APPENDIX H
Phase 1 ESA Report

PHASE I
ENVIRONMENTAL SITE ASSESSMENT

STRAWBRIDGE II PROPERTY
STRICKERSVILLE ROAD
LANDENBERG, CHESTER COUNTY, PENNSYLVANIA

July 2017

Prepared for:

The Conservation Fund
5807 Kennett Pike
Centreville, DE 19807

Prepared by:

Ten Bears Environmental Associates Company
1080 S. Chapel Street, Suite 200
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P.N. 17-1726.A

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EXECUTIVE SUMMARY

Ten Bears Environmental Associates Company (TBE) has completed a Phase I Environmental Site Assessment (ESA) of the Strawbridge Property located in Landenberg, Pennsylvania. TBE performed the assessment at the request of The Conservation Fund on behalf of the State of Pennsylvania, Department of Conservation and Natural Resources, the prospective purchasers. The purpose of the ESA was to identify potential environmental issues associated with the property by reviewing available historical and regulatory agency information, interviewing personnel familiar with current and historical practices at the site, and performing a visual reconnaissance to assess current site conditions. The ESA was performed in general accordance with the American Society for Testing and Materials' "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process" (ASTM E 1527-13), which satisfies the minimum due diligence requirements of the U.S. Environmental Protection Agency's (EPA's) All Appropriate Inquiries (AAI) regulations, published in Title 40 Code of Federal Regulations, Part 312 (40 CFR 312), as determined by EPA rulemaking published in the December 30, 2013 Federal Register.

The Strawbridge Property comprises seven parcels containing approximately 982 acres of primarily agricultural farmland. Several stone and brick ruins of former residences and / or barns were observed within the Property. Two roads, Springlawn Road and Mount Olivat Road are located within the Property, but are restricted to pedestrian / cycling traffic only and are maintained by Elk and Franklin Townships. The site is located in a primarily mixed-use area, with agricultural farmland surrounding the property interspersed with residential development.

The findings of this assessment did not identify potential *recognized environmental conditions* (RECs) as defined by the ASTM E 1527-13 standard that, in TBE's opinion, would preclude the user from qualifying for the *innocent landowner, contiguous property owner* or *bona fide prospective purchaser* limitations to CERCLA (Federal Comprehensive Environmental Response, Compensation, and Liability Act) liability or trigger other regulatory obligations. A relatively minor and manageable issue was identified that may present some limited liability if mishandled in the future. This was related to scattered solid waste debris that would require proper handling and disposal if removed from the Property. Further information regarding the findings of this assessment is provided in the following report.

I. INTRODUCTION

Ten Bears Environmental Associates Company (TBE) has completed a Phase I Environmental Site Assessment (ESA) of the Strawbridge Property (hereinafter referred to as the "Property" or "Site") located in Landenberg, Pennsylvania. TBE performed the assessment at the request of The Conservation Fund on behalf of the State of Pennsylvania, Department of Conservation and Natural Resources, the prospective purchasers. The purpose of the assessment was to identify potential environmental issues associated with the Property by reviewing available historical and regulatory agency information, interviewing personnel familiar with current and historical practices at the site, and performing a visual reconnaissance to assess current site conditions.

The ESA was performed in general accordance with the American Society for Testing and Materials' "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process" (ASTM E 1527-13), which satisfies the minimum due diligence requirements of the U.S. Environmental Protection Agency's (EPA's) All Appropriate Inquiries (AAI) regulations, as published in Title 40 Code of Federal Regulations, Part 312 (40 CFR 312), as determined by EPA rulemaking published in the December 30, 2013 Federal Register. This report summarizes the findings of the ESA and TBE's conclusions and recommendations regarding the environmental condition of the Property.

II. GENERAL SITE CHARACTERISTICS

TBE reviewed selected mapping and visually reviewed the Property for general characteristics that may be pertinent to an evaluation of environmental site conditions. The following summarizes TBE's findings regarding observed site conditions, surface topography and site drainage, flooding potential, soil conditions, wetlands, and Radon potential.

A. SITE DESCRIPTION

The Strawbridge Property comprises seven (7) parcels (Chester County Tax Parcel No.'s 70-5-6, 70-5-7, 70-5-8, 71-4-32.3, 72-6-1, 72-6-4, and 72-6-10) containing approximately 982 acres located in Landenberg, Pennsylvania. A majority of the Property is currently utilized for farming with the remainder consisting of undeveloped woodland. While there are no currently occupied structures on the Property, a few residential and barn foundations were observed at various locations.

The Property is bounded by Lewisville / Strickersville Road to the south, Chesterville Road to the west, residential properties and a portion of Walker Road to the north, and agricultural land and residential properties to the east. Surrounding land use is primarily agricultural and residential.

B. SURFACE TOPOGRAPHY AND SITE DRAINAGE

The surface elevations at the Site range from approximately 190 to 410 feet above mean sea level (MSL), based on a review of the U.S. Geological Survey (USGS) topographic map(1). Topographic relief at the Property ranges from relatively flat plateaus to steep slopes with an overall general sloping towards Big Elk Creek, which flows through the Property from the northwest to the southeast. In addition, there are several small unnamed streams, as well as a portion of Tributary 4 of Big Elk Creek and Hodgson Run within the Property all flowing into Big Elk Creek. Groundwater flow typically follows topographic trends, absent man-made influences, indicating locally-variable flow towards Big Elk Creek, with an overall trend towards the southeast.

C. FLOOD ZONES

The applicable Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map(2) indicates the majority of the Site is mapped within Zone X, which are areas of 0.2 % flood chance; areas of 1 % annual flood chance with average depth of less than 1 foot or with drainage areas less than one square mile; and areas protected by levees from 1% annual chance flood. However, areas adjacent to Hodgson Run, Tributary 4, and Big Elk Creek are listed as being in Zone A on the FEMA Flood Insurance Rate Map. Zone A are areas inundated by the 1% annual chance flood, with "No Base Flood Elevations Determined."

D. SOILS

Ten Bears reviewed the online USDA Natural Resources Conservation Service Web Soil Survey to determine general soil conditions at the Property. There are many different types of soils mapped at the Site as follows: Baile silt loam; Baile silt loam, 3 to 8 percent slopes; Codorus silt loam; Comus silt loam; Glenelg silt loam, 3 to 8 percent slopes; Glenelg silt loam, 8 to 15 percent slopes; Glenville silt loam 0 to 3 percent slopes; Glenville silt loam, 3 to 6 percent slopes; Glenville silt loam, 8 to 15 percent slopes; Hatboro silt loam; Manor loam 3 to 8 percent slopes; Manor loam, 8 to 15 percent slopes; Manor loam 15 to 25 percent slopes; Manor loam 25 to 35 percent slopes; Urban land-Glenelg complex, 0 to 8 percent slopes; Urban land-Manor complex, 0 to 8 percent slopes; and Urban land-Manor complex, 8 to 25 percent slopes. The majority of the soils are described as well-drained and would not be associated with wetlands except for the Balie and Hatboro soils, which are described as being poorly draining soils. These soils are generally positioned along the various waterbodies within the Property.

E. WETLANDS

According to the US Fish and Wildlife Service on-line Wetlands Mapper, Big Elk Creek and some smaller streams are mapped as regulated water bodies within the Property. Although a formal wetlands delineation was not performed as part of this ESA, vegetated wetlands may also be present adjacent to these waterways. There are no other mapped wetlands located on the Property.

F. RADON INFORMATION

The EPA Radon Zone for Chester County, Pennsylvania is Zone 1, indicating that the average indoor radon level is greater than 4.0 pCi/L, which is the EPA's Action Level for occupied residential spaces. Radon typically accumulates in basements with poor ventilation. Since there are no buildings on the Property, excess accumulation of radon gas is not expected to be of concern.

III. USER PROVIDED INFORMATION

TBE requested that a representative of The Conservation Fund as the primary the user of this ESA, complete a Phase I Environmental Site Assessment User Questionnaire to provide information that may be pertinent to this assessment. A copy of the User Questionnaire was filled out by Mr. Blaine Philips of The Conservation Fund, and was returned to TBE. The Questionnaire is intended to assist in meeting the User's Responsibilities outlined in Section 6 of the ASTM E 1527-13 standard.

Information provided in the Questionnaire does not suggest that the users are aware of indications of potential environmental issues associated with the Property that would warrant further evaluation. A copy of the User Questionnaire, which was prepared and signed by Mr. Philips, dated July 13, 2017 is included as Appendix A.

IV. RECORDS REVIEW

A. ENVIRONMENTAL DATABASE SEARCH

Ten Bears reviewed an environmental database search report prepared by our subcontractor, Envirosite Corporation (EC), to evaluate environmental conditions reported to government agencies at and in the vicinity of the Property. The June 19, 2017 regulatory report (included in Appendix B) summarizes environmental regulatory agency information gathered from selected databases. For each database, EC reported on sites identified to be located within the distance prescribed by the ASTM E 1527-13 standard. EC also obtained information from several databases not included in the standard.

1. SUBJECT PROPERTY

The EC report did not identify the Strawbridge Property on any of the reviewed databases.

2. NEARBY SITES

Consistent with the agricultural and residential setting of the Site, no regulated sites were mapped within a 1 mile radius as reviewed by EC.

B. ENVIRONMENTAL LIEN SEARCH REPORT

The June 22, 2017 Nationwide Environmental Title Research, LLC property detail report is included as Appendix C. As indicated in the referenced report, the search did not identify environmental liens or activity and use limitations (AULs) associated with the Property.

Our review of the regulatory database did not suggest a potential for nearby sites to impact environmental conditions at the Property.

IV. HISTORICAL INFORMATION

TBE reviewed available historical information for indications of past usage that may have impacted Site environmental conditions. Although requested from our subcontractor, EC, Sanborn Fire Insurance Maps were not available for the Property (See Appendix D). TBE's historical review included the following resources.

- Aerial photographs provided by Envirosite for the years 1952, 1968, 1976, 1982, 1987, 1992, 1999, 2008, 2011, and 2015 (Appendix E);
- Historical USGS topographic maps provided by Envirosite for the years 1898, 1900, 1917, 1942, 1953, 1953 (rev1970), 1992, 1997, 2011, 2014, and 2016 (Appendix F);
- City Directory listings for the years 1965, 1970, 1975, 1980, 1985, 1990, 1995, 1998, 2001, 2006, 2010 and 2015 (Appendix G); and
- Other available resources previously referenced herein.

The following summarizes TBE's understanding of historical uses of the Property and surrounding areas, based on the referenced sources.

A. THE PROPERTY

The Property appears to be primarily undeveloped land with several small buildings observed at various locations within the Property beginning with the 1898 topographic map. In addition, Springlawn Road and Mount Olivat Road traverse the Property from northwest to southeast and north to south, respectively. The buildings remain visible through the 1952 aerial photograph. However, a majority of those buildings are no longer present starting with the 1953 mapping and 1968 aerial photograph. None of the structures are visible by the 1976 photograph with the Property usage remaining agricultural fields and woods. The Property remained relatively unchanged throughout the remaining years reviewed.

B. SURROUNDING AREAS

Beginning with the 1898 topographic map and 1952 aerial photograph, surrounding properties appear to be either agricultural land and associated buildings or residential housing. The surrounding area remains relatively unchanged until the 1987 photograph when further residential houses were built to the north. The surrounding area remains relatively unchanged for the remaining years reviewed.

The reviewed documents suggest a level of development typical for the rural setting of the site.

V. VISUAL SITE RECONNAISSANCE

TBE performed a visual reconnaissance at the Property on June 22 and June 27, 2017. The reconnaissance included a review of building ruins on the Property and walking visual review of outdoor areas of the Property, as well as portions of adjoining properties visible from the Property and / or nearby public areas. Photographs taken during the reconnaissance are provided as Appendix H. The following summarizes TBE's site observations, particularly pertaining to potential environmental issues.

A. GENERAL SITE FEATURES

The Strawbridge Property comprises seven (7) parcels (Chester County Tax Parcel No.'s 70-5-6, 70-5-7, 70-5-8, 71-4-32.3, 72-6-1, 72-6-4, and 72-6-10) containing approximately 982 acres located in Landenberg, Pennsylvania. A majority of the Property is currently utilized for farming with the remainder consisting of undeveloped woodland. While there are no currently occupied structures on the Property, a few residential and barn foundations were observed at various locations. The building ruins consisted of stone foundation walls and brick exterior walls. The building ruins were generally limited to foundations with only one or two portions of

the exterior walls remaining. No interior floors, stairs to basements, or other building structures were observed.

The site is located in a primarily mixed-use area, with farmland intermixed with residential properties on all sides of the Property. No apparent heating sources were noted at the former residences / barns.

B. SOLID WASTE DEBRIS

A relatively small amount of solid waste was observed scattered around the former buildings. In general, observed solid waste included, but was not limited to: brick, metal debris, tires, and wire mesh fencing.

VI. INTERVIEWS

TBE interviewed available personnel familiar with historical practices at the Site, to assess potential environmental issues associated with the Property. The following summarizes these interviews.

A. PROPERTY REPRESENTATIVE

Ten Bears spoke with Mr. Ronald Ayers, who is the caretaker for the property. Mr. Ayres indicated he has been working at the Property since 1959 and was not aware of any potential environmental issues associated with the property. He further stated that the structures noted on the historical documents were gone prior to his working there and the Property has been primarily in agricultural use the entire time. Prior to 1959 portions of the site were used for cattle grazing.

B. CURRENT / FORMER PROPERTY OWNERS

Current / former property owners were not available at the time of the assessment.

C. LOCAL OFFICIALS

ASTM E1527-13 recommends interviews with local officials, particularly fire companies, for information regarding storage of flammables (i.e., USTs and ASTs). The West Grove and Union Volunteer Fire Companies provide fire protection for the subject property and surrounding area. Typically, local fire departments are not tasked with the inspection of underground storage tanks (USTs) and / or enforcement of other ancillary environmental regulations. Further, information regarding USTs and / or other environmental enforcement actions falls under the purview of the Pennsylvania

Department of Environmental Protection (PADEP) and would be referenced in Section IV above.

VII. CONCLUSIONS AND RECOMMENDATIONS

Ten Bears has completed a Phase I Environmental Site Assessment of the Strawbridge Property in Landenberg, Pennsylvania. This assessment was performed in conformance with the scope and limitations of ASTM Practice E 1527-13. Exceptions to, or deletions from, this practice are summarized in Section XI of this report. The findings of this assessment did not identify potential *recognized environmental conditions* (RECs) as defined by the ASTM E 1527-13 standard that, in TBE's opinion, would preclude the user from qualifying for the *innocent landowner, contiguous property owner* or *bona fide prospective purchaser* limitations to CERCLA (Federal Comprehensive Environmental Response, Compensation, and Liability Act) liability or trigger other regulatory obligations. No historical recognized environmental conditions (HRECs) or controlled recognized environmental conditions (CRECs) were identified at the Property. However, the assessment did identified a minor environmental condition that, while manageable, could present some liability if mishandled during the real estate transfer or in the future.

SECONDARY CONCERN

- **Solid Waste Debris / Stored Materials** - Solid waste debris observed at the Site, was primarily situated near the ruins of the former residences / barns. The debris consisted of brick, concrete, wood, metal, tires, and wire mesh fencing. TBE estimates the volume of surface solid waste observed at the Site as approximately 20 to 30 cubic yards.

  TBE recommends that solid waste and stored materials not intended for reuse at the Property be transported to an appropriate permitted off-site facility for recycling or disposal in accordance with applicable regulations. Some of the observed waste materials, particularly tires may require separate disposal.

VIII. DEVIATIONS AND / OR DATA GAPS

Some deviations from the ASTM-required information sources were encountered while completing this assessment. In particular, the time frame between reviewed historical documents, in some cases, exceeded five years. The following *Standard Historical Sources*, as listed in ASTM E1527-13, were not reviewed as part of this assessment.

- Sanborn Fire Insurance Maps,
- Building Department Records, and
- Zoning / Land Use Records

In addition, former owners / occupants of the Property were not readily available to interview at the time of this assessment. The majority of the standard historical sources listed above, with the exception of and former owner / occupant interviews, typically do not provide significant historical property usage information beyond that obtained from the sources reviewed as part of this ESA. Based on the findings of this assessment, TBE's opinion is that the deviations and / or minor data failures encountered during this ESA do not represent data gaps.

IX. LIMITATIONS, ASSUMPTIONS, AND CONDITIONS

This report is based on Ten Bears Environmental Associates Company's professional opinion regarding environmental conditions visually observed at the Property during the reconnaissance and our interpretation of the reviewed historical information, maps, and regulatory documentation. The observations, conclusions, and recommendations presented in this report are based solely on conditions encountered and available documents at the time of the reconnaissance effort. Latent conditions and other contingencies bearing upon the environmental condition of the Site may be evident in the future. While this evaluation was performed in an effort to generally characterize the environmental condition of the Property, the scope of services was limited due to practicable budgetary and time constraints. As such, further investigation may identify conditions that were not encountered during this assessment.

X. USER RELIANCE

This report is intended for the exclusive use of The Conservation Fund and the Pennsylvania Department of Conservation and Natural Resources. The information contained in this report may not be relied upon by parties other than The Conservation Fund and the Pennsylvania Department of Conservation and Natural Resources without the prior written consent of Ten Bears Environmental Associates Company.

XII. SIGNATURE OF ENVIRONMENTAL PROFESSIONAL

I declare that, to the best of my professional knowledge and belief, I meet the definition of *Environmental Professional* as defined in §312.10 of 40 CFR Part 312.

I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have performed this assessment in accordance with ASTM 1527-13.

David P. Bailey
Senior Environmental Scientist

7/13/17
Date

Mr. Bailey's professional resume is included as Appendix I.

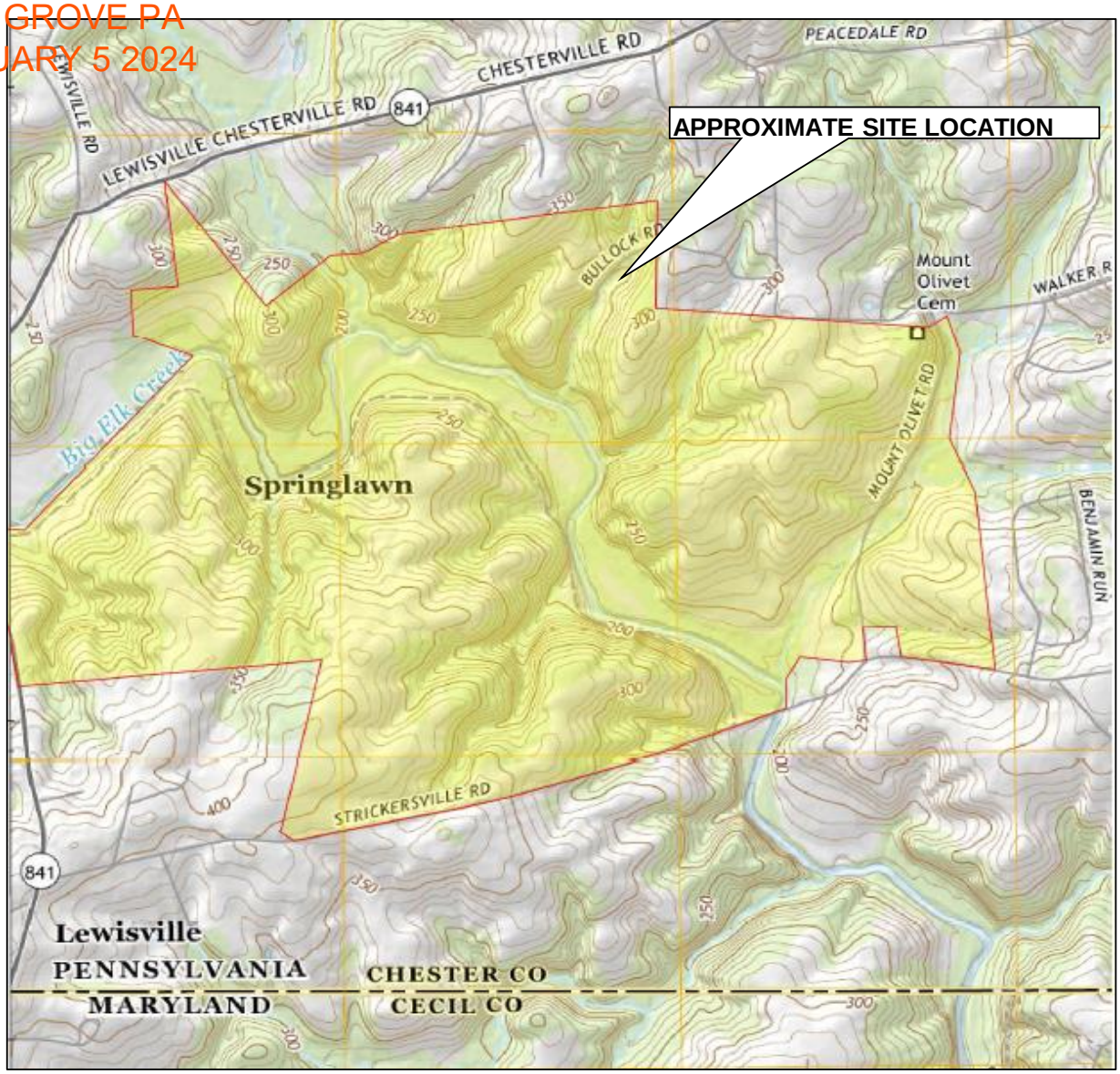
XIII. REFERENCES

1. U.S. Department of the Interior, Geologic Survey, Newark-West 7-1/2 minute Quadrangle, 2016.

2. Federal Emergency Management Agency (FEMA), September 29, 2006. Flood Insurance Rate Map (FIRM), Chester County, Pennsylvania, Map Number 42029C00375F.

3. Environmental Protection Agency, Map of Radon Zones. Chester County, Pennsylvania.

FIGURES



NOTE:
THIS LOCATION SKETCH WAS ADOPTED FROM THE USGS TOPOGRAPHIC MAP,
7.5 MINUTE SERIES, FOR NEWARK - WEST, DE (2016)

Ten Bears Environmental

Ten Bears Environmental Associates Co.,
1080 South Chapel Street, Suite 200
Newark, DE 19702
Phone: (302) 731-8633 Fax: (302) 731-8655

FIGURE 1 - SITE LOCATION SKETCH

STRAWBRIDGE PROPERTY

STRICKERSVILLE ROAD

LANDENBERG, CHESTER COUNTY, PENNSYLVANIA

DATE:	7/13/2017	JOB NUMBER:	17-1726.A
DRAWN BY:	DPB	SCALE:	N.T.S.
CHECKED BY:		FIGURE NO:	1
FILE NO:	17-1726.A_FIG	SHEET	1 OF 1

APPENDIX A

USER QUESTIONAIRE

PHASE I ENVIRONMENTAL SITE ASSESSMENT
USER QUESTIONNAIRE

TEN BEARS ENVIRONMENTAL ASSOCIATES COMPANY
NEWARK AND MILTON, DELAWARE

Property Name: Strawbridge Property
Property Use: Agricultural / Undeveloped
Address: Landenberg, PA

Project Number: 17-1726.A
Date: _____

To assist us with our Phase I Environmental Site Assessment (ESA), and in accordance with the American Society for Testing and Materials, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (ASTM E 1527-05), we request that you respond to the following questions to the best of your ability.

1. Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, or local law?

NO

2. Are you aware of any *Activity and Land Use Limitations* (ALUs), such as engineering controls, land use restrictions, or institutional controls that are in place at the site and / or have been filed or recorded in a registry under federal, tribal, state or local law?

NO

3. As the user of this ESA, do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

No

PHASE I ENVIRONMENTAL SITE ASSESSMENT
USER QUESTIONNAIRE (continued)

4. If the ESA is being performed in preparation of a property transfer, does the purchase price being paid for the property reasonably reflect the fair market value of the property?

Yes

5. Are you aware of commonly known or reasonably ascertainable information about the property that would assist in identifying recognized environmental conditions associated with the property?

No

   a. What are the historical uses of the property? farming, recreation (horse riding)

   b. Do you know of specific regulated substances that are present, or formerly were present, at the property?

NO

   c. Do you know of releases of regulated substances that have occurred at the property?

NO

   d. Do you know of any environmental remediation activities or cleanups that have taken place at the property?

NO

6. Based on your knowledge and experience related to the property, are there any obvious indicators that point to the presence or likely presence of contamination at the property?

NO

7. Does the Property utilize a community septic sewerage system? NOT Sure

   a. Are there any known problems associated with the system? Not Sure

8. Are there any onsite drinking water wells and an associated water supply system? Not Sure

   a. Are you aware of any problems associated with the drinking water wells, water quality, and / or the supply system? NO

This Questionnaire was completed by:

Name: BLAINE T. PHILLIPS Company: The Conservation Fund

Title: Mid-Atlantic Director Address: 5807 Kennett Pike

Phone No.: 302-656-1103 Centreville, DE 19807

By signing below, the preparer, as designated above, represents that, to the best of the preparer's knowledge, the above statements and facts are true and correct and to the best of the preparer's actual knowledge, not material facts have been suppressed or misstated.

Preparer's Signature: Blaine T. Phillips

Date: 7/13/17

APPENDIX B

ENVIRONMENTAL DATABASE SEARCH REPORT

ENVIROSITE Corporation

Government Records Report | 2017

Order Number: 13094

Report Generated: 06/19/2017

Project Name: Strawbridge II Property

Project Number: 17-1726.A

Strawbridge II Property
99 Bullock Road
Landenberg, PA 19350

1175 Post Road East
Westport, CT 06880
Toll Free: 866-211-2028
www.envirositecorp.com

Envirosite corporation has conducted a search of all reasonably ascertainable records in accordance with EPA's AAI (40 CFR Part 312) requirements and the ASTM E-1527-13 Environmental Site Assessments standard.

SUBJECT PROPERTY INFORMATION:

ADDRESS:

Strawbridge II Property
99 Bullock Road
Landenberg, PA 19350

COORDINATES:

Latitude (North):	39.735822 - 39°44'9"
Longitude (West):	-75.858291 - -75°51'29.8"
Universal Transverse Mercator:	Zone 18N
UTM X (Meters):	426454.47
UTM Y (Meters):	4398788.83

ELEVATION:

Elevation:	72.001 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH SUBJECT PROPERTY:

Subject Property Map: 39075f7 NEWARK WEST, MD
Most Recent Revision: No Available Data.

Subject Property Map: 39075f8 BAY VIEW, MD
Most Recent Revision: 2016

No Mapped Sites

SUBJECT PROPERTY SEARCH RESULTS:

The subject property was not listed in any of the databases searched by Envirosite Corporation.

SEARCH RESULTS:

Following sites were unable to be mapped.

