Multipurpose Field

Field, infield mix & outfield sod, mound	147,823 SF	\$0.70	\$ 103,476.10	
Import topsoil	2,800 CY	\$30.00	\$ 84,000.00	
Irrigation	147,823 SF	\$1.00	\$ 147,823.00	
Dugouts	2 EA	\$5,000.00	\$ 10,000.00	
Backstop	1 EA	\$30,000.00	\$ 30,000.00	
8' Chainlink Fence	400 LF	\$28.00	\$ 11,200.00	
Bleachers, 20'x10'	2 EA	\$10,000.00	\$ 20,000.00	
Player Benches	40 LF	\$80.00	\$ 3,200.00	
Foul poles	2 EA	\$1,200.00	\$ 2,400.00	
Field lights	8 EA	\$40,000.00	\$ 320,000.00	
Lights conduit & wire, direct burried, allowance	1,800 LF	\$30.00	\$ 54,000.00	
Pull box / misc. lighting equipment, allowance	1 EA	\$10,000.00	\$ 10,000.00	
			\$ 796,099.10	

PA System	1 EA	\$5,000.00	\$ 5,000.00	not include
Scoreboard, electronic	1 EA	\$15,000.00	\$ 15,000.00	not include

SITE LIGHTING	Quantity		Unit cost	subtotal	subtotal by phase
Phase 1a					\$495,000
30' high sharp cut-off street light	19	EA	\$5,000	\$95,000	
Ball field lights	10	EA	\$40,000	\$400,000	
Phase 1b					\$385,000
30' high sharp cut-off street light	13	EA	\$5,000	\$65,000	
Ball field lights	8	EA	\$40,000	\$320,000	
Phase 2					\$485,000
30' high sharp cut-off street light	17	EA	\$5,000	\$85,000	
Ball field lights	10	EA	\$40,000	\$400,000	
Phase 3					\$10,000
30' high sharp cut-off street light	2	EA	\$5,000	\$10,000	
Ball field lights	0	EA	\$40,000	\$0	
Phase 4a					\$50,000
30' high sharp cut-off street light	10	EA	\$5,000	\$50,000	
Ball field lights	0	EA	\$40,000	\$0	
Phase 4b & c		LS		\$20,000	\$20,000
30' high sharp cut-off street light	0	EA	\$5,000	\$0	
Ball field lights	0	EA	\$40,000	\$0	\$0
Phase 5					\$35,000
30' high sharp cut-off street light	7	EA	\$5,000	\$35,000	
Ball field lights	0	EA	\$40,000	\$0	
Phase 6					\$40,000
30' high sharp cut-off street light	8	EA	\$5,000	\$40,000	
Ball field lights	0	EA	\$40,000	\$0	
Phase 7				incidental to structures	
30' high sharp cut-off street light	0	EA	\$5,000	\$0	
Ball field lights	0	EA	\$40,000	\$0	\$0

Total \$1,025,000

WARD FARM RECREATION AND NATURE PARK

COMPREHENSIVE MASTER PLAN

Prepared for
Calvert County, Maryland
Parks and Recreation Division
Natural Resources Division

Prepared by
Mahan Rykiel Associates, Inc.
Whitman, Requardt & Associates, LLP