SITE NAME:	ADDRESS, CITY, ZIP:	DATABASE(S):
BELLA MUSHROOM FARMS	RR 1 BOX 165B, LANDENBERG 19350	EFACTS ENV Remediation - PA
CHESTER HILLS FARM	WICKERTON RD, LANDENBERG 19350	EFACTS ENV Remediation - PA
CURTIS GREER FARM	PENN GREEN RD, LANDENBERG 19350	EFACTS ENV Remediation - PA
CVS PHARMACY 7183	730 NEWARK RD, LANDENBERG 19350	BRS, RCRA_LQG
EASTERN SHORE NATURAL GAS LONDON...	LONDONDERRY TWP	EFACTS - PA, FRS
ESNG PIPELINE SEGMENTS 1 AND 1A	HIGHLAND TWP	EFACTS - PA
FISHER'S SANITARY SERVICE	RR 1, KUTZTOWN 19350	EFACTS - PA
GIOFFREDI MUSHROOMS INC	PENN GREEN RD, LANDENBERG 19350	EFACTS ENV Remediation - PA
LANDENBURG	1/4 MI S OF NEWARK &..., LANDENBERG 19350	EFACTS ENV Remediation - PA, LUST - PA
LAWRENCE FARM	RR 1 BOX 185, LANDENBERG 19350	EFACTS - PA
LEONE PIZZINI & SON	RR 1 BOX 96, LANDENBERG 19350	EFACTS ENV Remediation - PA
LOT B5 - NICHOLS SUBD	WALKER RD, LANDENBERG 19350	EFACTS - PA
MACKIE PROPERTY DEV	PEACEDALE RD, LANDENBERG 19350	EFACTS - PA
MANFREDINI MUSHROOM FARM	PENN GREEN RD, LANDENBERG 19350	EFACTS ENV Remediation - PA
SARANA PROPERTY	PA SR 841, LANDENBERG 19350	EFACTS - PA
SCHADD POND PESTICIDES	107 LAVENDER LANE, LANDENBERG 19350	EFACTS - PA
TIMBAR PKG AND DISPLAY	COMMERCE ST, NEW OXFORD 19350	AST - PA
TUTTLE & MANET	399C FLEETWOOD RD, COATESVILLE 19350	RCRA_NONGEN
US POSTAL SVC	PENN GREEN RD, LANDENBERG 19350	EFACTS ENV Remediation - PA

DATABASE(S) WITH NO MAPPED SITES:

FEDERAL RCRA NON-CORRACTS TSD FACILITIES LIST

ARCHIVED RCRA TSDF	Archived Resource Conservation and Recovery Act: Treatment Storage and Disposal Facilities
RCRA_TSDF	Resource Conservation and Recovery Act: Treatment Storage and Disposal Facilities

FEDERAL CERCLIS LIST

CERCLIS NFRAP	Comprehensive Environmental Response Compensation and Liability Act No Further Remedial Action Planned
CERCLIS-HIST	Comprehensive Environmental Response Compensation and Liability Act
FEDERAL FACILITY	Federal Facility sites
SEMS_8R_ACTIVE SITES	Sites on SEMS Active Site Inventory
SEMS_8R_ARCHIVED SITES	Sites on SEMS Archived Site Inventory

FEDERAL RCRA CORRACTS FACILITIES LIST

CORRACTS	Hazardous Waste Corrective Action

FEDERAL DELISTED NPL SITE LIST

DELISTED NPL	Delisted National Priority List
DELISTED PROPOSED NPL	Delisted proposed National Priority List
SEMS_DELETED NPL	Sites Deleted from National Priorities List

FEDERAL ERNS LIST

ERNS	Emergency Response Notification System

FEDERAL INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES

FED E C	Engineering Controls
FED I C	Institutional Controls
RCRA IC_EC	RCRA sites with Institutional and Engineering Controls
E C - PA	Engineering Controls
I C - PA	Institutional Controls

FEDERAL NPL SITE LIST

NPL	National Priority List
NPL EPA R1 GIS	GIS for EPA Region 1 NPL
NPL EPA R6 GIS	GIS for EPA Region 6 NPL
NPL EPA R8 GIS	GIS for EPA Region 8 NPL
NPL EPA R9 GIS	GIS for EPA Region 9 NPL
NPL LIENS	National Priority List Liens
PART NPL	Part National Priority List
PROPOSED NPL	Proposed National Priority List
SEMS_FINAL NPL	Sites included on the Final National Priorities List
SEMS_PROPOSED NPL	Sites Proposed to be Added to the National Priorities List

FEDERAL RCRA GENERATORS LIST

RCRA_CESQG	Resource Conservation and Recovery Act_Conditionally Exempt Small Quantity Generators
RCRA_FULL_DETAIL	Resource Conservation and Recovery Act_Full detail
RCRA_LQG	Resource Conservation and Recovery Act_ Large Quantity Generators
RCRA_NONGEN	Resource Conservation and Recovery Act_Non Generators
RCRA_SQG	Resource Conservation and Recovery Act_Small Quantity Generators

STATE AND TRIBAL REGISTERED STORAGE TANK LISTS

FEMA UST	FEMA Underground Storage Tanks
INDIAN UST R1	Underground Storage Tanks on Indian Land in EPA Region 1
INDIAN UST R10	Underground Storage Tanks on Indian Land in EPA Region 10
INDIAN UST R2	Underground Storage Tanks on Indian Land in EPA Region 2
INDIAN UST R4	Underground Storage Tanks on Indian Land in EPA Region 4
INDIAN UST R5	Underground Storage Tanks on Indian Land in EPA Region 5
INDIAN UST R6	Underground Storage Tanks on Indian Land in EPA Region 6
INDIAN UST R7	Underground Storage Tanks on Indian Land in EPA Region 7
INDIAN UST R8	Underground Storage Tanks on Indian Land in EPA Region 8
INDIAN UST R9	Underground Storage Tanks on Indian Land in EPA Region 9
AST - PA	Aboveground Storage Tanks
UST - PA	Underground Storage Tanks

RECORDS OF EMERGENCY RELEASE REPORTS

HMIRS (DOT)	Hazardous Materials Information Reporting Systems

STATE AND TRIBAL LEAKING STORAGE TANK LISTS

INDIAN LUST R1	Leaking Underground Storage Tanks on Indian Land in EPA Region 1
INDIAN LUST R10	Leaking Underground Storage Tanks on Indian Land in EPA Region 10
INDIAN LUST R2	Leaking Underground Storage Tanks on Indian Land in EPA Region 2
INDIAN LUST R4	Leaking Underground Storage Tanks on Indian Land in EPA Region 4
INDIAN LUST R5	Leaking Underground Storage Tanks on Indian Land in EPA Region 5
INDIAN LUST R6	Leaking Underground Storage Tanks on Indian Land in EPA Region 6
INDIAN LUST R7	Leaking Underground Storage Tanks on Indian Land in EPA Region 7
INDIAN LUST R8	Leaking Underground Storage Tanks on Indian Land in EPA Region 8
INDIAN LUST R9	Leaking Underground Storage Tanks on Indian Land in EPA Region 9
LAST - PA	Leaking Aboveground Storage Tanks
LUST - PA	Leaking Underground Storage Tanks
URLT - PA	Unregulated Leaking Tanks

STATE AND TRIBAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS

ABANDONED LF - PA	Abandoned Landfill

STATE AND TRIBAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS *(cont.)*

HIST LF INVENTORY - PA	Historical Landfills
INACTIVE LF - PA	Inactive Land Fills
SWF/LF - PA	Solid Waste Facilities and Landfills

STATE- AND TRIBAL - EQUIVALENT CERCLIS

HSCA - PA	Hazardous Site Cleanup Act
HSCA REM - PA	Hazardous Site Cleanup Act Remediation

STATE AND TRIBAL VOLUNTARY CLEANUP SITES

VCP - PA	Voluntary Cleanup Program

OTHER ASCERTAINABLE RECORDS

CORRECTIVE ACTIONS_2020	Wastes - Hazardous Waste - Corrective Action

LOCAL LISTS OF LANDFILL / SOLID WASTE DISPOSAL SITES

DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Sites
INDIAN ODI R8	Open Dump Inventory
ODI	Open Dump Inventory
TRIBAL ODI	Indian Open Dump Inventory Sites

LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES

FED CDL	DOJ Clandestine Drug Labs
US HIST CDL	Historical Clandestine Drug Labs

LOCAL BROWNFIELD LISTS

FED BROWNFIELDS	Federal Brownfields
TRIBAL BROWNFIELDS	Tribal Brownfields
BROWNFIELDS - PA	Brownfields

LOCAL LAND RECORDS

LIENS 2	CERCLA Lien Information

RECORDS OF EMERGENCY RELEASE REPORTS

SPILLS - PA	Chemical Spills

OTHER ASCERTAINABLE RECORDS

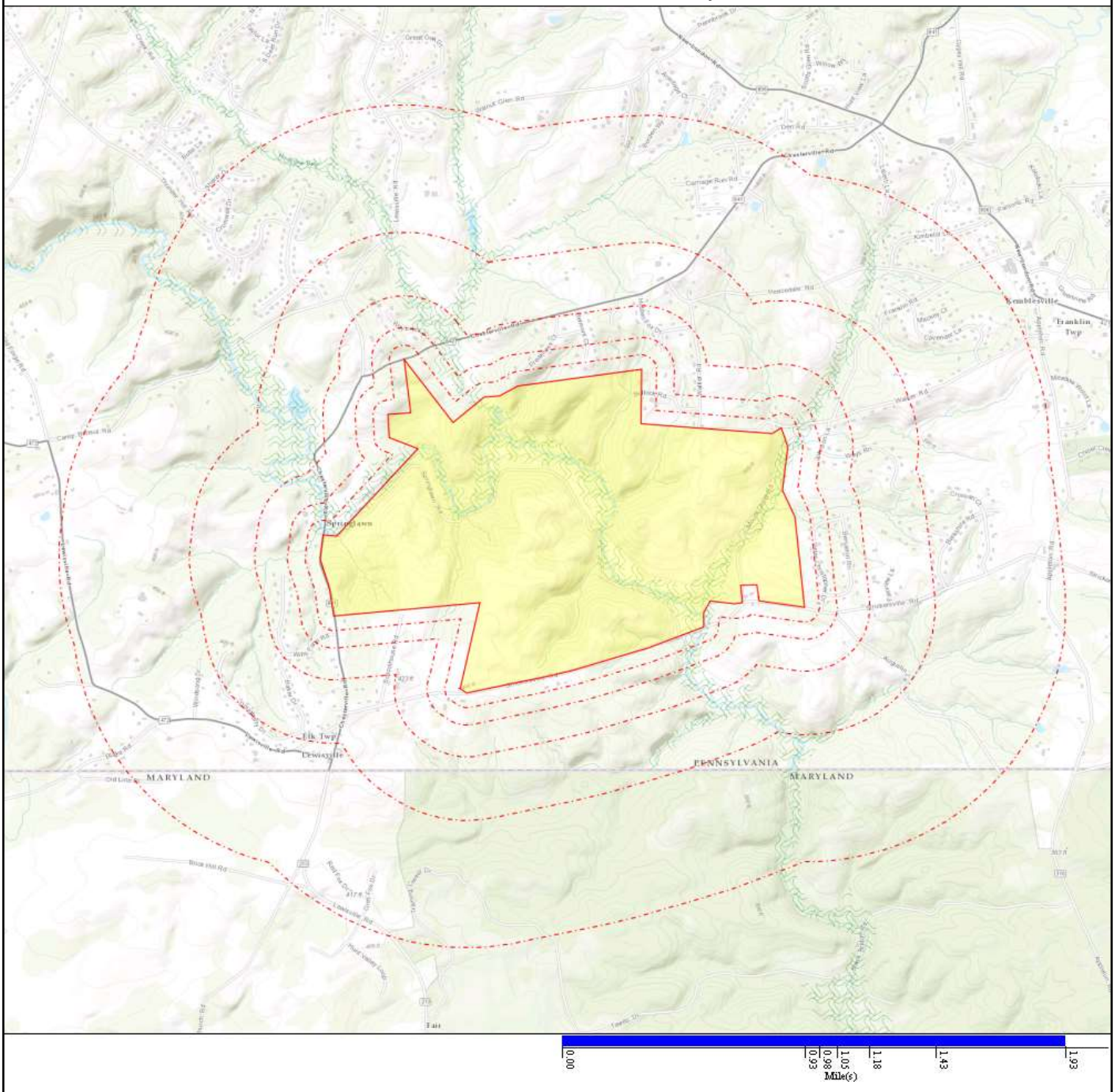
AFS	Air Facility Systems
BRS	Biennial Reporting Systems
CDC HAZDAT	Hazardous Substance Release and Health Effects Information
COAL ASH DOE	Coal Ash: Department of Energy
COAL ASH EPA	Coal Ash: Environmental Protection Agency
COAL GAS	Coal Gas Plants
CONSENT (DECREES)	Superfund Consent Decree
DIGITAL OBSTACLE	Obstacles of interest to aviation users
DOD	Department of Defense
DOT OPS	Department of Transportation Office of Pipeline Safety
ECHO	EPA Enforcement and Compliance History Online
ENOI	Electronic Notice of Intent
FA HWF	Financial Assurance for Hazardous Waste Facilities
FEDLAND	Federal Lands
FRS	Facility Index Systems
FTTS	FIFRA/TSCA Tracking System
FTTS INSP	FIFRA/TSCA Tracking System: Inspections
FUDS	Formerly Used Defense Sites
ICIS	Integrated Compliance Information System
INDIAN RESERVATION	Indian Reservations
LEAD_SMELTER	Lead Smelter Sites
LUCIS	Land Use Control Information Systems
MINES	Mines
MLTS	Material Licensing Tracking Systems

OTHER ASCERTAINABLE RECORDS *(cont.)*

NPL AOC	Areas related to NPL remediation sites
OSHA	Occupational Safety & Health Administration
PADS	PCB Activity Database Systems
PCB TRANSFORMER	Polychlorinated Biphenyls Transformers
RAATS	RCRA Administrative Action Tracking Systems
RADINFO	Radiation Information Systems
RMP	Risk Management Plans
ROD	Record of Decision
SCRD DRYCLEANERS	SCRD Drycleaners
SEMS_SMELTER	Sites on SEMS Potential Smelter Activity
SSTS	Section 7 Tracking Systems
TOSCA-CHEMICAL	Toxic Substance Control Act: Chemicals
TOSCA-PLANT	Toxic Substance Control Act: Plants
TRIS	Toxic Release Inventory Systems
UMTRA	Uranium Mill Tailing Sites
ACT 2 DEED - PA	Deed Acknowledgment locations
AIRS - PA	Air Permits
ARCT - PA	Archived Storage Tanks
AUL - PA	Activity Use Limitations
DRYCLEANERS - PA	Drycleaners
EFACTS - PA	Environment Facility Application Compliance Tracking System
EFACTS ENV REMEDIATION - PA	Environmental Cleanup & Brownfields records from the PA eFACTS.
MANIFEST - PA	Manifest information
UIC - PA	Underground Injection Controls

SUBJECT NAME: Strawbridge II Property
ADDRESS: 99 Bullock Road, Landenberg, PA 19350
LAT/LONG: 39.735822 / -75.858291

PREPARED FOR: Ten Bears Environmental Associates Co
ORDER #: 13094
REPORT DATE: June 19, 2017



- Subject Property
- Department of Defense (No Data)
- FEMA FloodZone 100
- Equal/Higher Elevation
- DFIRM Floodzone 100
- FEMA FloodZone 500 (No Data)
- Lower Elevation
- DFIRM Floodzone 500 (No Data)
- Indian Reservation (No Data)
- CDC HAZDAT (No Data)
- Federal Lands (No Data)
- National Priority List (No Data)

SUBJECT NAME: Strawbridge II Property
ADDRESS: 99 Bullock Road, Landenberg, PA 19350
LAT/LONG: 39.735822 / -75.858291

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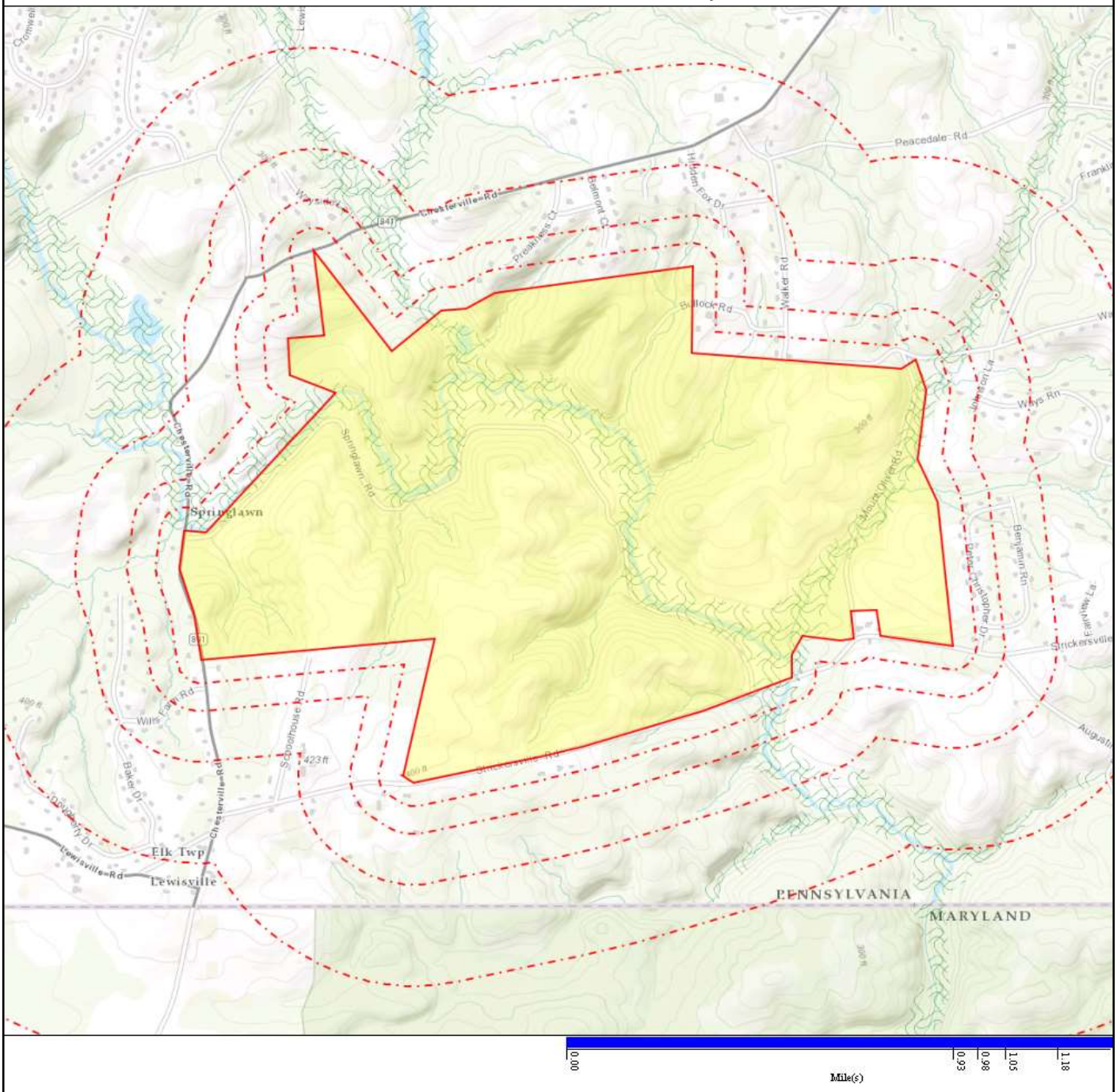


DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
FEDERAL RCRA NON-CORRACTS TSD FACILITIES LIST								
ARCHIVED RCRA TSDF		0.500	0	0	0	--	--	0
RCRA_TSDF		0.500	0	0	0	--	--	0
FEDERAL CERCLIS LIST								
CERCLIS NFRAP		0.500	0	0	0	--	--	0
CERCLIS-HIST		0.500	0	0	0	--	--	0
FEDERAL FACILITY		1.000	0	0	0	0	--	0
SEMS_8R_ACTIVE SITES		0.500	0	0	0	--	--	0
SEMS_8R_ARCHIVED SITES		0.500	0	0	0	--	--	0
FEDERAL RCRA CORRACTS FACILITIES LIST								
CORRACTS		1.000	0	0	0	0	--	0
FEDERAL DELISTED NPL SITE LIST								
DELISTED NPL		1.000	0	0	0	0	--	0
DELISTED PROPOSED NPL		1.000	0	0	0	0	--	0
SEMS_DELETED NPL		1.000	0	0	0	0	--	0
FEDERAL ERNS LIST								
ERNS		SP	--	--	--	--	--	0
FEDERAL INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES								
FED E C		0.500	0	0	0	--	--	0
FED I C		0.500	0	0	0	--	--	0
RCRA IC_EC		0.250	0	0	--	--	--	0
E C - PA		0.500	0	0	0	--	--	0
I C - PA		0.500	0	0	0	--	--	0
FEDERAL NPL SITE LIST								
NPL		1.000	0	0	0	0	--	0
NPL EPA R1 GIS		1.000	0	0	0	0	--	0
NPL EPA R6 GIS		1.000	0	0	0	0	--	0
NPL EPA R8 GIS		1.000	0	0	0	0	--	0
NPL EPA R9 GIS		1.000	0	0	0	0	--	0
NPL LIENS		SP	--	--	--	--	--	0
PART NPL		1.000	0	0	0	0	--	0
PROPOSED NPL		1.000	0	0	0	0	--	0
SEMS_FINAL NPL		1.000	0	0	0	0	--	0
SEMS_PROPOSED NPL		1.000	0	0	0	0	--	0

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
FEDERAL RCRA GENERATORS LIST								
RCRA_CESQG		0.250	0	0	--	--	--	0
RCRA_FULL_DETAIL		0.250	0	0	--	--	--	0
RCRA_LQG		0.250	0	0	--	--	--	0
RCRA_NONGEN		0.250	0	0	--	--	--	0
RCRA_SQG		0.250	0	0	--	--	--	0
STATE AND TRIBAL REGISTERED STORAGE TANK LISTS								
FEMA UST		0.250	0	0	--	--	--	0
INDIAN UST R1		0.250	0	0	--	--	--	0
INDIAN UST R10		0.250	0	0	--	--	--	0
INDIAN UST R2		0.250	0	0	--	--	--	0
INDIAN UST R4		0.250	0	0	--	--	--	0
INDIAN UST R5		0.250	0	0	--	--	--	0
INDIAN UST R6		0.250	0	0	--	--	--	0
INDIAN UST R7		0.250	0	0	--	--	--	0
INDIAN UST R8		0.250	0	0	--	--	--	0
INDIAN UST R9		0.250	0	0	--	--	--	0
AST - PA		0.250	0	0	--	--	--	0
UST - PA		0.250	0	0	--	--	--	0
RECORDS OF EMERGENCY RELEASE REPORTS								
HMIRS (DOT)		SP	--	--	--	--	--	0
STATE AND TRIBAL LEAKING STORAGE TANK LISTS								
INDIAN LUST R1		0.500	0	0	0	--	--	0
INDIAN LUST R10		0.500	0	0	0	--	--	0
INDIAN LUST R2		0.500	0	0	0	--	--	0
INDIAN LUST R4		0.500	0	0	0	--	--	0
INDIAN LUST R5		0.500	0	0	0	--	--	0
INDIAN LUST R6		0.500	0	0	0	--	--	0
INDIAN LUST R7		0.500	0	0	0	--	--	0
INDIAN LUST R8		0.500	0	0	0	--	--	0
INDIAN LUST R9		0.500	0	0	0	--	--	0
LAST - PA		0.500	0	0	0	--	--	0
LUST - PA		0.500	0	0	0	--	--	0
URLT - PA		0.500	0	0	0	--	--	0

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
STATE AND TRIBAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS								
ABANDONED LF - PA		0.500	0	0	0	--	--	0
HIST LF INVENTORY - PA		0.500	0	0	0	--	--	0
INACTIVE LF - PA		0.500	0	0	0	--	--	0
SWF/LF - PA		0.500	0	0	0	--	--	0
STATE- AND TRIBAL - EQUIVALENT CERCLIS								
HSCA - PA		1.000	0	0	0	0	--	0
HSCA REM - PA		1.000	0	0	0	0	--	0
STATE AND TRIBAL VOLUNTARY CLEANUP SITES								
VCP - PA		0.500	0	0	0	--	--	0
OTHER ASCERTAINABLE RECORDS								
CORRECTIVE ACTIONS_2020		0.500	0	0	0	--	--	0
LOCAL LISTS OF LANDFILL / SOLID WASTE DISPOSAL SITES								
DEBRIS REGION 9		0.500	0	0	0	--	--	0
INDIAN ODI R8		0.500	0	0	0	--	--	0
ODI		0.500	0	0	0	--	--	0
TRIBAL ODI		0.500	0	0	0	--	--	0
LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES								
FED CDL		SP	--	--	--	--	--	0
US HIST CDL		SP	--	--	--	--	--	0
LOCAL BROWNFIELD LISTS								
FED BROWNFIELDS		0.500	0	0	0	--	--	0
TRIBAL BROWNFIELDS		0.500	0	0	0	--	--	0
BROWNFIELDS - PA		0.500	0	0	0	--	--	0
LOCAL LAND RECORDS								
LIENS 2		SP	--	--	--	--	--	0
RECORDS OF EMERGENCY RELEASE REPORTS								
SPILLS - PA		0.125	0	--	--	--	--	0
OTHER ASCERTAINABLE RECORDS								
AFS		SP	--	--	--	--	--	0
BRS		SP	--	--	--	--	--	0
CDC HAZDAT		SP	--	--	--	--	--	0
COAL ASH DOE		0.500	0	0	0	--	--	0

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
OTHER ASCERTAINABLE RECORDS *(cont.)*								
COAL ASH EPA		0.500	0	0	0	--	--	0
COAL GAS		1.000	0	0	0	0	--	0
CONSENT (DECREES)		1.000	0	0	0	0	--	0
DIGITAL OBSTACLE		1.000	0	0	0	0	--	0
DOD		1.000	0	0	0	0	--	0
DOT OPS		SP	--	--	--	--	--	0
ECHO		SP	--	--	--	--	--	0
ENOI		SP	--	--	--	--	--	0
FA HWF		SP	--	--	--	--	--	0
FEDLAND		1.000	0	0	0	0	--	0
FRS		SP	--	--	--	--	--	0
FTTS		SP	--	--	--	--	--	0
FTTS INSP		SP	--	--	--	--	--	0
FUDS		1.000	0	0	0	0	--	0
ICIS		SP	--	--	--	--	--	0
INDIAN RESERVATION		1.000	0	0	0	0	--	0
LEAD_SMELTER		SP	--	--	--	--	--	0
LUCIS		0.500	0	0	0	--	--	0
MINES		0.250	0	0	--	--	--	0
MLTS		SP	--	--	--	--	--	0
NPL AOC		1.000	0	0	0	0	--	0
OSHA		SP	--	--	--	--	--	0
PADS		SP	--	--	--	--	--	0
PCB TRANSFORMER		SP	--	--	--	--	--	0
RAATS		SP	--	--	--	--	--	0
RADINFO		SP	--	--	--	--	--	0
RMP		0.500	0	0	0	--	--	0
ROD		1.000	0	0	0	0	--	0
SCRD DRYCLEANERS		0.250	0	0	--	--	--	0
SEMS_SMELTER		SP	--	--	--	--	--	0
SSTS		SP	--	--	--	--	--	0
TOSCA-CHEMICAL		SP	--	--	--	--	--	0
TOSCA-PLANT		SP	--	--	--	--	--	0
TRIS		SP	--	--	--	--	--	0
UMTRA		0.500	0	0	0	--	--	0
ACT 2 DEED - PA		0.500	0	0	0	--	--	0

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
OTHER ASCERTAINABLE RECORDS *(cont.)*								
AIRS - PA		SP	--	--	--	--	--	0
ARCT - PA		0.250	0	0	--	--	--	0
AUL - PA		0.500	0	0	0	--	--	0
DRYCLEANERS - PA		0.250	0	0	--	--	--	0
EFACTS - PA		0.500	0	0	0	--	--	0
EFACTS ENV REMEDIATION - PA		0.500	0	0	0	--	--	0
MANIFEST - PA		0.250	0	0	--	--	--	0
UIC - PA		SP	--	--	--	--	--	0

Unmappable Summary

2017

ENVIROSITE ID:	NAME:	ADDRESS:	CITY:	ZIP:	DATABASE(S):
333967915	BELLA MUSHROOM FARMS	RR 1 BOX 165B	LANDENBERG	19350	EFACTS ENV Remediation - PA
333979956	CHESTER HILLS FARM	WICKERTON RD	LANDENBERG	19350	EFACTS ENV Remediation - PA
333985364	CURTIS GREER FARM	PENN GREEN RD	LANDENBERG	19350	EFACTS ENV Remediation - PA
337158209	CVS PHARMACY 7183	730 NEWARK RD	LANDENBERG	19350	BRS, RCRA_LQG
27229570	EASTERN SHORE NATURAL GAS LONDONDERRY	LONDONDERRY TWP			EFACTS - PA, FRS
340646551	ESNG PIPELINE SEGMENTS 1 AND 1A	HIGHLAND TWP			EFACTS - PA
342441041	FISHER'S SANITARY SERVICE	RR 1	KUTZTOWN	19350	EFACTS - PA
334004298	GIOFFREDI MUSHROOMS INC	PENN GREEN RD	LANDENBERG	19350	EFACTS ENV Remediation - PA
325968271	LANDENBURG	1/4 MI S OF NEWARK & SUNNY DELL	LANDENBERG	19350	EFACTS ENV Remediation - PA, LUST - PA
340698288	LAWRENCE FARM	RR 1 BOX 185	LANDENBERG	19350	EFACTS - PA
334019343	LEONE PIZZINI & SON	RR 1 BOX 96	LANDENBERG	19350	EFACTS ENV Remediation - PA
340709978	LOT B5 - NICHOLS SUBD	WALKER RD	LANDENBERG	19350	EFACTS - PA
340681149	MACKIE PROPERTY DEV	PEACEDALE RD	LANDENBERG	19350	EFACTS - PA
333994553	MANFREDINI MUSHROOM FARM	PENN GREEN RD	LANDENBERG	19350	EFACTS ENV Remediation - PA
340752986	SARANA PROPERTY	PA SR 841	LANDENBERG	19350	EFACTS - PA
340718950	SCHADD POND PESTICIDES	107 LAVENDER LANE	LANDENBERG	19350	EFACTS - PA
1234781	TIMBAR PKG AND DISPLAY	COMMERCE ST	NEW OXFORD	19350	AST - PA
14510083	TUTTLE & MANET	399C FLEETWOOD RD	COATESVILLE	19350	RCRA_NONGEN
334035376	US POSTAL SVC	PENN GREEN RD	LANDENBERG	19350	EFACTS ENV Remediation - PA

FEDERAL RCRA NON-CORRACTS TSD FACILITIES LIST

ARCHIVED RCRA TSDF: Resource Conservation and Recovery Act hazardous waste transportation storage disposal and treatment facilities

Agency Version Date: 03/20/2017
Agency Update Frequency: Varies
Planned Next Contact: 08/18/2017
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 06/09/2017

RCRA_TSDF: Resource Conservation and Recovery Act hazardous waste transportation storage disposal and treatment facilities

Agency Version Date: 03/20/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 08/18/2017
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 06/09/2017

FEDERAL CERCLIS LIST

CERCLIS NFRAP: The CERCLIS sites with No Further Remedial Action Planned from the CERCLIS program database. The Environmental Protection Agency decommissioned the CERCLIS data in 2014. The last update was November 12, 2013.

Agency Version Date: 11/16/2016
Agency Update Frequency: Quarterly
Planned Next Contact: 08/15/2017
Agency: U.S. Environmental Protection Agency
Agency Contact: 800-424-9346
Most Recent Contact: 06/06/2017

CERCLIS-HIST: The CERCLIS program database contains information on the assessment and remediation of federal hazardous waste sites. The Environmental Protection Agency decommissioned the CERCLIS data in 2014. The last update was November 12, 2013.

Agency Version Date: 11/15/2016
Agency Update Frequency: Quarterly
Planned Next Contact: 08/15/2017
Agency: U.S. Environmental Protection Agency
Agency Contact: 800-424-9346
Most Recent Contact: 06/06/2017

FEDERAL FACILITY: Sites where Federal Facilities Restoration and Reuse Office (FFRRO) arranged cleanup for Base Closure and Property Transfer at Federal Facilities

Agency Version Date: 03/28/2017
Agency Update Frequency: Varies
Planned Next Contact: 08/15/2017
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8712
Most Recent Contact: 06/06/2017

SEMS_8R_ACTIVE SITES: The Active Site Inventory Report displays site and location information at active SEMS sites. An active site is one at which site assessment, removal, remedial, enforcement, cost recovery, or oversight activities are being planned or conducted. NPL sites include latitude and longitude information. For non-NPL sites, a brief site status is provided.

Agency Version Date: 03/28/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 08/15/2017
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 06/06/2017

SEMS_8R_ARCHIVED SITES: The Archived Site Inventory displays site and location information at sites archived from SEMS. An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time.

Agency Version Date: 03/28/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 08/15/2017
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 06/06/2017

FEDERAL RCRA CORRACTS FACILITIES LIST

CORRACTS: List of facilities where Resource Conservation and Recovery Act Corrective Action Program used to investigate and remediate hazardous releases

Agency Version Date: 03/20/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 08/18/2017
Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-1667
Most Recent Contact: 06/09/2017

FEDERAL DELISTED NPL SITE LIST

DELISTED NPL: National Priority List of sites that were delisted and no longer require action

Agency Version Date: 03/28/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 08/15/2017
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 06/06/2017

DELISTED PROPOSED NPL: Sites that have been delisted from the proposed National Priority List

Agency Version Date: 03/28/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 08/15/2017
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 06/06/2017

SEMS_DELETED NPL: All Deleted National Priority List Sties

Agency Version Date: 03/28/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 08/15/2017
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 06/06/2017

FEDERAL ERNS LIST

ERNS: Emergency Response Notification System records of reported spills

Agency Version Date: 05/03/2017
Agency Update Frequency: Annually
Planned Next Contact: 07/12/2017
Agency: National Response Center United States Coast Guard
Agency Contact: N/R
Most Recent Contact: 05/03/2017

FEDERAL INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES

Fed E C: Federal listing of remediation sites with engineering controls

Agency Version Date: 05/17/2017
Agency Update Frequency: Varies
Planned Next Contact: 07/26/2017
Agency: U.S. Environmental Protection Agency
Agency Contact: 800-424-9346
Most Recent Contact: 05/17/2017

Fed I C: Federal listing of remediation sites with institutional controls

Agency Version Date: 05/17/2017
Agency Update Frequency: Varies
Planned Next Contact: 07/26/2017
Agency: U.S. Environmental Protection Agency
Agency Contact: 800-424-9346
Most Recent Contact: 05/17/2017

RCRA IC_EC: Sites with institutional or engineering controls related to Resource Conservation and Recovery Act

Agency Version Date: 03/20/2017
Agency Update Frequency: Varies
Planned Next Contact: 08/18/2017
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 06/09/2017

FEDERAL INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES (cont.)

E C - PA: Sites with Engineering Controls

Agency Version Date: 05/05/2017
Agency Update Frequency: No update
Planned Next Contact: 07/14/2017
Agency: Department of Environmental Protection
Agency Contact: (717) 783-1566
Most Recent Contact: 05/05/2017

I C - PA: Sites with Institutional Controls

Agency Version Date: 05/05/2017
Agency Update Frequency: No update
Planned Next Contact: 07/14/2017
Agency: Department of Environmental Protection
Agency Contact: (717) 783-1566
Most Recent Contact: 05/05/2017

FEDERAL NPL SITE LIST

NPL: List of priority contaminated sites among identified releases or threatened releases of hazardous substances pollutants or contaminants nationally

Agency Version Date: 03/28/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 08/15/2017
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 06/06/2017

NPL EPA R1 GIS: Geospatial data for the Environmental Protection Agency Region 1 National Priority List subject to environmental regulation

Agency Version Date: 03/28/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 08/15/2017
Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-2132
Most Recent Contact: 06/06/2017

NPL EPA R6 GIS: Geospatial data for the Environmental Protection Agency Region 6 National Priority List subject to environmental regulation

Agency Version Date: 03/28/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 08/15/2017
Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-2132
Most Recent Contact: 06/06/2017

NPL EPA R8 GIS: Geospatial data for the Environmental Protection Agency Region 8 National Priority List subject to environmental regulation

Agency Version Date: 03/28/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 08/15/2017
Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-2132
Most Recent Contact: 06/06/2017

NPL EPA R9 GIS: Geospatial data for the Environmental Protection Agency Region 9 National Priority List subject to environmental regulation

Agency Version Date: 03/28/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 08/15/2017
Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-2132
Most Recent Contact: 06/06/2017

NPL LIENS: National Priority List of sites with Liens

Agency Version Date: 01/19/2017
Agency Update Frequency: Varies
Planned Next Contact: 07/11/2017
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 04/14/2017

FEDERAL NPL SITE LIST (cont.)

PART NPL: Sites that are a part of an National Priority List site referred to as the parent site

Agency Version Date: 03/28/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 08/15/2017
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 06/06/2017

PROPOSED NPL: Sites that have been proposed for the National Priority List

Agency Version Date: 03/28/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 08/15/2017
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 06/06/2017

SEMS_FINAL NPL: All Included National Priority List Sites

Agency Version Date: 03/28/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 08/15/2017
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 06/06/2017

SEMS_PROPOSED NPL: All Proposed National Priority List Sites

Agency Version Date: 03/28/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 08/15/2017
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 06/06/2017

FEDERAL RCRA GENERATORS LIST

RCRA_CESQG: Resource Conservation and Recovery Act listing of licensed conditionally exempt small quantity generators

Agency Version Date: 03/20/2017
Agency Update Frequency: Varies
Planned Next Contact: 08/18/2017
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 06/09/2017

RCRA_FULL_DETAIL: Full detail of related sites to the Resource Conservation and Recovery Act

Agency Version Date: 03/20/2017
Agency Update Frequency: Varies
Planned Next Contact: 08/18/2017
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 06/09/2017

RCRA_LQG: Resource Conservation and Recovery Act listing of licensed large quantity generators

Agency Version Date: 03/20/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 08/18/2017
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 06/09/2017

RCRA_NONGEN: Resource Conservation and Recovery Act listing of licensed non-generators

Agency Version Date: 03/20/2017
Agency Update Frequency: Varies
Planned Next Contact: 08/18/2017
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 06/09/2017

RCRA_SQG: Resource Conservation and Recovery Act listing of licensed small quantity generators

Agency Version Date: 03/20/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 08/18/2017
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 06/09/2017

STATE AND TRIBAL REGISTERED STORAGE TANK LISTS

FEMA UST: FEMA underground storage tank listing

Agency Version Date: 05/25/2017
Agency Update Frequency: Varies
Planned Next Contact: 08/08/2017
Agency: FEMA
Agency Contact: 202-212-5283
Most Recent Contact: 05/12/2017

INDIAN UST R1: Underground Storage Tanks on Indian Land in EPA Region 1

Agency Version Date: 04/18/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 06/27/2017
Agency: U.S. Environmental Protection Agency Region 1
Agency Contact: 855-246-3642
Most Recent Contact: 04/18/2017

INDIAN UST R10: Underground Storage Tanks on Indian Land in EPA Region 10

Agency Version Date: 05/25/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 08/03/2017
Agency: U.S. Environmental Protection Agency Region 10
Agency Contact: 855-246-3642
Most Recent Contact: 05/25/2017

INDIAN UST R2: Underground Storage Tanks on Indian Land in EPA Region 2

Agency Version Date: 04/24/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 07/03/2017
Agency: U.S. Environmental Protection Agency Region 2
Agency Contact: 855-246-3642
Most Recent Contact: 04/24/2017

INDIAN UST R4: Underground Storage Tanks on Indian Land in EPA Region 4

Agency Version Date: 05/15/2017
Agency Update Frequency: Semi Annually
Planned Next Contact: 07/24/2017
Agency: U.S. Environmental Protection Agency Region 4
Agency Contact: 855-246-3642
Most Recent Contact: 05/15/2017

INDIAN UST R5: Underground Storage Tanks on Indian Land in EPA Region 5

Agency Version Date: 05/04/2017
Agency Update Frequency: Varies
Planned Next Contact: 07/13/2017
Agency: U.S. Environmental Protection Agency Region 5
Agency Contact: 855-246-3642
Most Recent Contact: 05/04/2017

INDIAN UST R6: Underground Storage Tanks on Indian Land in EPA Region 6

Agency Version Date: 05/18/2017
Agency Update Frequency: Semi Annually
Planned Next Contact: 07/27/2017
Agency: U.S. Environmental Protection Agency Region 6
Agency Contact: 855-246-3642
Most Recent Contact: 05/18/2017

INDIAN UST R7: Underground Storage Tanks on Indian Land in EPA Region 7

Agency Version Date: 11/21/2016
Agency Update Frequency: Varies
Planned Next Contact: 07/13/2017
Agency: U.S. Environmental Protection Agency Region 7
Agency Contact: 855-246-3642
Most Recent Contact: 05/04/2017

INDIAN UST R8: Underground Storage Tanks on Indian Land in EPA Region 8

Agency Version Date: 04/17/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 06/26/2017
Agency: U.S. Environmental Protection Agency Region 8
Agency Contact: 855-246-3642
Most Recent Contact: 04/17/2017

STATE AND TRIBAL REGISTERED STORAGE TANK LISTS (cont.)

INDIAN UST R9: Underground Storage Tanks on Indian Land in EPA Region 9

Agency Version Date: 04/17/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 06/26/2017

Agency: U.S. Environmental Protection Agency Region 9
Agency Contact: 855-246-3642
Most Recent Contact: 04/17/2017

AST - PA: Registered Aboveground Storage Tanks

Agency Version Date: 04/25/2017
Agency Update Frequency: Varies
Planned Next Contact: 07/04/2017

Agency: Department of Environmental Protection
Agency Contact: (717) 772-5599
Most Recent Contact: 04/25/2017

UST - PA: Registered Underground Storage Tanks

Agency Version Date: 04/25/2017
Agency Update Frequency: Varies
Planned Next Contact: 07/04/2017

Agency: Department of Environmental Protection
Agency Contact: (717) 772-5599
Most Recent Contact: 04/25/2017

RECORDS OF EMERGENCY RELEASE REPORTS

HMIRS (DOT): Hazardous Material spills reported by the Department of Transportation

Agency Version Date: 03/22/2017
Agency Update Frequency: Varies
Planned Next Contact: 08/09/2017

Agency: U.S. Department of Transportation
Agency Contact: (202) 366-4996
Most Recent Contact: 05/31/2017

STATE AND TRIBAL LEAKING STORAGE TANK LISTS

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land in EPA Region 1

Agency Version Date: 04/18/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 06/27/2017

Agency: U.S. Environmental Protection Agency Region 1
Agency Contact: 855-246-3642
Most Recent Contact: 04/18/2017

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land in EPA Region 10

Agency Version Date: 05/15/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 07/24/2017

Agency: U.S. Environmental Protection Agency Region 10
Agency Contact: 855-246-3642
Most Recent Contact: 05/15/2017

INDIAN LUST R2: Leaking Underground Storage Tanks on Indian Land in EPA Region 2

Agency Version Date: 04/25/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 07/04/2017

Agency: U.S. Environmental Protection Agency Region 2
Agency Contact: 855-246-3642
Most Recent Contact: 04/25/2017

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land in EPA Region 4

Agency Version Date: 05/15/2017
Agency Update Frequency: Semi Annually
Planned Next Contact: 07/24/2017

Agency: U.S. Environmental Protection Agency Region 4
Agency Contact: 855-246-3642
Most Recent Contact: 05/15/2017

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land in EPA Region 5

Agency Version Date: 05/04/2017
Agency Update Frequency: Varies
Planned Next Contact: 07/13/2017

Agency: U.S. Environmental Protection Agency Region 5
Agency Contact: 855-246-3642
Most Recent Contact: 05/04/2017

STATE AND TRIBAL LEAKING STORAGE TANK LISTS (cont.)

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land in EPA Region 6

Agency Version Date: 05/08/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 07/17/2017
Agency: U.S. Environmental Protection Agency Region 6
Agency Contact: 855-246-3642
Most Recent Contact: 05/08/2017

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land in EPA Region 7

Agency Version Date: 09/13/2016
Agency Update Frequency: Varies
Planned Next Contact: 07/13/2017
Agency: U.S. Environmental Protection Agency Region 7
Agency Contact: 855-246-3642
Most Recent Contact: 05/04/2017

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land in EPA Region 8

Agency Version Date: 05/05/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 07/14/2017
Agency: U.S. Environmental Protection Agency Region 8
Agency Contact: 855-246-3642
Most Recent Contact: 05/05/2017

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land in EPA Region 9

Agency Version Date: 04/17/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 06/26/2017
Agency: U.S. Environmental Protection Agency Region 9
Agency Contact: 855-246-3642
Most Recent Contact: 04/17/2017

LAST - PA: Leaking Aboveground Storage Tanks

Agency Version Date: 04/25/2017
Agency Update Frequency: Varies
Planned Next Contact: 07/04/2017
Agency: Department of Environmental Protection
Agency Contact: (717) 783-1566
Most Recent Contact: 04/25/2017

LUST - PA: Leaking Underground Storage Tanks

Agency Version Date: 04/25/2017
Agency Update Frequency: Varies
Planned Next Contact: 07/04/2017
Agency: Department of Environmental Protection
Agency Contact: (717) 783-1566
Most Recent Contact: 04/25/2017

URLT - PA: Unregulated Tanks with leaks

Agency Version Date: 04/25/2017
Agency Update Frequency: Varies
Planned Next Contact: 07/04/2017
Agency: Department of Environmental Protection
Agency Contact: (717) 783-1566
Most Recent Contact: 04/25/2017

STATE AND TRIBAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS

ABANDONED LF - PA: Landfills that have been abandoned listed in the Abandoned Landfill Inventory

Agency Version Date: 01/04/2017
Agency Update Frequency: Varies
Planned Next Contact: 07/14/2017
Agency: Department of Environmental Protection
Agency Contact: (717) 787-7381
Most Recent Contact: 04/18/2017

HIST LF INVENTORY - PA: Listing of Historical landfills

Agency Version Date: 12/28/2016
Agency Update Frequency: No update
Planned Next Contact: 06/23/2017
Agency: Department of Environmental Protection
Agency Contact: (717) 787-7381
Most Recent Contact: 03/28/2017

STATE AND TRIBAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS (cont.)

INACTIVE LF - PA: Inactive Landfills

Agency Version Date: 01/04/2017
Agency Update Frequency: Varies
Planned Next Contact: 07/14/2017

Agency: Department of Environmental Protection
Agency Contact: (717) 787-7381
Most Recent Contact: 04/18/2017

SWF/LF - PA: State Landfill Sites

Agency Version Date: 01/04/2017
Agency Update Frequency: Varies
Planned Next Contact: 07/14/2017

Agency: Department of Environmental Protection
Agency Contact: (717) 787-7381
Most Recent Contact: 04/18/2017

STATE- AND TRIBAL - EQUIVALENT CERCLIS

HSCA - PA: Sites listed in the Hazardous Site Cleanup

Agency Version Date: 05/05/2017
Agency Update Frequency: Varies
Planned Next Contact: 07/14/2017

Agency: Department of Environmental Protection
Agency Contact: N/R
Most Recent Contact: 05/05/2017

HSCA REM - PA: Sites under the HSCA that are designated as Remedial Response

Agency Version Date: 05/05/2017
Agency Update Frequency: Varies
Planned Next Contact: 07/14/2017

Agency: Department of Environmental Protection
Agency Contact: N/R
Most Recent Contact: 05/05/2017

STATE AND TRIBAL VOLUNTARY CLEANUP SITES

VCP - PA: Voluntary Cleanup Program Sites

Agency Version Date: 03/28/2017
Agency Update Frequency: Varies
Planned Next Contact: 08/15/2017

Agency: Department of Environmental Protection
Agency Contact: (717) 783-1566
Most Recent Contact: 06/06/2017

OTHER ASCERTAINABLE RECORDS

Corrective Actions_2020: The RCRA cleanup baseline includes facilities expected to need corrective action.

Agency Version Date: 03/20/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 08/18/2017

Agency: U.S. Environmental Protection Agency
Agency Contact: N/R
Most Recent Contact: 06/09/2017

LOCAL LISTS OF LANDFILL / SOLID WASTE DISPOSAL SITES

DEBRIS REGION 9: Torres Martinez Reservation illegal dump site listing

Agency Version Date: 03/29/2017
Agency Update Frequency: Varies
Planned Next Contact: 06/23/2017

Agency: U.S. Environmental Protection Agency Region 9
Agency Contact: 855-246-3642
Most Recent Contact: 03/28/2017

INDIAN ODI R8: Region 8 Indian land open dump inventory sites mainted within the STARS program

Agency Version Date: 01/04/2017
Agency Update Frequency: Varies
Planned Next Contact: 07/10/2017

Agency: Indian Health Service
Agency Contact: 855-246-3642
Most Recent Contact: 05/01/2017

LOCAL LISTS OF LANDFILL / SOLID WASTE DISPOSAL SITES (cont.)

ODI: Open dump inventory sites

Agency Version Date: 03/07/2017
Agency Update Frequency: No Update
Planned Next Contact: 07/25/2017
Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 05/16/2017

TRIBAL ODI: Indian land open dump inventory for all regions

Agency Version Date: 05/18/2017
Agency Update Frequency: Varies
Planned Next Contact: 07/27/2017
Agency: Indian Health Service
Agency Contact: 301-443-3593
Most Recent Contact: 05/18/2017

LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES

FED CDL: The U.S. Department of Justice listing of clandestine drug lab locations

Agency Version Date: 04/17/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 06/26/2017
Agency: U.S. Department of Justice
Agency Contact: 202-307-7610
Most Recent Contact: 04/17/2017

US HIST CDL: The U.S. Department of Justice historical listing of clandestine drug lab locations

Agency Version Date: 04/17/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 06/26/2017
Agency: U.S. Department of Justice
Agency Contact: 202-307-7610
Most Recent Contact: 04/17/2017

LOCAL BROWNFIELD LISTS

Fed Brownfields: Federal brownfield remediation sites

Agency Version Date: 04/25/2017
Agency Update Frequency: Semi Annually
Planned Next Contact: 07/04/2017
Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 04/25/2017

TRIBAL BROWNFIELDS: Tribal brownfield remediation site listing

Agency Version Date: 03/07/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 07/28/2017
Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 05/01/2017

BROWNFIELDS - PA: Locations determined to be Brownfield Sites

Agency Version Date: 05/19/2017
Agency Update Frequency: Varies
Planned Next Contact: 07/28/2017
Agency: Department of Environmental Protection
Agency Contact: (717) 783-1566
Most Recent Contact: 05/19/2017

LOCAL LAND RECORDS

LIENS 2: Comprehensive Environmental Response Compensation and Liability Act sites with liens

Agency Version Date: 05/11/2017
Agency Update Frequency: Varies
Planned Next Contact: 07/04/2017
Agency: U.S. Environmental Protection Agency
Agency Contact: 800-424-9346
Most Recent Contact: 04/07/2017

RECORDS OF EMERGENCY RELEASE REPORTS

SPILLS - PA: Listing of Hazardous Material spills/releases reported in the Hazardous Material Logbook

Agency Version Date: 05/05/2017
Agency Update Frequency: Varies
Planned Next Contact: 07/14/2017
Agency: Department of Environmental Protection
Agency Contact: N/R
Most Recent Contact: 05/05/2017

OTHER ASCERTAINABLE RECORDS

AFS: Air Facility Systems Quarterly Extract

Agency Version Date: 12/28/2016
Agency Update Frequency: Quarterly
Planned Next Contact: 06/23/2017
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 03/28/2017

BRS: Reporting of hazardous waste generation and management from large quantity generators

Agency Version Date: 03/20/2017
Agency Update Frequency: Biennial
Planned Next Contact: 08/18/2017
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 06/09/2017

CDC HAZDAT: The Agency for Toxic Substances and Disease Registry's Hazardous Substance Release/Health Effects Database.

Agency Version Date: 06/28/2014
Agency Update Frequency: Varies
Planned Next Contact: 08/15/2017
Agency: Agency for Toxic Substances and Disease Registry
Agency Contact: 770-488-6399
Most Recent Contact: 06/06/2017

COAL ASH DOE: List of existing and planned generators with 1 megawatt or greater of combined capacity that are utilizing coal ash impoundments.

Agency Version Date: 03/23/2017
Agency Update Frequency: Varies
Planned Next Contact: 08/10/2017
Agency: Department of Energy
Agency Contact: (202) 586-8800
Most Recent Contact: 06/01/2017

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

Agency Version Date: 05/08/2017
Agency Update Frequency: Varies
Planned Next Contact: 07/17/2017
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 05/08/2017

COAL GAS: Manufactured Gas Plant locations

Agency Version Date: 06/28/2014
Agency Update Frequency: Quarterly
Planned Next Contact: 08/07/2017
Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 05/11/2017

CONSENT (DECREES): Legal decisions regarding responsibility for Superfund locations

Agency Version Date: 03/23/2017
Agency Update Frequency: Varies
Planned Next Contact: 08/15/2017
Agency: Environmental Protection Agency
Agency Contact: (800) 424-9346
Most Recent Contact: 06/06/2017

DIGITAL OBSTACLE: The Digital Obstacle File describes all known obstacles of interest to aviation users in the U.S. with limited coverage of the Pacific the Caribbean Canada and Mexico. The obstacles are assigned unique numerical identifiers; accuracy codes and listed in order of ascending latitude within each state or area by FAA Region.

Agency Version Date: 02/16/2017
Agency Update Frequency: Varies
Planned Next Contact: 07/06/2017
Agency: Federal Aviation Administration
Agency Contact: 855-379-6518
Most Recent Contact: 04/27/2017

OTHER ASCERTAINABLE RECORDS (cont.)

DOD: Department of Defense sites

Agency Version Date: 04/03/2017
Agency Update Frequency: Varies
Planned Next Contact: 08/15/2017

Agency: Environmental Protection Agency
Agency Contact: (800) 424-9346
Most Recent Contact: 06/06/2017

DOT OPS: Incident Data Report

Agency Version Date: 03/06/2017
Agency Update Frequency: Varies
Planned Next Contact: 07/24/2017

Agency: U.S. Department of Transportation
Agency Contact: (202) 366-4996
Most Recent Contact: 05/15/2017

ECHO: ECHO is EPA Enforcement and Compliance History Online website to search for facilities in your community to assess their compliance with environmental regulations related to CAA, CWA, RCRA, & SDWA.

Agency Version Date: 03/27/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 08/14/2017

Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-1667
Most Recent Contact: 06/05/2017

ENOI: ENOI - EPA Electronic Notice of Intent (eNOI) database contains construction sites industrial facilities pesticides and vessel operators to apply for coverage and submit a variety of other reports electronically required under EPAs Construction Genera

Agency Version Date: 03/10/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 07/28/2017

Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 05/19/2017

FA HWF: Hazardous Waste Facilities with Financial Assurance

Agency Version Date: 04/11/2017
Agency Update Frequency: Varies
Planned Next Contact: 06/20/2017

Agency: Environmental Protection Agency
Agency Contact: (800) 424-9346
Most Recent Contact: 04/11/2017

FEDLAND: Federal land locations

Agency Version Date: 03/27/2017
Agency Update Frequency: Varies
Planned Next Contact: 08/14/2017

Agency: Environmental Protection Agency
Agency Contact: (800) 424-9346
Most Recent Contact: 06/05/2017

FRS: Facility Registry Systems

Agency Version Date: 03/02/2017
Agency Update Frequency: Varies
Planned Next Contact: 07/20/2017

Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 05/11/2017

FTTS: Tracking of administrative and enforcement activities related to FIFRA/TSCA

Agency Version Date: 05/08/2017
Agency Update Frequency: Varies
Planned Next Contact: 08/04/2017

Agency: Environmental Protection Agency
Agency Contact: (202) 564-2280
Most Recent Contact: 05/08/2017

FTTS INSP: Tracking of inspections related to FIFRA/TSCA

Agency Version Date: 05/08/2017
Agency Update Frequency: Varies
Planned Next Contact: 08/04/2017

Agency: Environmental Protection Agency
Agency Contact: (202) 564-2280
Most Recent Contact: 05/08/2017

OTHER ASCERTAINABLE RECORDS (cont.)

FUDS: Defense sites that require cleanup

Agency Version Date: 05/08/2017
Agency Update Frequency: Varies
Planned Next Contact: 07/17/2017
Agency: US Army Corps of Engineering
Agency Contact: (202) 761-0011
Most Recent Contact: 05/08/2017

ICIS: Comprised of all Federal Administrative and Judicial enforcement information [intended to replace PCS] by tracking enforcement and compliance information (also contains what used to be known as FFTS)

Agency Version Date: 03/28/2017
Agency Update Frequency: Varies
Planned Next Contact: 08/15/2017
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 06/06/2017

INDIAN RESERVATION: Indian Reservation sites

Agency Version Date: 05/10/2017
Agency Update Frequency: Varies
Planned Next Contact: 07/19/2017
Agency: Environmental Protection Agency
Agency Contact: (800) 424-9346
Most Recent Contact: 05/10/2017

LEAD_SMELTER: Listing of former Lead Smelter Sites

Agency Version Date: 05/16/2017
Agency Update Frequency: Varies
Planned Next Contact: 07/25/2017
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 05/16/2017

LUCIS: Land Use Control Information Systems

Agency Version Date: 06/28/2014
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 08/21/2017
Agency: Department of the Navy: BRAC PMO
Agency Contact: (619) 532-0900
Most Recent Contact: 05/24/2017

MINES: Mines Master Index Files

Agency Version Date: 03/27/2017
Agency Update Frequency: Varies
Planned Next Contact: 08/14/2017
Agency: Department of Labor
Agency Contact: (202) 693-9400
Most Recent Contact: 06/05/2017

MLTS: Sites in possession/use of radioactive materials regulated by NRC

Agency Version Date: 11/28/2016
Agency Update Frequency: Varies
Planned Next Contact: 07/24/2017
Agency: Nuclear Regulatory Commission
Agency Contact: (800) 397-4209
Most Recent Contact: 04/27/2017

NPL AOC: Areas of Concern related to NPL remediation sites

Agency Version Date: 04/03/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 08/15/2017
Agency: Environmental Protection Agency
Agency Contact: N/R
Most Recent Contact: 06/06/2017

OSHA: OSHA's listing of inspections violations and fatality information

Agency Version Date: 03/28/2017
Agency Update Frequency: Varies
Planned Next Contact: 08/15/2017
Agency: Occupational Safety & Health Administration
Agency Contact: 800-321-6742
Most Recent Contact: 06/06/2017

OTHER ASCERTAINABLE RECORDS (cont.)

PADS: Listing of generators transporters commercial store/ brokers and disposers of PCB

Agency Version Date: 04/28/2017
Agency Update Frequency: Varies
Planned Next Contact: 07/07/2017
Agency: Environmental Protection Agency
Agency Contact: (703) 308-8404
Most Recent Contact: 04/28/2017

PCB TRANSFORMER: Registry of PCB's

Agency Version Date: 04/08/2017
Agency Update Frequency: No Update
Planned Next Contact: 08/25/2017
Agency: Environmental Protection Agency
Agency Contact: (703) 308-8404
Most Recent Contact: 06/16/2017

RAATS: Listing of major violators with enforcement actions issued under RCRA. Includes administrative and civil actions filed by the EPA. This dataset is no longer maintained.

Agency Version Date: 03/20/2017
Agency Update Frequency: Varies
Planned Next Contact: 08/18/2017
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 06/09/2017

RADINFO: EPA regulated facilities with radiation and radioactive materials

Agency Version Date: 04/08/2017
Agency Update Frequency: Varies
Planned Next Contact: 08/25/2017
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 06/16/2017

RMP: Facilities producing/handling/ process/ distribute/ store specific chemicals report plans required by the Clean Air Act

Agency Version Date: 01/10/2017
Agency Update Frequency: Monthly
Planned Next Contact: 08/22/2017
Agency: Environmental Protection Agency
Agency Contact: (202) 564-2534
Most Recent Contact: 05/24/2017

ROD: Permanent remedy at an NPL site

Agency Version Date: 04/28/2017
Agency Update Frequency: Varies
Planned Next Contact: 08/15/2017
Agency: Environmental Protection Agency
Agency Contact: (800) 424-9346
Most Recent Contact: 06/06/2017

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners

Agency Version Date: 03/09/2017
Agency Update Frequency: No Update
Planned Next Contact: 07/27/2017
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 05/18/2017

SEMS_SMELTER: This report includes sites that have smelting-related, or potentially smelting-related, indicators in the SEMS database. The report includes information on the site location as well as contaminants of concern.

Agency Version Date: 03/28/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 08/15/2017
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 06/06/2017

SSTS: Tracking of facilities who produce pesticides and their quantity

Agency Version Date: 02/28/2017
Agency Update Frequency: Annually
Planned Next Contact: 02/28/2018
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 02/28/2017

OTHER ASCERTAINABLE RECORDS (cont.)

TOSCA-CHEMICAL: Chemicals controlled by the Toxic Substance Control Act

Agency Version Date: 06/28/2014
Agency Update Frequency: Varies
Planned Next Contact: 07/18/2017
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 05/09/2017

TOSCA-PLANT: Plants controlled by the Toxic Substance Control Act

Agency Version Date: 03/15/2017
Agency Update Frequency: Varies
Planned Next Contact: 08/02/2017
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 05/24/2017

TRIS: Information regarding toxic chemicals that are being used/manufactured/ treated/ transported/released into the environment

Agency Version Date: 03/27/2017
Agency Update Frequency: Varies
Planned Next Contact: 08/14/2017
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 06/05/2017

UMTRA: Uranium Recovery Sites

Agency Version Date: 03/27/2017
Agency Update Frequency: Varies
Planned Next Contact: 08/14/2017
Agency: United States Nuclear Regulatory Commission
Agency Contact: (301) 415-8200
Most Recent Contact: 06/05/2017

ACT 2 DEED - PA: Sites listed with Deed Acknowledgment

Agency Version Date: 03/28/2017
Agency Update Frequency: Varies
Planned Next Contact: 08/15/2017
Agency: Department of Environmental Protection
Agency Contact: (717) 787-2043
Most Recent Contact: 06/06/2017

AIRS - PA: Permit and Emissions Inventory

Agency Version Date: 09/29/2016
Agency Update Frequency: Annually
Planned Next Contact: 09/13/2017
Agency: Department of Environmental Protection
Agency Contact: (717) 783-9241
Most Recent Contact: 06/15/2017

ARCT - PA: Aboveground Storage tanks Out of service

Agency Version Date: 04/17/2017
Agency Update Frequency: Varies
Planned Next Contact: 06/26/2017
Agency: Department of Environmental Protection
Agency Contact: (717) 772-5599
Most Recent Contact: 04/17/2017

AUL - PA: Sites with Activity Use Limitation

Agency Version Date: 03/24/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 08/11/2017
Agency: Department of Environmental Protection
Agency Contact: (717) 783-1566
Most Recent Contact: 06/02/2017

DRYCLEANERS - PA: Dry Cleaning Facilities

Agency Version Date: 03/13/2017
Agency Update Frequency: Varies
Planned Next Contact: 09/01/2017
Agency: Department of Environmental Protection
Agency Contact: (717) 772-9482
Most Recent Contact: 06/05/2017

OTHER ASCERTAINABLE RECORDS (cont.)

EFACTS - PA: Environment Facility Application Compliance Tracking System

Agency Version Date: 12/21/2016
Agency Update Frequency: Quarterly
Planned Next Contact: 07/18/2017

Agency: PA Department of Environmental Protection
Agency Contact: N/R
Most Recent Contact: 05/09/2017

EFACTS ENV Remediation - PA: Environmental Cleanup & Brownfields records from the PA eFACTS (Environment Facility Application Compliance Tracking System).

Agency Version Date: 02/21/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 07/11/2017

Agency: PA Department of Environmental Protection
Agency Contact: 360.902.1452
Most Recent Contact: 05/02/2017

MANIFEST - PA: State's Hazardous Waste Manifest

Agency Version Date: 03/01/2017
Agency Update Frequency: Monthly
Planned Next Contact: 08/15/2017

Agency: Department of Environmental Protection
Agency Contact: (717) 787-6239
Most Recent Contact: 06/06/2017

UIC - PA: Regulated Underground Injection Controlled wells

Agency Version Date: 04/07/2017
Agency Update Frequency: Varies
Planned Next Contact: 08/25/2017

Agency: Department of Environmental Protection
Agency Contact: (717) 787-2043
Most Recent Contact: 06/16/2017

SUBJECT PROPERTY ADDRESS:
Strawbridge 1 Property
99 Bullock Road
Landenberg, PA 19350

SUBJECT PROPERTY COORDINATES:

Latitude(North):	39.735822 - 39°44'9"
Longitude(West):	-75.858291 - -75°51'29.8"
Universal Transverse Mercator:	Zone 18N
UTM X (Meters):	426454.47
UTM Y (Meters):	4398788.83

ELEVATION:

Elevation:	72.001 ft. above sea level

USGS TOPOGRAPHIC MAP:

Subject Property Map:	39075f7 NEWARK WEST, MD
Most Recent Revision:	No Available Data.
Subject Property Map:	39075f8 BAY VIEW, MD
Most Recent Revision:	2016

GEOHYDROLOGY DATA:

SUBJECT PROPERTY TOPOGRAPHY:

Topographic Gradient: East

DFIRM FLOOD ZONE:

	DFIRM Flood
Subject Property County:	Electronic Data:
CHESTER	Yes - refer to the PROPERTY PROXIMITY MAP and AREA MAP
Flood Plain Panel at Subject Property:	42029C
Additional Panels in search area:	24015C

FEMA FLOOD ZONE:

	FEMA Flood
Subject Property County:	Electronic Data:
CHESTER	Yes - refer to the PROPERTY PROXIMITY MAP and AREA MAP
Flood Plain Panel at Subject Property:	42029C0605D 42029C0585D
Additional Panels in search area:	2400190020A 42029C0445D 42029C0465D

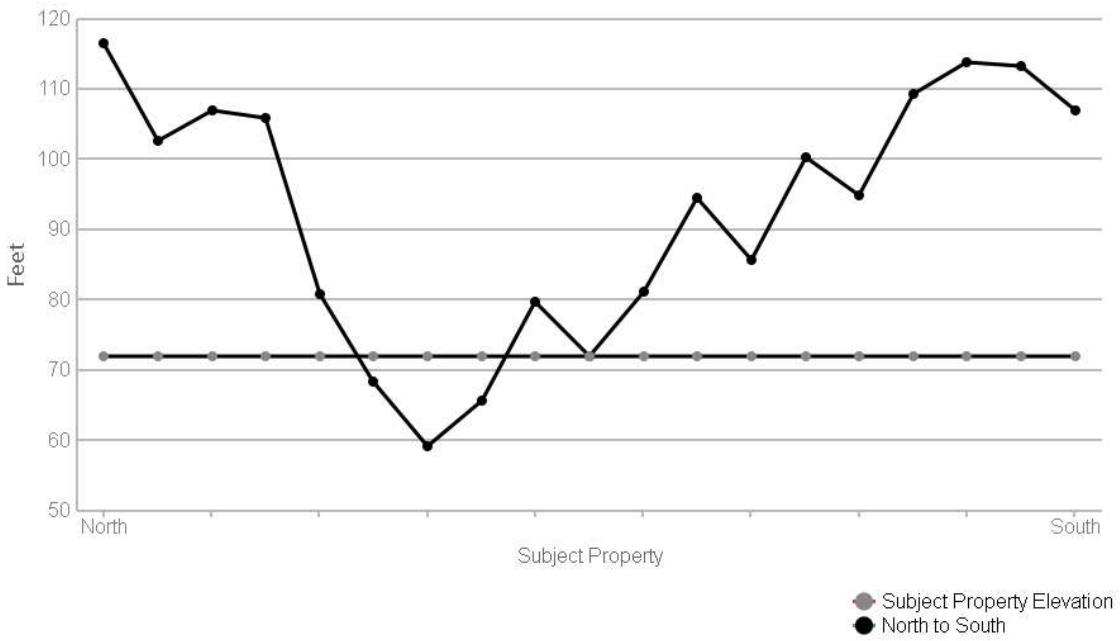
NATIONAL WETLAND INVENTORY:

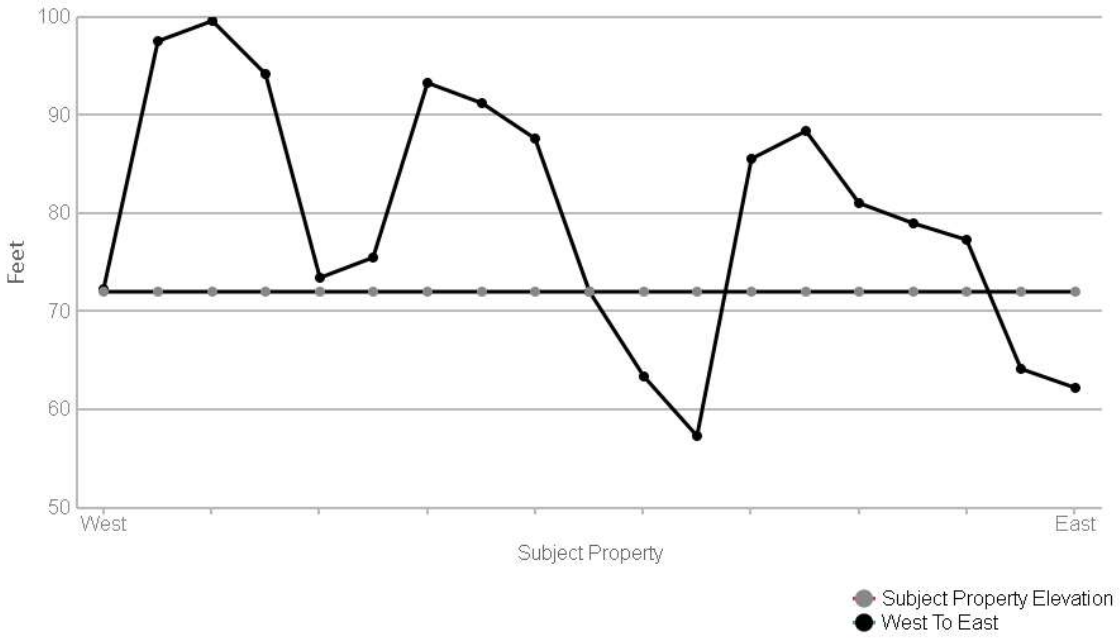
	NWI Electronic
NWI Quad at Subject Property:	Data Coverage:
NEWARK WEST	Yes - refer to the Geological Findings Map

LITHOSTRATIGRAPHIC INFORMATION:

ROCK STRATIGRAPHIC UNIT:		GEOLOGIC AGE IDENTIFICATION
Era:	Paleozoic	Category: 135 Ce Cambrian eugeosynclinal
System:	Cambrian	
Series:	Cambrian eugeosynclinal	
Code:	Ce	

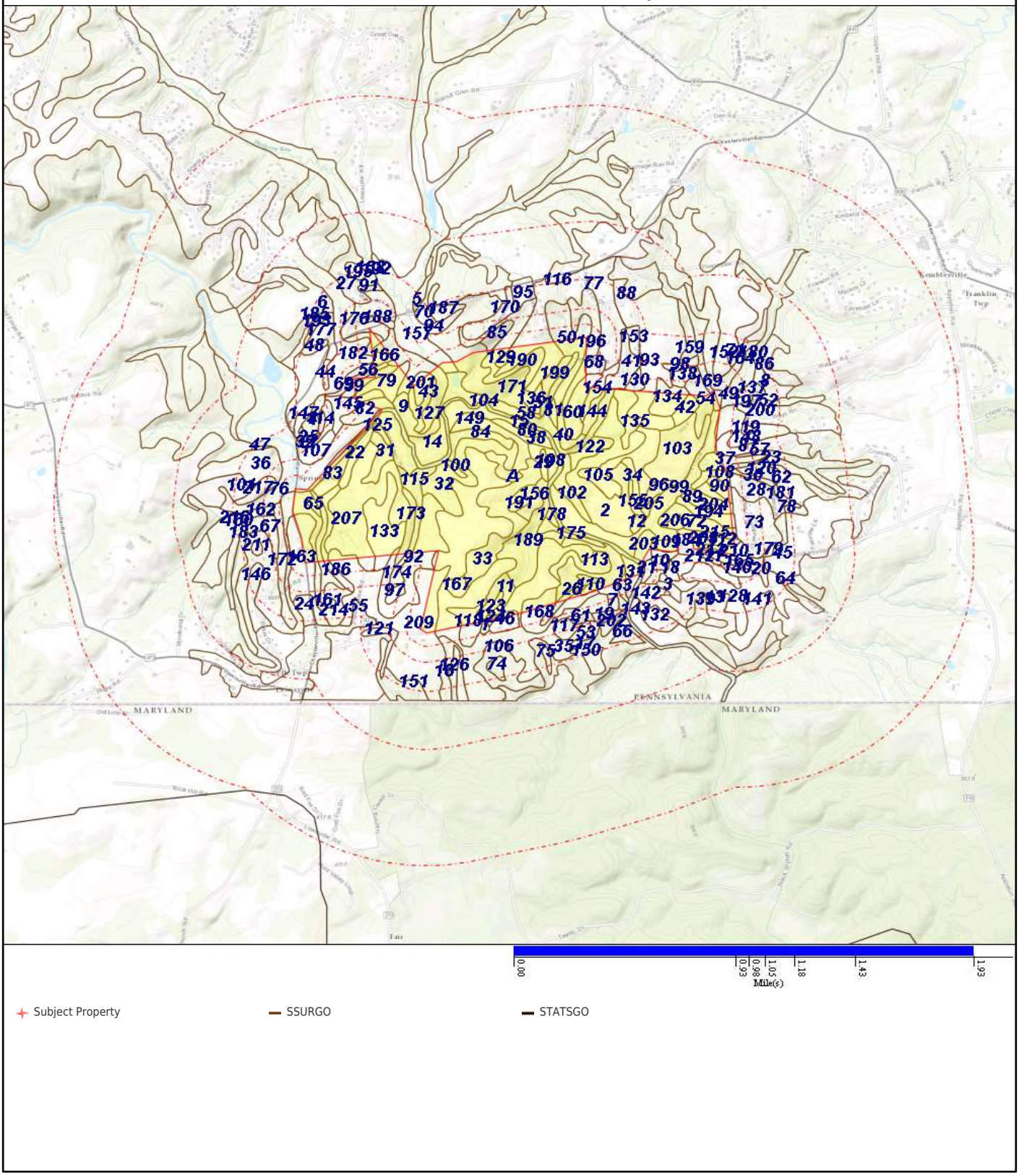
SURROUNDING ELEVATION PROFILES:





SUBJECT NAME: Strawbridge II Property
ADDRESS: 99 Bullock Road, Landenberg, PA 19350
LAT/LONG: 39.735822 / -75.858291

PREPARED FOR: Ten Bears Environmental Associates Co
ORDER #: 13094
REPORT DATE: June 19, 2017



SOIL COMPOSITION IN GENERAL AREA OF SUBJECT PROPERTY:

Agency source: Soil Conservation Service, US Department of Agriculture

SOIL MAP ID 1

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
6	76-112	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5
7	112-135	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 2

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 3

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	2
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-6.6
2	20-58	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-6
3	58-152	Very fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	3.6-6

SOIL MAP ID 4

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 5

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	11
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	23-48	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	48-99	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4.23	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	99-208	Loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	4.5-5.5

SOIL MAP ID 6

USDA Soil Name	Glenelg,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.8-7.2
2	20-46	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent	4.23-14.11	4.2-7.7

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	20-46	Clay loam	M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-7.7
3	46-76	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.4-7.2
4	76-107	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.3-7
5	107-137	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.3-7

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
6	137-193	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-42	4.3-7

SOIL MAP ID 7

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 8

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 9

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-6.6
2	9-47	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil	4.23-14.11	3.6-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	9-47	Loam	material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-6
3	47-152	Very fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	3.6-6

SOIL MAP ID 10

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	2
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	4.23-14.11	4.2-6.6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-6.6
2	20-58	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-6
3	58-152	Very fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	3.6-6

SOIL MAP ID 11

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 12

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	2
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4.23-14.11	4.2-6.6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-6.6
2	20-58	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-6
3	58-152	Very fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	3.6-6

SOIL MAP ID 13

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 14

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	11
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4.23-14.11	4.5-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	23-48	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	48-99	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4.23	4.5-6
4	99-208	Loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	4.5-5.5

SOIL MAP ID 15

USDA Soil Name	Comus,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	8
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-30	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
2	30-99	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	99-152	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-42.34	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	99-152	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-42.34	4.5-6

SOIL MAP ID 16

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 17

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	56-76	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5
7	112-135	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 18

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
6	76-112	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5
7	112-135	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 19

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-6.6
2	9-47	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	47-152	Very fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	3.6-6

SOIL MAP ID 20

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 21

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	11
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	23-48	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil	4.23-14.11	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	23-48	Silt loam	material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	48-99	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4.23	4.5-6
4	99-208	Loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	4.5-5.5

SOIL MAP ID 22

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-6.6
2	9-47	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-6
3	47-152	Very fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	3.6-6

SOIL MAP ID 23

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 24

USDA Soil Name	Urban land,Miscellaneous area
USDA Soil Texture	Not Reported
Hydrologic Soil Group	Not Reported
Soil Drainage Class	Not Reported
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Not Reported

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15		Granular materials (35% or less passing No. 200 sieve), silty or clayey gravel and sand. Reference: This is a classification of soil material for highway and airfield construction (Procedure	COARSE-GRAINED SOILS, Gravels, clean gravels, Poorly Graded Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	No data	No data

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15		M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	No data	No data

SOIL MAP ID 25

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-6.6
2	9-47	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	3.6-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	9-47	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	3.6-6
3	47-152	Very fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	3.6-6

SOIL MAP ID 26

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	10
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-27	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4.23-14	6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-27	Silt loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	6-7.3
2	27-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	6-6.8
3	51-76	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	4.5-6
4	76-102	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.2-0.75	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	102-150	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-6
6	150-208	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-6

SOIL MAP ID 27

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	56-76	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5
7	112-135	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 28

USDA Soil Name	Urban land,Miscellaneous area
USDA Soil Texture	Not Reported
Hydrologic Soil Group	Not Reported
Soil Drainage Class	Not Reported
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Not Reported

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15		Granular materials (35% or less passing No. 200 sieve), silty or clayey gravel and sand. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Gravels, clean gravels, Poorly Graded Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	No data	No data

SOIL MAP ID 29

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Poorly drained
Hydric Classification	95
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	23-43	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	43-99	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4.23	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	99-208	Loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	4.5-5.5

SOIL MAP ID 30

USDA Soil Name	Urban land,Miscellaneous area
USDA Soil Texture	Not Reported
Hydrologic Soil Group	Not Reported
Soil Drainage Class	Not Reported
Hydric Classification	30
Corrosion Potential - Uncoated Steel	Not Reported

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15		Granular materials (35% or less passing No. 200 sieve), silty or clayey gravel and sand. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Gravels, clean gravels, Poorly Graded Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	No data	No data

SOIL MAP ID 31

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 32

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	56-76	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5
7	112-135	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 33

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
6	76-112	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5
7	112-135	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 34

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 35

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	2
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4.23-14.11	4.2-6.6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-6.6
2	20-58	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-6
3	58-152	Very fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	3.6-6

SOIL MAP ID 36

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	2
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-6.6
2	20-58	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-6
3	58-152	Very fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	3.6-6

SOIL MAP ID 37

USDA Soil Name	Baile,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Poorly drained
Hydric Classification	85
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-25	Silt loam	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is 50% or more), Elastic Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	4.1-6.6
2	25-102	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.1-5.5
3	102-152	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4.23	4.1-5.5

SOIL MAP ID 38

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Poorly drained
Hydric Classification	95
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	23-43	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	43-99	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.42-4.23	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	43-99	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0.42-4.23	4.5-6
4	99-208	Loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	4.5-5.5

SOIL MAP ID 39

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	2
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4.23-14.11	4.2-6.6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-6.6
2	20-58	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-6
3	58-152	Very fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	3.6-6

SOIL MAP ID 40

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-6.6
2	9-47	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-6
3	47-152	Very fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	3.6-6

SOIL MAP ID 41

USDA Soil Name	Urban land,Miscellaneous area
USDA Soil Texture	Not Reported
Hydrologic Soil Group	Not Reported
Soil Drainage Class	Not Reported
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Not Reported

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15		Granular materials (35% or less passing No. 200 sieve), silty or clayey gravel and sand. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Gravels, clean gravels, Poorly Graded Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	No data	No data

SOIL MAP ID 42

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	2
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials,	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and	4.23-14.11	4.2-6.6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Loam	1984.	the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-6.6
2	20-58	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-6
3	58-152	Very fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	3.6-6

SOIL MAP ID 43

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 44

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 45

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4-14	5.5-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.5-7.3
2	20-76	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-14	4.5-6
3	76-102	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4	4.5-5.5
4	102-178	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM,	1.4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	102-178	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	1984).	1.4-14	4.5-5.5

SOIL MAP ID 46

USDA Soil Name	Urban land,Miscellaneous area
USDA Soil Texture	Not Reported
Hydrologic Soil Group	Not Reported
Soil Drainage Class	Not Reported
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Not Reported

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15		Granular materials (35% or less passing No. 200 sieve), silty or clayey gravel and sand. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Gravels, clean gravels, Poorly Graded Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	No data	No data

SOIL MAP ID 47

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 48

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	56-76	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5
7	112-135	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 49

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	11
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	23-48	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	48-99	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a	0.42-4.23	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	48-99	Silt loam	a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4.23	4.5-6
4	99-208	Loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	4.5-5.5

SOIL MAP ID 50

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	56-76	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5
7	112-135	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 51

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	15-33	Fine sandy loam	construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 52

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 53

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 54

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	56-76	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5
7	112-135	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 55

USDA Soil Name	Urban land,Miscellaneous area
USDA Soil Texture	Not Reported
Hydrologic Soil Group	Not Reported
Soil Drainage Class	Not Reported
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Not Reported

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15		Granular materials (35% or less passing No. 200 sieve), silty or clayey gravel and sand. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Gravels, clean gravels, Poorly Graded Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	No data	No data

SOIL MAP ID 56

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-6.6
2	9-47	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-6
3	47-152	Very fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	3.6-6

SOIL MAP ID 57

USDA Soil Name	Baile,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Poorly drained
Hydric Classification	85
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-25	Silt loam	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is 50% or more), Elastic Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	4.1-6.6
2	25-102	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.1-5.5
3	102-152	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4.23	4.1-5.5

SOIL MAP ID 58

USDA Soil Name	Comus,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	8
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-30	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
2	30-99	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	99-152	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-42.34	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	99-152	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-42.34	4.5-6

SOIL MAP ID 59

USDA Soil Name	Glenelg,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.8-7.2
2	20-46	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	4.2-7.7

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	20-46	Clay loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-7.7
3	46-76	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.4-7.2
4	76-107	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.3-7
5	107-137	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.3-7

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
6	137-193	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-42	4.3-7

SOIL MAP ID 60

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	2
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-6.6
2	20-58	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent	4.23-14.11	3.6-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	20-58	Loam	M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-6
3	58-152	Very fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	3.6-6

SOIL MAP ID 61

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM,	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 62

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	2
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4.23-14.11	4.2-6.6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-6.6
2	20-58	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-6
3	58-152	Very fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	3.6-6

SOIL MAP ID 63

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 64

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 65

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-6.6
2	9-47	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-6
3	47-152	Very fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	3.6-6

SOIL MAP ID 66

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	2
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-6.6
2	20-58	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	58-152	Very fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	3.6-6

SOIL MAP ID 67

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	56-76	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5
7	112-135	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 68

USDA Soil Name	Urban land,Miscellaneous area
USDA Soil Texture	Not Reported
Hydrologic Soil Group	Not Reported
Soil Drainage Class	Not Reported
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Not Reported

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15		Granular materials (35% or less passing No. 200 sieve), silty or clayey gravel and sand. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Gravels, clean gravels, Poorly Graded Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	No data	No data

SOIL MAP ID 69

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 70

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 71

USDA Soil Name	Glenelg,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.8-7.2
2	20-46	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of	4.23-14.11	4.2-7.7

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	20-46	Clay loam	material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-7.7
3	46-76	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.4-7.2
4	76-107	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.3-7
5	107-137	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4-14	4.3-7

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	107-137	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4-14	4.3-7
6	137-193	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-42	4.3-7

SOIL MAP ID 72

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 73

USDA Soil Name	Urban land,Miscellaneous area
USDA Soil Texture	Not Reported
Hydrologic Soil Group	Not Reported
Soil Drainage Class	Not Reported
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Not Reported

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15		Granular materials (35% or less passing No. 200 sieve), silty or clayey gravel and sand. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Gravels, clean gravels, Poorly Graded Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	No data	No data

SOIL MAP ID 74

USDA Soil Name	Glenelg,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.8-7.2
2	20-46	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-7.7
3	46-76	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	4.4-7.2

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	46-76	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	4.4-7.2
4	76-107	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.3-7
5	107-137	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.3-7

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
6	137-193	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-42	4.3-7

SOIL MAP ID 75

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	10
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-27	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	6-7.3
2	27-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent	4.23-14	6-6.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	27-51	Silt loam	M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	6-6.8
3	51-76	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	4.5-6
4	76-102	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.2-0.75	4.5-6
5	102-150	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
6	150-208	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-6

SOIL MAP ID 76

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	11
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	23-48	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction	4.23-14.11	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	23-48	Silt loam	construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	48-99	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4.23	4.5-6
4	99-208	Loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	4.5-5.5

SOIL MAP ID 77

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	2
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-6.6
2	20-58	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-6
3	58-152	Very fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	3.6-6

SOIL MAP ID 78

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 79

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.5-7.3
2	20-76	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-14	4.5-6
3	76-102	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4	4.5-5.5
4	102-178	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	1.4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	102-178	Loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-14	4.5-5.5

SOIL MAP ID 80

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	11
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	23-48	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	4.23-14.11	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	23-48	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	48-99	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4.23	4.5-6
4	99-208	Loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	4.5-5.5

SOIL MAP ID 81

USDA Soil Name	Glenelg,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.8-7.2
2	20-46	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-7.7
3	46-76	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	4.4-7.2

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	46-76	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	4.4-7.2
4	76-107	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.3-7
5	107-137	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.3-7

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
6	137-193	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-42	4.3-7

SOIL MAP ID 82

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Poorly drained
Hydric Classification	95
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	23-43	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent	4.23-14.11	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	23-43	Silt loam	M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	43-99	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4.23	4.5-6
4	99-208	Loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	4.5-5.5

SOIL MAP ID 83

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 84

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-6.6
2	9-47	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-6
3	47-152	Very fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	3.6-6

SOIL MAP ID 85

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 86

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	56-76	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5
7	112-135	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 87

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	15-33	Fine sandy loam	construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 88

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 89

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 90

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	2
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4.23-14.11	4.2-6.6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-6.6
2	20-58	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-6
3	58-152	Very fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	3.6-6

SOIL MAP ID 91

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	10
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-27	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	6-7.3
2	27-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	6-6.8
3	51-76	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	4.5-6
4	76-102	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	0.2-0.75	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	76-102	Silt loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.2-0.75	4.5-6
5	102-150	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-6
6	150-208	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-6

SOIL MAP ID 92

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 93

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.5-7.3
2	20-76	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-14	4.5-6
3	76-102	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4	4.5-5.5
4	102-178	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	1.4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	102-178	Loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-14	4.5-5.5

SOIL MAP ID 94

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	10
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-27	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	6-7.3
2	27-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	4.23-14	6-6.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	27-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	6-6.8
3	51-76	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	4.5-6
4	76-102	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.2-0.75	4.5-6
5	102-150	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	14-42	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	102-150	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-6
6	150-208	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-6

SOIL MAP ID 95

USDA Soil Name	Urban land,Miscellaneous area
USDA Soil Texture	Not Reported
Hydrologic Soil Group	Not Reported
Soil Drainage Class	Not Reported
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Not Reported

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15		Granular materials (35% or less passing No. 200 sieve), silty or clayey gravel and sand. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	COARSE-GRAINED SOILS, Gravels, clean gravels, Poorly Graded Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	No data	No data

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15		of State Highway and Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	No data	No data

SOIL MAP ID 96

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	56-76	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5
7	112-135	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 97

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	10
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-27	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	6-7.3
2	27-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	6-6.8
3	51-76	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference:	4.23-14	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	51-76	Silt loam	a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	4.5-6
4	76-102	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.2-0.75	4.5-6
5	102-150	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-6
6	150-208	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	14-42	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
6	150-208	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-6

SOIL MAP ID 98

USDA Soil Name	Baile,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Poorly drained
Hydric Classification	85
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-25	Silt loam	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is 50% or more), Elastic Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	4.1-6.6
2	25-102	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	0.42-1.41	4.1-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	25-102	Silt loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.1-5.5
3	102-152	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4.23	4.1-5.5

SOIL MAP ID 99

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	11
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	23-48	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	48-99	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4.23	4.5-6
4	99-208	Loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	4.5-5.5

SOIL MAP ID 100

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-25	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	25-41	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	41-76	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.42-4.23	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	41-76	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0.42-4.23	4.5-6
4	76-127	Silty clay loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4.23	4.5-6
5	127-178	Loam	Granular materials (35% or less passing No. 200), silty or clayey gravel and sand. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	4.5-5.5

SOIL MAP ID 101

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 102

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-6.6
2	9-47	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-6
3	47-152	Very fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	3.6-6

SOIL MAP ID 103

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 104

USDA Soil Name	Water,Miscellaneous area
USDA Soil Texture	Not Reported
Hydrologic Soil Group	Not Reported
Soil Drainage Class	Not Reported
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Not Reported

SOIL MAP ID 105

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	2
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-6.6
2	20-58	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	58-152	Very fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	3.6-6

SOIL MAP ID 106

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 107

USDA Soil Name	Chester,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-25	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-25	4-6.6
2	25-43	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of	4-14	4.2-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	25-43	Silt loam	material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.2-5.5
3	43-56	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
4	56-76	Clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	76-97	Clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	76-97	Clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4-14	4.5-5.5
6	97-142	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-20	4.5-5.5
7	142-234	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-75	4.5-5.5

SOIL MAP ID 108

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 109

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	2
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4.23-14.11	4.2-6.6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-6.6
2	20-58	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-6
3	58-152	Very fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	3.6-6

SOIL MAP ID 110

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 111

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	10
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-27	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4.23-14	6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-27	Silt loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	6-7.3
2	27-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	6-6.8
3	51-76	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	4.5-6
4	76-102	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM,	0.2-0.75	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	76-102	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	1984).	0.2-0.75	4.5-6
5	102-150	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-6
6	150-208	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-6

SOIL MAP ID 112

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 113

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 114

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	56-76	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5
7	112-135	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 115

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-6.6
2	9-47	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	47-152	Very fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	3.6-6

SOIL MAP ID 116

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 117

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 118

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 119

USDA Soil Name	Urban land,Miscellaneous area
USDA Soil Texture	Not Reported
Hydrologic Soil Group	Not Reported
Soil Drainage Class	Not Reported
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Not Reported

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15		Granular materials (35% or less passing No. 200 sieve), silty or clayey gravel and sand. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Gravels, clean gravels, Poorly Graded Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	No data	No data

SOIL MAP ID 120

USDA Soil Name	Urban land,Miscellaneous area
USDA Soil Texture	Not Reported
Hydrologic Soil Group	Not Reported
Soil Drainage Class	Not Reported
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Not Reported

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15		Granular materials (35% or less passing No. 200 sieve), silty or clayey gravel and sand. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Gravels, clean gravels, Poorly Graded Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	No data	No data

SOIL MAP ID 121

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials,	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	1984.	the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	56-76	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5
7	112-135	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 122

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
6	76-112	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5
7	112-135	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 123

USDA Soil Name	Baile,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Poorly drained
Hydric Classification	85
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-25	Silt loam	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is 50% or more), Elastic Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	4.1-6.6
2	25-102	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.1-5.5
3	102-152	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4.23	4.1-5.5

SOIL MAP ID 124

USDA Soil Name	Urban land,Miscellaneous area
USDA Soil Texture	Not Reported
Hydrologic Soil Group	Not Reported
Soil Drainage Class	Not Reported
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Not Reported

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15		Granular materials (35% or less passing No. 200 sieve), silty or clayey gravel and sand. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Gravels, clean gravels, Poorly Graded Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	No data	No data

SOIL MAP ID 125

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials,	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	1984.	the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 126

USDA Soil Name	Baile,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Poorly drained
Hydric Classification	85
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-25	Silt loam	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is 50% or more), Elastic Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	4.1-6.6
2	25-102	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of	0.42-1.41	4.1-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	25-102	Silt loam	material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.1-5.5
3	102-152	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4.23	4.1-5.5

SOIL MAP ID 127

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 128

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	2
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4.23-14.11	4.2-6.6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-6.6
2	20-58	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-6
3	58-152	Very fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	3.6-6

SOIL MAP ID 129

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 130

USDA Soil Name	Urban land,Miscellaneous area
USDA Soil Texture	Not Reported
Hydrologic Soil Group	Not Reported
Soil Drainage Class	Not Reported
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Not Reported

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15		Granular materials (35% or less passing No. 200 sieve), silty or clayey gravel and sand. Reference: This is a classification of soil material for highway and airfield construction (Procedure	COARSE-GRAINED SOILS, Gravels, clean gravels, Poorly Graded Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	No data	No data

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15		M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	No data	No data

SOIL MAP ID 131

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	11
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	23-48	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	23-48	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	48-99	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4.23	4.5-6
4	99-208	Loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	4.5-5.5

SOIL MAP ID 132

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.5-7.3
2	20-76	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-14	4.5-6
3	76-102	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.42-4	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	76-102	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0.42-4	4.5-5.5
4	102-178	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-14	4.5-5.5

SOIL MAP ID 133

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	2
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	4.2-6.6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-6.6
2	20-58	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-6
3	58-152	Very fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	3.6-6

SOIL MAP ID 134

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 135

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 136

USDA Soil Name	Glenelg,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4.23-14.11	3.8-7.2

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.8-7.2
2	20-46	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-7.7
3	46-76	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.4-7.2
4	76-107	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM,	4-14	4.3-7

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	76-107	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	1984).	4-14	4.3-7
5	107-137	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.3-7
6	137-193	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-42	4.3-7

SOIL MAP ID 137

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.5-7.3
2	20-76	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-14	4.5-6
3	76-102	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.42-4	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	76-102	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0.42-4	4.5-5.5
4	102-178	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-14	4.5-5.5

SOIL MAP ID 138

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	2
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	4.2-6.6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-6.6
2	20-58	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-6
3	58-152	Very fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	3.6-6

SOIL MAP ID 139

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	10
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-27	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	6-7.3
2	27-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	6-6.8
3	51-76	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	4.5-6
4	76-102	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	0.2-0.75	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	76-102	Silt loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.2-0.75	4.5-6
5	102-150	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-6
6	150-208	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-6

SOIL MAP ID 140

USDA Soil Name	Chester,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-25	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-25	4-6.6
2	25-43	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.2-5.5
3	43-56	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
4	56-76	Clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	56-76	Clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	76-97	Clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
6	97-142	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-20	4.5-5.5
7	142-234	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM,	14-75	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	142-234	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	1984).	14-75	4.5-5.5

SOIL MAP ID 141

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 142

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 143

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	11
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	23-48	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil	4.23-14.11	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	23-48	Silt loam	material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	48-99	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4.23	4.5-6
4	99-208	Loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	4.5-5.5

SOIL MAP ID 144

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 145

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	10
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-27	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4.23-14	6-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-27	Silt loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	6-7.3
2	27-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	6-6.8
3	51-76	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	4.5-6
4	76-102	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM,	0.2-0.75	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	76-102	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	1984).	0.2-0.75	4.5-6
5	102-150	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-6
6	150-208	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-6

SOIL MAP ID 146

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	2
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-6.6
2	20-58	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	58-152	Very fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	3.6-6

SOIL MAP ID 147

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	56-76	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5
7	112-135	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 148

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.5-7.3
2	20-76	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-14	4.5-6
3	76-102	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference:	0.42-4	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	76-102	Loam	a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4	4.5-5.5
4	102-178	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-14	4.5-5.5

SOIL MAP ID 149

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials,	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	1984.	the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 150

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	2
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-6.6
2	20-58	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil	4.23-14.11	3.6-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	20-58	Loam	material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-6
3	58-152	Very fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	3.6-6

SOIL MAP ID 151

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM,	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 152

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.5-7.3
2	20-76	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-14	4.5-6
3	76-102	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4	4.5-5.5
4	102-178	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	1.4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	102-178	Loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-14	4.5-5.5

SOIL MAP ID 153

USDA Soil Name	Urban land,Miscellaneous area
USDA Soil Texture	Not Reported
Hydrologic Soil Group	Not Reported
Soil Drainage Class	Not Reported
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Not Reported

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15		Granular materials (35% or less passing No. 200 sieve), silty or clayey gravel and sand. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Gravels, clean gravels, Poorly Graded Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	No data	No data

SOIL MAP ID 154

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 155

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	10
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-27	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	6-7.3
2	27-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	6-6.8
3	51-76	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	4.5-6
4	76-102	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	0.2-0.75	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	76-102	Silt loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.2-0.75	4.5-6
5	102-150	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-6
6	150-208	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-6

SOIL MAP ID 156

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 157

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Poorly drained
Hydric Classification	95
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	23-43	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	43-99	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4.23	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	99-208	Loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	4.5-5.5

SOIL MAP ID 158

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Poorly drained
Hydric Classification	95
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	23-43	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent	4.23-14.11	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	23-43	Silt loam	M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	43-99	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4.23	4.5-6
4	99-208	Loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	4.5-5.5

SOIL MAP ID 159

USDA Soil Name	Glenelg,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.8-7.2
2	20-46	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-7.7
3	46-76	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.4-7.2
4	76-107	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4-14	4.3-7

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	76-107	Loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.3-7
5	107-137	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.3-7
6	137-193	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-42	4.3-7

SOIL MAP ID 160

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	10
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-27	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	6-7.3
2	27-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	6-6.8
3	51-76	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	4.5-6
4	76-102	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	0.2-0.75	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	76-102	Silt loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.2-0.75	4.5-6
5	102-150	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-6
6	150-208	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-6

SOIL MAP ID 161

USDA Soil Name	Baile,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Poorly drained
Hydric Classification	85
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-25	Silt loam	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is 50% or more), Elastic Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	4.1-6.6
2	25-102	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.1-5.5
3	102-152	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4.23	4.1-5.5

SOIL MAP ID 162

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 163

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	2
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-6.6
2	20-58	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-6
3	58-152	Very fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	3.6-6

SOIL MAP ID 164

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 165

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	56-76	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5
7	112-135	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 166

USDA Soil Name	Glenelg,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.8-7.2
2	20-46	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-7.7
3	46-76	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference:	4.23-14.11	4.4-7.2

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	46-76	Clay loam	a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.4-7.2
4	76-107	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.3-7
5	107-137	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.3-7

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
6	137-193	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-42	4.3-7

SOIL MAP ID 167

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 168

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 169

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	5
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	23-48	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil	4.23-14.11	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	23-48	Silt loam	material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	48-99	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4.23	4.5-6
4	99-208	Loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	4.5-5.5

SOIL MAP ID 170

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	2
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-6.6
2	20-58	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-6
3	58-152	Very fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	3.6-6

SOIL MAP ID 171

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-6.6
2	9-47	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	47-152	Very fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	3.6-6

SOIL MAP ID 172

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	10
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-27	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	6-7.3
2	27-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent	4.23-14	6-6.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	27-51	Silt loam	M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	6-6.8
3	51-76	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	4.5-6
4	76-102	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.2-0.75	4.5-6
5	102-150	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
6	150-208	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-6

SOIL MAP ID 173

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	56-76	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5
7	112-135	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 174

USDA Soil Name	Baile,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Poorly drained
Hydric Classification	85
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-25	Silt loam	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is 50% or more), Elastic Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	4.1-6.6
2	25-102	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.1-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	102-152	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4.23	4.1-5.5

SOIL MAP ID 175

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-6.6
2	9-47	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4.23-14.11	3.6-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	9-47	Loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-6
3	47-152	Very fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	3.6-6

SOIL MAP ID 176

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 177

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 178

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	11
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	23-48	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	48-99	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4.23	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	99-208	Loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	4.5-5.5

SOIL MAP ID 179

USDA Soil Name	Urban land,Miscellaneous area
USDA Soil Texture	Not Reported
Hydrologic Soil Group	Not Reported
Soil Drainage Class	Not Reported
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Not Reported

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15		Granular materials (35% or less passing No. 200 sieve), silty or clayey gravel and sand. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Gravels, clean gravels, Poorly Graded Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	No data	No data

SOIL MAP ID 180

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Poorly drained
Hydric Classification	95
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	23-43	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	43-99	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.42-4.23	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	43-99	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0.42-4.23	4.5-6
4	99-208	Loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	4.5-5.5

SOIL MAP ID 181

USDA Soil Name	Baile,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Poorly drained
Hydric Classification	85
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-25	Silt loam	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays, (liquid limit is 50% or more), Elastic Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	1.41-4.23	4.1-6.6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-25	Silt loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	4.1-6.6
2	25-102	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.1-5.5
3	102-152	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4.23	4.1-5.5

SOIL MAP ID 182

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.5-7.3
2	20-76	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-14	4.5-6
3	76-102	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4	4.5-5.5
4	102-178	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	1.4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	102-178	Loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-14	4.5-5.5

SOIL MAP ID 183

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-6.6
2	9-47	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	4.23-14.11	3.6-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	9-47	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-6
3	47-152	Very fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	3.6-6

SOIL MAP ID 184

USDA Soil Name	Urban land,Miscellaneous area
USDA Soil Texture	Not Reported
Hydrologic Soil Group	Not Reported
Soil Drainage Class	Not Reported
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Not Reported

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15		Granular materials (35% or less passing No. 200 sieve), silty or clayey gravel and sand. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	COARSE-GRAINED SOILS, Gravels, clean gravels, Poorly Graded Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	No data	No data

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15		of State Highway and Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	No data	No data

SOIL MAP ID 185

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	10
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-27	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	6-7.3
2	27-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	4.23-14	6-6.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	27-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	6-6.8
3	51-76	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	4.5-6
4	76-102	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.2-0.75	4.5-6
5	102-150	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	14-42	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	102-150	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-6
6	150-208	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-6

SOIL MAP ID 186

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	56-76	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5
7	112-135	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 187

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
6	76-112	Coarse sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5
7	112-135	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 188

USDA Soil Name	Baile,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Poorly drained
Hydric Classification	85
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-25	Silt loam	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is 50% or more), Elastic Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	4.1-6.6
2	25-102	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.1-5.5
3	102-152	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4.23	4.1-5.5

SOIL MAP ID 189

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	10
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-27	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	6-7.3
2	27-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	6-6.8
3	51-76	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	51-76	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14	4.5-6
4	76-102	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.2-0.75	4.5-6
5	102-150	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-6
6	150-208	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	14-42	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
6	150-208	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-6

SOIL MAP ID 190

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 191

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	2
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-6.6
2	20-58	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil	4.23-14.11	3.6-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	20-58	Loam	material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-6
3	58-152	Very fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	3.6-6

SOIL MAP ID 192

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	11
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	4.23-14.11	4.5-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	23-48	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	48-99	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4.23	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	99-208	Loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	4.5-5.5

SOIL MAP ID 193

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-6.6
2	9-47	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent	4.23-14.11	3.6-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	9-47	Loam	M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-6
3	47-152	Very fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	3.6-6

SOIL MAP ID 194

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	2
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM,	4.23-14.11	4.2-6.6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	1984).	4.23-14.11	4.2-6.6
2	20-58	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-6
3	58-152	Very fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	3.6-6

SOIL MAP ID 195

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.5-7.3
2	20-76	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-14	4.5-6
3	76-102	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.42-4	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	76-102	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0.42-4	4.5-5.5
4	102-178	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-14	4.5-5.5

SOIL MAP ID 196

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 197

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 198

USDA Soil Name	Comus,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	8
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-30	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
2	30-99	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil	4.23-14.11	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	30-99	Silt loam	material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	99-152	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	4.5-6

SOIL MAP ID 199

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	4.23-14.11	4.2-6.6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-6.6
2	9-47	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-6
3	47-152	Very fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	3.6-6

SOIL MAP ID 200

USDA Soil Name	Urban land,Miscellaneous area
USDA Soil Texture	Not Reported
Hydrologic Soil Group	Not Reported
Soil Drainage Class	Not Reported
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Not Reported

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15		Granular materials (35% or less passing No. 200 sieve), silty or clayey gravel and sand. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Gravels, clean gravels, Poorly Graded Gravel. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	No data	No data

SOIL MAP ID 201

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	2
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials,	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and	4.23-14.11	4.2-6.6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Loam	1984.	the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-6.6
2	20-58	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-6
3	58-152	Very fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	3.6-6

SOIL MAP ID 202

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	11
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	23-48	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	48-99	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4.23	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	99-208	Loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	4.5-5.5

SOIL MAP ID 203

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Poorly drained
Hydric Classification	95
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	23-43	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent	4.23-14.11	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	23-43	Silt loam	M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	43-99	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4.23	4.5-6
4	99-208	Loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	4.5-5.5

SOIL MAP ID 204

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 205

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 206

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	2
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-6.6
2	20-58	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-6
3	58-152	Very fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	3.6-6

SOIL MAP ID 207

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 208

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 209

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	5.5-7.3
2	20-76	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-14	4.5-6
3	76-102	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4	4.5-5.5
4	102-178	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	1.4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	102-178	Loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-14	4.5-5.5

SOIL MAP ID 210

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	2
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-6.6
2	20-58	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	4.23-14.11	3.6-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	20-58	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-6
3	58-152	Very fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	3.6-6

SOIL MAP ID 211

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	2
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials,	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and	4.23-14.11	4.2-6.6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Loam	1984.	the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-6.6
2	20-58	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-6
3	58-152	Very fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	3.6-6

SOIL MAP ID 212

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 213

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 214

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 215

USDA Soil Name	Glenville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	10
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-27	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	6-7.3
2	27-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	6-6.8
3	51-76	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	4.5-6
4	76-102	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	0.2-0.75	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	76-102	Silt loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.2-0.75	4.5-6
5	102-150	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-6
6	150-208	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-6

SOIL MAP ID 216

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
2	5-15	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	15-33	Fine sandy loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-56	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
5	56-76	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
6	76-112	Coarse sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
7	112-135	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
8	135-210	Loamy sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-141	3.6-5.5
9	210-275		No data	No data	0.1-0.5	No data
10	275-350		No data	No data	5-15	No data

SOIL MAP ID 217

USDA Soil Name	Manor,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.2-6.6
2	9-47	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-6
3	47-152	Very fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	3.6-6

SOIL MAP ID A

USDA Soil Name	Mt. Airy,Series
USDA Soil Texture	Loam
Hydrologic Soil Group	A
Soil Drainage Class	Well drained
Hydric Classification	7
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Loam	No data	No data	4.2343-14.1143	4.5-5.5
2	15-84	No data	No data	No data	4.2343-42.343	4.5-5.5
3	84-94		No data	No data	0.0706-0.3529	No data

WATER AGENCY DATA:

WATER AGENCY SEARCH DISTANCES:

DATABASE:	SEARCH DISTANCE (MILES):
OIL & GAS WELLS - PA	1.000
PWS	1.000
WELLS - PA	1.000

FEDERAL WATER AGENCY DATA SUMMARY:

MAP ID:	WELL ID:	LOCATION FROM SP:
No Wells Found	N/R	N/R

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

STATE/LOCAL WATER AGENCY DATA SUMMARY:

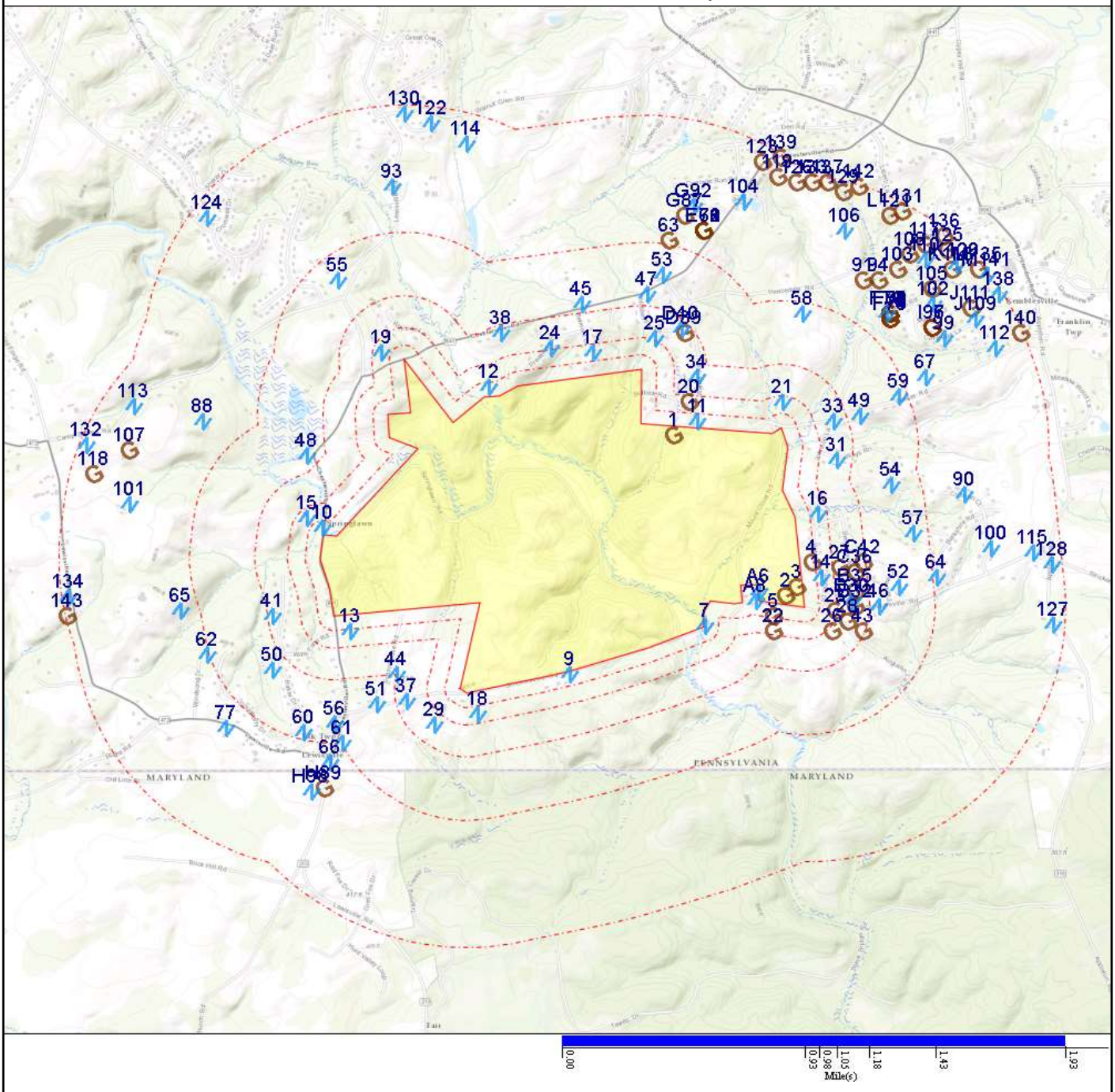
MAP ID:	WELL ID:	LOCATION FROM SP:
1	103763	< 1/8 Mile ENE
2	103632	< 1/8 Mile ESE
3	103631	< 1/8 Mile ESE
4	103626	< 1/8 Mile E
5	103633	< 1/8 Mile ESE
20	103654	< 1/8 Mile NE
22	103634	< 1/8 Mile ESE
23	103637	< 1/8 Mile ESE
26	103635	1/8 - 1/4 Mile ESE
27	103630	1/8 - 1/4 Mile E
28	103623	1/8 - 1/4 Mile ESE
B32	103625	1/8 - 1/4 Mile ESE
B35	103628	1/8 - 1/4 Mile E
C36	103629	1/8 - 1/4 Mile E
D39	103665	1/8 - 1/4 Mile NE
C42	103636	1/8 - 1/4 Mile E
43	103624	1/8 - 1/4 Mile ESE
63	103655	1/2 - 1 Mile NNE
E68	103767	1/2 - 1 Mile NNE
E69	103766	1/2 - 1 Mile NNE
E70	103768	1/2 - 1 Mile NNE

STATE/LOCAL WATER AGENCY DATA SUMMARY: ***(cont.)***

MAP ID:	WELL ID:	LOCATION FROM SP:
E71	103765	1/2 - 1 Mile NNE
E72	103764	1/2 - 1 Mile NNE
F73	103783	1/2 - 1 Mile ENE
F74	103784	1/2 - 1 Mile ENE
F75	103785	1/2 - 1 Mile ENE
F78	103778	1/2 - 1 Mile ENE
F79	103781	1/2 - 1 Mile ENE
F80	103777	1/2 - 1 Mile ENE
F81	103775	1/2 - 1 Mile ENE
F82	103774	1/2 - 1 Mile ENE
F83	103780	1/2 - 1 Mile ENE
F84	103776	1/2 - 1 Mile ENE
F85	103779	1/2 - 1 Mile ENE
F86	103782	1/2 - 1 Mile ENE
G87	103656	1/2 - 1 Mile NNE
91	103652	1/2 - 1 Mile ENE
94	103651	1/2 - 1 Mile ENE
I95	103760	1/2 - 1 Mile ENE
I96	103762	1/2 - 1 Mile ENE
I97	103761	1/2 - 1 Mile ENE
103	103650	1/2 - 1 Mile ENE
105	103649	1/2 - 1 Mile ENE
107	103571	1/2 - 1 Mile W
108	103647	1/2 - 1 Mile ENE
J111	103668	1/2 - 1 Mile ENE
K116	103648	1/2 - 1 Mile ENE
117	103645	1/2 - 1 Mile ENE
118	103577	1/2 - 1 Mile W
119	103608	1/2 - 1 Mile NE
L121	103646	1/2 - 1 Mile NE
123	103658	1/2 - 1 Mile NE
125	103639	1/2 - 1 Mile ENE
126	103607	1/2 - 1 Mile NE
129	103603	1/2 - 1 Mile NE
L131	103644	1/2 - 1 Mile NE
133	103606	1/2 - 1 Mile NE
M135	103643	1/2 - 1 Mile ENE
136	103638	1/2 - 1 Mile ENE
137	103605	1/2 - 1 Mile NE
139	103657	1/2 - 1 Mile NE
140	103666	1/2 - 1 Mile ENE
142	103602	1/2 - 1 Mile NE
143	103491	1/2 - 1 Mile W

SUBJECT NAME: Strawbridge II Property
ADDRESS: 99 Bullock Road, Landenberg, PA 19350
LAT/LONG: 39.735822 / -75.858291

PREPARED FOR: Ten Bears Environmental Associates Co
ORDER #: 13094
REPORT DATE: June 19, 2017



Map Id: 1
Direction: ENE
Distance: 0.000 mi.
Actual: 0.000 ft.
Elevation: 0.016 mi. / 86.401 ft.
Relative: Higher

Site Name : 103763
39.7409544616, -75.8502800276
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342098324
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103763
Owner :	FORD HERMAN
Yield GPM :	18
Casing Top :	0 / 55 / 6
Licensee :	R WALTER SLAUCH & SONS
Local Well Number :	X 4009
Date Drilled :	N/R
Well Depth :	97
Static Level :	22
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	24
Site Type :	WELL
Elevation :	0
Latitude :	39.7409544616
Longitude :	-75.8502800276
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST

Map Id: 2
Direction: ESE
Distance: 0.000 mi.
Actual: 0.000 ft.
Elevation: 0.014 mi. / 75.899 ft.
Relative: Higher

Site Name : 103632
39.7317845974, -75.8422199701
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342099164
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103632
Owner :	HANLEY A
Yield GPM :	7
Casing Top :	0 / 44 / 6
Licensee :	KENNETH L MADRON WELL DRILLING CO
Local Well Number :	4724N
Date Drilled :	01/01/1983
Well Depth :	290
Static Level :	40
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	39
Site Type :	WELL
Elevation :	0
Latitude :	39.7317845974
Longitude :	-75.8422199701
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST

Map Id: 3
Direction: ESE
Distance: 0.000 mi.
Actual: 0.000 ft.
Elevation: 0.015 mi. / 80.4 ft.
Relative: Higher

Site Name : 103631
39.7323345983, -75.8413900786
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342097595
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103631
Owner :	DARHUN INC
Yield GPM :	7
Casing Top :	0 / 80 / 6
Licensee :	N/R
Local Well Number :	4723N
Date Drilled :	03/01/1979
Well Depth :	240
Static Level :	40
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	65
Site Type :	WELL
Elevation :	0
Latitude :	39.7323345983
Longitude :	-75.8413900786
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST

Map Id: 4
Direction: E
Distance: 0.000 mi.
Actual: 0.000 ft.
Elevation: 0.016 mi. / 87.001 ft.
Relative: Higher

Site Name : 103626
39.7337245768, -75.8402799693
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342098170
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103626
Owner :	DARHUN INC
Yield GPM :	25
Casing Top :	0 / 150.75 / 6
Licensee :	N/R
Local Well Number :	4718N
Date Drilled :	08/01/1978
Well Depth :	198
Static Level :	33
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	130
Site Type :	WELL
Elevation :	0
Latitude :	39.7337245768
Longitude :	-75.8402799693
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST

Map Id: 5
Direction: ESE
Distance: 0.000 mi.
Actual: 0.000 ft.
Elevation: 0.015 mi. / 76.699 ft.
Relative: Higher

Site Name : 103633
39.7306746217, -75.8430600575
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342098209
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103633
Owner :	HANLEY A
Yield GPM :	3
Casing Top :	0 / 68 / 6
Licensee :	N/R
Local Well Number :	4725N
Date Drilled :	04/01/1979
Well Depth :	220
Static Level :	35
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	65
Site Type :	WELL
Elevation :	0
Latitude :	39.7306746217
Longitude :	-75.8430600575
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST

Map Id: A6
Direction: ESE
Distance: 0.000 mi.
Actual: 0.000 ft.
Elevation: 0.013 mi. / 67.999 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394355075504001
Site Name:	CH 6313
Site Type:	GW
DMS Latitude:	394355
DMS Longitude:	0755040
Decimal Latitude:	39.73205515
Decimal Longitude:	-75.84410610
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	239
Method Altitude Determined:	M

Map Id: A6
Direction: ESE
Distance: 0.000 mi.
Actual: 0.000 ft.
Elevation: 0.013 mi. / 67.999 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	20000624
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	160
Hole Depth:	N/R
Source of Depth Data:	O
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-24
Ground Water End Date:	2000-06-24
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: 7
Direction: ESE
Distance: 0.007 mi.
Actual: 35.183 ft.
Elevation: 0.01 mi. / 54.902 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	01494990
Site Name:	Big Elk Creek near Lewisville, PA
Site Type:	ST
DMS Latitude:	394348

Map Id: 7
Direction: ESE
Distance: 0.007 mi.
Actual: 35.183 ft.
Elevation: 0.01 mi. / 54.902 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

DMS Longitude:	0755054
Decimal Latitude:	39.73011070
Decimal Longitude:	-75.84799510
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	275
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	N/R
Data Types:	NNNANNNNNNNNNNNNNNNNNNNNNNNNA
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	19900426
Drainage Area:	41.0
Contributing Drainage Area:	41.0
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	N/R
Data-Other GW File:	NNNNNNNN
National Aquifer Code:	N/R
Local Aquifer Code:	N/R
Local Aquifer Type Code:	N/R
Well Depth:	N/R
Hole Depth:	N/R
Source of Depth Data:	N/R
Project Number:	444230900
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	1973-05-24
Water Quality End Date:	2016-08-23
Water Quality Count:	90
Ground Water Begin Date:	--
Ground Water End Date:	--
Ground Water Count:	0
Site Visit Begin Date:	1990-04-26
Site Visit End Date:	2017-01-30
Site Visit Count:	184
State:	PA
Classcode:	NWIS

Map Id: A8
Direction: ESE
Distance: 0.014 mi.
Actual: 75.453 ft.
Elevation: 0.014 mi. / 71.299 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394353075504101
Site Name:	CH 6314
Site Type:	GW
DMS Latitude:	394353
DMS Longitude:	0755041
Decimal Latitude:	39.73149960
Decimal Longitude:	-75.84438389
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	228
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	20000613
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	265
Hole Depth:	N/R
Source of Depth Data:	O
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-13
Ground Water End Date:	2000-06-13
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA

Map Id: A8
Direction: ESE
Distance: 0.014 mi.
Actual: 75.453 ft.
Elevation: 0.014 mi. / 71.299 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Classcode:	NWIS

Map Id: 9
Direction: S
Distance: 0.016 mi.
Actual: 85.475 ft.
Elevation: 0.021 mi. / 108.399 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394338075512901
Site Name:	CH 6315
Site Type:	GW
DMS Latitude:	394338
DMS Longitude:	0755129
Decimal Latitude:	39.72733289
Decimal Longitude:	-75.85771778
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	371
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	1988
Date Site Established:	20000624
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	N/R
Hole Depth:	N/R

Map Id: 9
Direction: S
Distance: 0.016 mi.
Actual: 85.475 ft.
Elevation: 0.021 mi. / 108.399 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Source of Depth Data:	N/R
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-24
Ground Water End Date:	2000-06-24
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: 10
Direction: W
Distance: 0.023 mi.
Actual: 123.594 ft.
Elevation: 0.042 mi. / 220.801 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	01494980
Site Name:	Big Elk Creek at Lewisville, PA
Site Type:	ST
DMS Latitude:	394408
DMS Longitude:	0755233
Decimal Latitude:	39.73566597
Decimal Longitude:	-75.87549630
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	U
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	BAYVIEW
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	N/R
Method Altitude Determined:	N/R
Altitude Accuracy:	N/R
Altitude Datum:	N/R
Hydrologic Unit Code:	N/R
Drainage Basin Code:	N/R

Map Id: 10
Direction: N
Distance: 0.023 mi.
Actual: 123.594 ft.
Elevation: 0.042 mi. / 220.801 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Topographic Setting Code:	N/R
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNI
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	19750426
Drainage Area:	31.2
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	N/R
Data-Other GW File:	NNNNNNNN
National Aquifer Code:	N/R
Local Aquifer Code:	N/R
Local Aquifer Type Code:	N/R
Well Depth:	N/R
Hole Depth:	N/R
Source of Depth Data:	N/R
Project Number:	N/R
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	--
Ground Water End Date:	--
Ground Water Count:	0
Site Visit Begin Date:	1949-07-14
Site Visit End Date:	1991-09-09
Site Visit Count:	20
State:	PA
Classcode:	NWIS

Map Id: 11
Direction: ENE
Distance: 0.025 mi.
Actual: 129.463 ft.
Elevation: 0.018 mi. / 95.098 ft.
Relative: Higher

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394430075505601
Site Name:	CH 6308
Site Type:	GW
DMS Latitude:	394430
DMS Longitude:	0755056
Decimal Latitude:	39.74177720
Decimal Longitude:	-75.84855080
Latitude-Longitude Method:	M

Map Id: 11
Direction: NW
Distance: 0.025 mi.
Actual: 129.463 ft.
Elevation: 0.018 mi. / 95.098 ft.
Relative: Higher

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	310
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	20000612
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	192
Hole Depth:	N/R
Source of Depth Data:	O
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-12
Ground Water End Date:	2000-06-12
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: 12
Direction: NW
Distance: 0.036 mi.
Actual: 188.630 ft.
Elevation: 0.013 mi. / 67.001 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394437075515001
Site Name:	CH 1792
Site Type:	GW
DMS Latitude:	394437
DMS Longitude:	0755150
Decimal Latitude:	39.74372149
Decimal Longitude:	-75.86355140
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	278
Method Altitude Determined:	M
Altitude Accuracy:	010
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	N/R
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	19660101
Date Site Established:	N/R
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YYYYNNNN
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	N/R
Local Aquifer Type Code:	N/R
Well Depth:	70.0
Hole Depth:	N/R
Source of Depth Data:	N/R
Project Number:	N/R
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	1966-10-01
Ground Water End Date:	1966-10-01
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA

Map Id: 12
Direction: NW
Distance: 0.036 mi.
Actual: 188.630 ft.
Elevation: 0.013 mi. / 67.001 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Classcode:	NWIS

Map Id: 13
Direction: WSW
Distance: 0.066 mi.
Actual: 347.613 ft.
Elevation: 0.019 mi. / 102.001 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394347075522601
Site Name:	CH 6260
Site Type:	GW
DMS Latitude:	394347
DMS Longitude:	0755226
Decimal Latitude:	39.72983274
Decimal Longitude:	-75.87355180
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	352
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	N/R
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	N/R
Hole Depth:	N/R

Map Id: 13
Direction: NW
Distance: 0.066 mi.
Actual: 347.613 ft.
Elevation: 0.019 mi. / 102.001 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Source of Depth Data:	N/R
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-07-19
Ground Water End Date:	2000-07-19
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: 14
Direction: E
Distance: 0.076 mi.
Actual: 400.357 ft.
Elevation: 0.017 mi. / 89.199 ft.
Relative: Higher

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394358075502401
Site Name:	CH 6280
Site Type:	GW
DMS Latitude:	394358
DMS Longitude:	0755024
Decimal Latitude:	39.73288850
Decimal Longitude:	-75.83966150
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	292
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R

Map Id: 14
Direction: E
Distance: 0.076 mi.
Actual: 400.357 ft.
Elevation: 0.017 mi. / 89.199 ft.
Relative: Higher

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	1987
Date Site Established:	20000624
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	150
Hole Depth:	N/R
Source of Depth Data:	O
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-24
Ground Water End Date:	2000-06-24
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: 15
Direction: W
Distance: 0.085 mi.
Actual: 450.810 ft.
Elevation: 0.045 mi. / 237.861 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394410075523701
Site Name:	CH 6261
Site Type:	GW
DMS Latitude:	394410
DMS Longitude:	0755237
Decimal Latitude:	39.73622150
Decimal Longitude:	-75.87660750
Latitude-Longitude Method:	M

Map Id: 15
Direction: N
Distance: 0.085 mi.
Actual: 450.810 ft.
Elevation: 0.045 mi. / 237.861 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	BAY VIEW
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	238
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	N/R
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	N/R
Hole Depth:	N/R
Source of Depth Data:	N/R
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-07-19
Ground Water End Date:	2000-07-19
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: 16
Direction: E
Distance: 0.087 mi.
Actual: 457.422 ft.
Elevation: 0.014 mi. / 71.401 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394411075502501
Site Name:	CH 6279
Site Type:	GW
DMS Latitude:	394411
DMS Longitude:	0755025
Decimal Latitude:	39.73649957
Decimal Longitude:	-75.83993930
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	249
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	20000629
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	140
Hole Depth:	N/R
Source of Depth Data:	O
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-29
Ground Water End Date:	2000-06-29
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA

Map Id: 16
Direction: E
Distance: 0.087 mi.
Actual: 457.422 ft.
Elevation: 0.014 mi. / 71.401 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Classcode:	NWIS

Map Id: 17
Direction: NNE
Distance: 0.087 mi.
Actual: 459.306 ft.
Elevation: 0.022 mi. / 116.699 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394444075512301
Site Name:	CH 6266
Site Type:	GW
DMS Latitude:	394444
DMS Longitude:	0755123
Decimal Latitude:	39.74566598
Decimal Longitude:	-75.85605110
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	386
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	1994
Date Site Established:	N/R
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	N/R
Hole Depth:	N/R

Map Id: 17
Direction: ENE
Distance: 0.087 mi.
Actual: 459.306 ft.
Elevation: 0.022 mi. / 116.699 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Source of Depth Data:	N/R
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-06
Ground Water End Date:	2000-06-06
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: 18
Direction: SSW
Distance: 0.090 mi.
Actual: 475.066 ft.
Elevation: 0.022 mi. / 116.001 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394330075515301
Site Name:	CH 6316
Site Type:	GW
DMS Latitude:	394330
DMS Longitude:	0755153
Decimal Latitude:	39.72511066
Decimal Longitude:	-75.86438470
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	375
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R

Map Id: 18
Direction: SW
Distance: 0.090 mi.
Actual: 475.066 ft.
Elevation: 0.022 mi. / 116.001 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	1992
Date Site Established:	20000624
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	360
Hole Depth:	N/R
Source of Depth Data:	O
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-24
Ground Water End Date:	2000-06-24
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: 19
Direction: NW
Distance: 0.092 mi.
Actual: 484.541 ft.
Elevation: 0.018 mi. / 96.699 ft.
Relative: Higher

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394444075521801
Site Name:	CH 6254
Site Type:	GW
DMS Latitude:	394444
DMS Longitude:	0755218
Decimal Latitude:	39.74566580
Decimal Longitude:	-75.87132950
Latitude-Longitude Method:	M

Map Id: 19
Direction: NW
Distance: 0.092 mi.
Actual: 484.541 ft.
Elevation: 0.018 mi. / 96.699 ft.
Relative: Higher

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	325
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	1999
Date Site Established:	N/R
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	300
Hole Depth:	N/R
Source of Depth Data:	O
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-19
Ground Water End Date:	2000-06-19
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: 20
Direction: NE
Distance: 0.099 mi.
Actual: 521.901 ft.
Elevation: 0.017 mi. / 90.4 ft.
Relative: Higher

Site Name : 103654
39.7428944999, -75.849170036
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342097388
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103654
Owner :	DIFFER W
Yield GPM :	15
Casing Top :	0 / 95 / 6
Licensee :	N/R
Local Well Number :	4746N
Date Drilled :	09/27/1983
Well Depth :	125
Static Level :	0
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	80
Site Type :	WELL
Elevation :	0
Latitude :	39.7428944999
Longitude :	-75.849170036
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST

Map Id: 21
Direction: ENE
Distance: 0.101 mi.
Actual: 531.348 ft.
Elevation: 0.016 mi. / 86.001 ft.
Relative: Higher

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394434075503401
Site Name:	CH 6307
Site Type:	GW
DMS Latitude:	394434
DMS Longitude:	0755034
Decimal Latitude:	39.74288836
Decimal Longitude:	-75.84243940
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	275
Method Altitude Determined:	M

Map Id: 21
Direction: NE
Distance: 0.101 mi.
Actual: 531.348 ft.
Elevation: 0.016 mi. / 86.001 ft.
Relative: Higher

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	1996
Date Site Established:	20000805
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	220
Hole Depth:	N/R
Source of Depth Data:	O
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-08-05
Ground Water End Date:	2000-08-05
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: 22
Direction: ESE
Distance: 0.110 mi.
Actual: 580.751 ft.
Elevation: 0.016 mi. / 86.601 ft.
Relative: Higher

Site Name : 103634
39.7298346026, -75.8430600889
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342097678
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103634
Owner :	HANLEY A
Yield GPM :	6.5
Casing Top :	0 / 47 / 6
Licensee :	N/R

Map Id: 22
Direction: ESE
Distance: 0.110 mi.
Actual: 580.751 ft.
Elevation: 0.016 mi. / 86.601 ft.
Relative: Higher

Site Name : 103634
39.7298346026, -75.8430600889
PA

Database(s) : [WELLS - PA] ***(cont.)***

Envirosite ID: 342097678
EPA ID: N/R

WELLS - PA ***(cont.)***

Local Well Number :	4726N
Date Drilled :	07/01/1980
Well Depth :	140
Static Level :	30
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	40
Site Type :	WELL
Elevation :	0
Latitude :	39.7298346026
Longitude :	-75.8430600889
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST

Map Id: 23
Direction: ESE
Distance: 0.121 mi.
Actual: 641.251 ft.
Elevation: 0.019 mi. / 97.799 ft.
Relative: Higher

Site Name : 103637
39.7309546569, -75.8386100605
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342098190
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103637
Owner :	DARHUN INC
Yield GPM :	1.33
Casing Top :	0 / 60 / 6
Licensee :	N/R
Local Well Number :	4729N
Date Drilled :	10/01/1979
Well Depth :	300
Static Level :	55
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	35
Site Type :	WELL
Elevation :	0
Latitude :	39.7309546569
Longitude :	-75.8386100605
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST

Map Id: 24
Direction: E
Distance: 0.128 mi.
Actual: 677.705 ft.
Elevation: 0.021 mi. / 112.598 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394445075513401
Site Name:	CH 6265
Site Type:	GW
DMS Latitude:	394445
DMS Longitude:	0755134
Decimal Latitude:	39.74594370
Decimal Longitude:	-75.85910678
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	370
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	1995
Date Site Established:	N/R
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	N/R
Hole Depth:	N/R
Source of Depth Data:	N/R
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-08
Ground Water End Date:	2000-06-08
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA

Map Id: 24
Direction: S
Distance: 0.128 mi.
Actual: 677.705 ft.
Elevation: 0.021 mi. / 112.598 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Classcode:	NWIS

Map Id: 25
Direction: NNE
Distance: 0.130 mi.
Actual: 689.009 ft.
Elevation: 0.021 mi. / 112.799 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394447075510701
Site Name:	CH 6268
Site Type:	GW
DMS Latitude:	394447
DMS Longitude:	0755107
Decimal Latitude:	39.74649930
Decimal Longitude:	-75.85160650
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	378
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	N/R
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	N/R
Hole Depth:	N/R

Map Id: 25
Direction: ENE
Distance: 0.130 mi.
Actual: 689.009 ft.
Elevation: 0.021 mi. / 112.799 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Source of Depth Data:	N/R
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-12
Ground Water End Date:	2000-06-12
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: 26
Direction: ESE
Distance: 0.141 mi.
Actual: 746.448 ft.
Elevation: 0.018 mi. / 93.999 ft.
Relative: Higher

Site Name : 103635
39.7298346344, -75.8388900321
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342097150
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103635
Owner :	LISHON CONST CO
Yield GPM :	2
Casing Top :	0 / 100 / 6
Licensee :	N/R
Local Well Number :	4727N
Date Drilled :	06/01/1981
Well Depth :	340
Static Level :	35
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	60
Site Type :	WELL
Elevation :	0
Latitude :	39.7298346344
Longitude :	-75.8388900321
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST

Map Id: 27
Direction: E
Distance: 0.150 mi.
Actual: 793.972 ft.
Elevation: 0.018 mi. / 95 ft.
Relative: Higher

Site Name : 103630
39.7334545885, -75.8383300691
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342098037
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103630
Owner :	DARHUN INC
Yield GPM :	100
Casing Top :	0 / 38 / 6
Licensee :	N/R
Local Well Number :	4722N
Date Drilled :	05/01/1979
Well Depth :	270
Static Level :	2
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	20
Site Type :	WELL
Elevation :	0
Latitude :	39.7334545885
Longitude :	-75.8383300691
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST

Map Id: 28
Direction: ESE
Distance: 0.174 mi.
Actual: 916.746 ft.
Elevation: 0.019 mi. / 102.001 ft.
Relative: Higher

Site Name : 103623
39.7303946635, -75.8377800351
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342097677
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103623
Owner :	DARHUN INC
Yield GPM :	4
Casing Top :	0 / 50 / 6
Licensee :	N/R
Local Well Number :	4715N
Date Drilled :	05/01/1979
Well Depth :	180
Static Level :	2
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	10
Site Type :	WELL
Elevation :	0
Latitude :	39.7303946635
Longitude :	-75.8377800351
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST

Map Id: 29
Direction: SW
Distance: 0.177 mi.
Actual: 932.576 ft.
Elevation: 0.022 mi. / 114.701 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394328075520301
Site Name:	CH 5436
Site Type:	GW
DMS Latitude:	394328
DMS Longitude:	0755203
Decimal Latitude:	39.72444444
Decimal Longitude:	-75.86750000
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD83
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	375
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	H
Data Types:	NANNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	199406
Date Site Established:	19980101
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YNYNNNNN
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCK
Local Aquifer Type Code:	U
Well Depth:	280
Hole Depth:	280
Source of Depth Data:	D
Project Number:	444227500
Realtime-Data Flag:	N/R
Peak Begin Date:	N/R
Peak End Date:	N/R
Peak Count:	N/R
Water Quality Begin Date:	N/R
Water Quality End Date:	N/R
Water Quality Count:	N/R
Ground Water Begin Date:	N/R
Ground Water End Date:	N/R
Ground Water Count:	N/R
Site Visit Begin Date:	N/R
Site Visit End Date:	N/R
Site Visit Count:	N/R
State:	PA

Map Id: 29
Direction: SW
Distance: 0.177 mi.
Actual: 932.576 ft.
Elevation: 0.022 mi. / 114.701 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Classcode:	NWIS

Map Id: B30
Direction: ESE
Distance: 0.184 mi.
Actual: 970.326 ft.
Elevation: 0.019 mi. / 97.999 ft.
Relative: Higher

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394353075501601
Site Name:	CH 6278
Site Type:	GW
DMS Latitude:	394353
DMS Longitude:	0755016
Decimal Latitude:	39.73149965
Decimal Longitude:	-75.83743910
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	328
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	1955
Date Site Established:	20000722
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	130
Hole Depth:	N/R

Map Id: B30
Direction: SSE
Distance: 0.184 mi.
Actual: 970.326 ft.
Elevation: 0.019 mi. / 97.999 ft.
Relative: Higher

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Source of Depth Data:	O
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-07-22
Ground Water End Date:	2000-07-22
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: 31
Direction: E
Distance: 0.193 mi.
Actual: 1016.798 ft.
Elevation: 0.017 mi. / 87.402 ft.
Relative: Higher

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394422075502001
Site Name:	CH 6305
Site Type:	GW
DMS Latitude:	394422
DMS Longitude:	0755020
Decimal Latitude:	39.73955510
Decimal Longitude:	-75.83855030
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	290
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R

Map Id: 31
Direction: E
Distance: 0.193 mi.
Actual: 1016.798 ft.
Elevation: 0.017 mi. / 87.402 ft.
Relative: Higher

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	20000626
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	140
Hole Depth:	N/R
Source of Depth Data:	O
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-26
Ground Water End Date:	2000-06-26
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: B32
Direction: ESE
Distance: 0.194 mi.
Actual: 1025.929 ft.
Elevation: 0.019 mi. / 101.001 ft.
Relative: Higher

Site Name : 103625
39.7312246052, -75.8372199948
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342097017
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103625
Owner :	DARHUN INC
Yield GPM :	4
Casing Top :	0 / 66 / 6
Licensee :	N/R
Local Well Number :	4717N
Date Drilled :	08/01/1979
Well Depth :	200
Static Level :	40

Map Id: B32
Direction: ESE
Distance: 0.194 mi.
Actual: 1025.929 ft.
Elevation: 0.019 mi. / 101.001 ft.
Relative: Higher

Site Name : 103625
39.7312246052, -75.8372199948
PA

Database(s) : [WELLS - PA] ***(cont.)***

Envirosite ID: 342097017
EPA ID: N/R

WELLS - PA ***(cont.)***

Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	55
Site Type :	WELL
Elevation :	0
Latitude :	39.7312246052
Longitude :	-75.8372199948
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST

Map Id: 33
Direction: ENE
Distance: 0.195 mi.
Actual: 1030.148 ft.
Elevation: 0.015 mi. / 77.598 ft.
Relative: Higher

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394430075502101
Site Name:	CH 6304
Site Type:	GW
DMS Latitude:	394430
DMS Longitude:	0755021
Decimal Latitude:	39.74177729
Decimal Longitude:	-75.83882810
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	255
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	1985
Date Site Established:	N/R

Map Id: 33
Direction: NE
Distance: 0.195 mi.
Actual: 1030.148 ft.
Elevation: 0.015 mi. / 77.598 ft.
Relative: Higher

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	150
Hole Depth:	N/R
Source of Depth Data:	O
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-26
Ground Water End Date:	2000-06-26
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: 34
Direction: NE
Distance: 0.196 mi.
Actual: 1037.443 ft.
Elevation: 0.019 mi. / 99.301 ft.
Relative: Higher

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394439075505601
Site Name:	CH 6309
Site Type:	GW
DMS Latitude:	394439
DMS Longitude:	0755056
Decimal Latitude:	39.74427717
Decimal Longitude:	-75.84855080
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42

Map Id: 34
Direction: NE
Distance: 0.196 mi.
Actual: 1037.443 ft.
Elevation: 0.019 mi. / 99.301 ft.
Relative: Higher

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	317
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	1987
Date Site Established:	20000805
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	185
Hole Depth:	N/R
Source of Depth Data:	O
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-08-05
Ground Water End Date:	2000-08-05
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: B35
Direction: E
Distance: 0.199 mi.
Actual: 1052.694 ft.
Elevation: 0.019 mi. / 97.9 ft.
Relative: Higher

Site Name : 103628
39.732064626, -75.8372200074
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342098036
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103628
Owner :	DARHUN INC
Yield GPM :	3
Casing Top :	0 / 42 / 6
Licensee :	N/R
Local Well Number :	4720N
Date Drilled :	03/01/1979
Well Depth :	220
Static Level :	40
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	20
Site Type :	WELL
Elevation :	0
Latitude :	39.732064626
Longitude :	-75.8372200074
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST

Map Id: C36
Direction: E
Distance: 0.207 mi.
Actual: 1094.095 ft.
Elevation: 0.017 mi. / 91.499 ft.
Relative: Higher

Site Name : 103629
39.7331745911, -75.8372199966
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342098181
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103629
Owner :	DARHUN INC
Yield GPM :	25
Casing Top :	0 / 80 / 6
Licensee :	N/R
Local Well Number :	4721N
Date Drilled :	03/01/1979
Well Depth :	220
Static Level :	30
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	10
Site Type :	WELL
Elevation :	0
Latitude :	39.7331745911
Longitude :	-75.8372199966
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST

Map Id: 37
Direction: SW
Distance: 0.207 mi.
Actual: 1095.303 ft.
Elevation: 0.023 mi. / 120.899 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394333075521101
Site Name:	CH 5431
Site Type:	GW
DMS Latitude:	394333
DMS Longitude:	0755210
Decimal Latitude:	39.72583330
Decimal Longitude:	-75.86944440
Latitude-Longitude Method:	D
Latitude-Longitude Accuracy:	5
Latitude-Longitude Datum:	NAD83
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	396
Method Altitude Determined:	D
Altitude Accuracy:	10
Altitude Datum:	NAVD88
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	F
Data Types:	NNNONNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	19980707
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	NYNNNNNN
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCK
Local Aquifer Type Code:	U
Well Depth:	131
Hole Depth:	131
Source of Depth Data:	S
Project Number:	444227500
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	1998-07-07
Water Quality End Date:	1998-07-07
Water Quality Count:	1
Ground Water Begin Date:	--
Ground Water End Date:	--
Ground Water Count:	0
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA

Map Id: 37
Direction: SW
Distance: 0.207 mi.
Actual: 1095.303 ft.
Elevation: 0.023 mi. / 120.899 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Classcode:	NWIS

Map Id: 38
Direction: NNW
Distance: 0.215 mi.
Actual: 1133.729 ft.
Elevation: 0.018 mi. / 92.402 ft.
Relative: Higher

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394448075514701
Site Name:	CH 6264
Site Type:	GW
DMS Latitude:	394448
DMS Longitude:	0755147
Decimal Latitude:	39.74677700
Decimal Longitude:	-75.86271800
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	302
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	1960
Date Site Established:	N/R
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	N/R
Hole Depth:	N/R

Map Id: 38
Direction: NW
Distance: 0.215 mi.
Actual: 1133.729 ft.
Elevation: 0.018 mi. / 92.402 ft.
Relative: Higher

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Source of Depth Data:	N/R
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-08
Ground Water End Date:	2000-06-08
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: D39
Direction: NE
Distance: 0.218 mi.
Actual: 1150.050 ft.
Elevation: 0.02 mi. / 107.999 ft.
Relative: Higher

Site Name : 103665
39.7467844284, -75.8494400435
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342098075
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103665
Owner :	HEINEMAN ANDREW
Yield GPM :	12
Casing Top :	0 / 48 / 6
Licensee :	N/R
Local Well Number :	4757N
Date Drilled :	05/27/1983
Well Depth :	90
Static Level :	17
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	43
Site Type :	WELL
Elevation :	0
Latitude :	39.7467844284
Longitude :	-75.8494400435
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST

Map Id: D40
Direction: SE
Distance: 0.222 mi.
Actual: 1170.854 ft.
Elevation: 0.021 mi. / 109.6 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394449075510001
Site Name:	CH 6263
Site Type:	GW
DMS Latitude:	394449
DMS Longitude:	0755100
Decimal Latitude:	39.74705490
Decimal Longitude:	-75.84966190
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	365
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	N/R
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	N/R
Hole Depth:	N/R
Source of Depth Data:	N/R
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-08
Ground Water End Date:	2000-06-08
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA

Map Id: D40
Direction: SE
Distance: 0.222 mi.
Actual: 1170.854 ft.
Elevation: 0.021 mi. / 109.6 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Classcode:	NWIS

Map Id: 41
Direction: WSW
Distance: 0.231 mi.
Actual: 1219.688 ft.
Elevation: 0.062 mi. / 326.772 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394350075524601
Site Name:	CH 6386
Site Type:	GW
DMS Latitude:	394350
DMS Longitude:	0755246
Decimal Latitude:	39.73066600
Decimal Longitude:	-75.87910759
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	BAY VIEW
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	338
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	20000628
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	N/R
Hole Depth:	N/R

Map Id: 41
Direction: NW
Distance: 0.231 mi.
Actual: 1219.688 ft.
Elevation: 0.062 mi. / 326.772 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Source of Depth Data:	N/R
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-28
Ground Water End Date:	2000-06-28
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: C42
Direction: E
Distance: 0.240 mi.
Actual: 1268.463 ft.
Elevation: 0.017 mi. / 87.799 ft.
Relative: Higher

Site Name : 103636
39.7337245961, -75.8366700722
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342096454
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103636
Owner :	DARHUN INC
Yield GPM :	3
Casing Top :	0 / 79 / 6
Licensee :	N/R
Local Well Number :	4728N
Date Drilled :	10/01/1979
Well Depth :	220
Static Level :	40
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	75
Site Type :	WELL
Elevation :	0
Latitude :	39.7337245961
Longitude :	-75.8366700722
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST

Map Id: 43
Direction: ESE
Distance: 0.243 mi.
Actual: 1281.267 ft.
Elevation: 0.019 mi. / 102.001 ft.
Relative: Higher

Site Name : 103624
39.7298346227, -75.8366700139
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342098131
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103624
Owner :	DARHUN INC
Yield GPM :	1
Casing Top :	0 / 130.5 / 6
Licensee :	N/R
Local Well Number :	4716N
Date Drilled :	07/01/1979
Well Depth :	300
Static Level :	45
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	85
Site Type :	WELL
Elevation :	0
Latitude :	39.7298346227
Longitude :	-75.8366700139
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST

Map Id: 44
Direction: SW
Distance: 0.248 mi.
Actual: 1307.639 ft.
Elevation: 0.024 mi. / 129.101 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394338075521401
Site Name:	CH 6318
Site Type:	GW
DMS Latitude:	394338
DMS Longitude:	0755214
Decimal Latitude:	39.72733280
Decimal Longitude:	-75.87021830
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	421
Method Altitude Determined:	M

Map Id: 44
Direction: SW
Distance: 0.248 mi.
Actual: 1307.639 ft.
Elevation: 0.024 mi. / 129.101 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	H
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	20000628
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	N/R
Hole Depth:	N/R
Source of Depth Data:	N/R
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-28
Ground Water End Date:	2000-06-28
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: 45
Direction: N
Distance: 0.283 mi.
Actual: 1493.765 ft.
Elevation: 0.021 mi. / 113.199 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394454075512601
Site Name:	CH 6267
Site Type:	GW
DMS Latitude:	394454

Map Id: 45
Direction: E
Distance: 0.283 mi.
Actual: 1493.765 ft.
Elevation: 0.021 mi. / 113.199 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

DMS Longitude:	0755126
Decimal Latitude:	39.74844370
Decimal Longitude:	-75.85688450
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	360
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	N/R
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	N/R
Hole Depth:	N/R
Source of Depth Data:	N/R
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-19
Ground Water End Date:	2000-06-19
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: 46
Direction: ESE
Distance: 0.286 mi.
Actual: 1511.194 ft.
Elevation: 0.019 mi. / 99.199 ft.
Relative: Higher

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394352075500901
Site Name:	CH 6277
Site Type:	GW
DMS Latitude:	394352
DMS Longitude:	0755009
Decimal Latitude:	39.73122189
Decimal Longitude:	-75.83549460
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	321
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	20000624
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	N/R
Hole Depth:	N/R
Source of Depth Data:	N/R
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-24
Ground Water End Date:	2000-06-24
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA

Map Id: 46
Direction: ESE
Distance: 0.286 mi.
Actual: 1511.194 ft.
Elevation: 0.019 mi. / 99.199 ft.
Relative: Higher

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Classcode:	NWIS

Map Id: 47
Direction: NNE
Distance: 0.293 mi.
Actual: 1547.102 ft.
Elevation: 0.023 mi. / 122.001 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394456075510901
Site Name:	CH 6269
Site Type:	GW
DMS Latitude:	394456
DMS Longitude:	0755109
Decimal Latitude:	39.74899930
Decimal Longitude:	-75.85216200
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	400
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	H
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	N/R
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	N/R
Hole Depth:	N/R

Map Id: 47
Direction: ENE
Distance: 0.293 mi.
Actual: 1547.102 ft.
Elevation: 0.023 mi. / 122.001 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Source of Depth Data:	N/R
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-09
Ground Water End Date:	2000-06-09
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: 48
Direction: WNW
Distance: 0.294 mi.
Actual: 1553.832 ft.
Elevation: 0.045 mi. / 236.549 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394423075523701
Site Name:	CH 6262
Site Type:	GW
DMS Latitude:	394423
DMS Longitude:	0755237
Decimal Latitude:	39.73983255
Decimal Longitude:	-75.87660750
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	BAY VIEW
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	243
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R

Map Id: 48
Direction: NW
Distance: 0.294 mi.
Actual: 1553.832 ft.
Elevation: 0.045 mi. / 236.549 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	1960
Date Site Established:	N/R
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	125
Hole Depth:	N/R
Source of Depth Data:	O
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-07-19
Ground Water End Date:	2000-07-19
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: 49
Direction: ENE
Distance: 0.299 mi.
Actual: 1580.821 ft.
Elevation: 0.017 mi. / 92.001 ft.
Relative: Higher

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394431075501401
Site Name:	CH 6303
Site Type:	GW
DMS Latitude:	394431
DMS Longitude:	0755014
Decimal Latitude:	39.74205508
Decimal Longitude:	-75.83688360
Latitude-Longitude Method:	M

Map Id: 49
Direction: NE
Distance: 0.299 mi.
Actual: 1580.821 ft.
Elevation: 0.017 mi. / 92.001 ft.
Relative: Higher

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	290
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	20000612
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	N/R
Hole Depth:	N/R
Source of Depth Data:	N/R
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-12
Ground Water End Date:	2000-06-12
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: 50
Direction: NW
Distance: 0.316 mi.
Actual: 1670.118 ft.
Elevation: 0.067 mi. / 356.299 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394339075524601
Site Name:	CH 6385
Site Type:	GW
DMS Latitude:	394339
DMS Longitude:	0755246
Decimal Latitude:	39.72761050
Decimal Longitude:	-75.87910759
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	BAY VIEW
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	401
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	20000628
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	N/R
Hole Depth:	N/R
Source of Depth Data:	N/R
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-28
Ground Water End Date:	2000-06-28
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA

Map Id: 50
Direction: NW
Distance: 0.316 mi.
Actual: 1670.118 ft.
Elevation: 0.067 mi. / 356.299 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Classcode:	NWIS

Map Id: 51
Direction: SW
Distance: 0.322 mi.
Actual: 1702.228 ft.
Elevation: 0.024 mi. / 124.4 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394332075521901
Site Name:	CH 6317
Site Type:	GW
DMS Latitude:	394332
DMS Longitude:	0755219
Decimal Latitude:	39.72566616
Decimal Longitude:	-75.87160730
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	408
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	1991
Date Site Established:	20000719
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	380
Hole Depth:	N/R

Map Id: 51
Direction: SW
Distance: 0.322 mi.
Actual: 1702.228 ft.
Elevation: 0.024 mi. / 124.4 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Source of Depth Data:	O
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-07-19
Ground Water End Date:	2000-07-19
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: 52
Direction: E
Distance: 0.366 mi.
Actual: 1934.015 ft.
Elevation: 0.019 mi. / 98.999 ft.
Relative: Higher

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394356075500401
Site Name:	CH 6276
Site Type:	GW
DMS Latitude:	394356
DMS Longitude:	0755004
Decimal Latitude:	39.73233300
Decimal Longitude:	-75.83410570
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	326
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R

Map Id: 52
Direction: E
Distance: 0.366 mi.
Actual: 1934.015 ft.
Elevation: 0.019 mi. / 98.999 ft.
Relative: Higher

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	20000624
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	300
Hole Depth:	N/R
Source of Depth Data:	D
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-24
Ground Water End Date:	2000-06-24
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: 53
Direction: NNE
Distance: 0.378 mi.
Actual: 1994.410 ft.
Elevation: 0.023 mi. / 123.743 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394500075510501
Site Name:	CH 6270
Site Type:	GW
DMS Latitude:	394500
DMS Longitude:	0755105
Decimal Latitude:	39.75011040
Decimal Longitude:	-75.85105090
Latitude-Longitude Method:	M

Map Id: 53
Direction: ENE
Distance: 0.378 mi.
Actual: 1994.410 ft.
Elevation: 0.023 mi. / 123.743 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	412
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	N/R
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	150
Hole Depth:	N/R
Source of Depth Data:	O
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-08
Ground Water End Date:	2000-06-08
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: 54
Direction: E
Distance: 0.388 mi.
Actual: 2048.333 ft.
Elevation: 0.018 mi. / 94.199 ft.
Relative: Higher

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394417075500601
Site Name:	CH 6306
Site Type:	GW
DMS Latitude:	394417
DMS Longitude:	0755006
Decimal Latitude:	39.73816626
Decimal Longitude:	-75.83466128
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	311
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	1986
Date Site Established:	20000626
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	N/R
Hole Depth:	N/R
Source of Depth Data:	N/R
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-26
Ground Water End Date:	2000-06-26
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA

Map Id: 54
Direction: E
Distance: 0.388 mi.
Actual: 2048.333 ft.
Elevation: 0.018 mi. / 94.199 ft.
Relative: Higher

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Classcode:	NWIS

Map Id: 55
Direction: NW
Distance: 0.400 mi.
Actual: 2111.353 ft.
Elevation: 0.019 mi. / 98.999 ft.
Relative: Higher

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394459075522901
Site Name:	CH 6146
Site Type:	GW
DMS Latitude:	394459
DMS Longitude:	0755229
Decimal Latitude:	39.74983240
Decimal Longitude:	-75.87438520
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	338
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	20000629
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	N/R
Hole Depth:	N/R

Map Id: 55
Direction: NW
Distance: 0.400 mi.
Actual: 2111.353 ft.
Elevation: 0.019 mi. / 98.999 ft.
Relative: Higher

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Source of Depth Data:	N/R
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-29
Ground Water End Date:	2000-06-29
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: 56
Direction: SW
Distance: 0.424 mi.
Actual: 2240.765 ft.
Elevation: 0.024 mi. / 128.199 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394328075523001
Site Name:	CH 1785
Site Type:	GW
DMS Latitude:	394328
DMS Longitude:	0755230
Decimal Latitude:	39.72455505
Decimal Longitude:	-75.87466290
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	428
Method Altitude Determined:	M
Altitude Accuracy:	010
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R

Map Id: 56
Direction: SW
Distance: 0.424 mi.
Actual: 2240.765 ft.
Elevation: 0.024 mi. / 128.199 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Topographic Setting Code:	H
Data Types:	N/R
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	19690101
Date Site Established:	N/R
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YYYYNNNN
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	N/R
Local Aquifer Type Code:	N/R
Well Depth:	159
Hole Depth:	N/R
Source of Depth Data:	N/R
Project Number:	N/R
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	1974-07-01
Ground Water End Date:	1974-07-01
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: 57
Direction: E
Distance: 0.447 mi.
Actual: 2358.811 ft.
Elevation: 0.018 mi. / 93.999 ft.
Relative: Higher

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394407075500001
Site Name:	CH 6274
Site Type:	GW
DMS Latitude:	394407
DMS Longitude:	0755000
Decimal Latitude:	39.73538850
Decimal Longitude:	-75.83299450
Latitude-Longitude Method:	M

Map Id: 57
Direction: E
Distance: 0.447 mi.
Actual: 2358.811 ft.
Elevation: 0.018 mi. / 93.999 ft.
Relative: Higher

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	320
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	20000622
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	N/R
Hole Depth:	N/R
Source of Depth Data:	N/R
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-22
Ground Water End Date:	2000-06-22
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: 58
Direction: NE
Distance: 0.452 mi.
Actual: 2388.973 ft.
Elevation: 0.019 mi. / 101.099 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394452075502901
Site Name:	CH 6312
Site Type:	GW
DMS Latitude:	394452
DMS Longitude:	0755029
Decimal Latitude:	39.74788830
Decimal Longitude:	-75.84105050
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	334
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	1965
Date Site Established:	20000610
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	155
Hole Depth:	N/R
Source of Depth Data:	O
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-10
Ground Water End Date:	2000-06-10
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA

Map Id: 58
Direction: NE
Distance: 0.452 mi.
Actual: 2388.973 ft.
Elevation: 0.019 mi. / 101.099 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Classcode:	NWIS

Map Id: 59
Direction: ENE
Distance: 0.464 mi.
Actual: 2450.059 ft.
Elevation: 0.02 mi. / 108.199 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394435075500401
Site Name:	CH 6302
Site Type:	GW
DMS Latitude:	394435
DMS Longitude:	0755004
Decimal Latitude:	39.74316620
Decimal Longitude:	-75.83410570
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	350
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	20000625
Date Site Established:	20000805
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	N/R
Hole Depth:	N/R

Map Id: 59
Direction: NE
Distance: 0.464 mi.
Actual: 2450.059 ft.
Elevation: 0.02 mi. / 108.199 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Source of Depth Data:	N/R
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-08-05
Ground Water End Date:	2000-08-05
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: 60
Direction: WSW
Distance: 0.477 mi.
Actual: 2517.316 ft.
Elevation: 0.078 mi. / 412.73 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394326075523801
Site Name:	CH 6384
Site Type:	GW
DMS Latitude:	394326
DMS Longitude:	0755238
Decimal Latitude:	39.72399948
Decimal Longitude:	-75.87688530
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	BAY VIEW
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	419
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R

Map Id: 60
Direction: NW
Distance: 0.477 mi.
Actual: 2517.316 ft.
Elevation: 0.078 mi. / 412.73 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	20000629
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	N/R
Hole Depth:	N/R
Source of Depth Data:	N/R
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-29
Ground Water End Date:	2000-06-29
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: 61
Direction: SW
Distance: 0.499 mi.
Actual: 2633.369 ft.
Elevation: 0.024 mi. / 128.599 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394324075522801
Site Name:	CH 6259
Site Type:	GW
DMS Latitude:	394324
DMS Longitude:	0755228
Decimal Latitude:	39.72344396
Decimal Longitude:	-75.87410740
Latitude-Longitude Method:	M

Map Id: 61
Direction: SW
Distance: 0.499 mi.
Actual: 2633.369 ft.
Elevation: 0.024 mi. / 128.599 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	425
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	N/R
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	N/R
Hole Depth:	N/R
Source of Depth Data:	N/R
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-23
Ground Water End Date:	2000-06-23
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	MD
Classcode:	NWIS

Map Id: 62
Direction: NW
Distance: 0.509 mi.
Actual: 2689.542 ft.
Elevation: 0.078 mi. / 413.386 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394342075530301
Site Name:	CH 6382
Site Type:	GW
DMS Latitude:	394342
DMS Longitude:	0755303
Decimal Latitude:	39.72844380
Decimal Longitude:	-75.88383000
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	BAY VIEW
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	420
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	H
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	1970
Date Site Established:	20000623
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	150
Hole Depth:	N/R
Source of Depth Data:	O
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-23
Ground Water End Date:	2000-06-23
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA

Map Id: 62
Direction: WSW
Distance: 0.509 mi.
Actual: 2689.542 ft.
Elevation: 0.078 mi. / 413.386 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Classcode:	NWIS

Map Id: 63
Direction: NNE
Distance: 0.515 mi.
Actual: 2719.260 ft.
Elevation: 0.071 mi. / 375 ft.
Relative: Higher

Site Name : 103655
39.7520643556, -75.850559975
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342096455
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103655
Owner :	SKINNER A
Yield GPM :	6
Casing Top :	0 / 30 / 6
Licensee :	MAYBERRY, LEONARD
Local Well Number :	4747N
Date Drilled :	11/01/1978
Well Depth :	72
Static Level :	27
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	24
Site Type :	WELL
Elevation :	0
Latitude :	39.7520643556
Longitude :	-75.850559975
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE

Map Id: 64
Direction: E
Distance: 0.517 mi.
Actual: 2731.923 ft.
Elevation: 0.019 mi. / 98.399 ft.
Relative: Higher

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394358075495401
Site Name:	CH 6275
Site Type:	GW
DMS Latitude:	394358
DMS Longitude:	0754954

Map Id: 64
Direction: E
Distance: 0.517 mi.
Actual: 2731.923 ft.
Elevation: 0.019 mi. / 98.399 ft.
Relative: Higher

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Decimal Latitude:	39.73288857
Decimal Longitude:	-75.83132778
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	320
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	20000622
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	N/R
Hole Depth:	N/R
Source of Depth Data:	N/R
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-22
Ground Water End Date:	2000-06-22
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: 65
Direction: W
Distance: 0.574 mi.
Actual: 3031.192 ft.
Elevation: 0.066 mi. / 348.753 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394351075531001
Site Name:	CH 6378
Site Type:	GW
DMS Latitude:	394351
DMS Longitude:	0755310
Decimal Latitude:	39.73094375
Decimal Longitude:	-75.88577450
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	BAY VIEW
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	415
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	N/R
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	280
Hole Depth:	N/R
Source of Depth Data:	D
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-08-05
Ground Water End Date:	2000-08-05
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA

Map Id: 65
Direction: SW
Distance: 0.574 mi.
Actual: 3031.192 ft.
Elevation: 0.066 mi. / 348.753 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Classcode:	NWIS

Map Id: 66
Direction: SW
Distance: 0.574 mi.
Actual: 3031.604 ft.
Elevation: 0.082 mi. / 430.774 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394320075523101
Site Name:	CH 1784
Site Type:	GW
DMS Latitude:	394320
DMS Longitude:	0755231
Decimal Latitude:	39.72233286
Decimal Longitude:	-75.87494070
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	BAY VIEW
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	430
Method Altitude Determined:	M
Altitude Accuracy:	20
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	H
Data Types:	N/R
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	19700210
Date Site Established:	N/R
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YYYYNNNN
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	N/R
Local Aquifer Type Code:	N/R
Well Depth:	150
Hole Depth:	N/R

Map Id: 66
Direction: SW
Distance: 0.574 mi.
Actual: 3031.604 ft.
Elevation: 0.082 mi. / 430.774 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Source of Depth Data:	N/R
Project Number:	N/R
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	1970-10
Ground Water End Date:	1970-10
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	MD
Classcode:	NWIS

Map Id: 67
Direction: ENE
Distance: 0.587 mi.
Actual: 3097.548 ft.
Elevation: 0.022 mi. / 114.301 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394439075495701
Site Name:	CH 6301
Site Type:	GW
DMS Latitude:	394439
DMS Longitude:	0754957
Decimal Latitude:	39.74427730
Decimal Longitude:	-75.83216120
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	381
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R

Map Id: 67
Direction: NNE
Distance: 0.587 mi.
Actual: 3097.548 ft.
Elevation: 0.022 mi. / 114.301 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	1980
Date Site Established:	20000613
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	100
Hole Depth:	N/R
Source of Depth Data:	O
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-13
Ground Water End Date:	2000-06-13
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: E68
Direction: NNE
Distance: 0.593 mi.
Actual: 3129.549 ft.
Elevation: 0.079 mi. / 417.999 ft.
Relative: Higher

Site Name : 103767
39.7526143721, -75.8480600139
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342097151
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103767
Owner :	CARRIAGE PRK 20
Yield GPM :	25
Casing Top :	0 / 27 / 6
Licensee :	MAYBERRY, LEONARD
Local Well Number :	X 4013
Date Drilled :	N/R
Well Depth :	73
Static Level :	23

Map Id: E68
Direction: NNE
Distance: 0.593 mi.
Actual: 3129.549 ft.
Elevation: 0.079 mi. / 417.999 ft.
Relative: Higher

Site Name : 103767
39.7526143721, -75.8480600139
PA

Database(s) : [WELLS - PA] ***(cont.)***

Envirosite ID: 342097151
EPA ID: N/R

WELLS - PA ***(cont.)***

Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	12
Site Type :	WELL
Elevation :	0
Latitude :	39.7526143721
Longitude :	-75.8480600139
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE

Map Id: E69
Direction: NNE
Distance: 0.593 mi.
Actual: 3129.549 ft.
Elevation: 0.079 mi. / 417.999 ft.
Relative: Higher

Site Name : 103766
39.7526143721, -75.8480600139
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342098093
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103766
Owner :	BROOKING ORVILE
Yield GPM :	25
Casing Top :	0 / 40 / 6
Licensee :	MAYBERRY, LEONARD
Local Well Number :	X 4012
Date Drilled :	N/R
Well Depth :	140
Static Level :	25
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	30
Site Type :	WELL
Elevation :	0
Latitude :	39.7526143721
Longitude :	-75.8480600139
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE

Map Id: E70
Direction: NNE
Distance: 0.593 mi.
Actual: 3129.549 ft.
Elevation: 0.079 mi. / 417.999 ft.
Relative: Higher

Site Name : 103768
39.7526143721, -75.8480600139
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342098095
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103768
Owner :	SKINNER ALBERT
Yield GPM :	5
Casing Top :	0 / 38 / 6
Licensee :	MAYBERRY, LEONARD
Local Well Number :	X 4014
Date Drilled :	N/R
Well Depth :	160
Static Level :	35
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	30
Site Type :	WELL
Elevation :	0
Latitude :	39.7526143721
Longitude :	-75.8480600139
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE

Map Id: E71
Direction: NNE
Distance: 0.593 mi.
Actual: 3129.549 ft.
Elevation: 0.079 mi. / 417.999 ft.
Relative: Higher

Site Name : 103765
39.7526143721, -75.8480600139
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342098341
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103765
Owner :	SKINNER AL
Yield GPM :	10
Casing Top :	0 / 20 / 6
Licensee :	MAYBERRY, LEONARD
Local Well Number :	X 4011
Date Drilled :	N/R
Well Depth :	71
Static Level :	20
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	12
Site Type :	WELL
Elevation :	0
Latitude :	39.7526143721
Longitude :	-75.8480600139
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE

Map Id: E72
Direction: ENE
Distance: 0.593 mi.
Actual: 3129.549 ft.
Elevation: 0.079 mi. / 417.999 ft.
Relative: Higher

Site Name : 103764
39.7526143721, -75.8480600139
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342211141
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103764
Owner :	HANNUM C C
Yield GPM :	10
Casing Top :	0 / 48 / 6
Licensee :	R WALTER SLAUCH & SONS
Local Well Number :	X 4010
Date Drilled :	N/R
Well Depth :	139
Static Level :	28
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	45
Site Type :	WELL
Elevation :	0
Latitude :	39.7526143721
Longitude :	-75.8480600139
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE

Map Id: F73
Direction: ENE
Distance: 0.596 mi.
Actual: 3147.891 ft.
Elevation: 0.018 mi. / 96.499 ft.
Relative: Higher

Site Name : 103783
39.7476143648, -75.8347200031
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342097170
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103783
Owner :	KIMBELOT CORP
Yield GPM :	0
Casing Top :	0 / 44 / 6
Licensee :	POWELL DRILLING & SERVICES INC
Local Well Number :	X 4029
Date Drilled :	N/R
Well Depth :	400
Static Level :	40
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	39
Site Type :	WELL
Elevation :	0
Latitude :	39.7476143648
Longitude :	-75.8347200031
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST

Map Id: F74
Direction: ENE
Distance: 0.596 mi.
Actual: 3147.891 ft.
Elevation: 0.018 mi. / 96.499 ft.
Relative: Higher

Site Name : 103784
39.7476143648, -75.8347200031
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342098388
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103784
Owner :	KIMBELOT CORP
Yield GPM :	10
Casing Top :	0 / 44 / 6
Licensee :	POWELL DRILLING & SERVICES INC
Local Well Number :	X 4030
Date Drilled :	N/R
Well Depth :	160
Static Level :	38
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	39
Site Type :	WELL
Elevation :	0
Latitude :	39.7476143648
Longitude :	-75.8347200031
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST

Map Id: F75
Direction: ENE
Distance: 0.596 mi.
Actual: 3147.891 ft.
Elevation: 0.018 mi. / 96.499 ft.
Relative: Higher

Site Name : 103785
39.7476143648, -75.8347200031
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342211143
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103785
Owner :	KIMBELOT CORP
Yield GPM :	6
Casing Top :	0 / 45 / 6
Licensee :	POWELL DRILLING & SERVICES INC
Local Well Number :	X 4031
Date Drilled :	N/R
Well Depth :	280
Static Level :	60
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	40
Site Type :	WELL
Elevation :	0
Latitude :	39.7476143648
Longitude :	-75.8347200031
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST

Map Id: F76
Direction: ENE
Distance: 0.602 mi.
Actual: 3178.291 ft.
Elevation: 0.019 mi. / 99.101 ft.
Relative: Higher

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394452075500701
Site Name:	CH 6311
Site Type:	GW
DMS Latitude:	394452
DMS Longitude:	0755007
Decimal Latitude:	39.74788837
Decimal Longitude:	-75.83493910
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	327
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	20000612
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	N/R
Hole Depth:	N/R
Source of Depth Data:	N/R
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-12
Ground Water End Date:	2000-06-12
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA

Map Id: F76
Direction: NE
Distance: 0.602 mi.
Actual: 3178.291 ft.
Elevation: 0.019 mi. / 99.101 ft.
Relative: Higher

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Classcode:	NWIS

Map Id: 77
Direction: WSW
Distance: 0.605 mi.
Actual: 3192.406 ft.
Elevation: 0.08 mi. / 421.588 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394327075525801
Site Name:	CH 6383
Site Type:	GW
DMS Latitude:	394327
DMS Longitude:	0755258
Decimal Latitude:	39.72427720
Decimal Longitude:	-75.88244100
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	BAY VIEW
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	430
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	20000623
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	N/R
Hole Depth:	N/R

Map Id: 77
Direction: WSW
Distance: 0.605 mi.
Actual: 3192.406 ft.
Elevation: 0.08 mi. / 421.588 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Source of Depth Data:	N/R
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-23
Ground Water End Date:	2000-06-23
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: F78
Direction: ENE
Distance: 0.610 mi.
Actual: 3221.659 ft.
Elevation: 0.019 mi. / 99.8 ft.
Relative: Higher

Site Name : 103778
39.7478943988, -75.834719996
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342097019
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103778
Owner :	KIMBELOT CORP
Yield GPM :	8
Casing Top :	0 / 51 / 6
Licensee :	POWELL DRILLING & SERVICES INC
Local Well Number :	X 4024
Date Drilled :	N/R
Well Depth :	200
Static Level :	40
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	46
Site Type :	WELL
Elevation :	0
Latitude :	39.7478943988
Longitude :	-75.834719996
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST

Map Id: F79
Direction: ENE
Distance: 0.610 mi.
Actual: 3221.659 ft.
Elevation: 0.019 mi. / 99.8 ft.
Relative: Higher

Site Name : 103781
39.7478943988, -75.834719996
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342097021
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103781
Owner :	KIMBELOT CORP
Yield GPM :	10
Casing Top :	0 / 79 / 6
Licensee :	POWELL DRILLING & SERVICES INC
Local Well Number :	X 4027
Date Drilled :	N/R
Well Depth :	180
Static Level :	40
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	74
Site Type :	WELL
Elevation :	0
Latitude :	39.7478943988
Longitude :	-75.834719996
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST

Map Id: F80
Direction: ENE
Distance: 0.610 mi.
Actual: 3221.659 ft.
Elevation: 0.019 mi. / 99.8 ft.
Relative: Higher

Site Name : 103777
39.7478943988, -75.834719996
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342097392
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103777
Owner :	KIMBELOT CORP
Yield GPM :	12
Casing Top :	0 / 61 / 6
Licensee :	POWELL DRILLING & SERVICES INC
Local Well Number :	X 4023
Date Drilled :	N/R
Well Depth :	300
Static Level :	70
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	56
Site Type :	WELL
Elevation :	0
Latitude :	39.7478943988
Longitude :	-75.834719996
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST

Map Id: F81
Direction: ENE
Distance: 0.610 mi.
Actual: 3221.659 ft.
Elevation: 0.019 mi. / 99.8 ft.
Relative: Higher

Site Name : 103775
39.7478943988, -75.834719996
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342097608
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103775
Owner :	KIMBELOT CORP
Yield GPM :	20
Casing Top :	0 / 43 / 6
Licensee :	POWELL DRILLING & SERVICES INC
Local Well Number :	X 4021
Date Drilled :	N/R
Well Depth :	200
Static Level :	40
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	38
Site Type :	WELL
Elevation :	0
Latitude :	39.7478943988
Longitude :	-75.834719996
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST

Map Id: F82
Direction: ENE
Distance: 0.610 mi.
Actual: 3221.659 ft.
Elevation: 0.019 mi. / 99.8 ft.
Relative: Higher

Site Name : 103774
39.7478943988, -75.834719996
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342097767
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103774
Owner :	KIMBERLOT CORP
Yield GPM :	25
Casing Top :	0 / 46 / 6
Licensee :	POWELL DRILLING & SERVICES INC
Local Well Number :	X 4020
Date Drilled :	N/R
Well Depth :	200
Static Level :	41
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	41
Site Type :	WELL
Elevation :	0
Latitude :	39.7478943988
Longitude :	-75.834719996
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST

Map Id: F83
Direction: ENE
Distance: 0.610 mi.
Actual: 3221.659 ft.
Elevation: 0.019 mi. / 99.8 ft.
Relative: Higher

Site Name : 103780
39.7478943988, -75.834719996
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342098099
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103780
Owner :	KIMBELOT CORP
Yield GPM :	10
Casing Top :	0 / 48 / 6
Licensee :	POWELL DRILLING & SERVICES INC
Local Well Number :	X 4026
Date Drilled :	N/R
Well Depth :	160
Static Level :	35
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	43
Site Type :	WELL
Elevation :	0
Latitude :	39.7478943988
Longitude :	-75.834719996
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST

Map Id: F84
Direction: ENE
Distance: 0.610 mi.
Actual: 3221.659 ft.
Elevation: 0.019 mi. / 99.8 ft.
Relative: Higher

Site Name : 103776
39.7478943988, -75.834719996
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342098299
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103776
Owner :	KIMBELOT CORP
Yield GPM :	20
Casing Top :	0 / 167 / 6
Licensee :	POWELL DRILLING & SERVICES INC
Local Well Number :	X 4022
Date Drilled :	N/R
Well Depth :	240
Static Level :	50
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	162
Site Type :	WELL
Elevation :	0
Latitude :	39.7478943988
Longitude :	-75.834719996
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST

Map Id: F85
Direction: ENE
Distance: 0.610 mi.
Actual: 3221.659 ft.
Elevation: 0.019 mi. / 99.8 ft.
Relative: Higher

Site Name : 103779
39.7478943988, -75.834719996
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342098467
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103779
Owner :	KIMBELOT CORP
Yield GPM :	30
Casing Top :	0 / 77 / 6
Licensee :	POWELL DRILLING & SERVICES INC
Local Well Number :	X 4025
Date Drilled :	N/R
Well Depth :	240
Static Level :	45
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	72
Site Type :	WELL
Elevation :	0
Latitude :	39.7478943988
Longitude :	-75.834719996
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST

Map Id: F86
Direction: ENE
Distance: 0.610 mi.
Actual: 3221.659 ft.
Elevation: 0.019 mi. / 99.8 ft.
Relative: Higher

Site Name : 103782
39.7478943988, -75.834719996
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342211142
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103782
Owner :	KIMBELOT CORP
Yield GPM :	12
Casing Top :	0 / 44 / 6
Licensee :	POWELL DRILLING & SERVICES INC
Local Well Number :	X 4028
Date Drilled :	N/R
Well Depth :	160
Static Level :	30
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	39
Site Type :	WELL
Elevation :	0
Latitude :	39.7478943988
Longitude :	-75.834719996
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST

Map Id: G87
Direction: ENE
Distance: 0.622 mi.
Actual: 3286.476 ft.
Elevation: 0.076 mi. / 398.999 ft.
Relative: Higher

Site Name : 103656
39.7534543153, -75.8494400453
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342098267
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103656
Owner :	SKINNER ALBERT D
Yield GPM :	30
Casing Top :	0 / 38 / 5
Licensee :	MAYBERRY, LEONARD
Local Well Number :	4748N
Date Drilled :	07/28/1975
Well Depth :	110
Static Level :	20
Well Finish :	N/R
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	0
Site Type :	WELL
Elevation :	0
Latitude :	39.7534543153
Longitude :	-75.8494400453
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE

Map Id: 88
Direction: WNW
Distance: 0.639 mi.
Actual: 3373.510 ft.
Elevation: 0.074 mi. / 389.764 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394430075530401
Site Name:	CH 6374
Site Type:	GW
DMS Latitude:	394430
DMS Longitude:	0755304
Decimal Latitude:	39.74177690
Decimal Longitude:	-75.88410780
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	BAY VIEW
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	382
Method Altitude Determined:	M

Map Id: 88
Direction: NW
Distance: 0.639 mi.
Actual: 3373.510 ft.
Elevation: 0.074 mi. / 389.764 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	199202
Date Site Established:	N/R
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YYYY Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	400
Hole Depth:	N/R
Source of Depth Data:	D
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-10
Ground Water End Date:	2000-06-10
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: H89
Direction: SW
Distance: 0.650 mi.
Actual: 3429.561 ft.
Elevation: 0.079 mi. / 419.291 ft.
Relative: Higher

Site Name : MID STATES OIL REFINING-ELKTON
606 LEWISVILLE ROAD
ELKTON, MD 21921

Database(s) : [INACTIVE PCS]

Envirosite ID: 346207306
EPA ID: N/R

INACTIVE PCS

Issue Date :	03/02/2006
Original Issue Date :	03/02/2006
Effective Date :	03/02/2006
Expiration Date :	05/24/2007
Retirement Date :	N/R

Map Id: H89
Direction: SW
Distance: 0.650 mi.
Actual: 3429.561 ft.
Elevation: 0.079 mi. / 419.291 ft.
Relative: Higher

Site Name : MID STATES OIL REFINING-ELKTON
606 LEWISVILLE ROAD
ELKTON, MD 21921

Database(s) : [INACTIVE PCS] ***(cont.)***

Envirosite ID: 346207306
EPA ID: N/R

INACTIVE PCS ***(cont.)***

Termination Date :	N/R
Issuing Agency :	N/R
Agency Type Code :	State
Activity ID :	20034192
External Permit Number :	MDG342513
Facility Type Indicator :	NON-POTW
Permit Type Code :	General Permit Covered Facility
Major Minor Status :	N
Permit Status Code :	Expired
Total Design Flow Number :	N/R
Actual Average Flow Number :	N/R
State Water Body :	N/R
State Water Body Name :	LITTLE ELK CREEK
Permit Name :	MID STATES OIL REFINING-ELKTON
Permit Comp Status :	Y
RNC Tracking :	Y
Master External Permit Number :	MDG340000
TMDL Interface :	N/R
EDMR Authorization :	N
Pretreatment Indicator Code :	N/R

Map Id: 90
Direction: E
Distance: 0.654 mi.
Actual: 3453.558 ft.
Elevation: 0.021 mi. / 113.399 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394415075494701
Site Name:	CH 6273
Site Type:	GW
DMS Latitude:	394415
DMS Longitude:	0754947
Decimal Latitude:	39.73761075
Decimal Longitude:	-75.82938330
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	363
Method Altitude Determined:	M
Altitude Accuracy:	5

Map Id: 90
Direction: E
Distance: 0.654 mi.
Actual: 3453.558 ft.
Elevation: 0.021 mi. / 113.399 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	20000610
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	N/R
Hole Depth:	N/R
Source of Depth Data:	N/R
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-10
Ground Water End Date:	2000-06-10
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: 91
Direction: ENE
Distance: 0.659 mi.
Actual: 3477.678 ft.
Elevation: 0.017 mi. / 88.199 ft.
Relative: Higher

Site Name : 103652
39.7498343771, -75.8366700507
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342097345
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103652
Owner :	KIMBELOT CORP
Yield GPM :	10
Casing Top :	0 / 42 / 6
Licensee :	N/R
Local Well Number :	4744N

Map Id: 91
Direction: ENE
Distance: 0.659 mi.
Actual: 3477.678 ft.
Elevation: 0.017 mi. / 88.199 ft.
Relative: Higher

Site Name : 103652
39.7498343771, -75.8366700507
PA

Database(s) : [WELLS - PA] ***(cont.)***

Envirosite ID: 342097345
EPA ID: N/R

WELLS - PA ***(cont.)***

Date Drilled :	10/06/1977
Well Depth :	240
Static Level :	35
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	37
Site Type :	WELL
Elevation :	0
Latitude :	39.7498343771
Longitude :	-75.8366700507
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE

Map Id: G92
Direction: NNE
Distance: 0.668 mi.
Actual: 3525.663 ft.
Elevation: 0.078 mi. / 412.001 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394514075505701
Site Name:	CH 6258
Site Type:	GW
DMS Latitude:	394514
DMS Longitude:	0755057
Decimal Latitude:	39.75399920
Decimal Longitude:	-75.84882870
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	WEST GROVE
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	405
Method Altitude Determined:	M
Altitude Accuracy:	5
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

Map Id: G92
Direction: ENE
Distance: 0.668 mi.
Actual: 3525.663 ft.
Elevation: 0.078 mi. / 412.001 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	1991
Date Site Established:	N/R
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	125
Hole Depth:	N/R
Source of Depth Data:	O
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-08
Ground Water End Date:	2000-06-08
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: 93
Direction: NNW
Distance: 0.676 mi.
Actual: 3571.887 ft.
Elevation: 0.052 mi. / 272.001 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394518075521501
Site Name:	CH 6252
Site Type:	GW
DMS Latitude:	394518
DMS Longitude:	0755215
Decimal Latitude:	39.75511010
Decimal Longitude:	-75.87049630
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27

Map Id: 93
Direction: NW
Distance: 0.676 mi.
Actual: 3571.887 ft.
Elevation: 0.052 mi. / 272.001 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	WEST GROVE
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	270
Method Altitude Determined:	M
Altitude Accuracy:	5
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	N/R
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	N/R
Hole Depth:	N/R
Source of Depth Data:	N/R
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-07-22
Ground Water End Date:	2000-07-22
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: 94
Direction: ENE
Distance: 0.689 mi.
Actual: 3636.258 ft.
Elevation: 0.016 mi. / 83.901 ft.
Relative: Higher

Site Name : 103651
39.7498344068, -75.8355600609
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342099165
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103651
Owner :	KIMBELOT CORP
Yield GPM :	10
Casing Top :	0 / 54 / 6
Licensee :	N/R
Local Well Number :	4743N
Date Drilled :	10/05/1977
Well Depth :	260
Static Level :	47
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	49
Site Type :	WELL
Elevation :	0
Latitude :	39.7498344068
Longitude :	-75.8355600609
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE

Map Id: I95
Direction: ENE
Distance: 0.697 mi.
Actual: 3681.753 ft.
Elevation: 0.021 mi. / 112.402 ft.
Relative: Higher

Site Name : 103760
39.7470644354, -75.8316700593
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342097779
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103760
Owner :	STRATTON HERBRT
Yield GPM :	5
Casing Top :	0 / 54 / 6
Licensee :	R WALTER SLAUCH & SONS
Local Well Number :	X 4006
Date Drilled :	N/R
Well Depth :	153
Static Level :	48
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	48
Site Type :	WELL
Elevation :	0
Latitude :	39.7470644354
Longitude :	-75.8316700593
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST

Map Id: I96
Direction: ENE
Distance: 0.697 mi.
Actual: 3681.753 ft.
Elevation: 0.021 mi. / 112.402 ft.
Relative: Higher

Site Name : 103762
39.7470644354, -75.8316700593
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342098062
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103762
Owner :	CENTURY BLDR 23
Yield GPM :	10
Casing Top :	0 / 55 / 6
Licensee :	R WALTER SLAUCH & SONS
Local Well Number :	X 4008
Date Drilled :	N/R
Well Depth :	120
Static Level :	22
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	48
Site Type :	WELL
Elevation :	0
Latitude :	39.7470644354
Longitude :	-75.8316700593
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST

Map Id: I97
Direction: ENE
Distance: 0.697 mi.
Actual: 3681.753 ft.
Elevation: 0.021 mi. / 112.402 ft.
Relative: Higher

Site Name : 103761
39.7470644354, -75.8316700593
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342099166
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103761
Owner :	CENTURY BLDR
Yield GPM :	9
Casing Top :	0 / 70 / 6
Licensee :	R WALTER SLAUCH & SONS
Local Well Number :	X 4007
Date Drilled :	N/R
Well Depth :	120
Static Level :	26
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	60
Site Type :	WELL
Elevation :	0
Latitude :	39.7470644354
Longitude :	-75.8316700593
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST

Map Id: H98
Direction: SW
Distance: 0.698 mi.
Actual: 3684.934 ft.
Elevation: 0.08 mi. / 423.556 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394314075523601
Site Name:	CE Ae 45
Site Type:	GW
DMS Latitude:	394314
DMS Longitude:	0755236
Decimal Latitude:	39.72066620
Decimal Longitude:	-75.87632968
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	24
State Code:	24
County Code:	015
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	BAY VIEW, MD-PA
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	420.00
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	19660810
Date Site Established:	N/R
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	N
Data Reliability Code:	C
Data-Other GW File:	YYYYNNNN
National Aquifer Code:	N/R
Local Aquifer Code:	300PLCG
Local Aquifer Type Code:	N/R
Well Depth:	85.0
Hole Depth:	85.0
Source of Depth Data:	N/R
Project Number:	N/R
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	1966-08-10
Ground Water End Date:	1966-08-10
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	MD

Map Id: H98
Direction: SW
Distance: 0.698 mi.
Actual: 3684.934 ft.
Elevation: 0.08 mi. / 423.556 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Classcode:	NWIS

Map Id: 99
Direction: ENE
Distance: 0.718 mi.
Actual: 3789.528 ft.
Elevation: 0.021 mi. / 110.2 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394447075495201
Site Name:	CH 6300
Site Type:	GW
DMS Latitude:	394447
DMS Longitude:	0754952
Decimal Latitude:	39.74649950
Decimal Longitude:	-75.83077230
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	362
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	20000612
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	460
Hole Depth:	N/R

Map Id: 99
Direction: NE
Distance: 0.718 mi.
Actual: 3789.528 ft.
Elevation: 0.021 mi. / 110.2 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Source of Depth Data:	O
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-12
Ground Water End Date:	2000-06-12
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: 100
Direction: E
Distance: 0.735 mi.
Actual: 3882.092 ft.
Elevation: 0.021 mi. / 110.699 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394404075494001
Site Name:	CH 6272
Site Type:	GW
DMS Latitude:	394404
DMS Longitude:	0754940
Decimal Latitude:	39.73455525
Decimal Longitude:	-75.82743870
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	359
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R

Map Id: 100
Direction: E
Distance: 0.735 mi.
Actual: 3882.092 ft.
Elevation: 0.021 mi. / 110.699 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	20000610
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	N/R
Hole Depth:	N/R
Source of Depth Data:	N/R
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-10
Ground Water End Date:	2000-06-10
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: 101
Direction: W
Distance: 0.749 mi.
Actual: 3955.580 ft.
Elevation: 0.076 mi. / 400.919 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394413075532301
Site Name:	CH 6376
Site Type:	GW
DMS Latitude:	394413
DMS Longitude:	0755323
Decimal Latitude:	39.73705470
Decimal Longitude:	-75.88938580
Latitude-Longitude Method:	M

Map Id: 101
Direction: NW
Distance: 0.749 mi.
Actual: 3955.580 ft.
Elevation: 0.076 mi. / 400.919 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	BAY VIEW
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	403
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	H
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	N/R
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	N/R
Hole Depth:	N/R
Source of Depth Data:	N/R
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-08-05
Ground Water End Date:	2000-08-05
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: 102
Direction: NE
Distance: 0.757 mi.
Actual: 3997.614 ft.
Elevation: 0.021 mi. / 110 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394454075495501
Site Name:	CH 6310
Site Type:	GW
DMS Latitude:	394454
DMS Longitude:	0754955
Decimal Latitude:	39.74844395
Decimal Longitude:	-75.83160560
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	348
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	20000610
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	125
Hole Depth:	N/R
Source of Depth Data:	O
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-10
Ground Water End Date:	2000-06-10
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA

Map Id: 102
Direction: ENE
Distance: 0.757 mi.
Actual: 3997.614 ft.
Elevation: 0.021 mi. / 110 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Classcode:	NWIS

Map Id: 103
Direction: ENE
Distance: 0.762 mi.
Actual: 4024.918 ft.
Elevation: 0.057 mi. / 300 ft.
Relative: Higher

Site Name : 103650
39.7503943596, -75.8341700788
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342098253
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103650
Owner :	KIMBELOT CORP
Yield GPM :	10
Casing Top :	0 / 50 / 6
Licensee :	N/R
Local Well Number :	4742N
Date Drilled :	10/05/1977
Well Depth :	220
Static Level :	35
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	45
Site Type :	WELL
Elevation :	0
Latitude :	39.7503943596
Longitude :	-75.8341700788
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE

Map Id: 104
Direction: NE
Distance: 0.765 mi.
Actual: 4036.903 ft.
Elevation: 0.075 mi. / 397.001 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394515075504401
Site Name:	CH 6257
Site Type:	GW
DMS Latitude:	394515
DMS Longitude:	0755044

Map Id: 104
Direction: NE
Distance: 0.765 mi.
Actual: 4036.903 ft.
Elevation: 0.075 mi. / 397.001 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Decimal Latitude:	39.75427704
Decimal Longitude:	-75.84521750
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	WEST GROVE
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	394
Method Altitude Determined:	M
Altitude Accuracy:	5
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	N/R
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	N/R
Hole Depth:	N/R
Source of Depth Data:	N/R
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-08
Ground Water End Date:	2000-06-08
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: 105
Direction: NE
Distance: 0.793 mi.
Actual: 4186.555 ft.
Elevation: 0.019 mi. / 100.2 ft.
Relative: Higher

Site Name : 103649
39.7492843514, -75.831670088
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342098242
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103649
Owner :	KIMBELOT CORP
Yield GPM :	40
Casing Top :	0 / 104 / 6
Licensee :	N/R
Local Well Number :	4741N
Date Drilled :	10/13/1977
Well Depth :	240
Static Level :	40
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	99
Site Type :	WELL
Elevation :	0
Latitude :	39.7492843514
Longitude :	-75.831670088
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE

Map Id: 106
Direction: NE
Distance: 0.808 mi.
Actual: 4268.020 ft.
Elevation: 0.067 mi. / 353.999 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394509075501801
Site Name:	CH 6243
Site Type:	GW
DMS Latitude:	394509
DMS Longitude:	0755018
Decimal Latitude:	39.75261048
Decimal Longitude:	-75.83799488
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	WEST GROVE
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	352
Method Altitude Determined:	M

Map Id: 106
Direction: SE
Distance: 0.808 mi.
Actual: 4268.020 ft.
Elevation: 0.067 mi. / 353.999 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Altitude Accuracy:	5
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	N/R
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	N/R
Hole Depth:	N/R
Source of Depth Data:	N/R
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-10
Ground Water End Date:	2000-06-10
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: 107
Direction: W
Distance: 0.813 mi.
Actual: 4290.795 ft.
Elevation: 0.076 mi. / 403.543 ft.
Relative: Higher

Site Name : 103571
39.7401145291, -75.8894400657
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342097068
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103571
Owner :	MCKINNEY HOWARD
Yield GPM :	12
Casing Top :	0 / 43 / 6
Licensee :	BROWN BROS DRILLING INC

Map Id: 107
Direction: N
Distance: 0.813 mi.
Actual: 4290.795 ft.
Elevation: 0.076 mi. / 403.543 ft.
Relative: Higher

Site Name : 103571
39.7401145291, -75.8894400657
PA

Database(s) : [WELLS - PA] ***(cont.)***

Envirosite ID: 342097068
EPA ID: N/R

WELLS - PA ***(cont.)***

Local Well Number :	X 4129
Date Drilled :	N/R
Well Depth :	83
Static Level :	25
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	39
Site Type :	WELL
Elevation :	0
Latitude :	39.7401145291
Longitude :	-75.8894400657
Municipality :	ELK TWP.
Quad Boundary :	BAY VIEW

Map Id: 108
Direction: ENE
Distance: 0.835 mi.
Actual: 4408.312 ft.
Elevation: 0.062 mi. / 326.001 ft.
Relative: Higher

Site Name : 103647
39.7512243223, -75.8333300767
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342098040
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103647
Owner :	KIMBELOT CORP
Yield GPM :	7
Casing Top :	0 / 74 / 6
Licensee :	N/R
Local Well Number :	4739N
Date Drilled :	03/28/1978
Well Depth :	240
Static Level :	70
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	69
Site Type :	WELL
Elevation :	0
Latitude :	39.7512243223
Longitude :	-75.8333300767
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE

Map Id: J109
Direction: ENE
Distance: 0.858 mi.
Actual: 4532.728 ft.
Elevation: 0.023 mi. / 120.2 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394451075494401
Site Name:	CH 6299
Site Type:	GW
DMS Latitude:	394451
DMS Longitude:	0754944
Decimal Latitude:	39.74761065
Decimal Longitude:	-75.82854990
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	395
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	20000610
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	N/R
Hole Depth:	N/R
Source of Depth Data:	N/R
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-10
Ground Water End Date:	2000-06-10
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA

Map Id: J109
Direction: ENE
Distance: 0.858 mi.
Actual: 4532.728 ft.
Elevation: 0.023 mi. / 120.2 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Classcode:	NWIS

Map Id: 110
Direction: ENE
Distance: 0.858 mi.
Actual: 4530.506 ft.
Elevation: 0.067 mi. / 352.001 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394503075495701
Site Name:	CH 6242
Site Type:	GW
DMS Latitude:	394503
DMS Longitude:	0754957
Decimal Latitude:	39.75094390
Decimal Longitude:	-75.83216130
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	WEST GROVE
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	347
Method Altitude Determined:	M
Altitude Accuracy:	5
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	1980
Date Site Established:	N/R
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	N/R
Hole Depth:	N/R

Map Id: 110
Direction: ENE
Distance: 0.858 mi.
Actual: 4530.506 ft.
Elevation: 0.067 mi. / 352.001 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Source of Depth Data:	N/R
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-10
Ground Water End Date:	2000-06-10
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: J111
Direction: ENE
Distance: 0.863 mi.
Actual: 4557.277 ft.
Elevation: 0.022 mi. / 118.199 ft.
Relative: Higher

Site Name : 103668
39.7481744055, -75.828889972
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342098045
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103668
Owner :	WOODARD N
Yield GPM :	7
Casing Top :	0 / 43 / 6
Licensee :	KENNETH L MADRON WELL DRILLING CO
Local Well Number :	4760N
Date Drilled :	05/01/1979
Well Depth :	208
Static Level :	0
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	38
Site Type :	WELL
Elevation :	0
Latitude :	39.7481744055
Longitude :	-75.828889972
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE

Map Id: 112
Direction: NW
Distance: 0.876 mi.
Actual: 4626.833 ft.
Elevation: 0.022 mi. / 117.201 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394445075493901
Site Name:	CH 6298
Site Type:	GW
DMS Latitude:	394445
DMS Longitude:	0754939
Decimal Latitude:	39.74594400
Decimal Longitude:	-75.82716099
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	389
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	1972
Date Site Established:	20000607
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	130
Hole Depth:	N/R
Source of Depth Data:	O
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-07
Ground Water End Date:	2000-06-07
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA

Map Id: 112
Direction: NW
Distance: 0.876 mi.
Actual: 4626.833 ft.
Elevation: 0.022 mi. / 117.201 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Classcode:	NWIS

Map Id: 113
Direction: WNW
Distance: 0.882 mi.
Actual: 4656.645 ft.
Elevation: 0.069 mi. / 361.877 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394433075532201
Site Name:	CH 1783
Site Type:	GW
DMS Latitude:	394433
DMS Longitude:	0755322
Decimal Latitude:	39.74261017
Decimal Longitude:	-75.88910800
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	BAY VIEW
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	370
Method Altitude Determined:	M
Altitude Accuracy:	20
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	N/R
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	19720602
Date Site Established:	N/R
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YYYYNNNN
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	83
Hole Depth:	N/R

Map Id: 113
Direction: NNW
Distance: 0.882 mi.
Actual: 4656.645 ft.
Elevation: 0.069 mi. / 361.877 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Source of Depth Data:	N/R
Project Number:	N/R
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	1974-10-15
Water Quality End Date:	1974-10-15
Water Quality Count:	1
Ground Water Begin Date:	1972-06-02
Ground Water End Date:	1972-06-02
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: 114
Direction: NNW
Distance: 0.880 mi.
Actual: 4646.168 ft.
Elevation: 0.05 mi. / 265 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394527075515601
Site Name:	CH 5450
Site Type:	GW
DMS Latitude:	394527
DMS Longitude:	0755156
Decimal Latitude:	39.75761010
Decimal Longitude:	-75.86521839
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	WEST GROVE
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	265
Method Altitude Determined:	M
Altitude Accuracy:	5
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02040205
Drainage Basin Code:	N/R

Map Id: 114
Direction: NW
Distance: 0.880 mi.
Actual: 4646.168 ft.
Elevation: 0.05 mi. / 265 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	19990817
Date Site Established:	N/R
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YYYYNYNN
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	000PGMT
Local Aquifer Type Code:	N/R
Well Depth:	302
Hole Depth:	N/R
Source of Depth Data:	O
Project Number:	444200342
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	2000-09-11
Water Quality End Date:	2000-09-13
Water Quality Count:	2
Ground Water Begin Date:	2000-09-11
Ground Water End Date:	2000-09-11
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: 115
Direction: E
Distance: 0.895 mi.
Actual: 4726.643 ft.
Elevation: 0.02 mi. / 105.6 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394403075492901
Site Name:	CH 6271
Site Type:	GW
DMS Latitude:	394403
DMS Longitude:	0754929
Decimal Latitude:	39.73427750
Decimal Longitude:	-75.82438300
Latitude-Longitude Method:	M

Map Id: 115
Direction: E
Distance: 0.895 mi.
Actual: 4726.643 ft.
Elevation: 0.02 mi. / 105.6 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	342
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	20000607
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	N/R
Hole Depth:	N/R
Source of Depth Data:	N/R
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-07
Ground Water End Date:	2000-06-07
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: K116
Direction: ENE
Distance: 0.899 mi.
Actual: 4748.325 ft.
Elevation: 0.064 mi. / 336.001 ft.
Relative: Higher

Site Name : 103648
39.7503944128, -75.8302800026
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342098377
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103648
Owner :	KIMBELOT CORP
Yield GPM :	20
Casing Top :	0 / 63 / 6
Licensee :	N/R
Local Well Number :	4740N
Date Drilled :	02/01/1980
Well Depth :	300
Static Level :	60
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	58
Site Type :	WELL
Elevation :	0
Latitude :	39.7503944128
Longitude :	-75.8302800026
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE

Map Id: 117
Direction: ENE
Distance: 0.901 mi.
Actual: 4758.645 ft.
Elevation: 0.068 mi. / 360 ft.
Relative: Higher

Site Name : 103645
39.7517843868, -75.8322200285
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342098250
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103645
Owner :	KIMBELOT CORP
Yield GPM :	40
Casing Top :	0 / 70 / 6
Licensee :	N/R
Local Well Number :	4737N
Date Drilled :	03/25/1978
Well Depth :	340
Static Level :	100
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	65
Site Type :	WELL
Elevation :	0
Latitude :	39.7517843868
Longitude :	-75.8322200285
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE

Map Id: 118
Direction: N
Distance: 0.906 mi.
Actual: 4786.270 ft.
Elevation: 0.075 mi. / 395.341 ft.
Relative: Higher

Site Name : 103577
39.7387245062, -75.8919400196
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342098017
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103577
Owner :	MALONEY JOHN
Yield GPM :	2
Casing Top :	0 / 20 / 6
Licensee :	R WALTER SLAUCH & SONS
Local Well Number :	X 4135
Date Drilled :	N/R
Well Depth :	253
Static Level :	24
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	STOCK
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	13
Site Type :	WELL
Elevation :	0
Latitude :	39.7387245062
Longitude :	-75.8919400196
Municipality :	ELK TWP.
Quad Boundary :	BAY VIEW

Map Id: 119
Direction: NE
Distance: 0.916 mi.
Actual: 4836.479 ft.
Elevation: 0.072 mi. / 382.001 ft.
Relative: Higher

Site Name : 103608
39.7556742671, -75.8427800499
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342098016
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103608
Owner :	TAITT WM R BLDR
Yield GPM :	20
Casing Top :	0 / 50 / 6
Licensee :	N/R
Local Well Number :	4700N
Date Drilled :	08/12/1981
Well Depth :	292
Static Level :	85
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	44
Site Type :	WELL
Elevation :	0
Latitude :	39.7556742671
Longitude :	-75.8427800499
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE

Map Id: K120
Direction: NE
Distance: 0.925 mi.
Actual: 4886.031 ft.
Elevation: 0.065 mi. / 343.999 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394502075494901
Site Name:	CH 6241
Site Type:	GW
DMS Latitude:	394502
DMS Longitude:	0754949
Decimal Latitude:	39.75066615
Decimal Longitude:	-75.82993890
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	WEST GROVE
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	367
Method Altitude Determined:	M
Altitude Accuracy:	5
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	N/R
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	N/R
Hole Depth:	N/R
Source of Depth Data:	N/R
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-12
Ground Water End Date:	2000-06-12
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA

Map Id: K120
Direction: NNE
Distance: 0.925 mi.
Actual: 4886.031 ft.
Elevation: 0.065 mi. / 343.999 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Classcode:	NWIS

Map Id: L121
Direction: NE
Distance: 0.928 mi.
Actual: 4900.661 ft.
Elevation: 0.061 mi. / 320 ft.
Relative: Higher

Site Name : 103646
39.7534543567, -75.8347199933
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342098022
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103646
Owner :	KIMBELOT CORP
Yield GPM :	8
Casing Top :	0 / 75 / 6
Licensee :	N/R
Local Well Number :	4738N
Date Drilled :	10/12/1977
Well Depth :	320
Static Level :	90
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	70
Site Type :	WELL
Elevation :	0
Latitude :	39.7534543567
Longitude :	-75.8347199933
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE

Map Id: 122
Direction: NNW
Distance: 0.930 mi.
Actual: 4910.172 ft.
Elevation: 0.057 mi. / 302.999 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394531075520501
Site Name:	CH 6250
Site Type:	GW
DMS Latitude:	394531
DMS Longitude:	0755205

Map Id: 122
Direction: NW
Distance: 0.930 mi.
Actual: 4910.172 ft.
Elevation: 0.057 mi. / 302.999 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Decimal Latitude:	39.75872117
Decimal Longitude:	-75.86771850
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	WEST GROVE
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	297
Method Altitude Determined:	M
Altitude Accuracy:	5
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	20000603
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	N/R
Hole Depth:	N/R
Source of Depth Data:	N/R
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-03
Ground Water End Date:	2000-06-03
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: 123
Direction: SE
Distance: 0.933 mi.
Actual: 4925.708 ft.
Elevation: 0.078 mi. / 413.999 ft.
Relative: Higher

Site Name : 103658
39.7565042622, -75.8438900819
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342098381
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103658
Owner :	ROY A
Yield GPM :	15
Casing Top :	0 / 45 / 6
Licensee :	N/R
Local Well Number :	4750N
Date Drilled :	06/19/1978
Well Depth :	200
Static Level :	40
Well Finish :	N/R
Use of Site :	N/R
Use of Water :	N/R
Formation :	N/R
WQ Data :	0
Depth to Bed :	40
Site Type :	WELL
Elevation :	0
Latitude :	39.7565042622
Longitude :	-75.8438900819
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE

Map Id: 124
Direction: NW
Distance: 0.938 mi.
Actual: 4950.559 ft.
Elevation: 0.079 mi. / 418.963 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394512075530201
Site Name:	CH 6145
Site Type:	GW
DMS Latitude:	394512
DMS Longitude:	0755302
Decimal Latitude:	39.75333330
Decimal Longitude:	-75.88388889
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD83
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	OXFORD
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	420
Method Altitude Determined:	M

Map Id: 124
Direction: NW
Distance: 0.938 mi.
Actual: 4950.559 ft.
Elevation: 0.079 mi. / 418.963 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Altitude Accuracy:	5
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	H
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	20000527
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	330
Hole Depth:	N/R
Source of Depth Data:	D
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-05-27
Ground Water End Date:	2000-05-27
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: 125
Direction: ENE
Distance: 0.943 mi.
Actual: 4981.283 ft.
Elevation: 0.07 mi. / 367.001 ft.
Relative: Higher

Site Name : 103639
39.7515043334, -75.8305599805
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342097344
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103639
Owner :	BOYLE E
Yield GPM :	6
Casing Top :	0 / 60 / 6
Licensee :	N/R

Map Id: 125
Direction: NE
Distance: 0.943 mi.
Actual: 4981.283 ft.
Elevation: 0.07 mi. / 367.001 ft.
Relative: Higher

Site Name : 103639
39.7515043334, -75.8305599805
PA

Database(s) : [WELLS - PA] ***(cont.)***

Envirosite ID: 342097344
EPA ID: N/R

WELLS - PA ***(cont.)***

Local Well Number :	4731N
Date Drilled :	10/09/1981
Well Depth :	260
Static Level :	80
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	55
Site Type :	WELL
Elevation :	0
Latitude :	39.7515043334
Longitude :	-75.8305599805
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE

Map Id: 126
Direction: NE
Distance: 0.945 mi.
Actual: 4989.875 ft.
Elevation: 0.073 mi. / 386.001 ft.
Relative: Higher

Site Name : 103607
39.7553942992, -75.8413900597
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342097007
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103607
Owner :	CERISOLI + MORRISON
Yield GPM :	6
Casing Top :	0 / 60 / 6
Licensee :	N/R
Local Well Number :	4699N
Date Drilled :	01/06/1981
Well Depth :	208
Static Level :	46
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	54
Site Type :	WELL
Elevation :	0
Latitude :	39.7553942992
Longitude :	-75.8413900597
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE

Map Id: 127
Direction: E
Distance: 0.953 mi.
Actual: 5031.004 ft.
Elevation: 0.02 mi. / 103.901 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394350075492501
Site Name:	CH 6295
Site Type:	GW
DMS Latitude:	394348.7
DMS Longitude:	0754922.9
Decimal Latitude:	39.73019444
Decimal Longitude:	-75.82302778
Latitude-Longitude Method:	G
Latitude-Longitude Accuracy:	5
Latitude-Longitude Datum:	NAD83
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	341
Method Altitude Determined:	M
Altitude Accuracy:	5
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	1978
Date Site Established:	20000627
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YYYY Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	160
Hole Depth:	N/R
Source of Depth Data:	D
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-27
Ground Water End Date:	2005-06-14
Ground Water Count:	2
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA

Map Id: 127
Direction: E
Distance: 0.953 mi.
Actual: 5031.004 ft.
Elevation: 0.02 mi. / 103.901 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Classcode:	NWIS

Map Id: 128
Direction: E
Distance: 0.958 mi.
Actual: 5057.670 ft.
Elevation: 0.02 mi. / 106.801 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394401075492301
Site Name:	CH 6484
Site Type:	GW
DMS Latitude:	394401.0
DMS Longitude:	0754923.2
Decimal Latitude:	39.73361110
Decimal Longitude:	-75.82311110
Latitude-Longitude Method:	G
Latitude-Longitude Accuracy:	5
Latitude-Longitude Datum:	NAD83
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	350
Method Altitude Determined:	M
Altitude Accuracy:	5
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02040205
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	20050614
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	N/R
Hole Depth:	N/R

Map Id: 128
Direction: E
Distance: 0.958 mi.
Actual: 5057.670 ft.
Elevation: 0.02 mi. / 106.801 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Source of Depth Data:	N/R
Project Number:	247600261
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2005-06-14
Ground Water End Date:	2005-06-14
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: 129
Direction: NE
Distance: 0.955 mi.
Actual: 5042.136 ft.
Elevation: 0.06 mi. / 318.999 ft.
Relative: Higher

Site Name : 103603
39.7548343428, -75.8380600391
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342097118
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103603
Owner :	TAITT BLDRS
Yield GPM :	12
Casing Top :	0 / 20 / 6
Licensee :	N/R
Local Well Number :	4695N
Date Drilled :	06/03/1982
Well Depth :	128
Static Level :	16
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	9
Site Type :	WELL
Elevation :	0
Latitude :	39.7548343428
Longitude :	-75.8380600391
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE

Map Id: 130
Direction: NW
Distance: 0.962 mi.
Actual: 5081.980 ft.
Elevation: 0.061 mi. / 323.999 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394533075521201
Site Name:	CH 6251
Site Type:	GW
DMS Latitude:	394533
DMS Longitude:	0755212
Decimal Latitude:	39.75927670
Decimal Longitude:	-75.86966300
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	WEST GROVE
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	328
Method Altitude Determined:	M
Altitude Accuracy:	5
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	20000603
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	N/R
Hole Depth:	N/R
Source of Depth Data:	N/R
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-03
Ground Water End Date:	2000-06-03
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA

Map Id: 130
Direction: NW
Distance: 0.962 mi.
Actual: 5081.980 ft.
Elevation: 0.061 mi. / 323.999 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Classcode:	NWIS

Map Id: L131
Direction: NE
Distance: 0.965 mi.
Actual: 5095.941 ft.
Elevation: 0.058 mi. / 307.001 ft.
Relative: Higher

Site Name : 103644
39.7537243571, -75.8338900146
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342098240
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103644
Owner :	KIMBELOT CORP
Yield GPM :	5
Casing Top :	0 / 55 / 6
Licensee :	N/R
Local Well Number :	4736N
Date Drilled :	07/15/1978
Well Depth :	320
Static Level :	60
Well Finish :	N/R
Use of Site :	N/R
Use of Water :	N/R
Formation :	N/R
WQ Data :	0
Depth to Bed :	50
Site Type :	WELL
Elevation :	0
Latitude :	39.7537243571
Longitude :	-75.8338900146
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE

Map Id: 132
Direction: W
Distance: 0.971 mi.
Actual: 5127.838 ft.
Elevation: 0.08 mi. / 420.276 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394426075533501
Site Name:	CH 4931
Site Type:	GW
DMS Latitude:	394425.5
DMS Longitude:	0755333.0

Map Id: 132
Direction: NW
Distance: 0.971 mi.
Actual: 5127.838 ft.
Elevation: 0.08 mi. / 420.276 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Decimal Latitude:	39.74041667
Decimal Longitude:	-75.89250000
Latitude-Longitude Method:	G
Latitude-Longitude Accuracy:	5
Latitude-Longitude Datum:	NAD83
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	BAY VIEW
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	410
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	F
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	199211
Date Site Established:	19931215
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YYYYNYNN
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCK
Local Aquifer Type Code:	U
Well Depth:	132
Hole Depth:	N/R
Source of Depth Data:	D
Project Number:	444220700
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	1994-07-21
Water Quality End Date:	2000-11-27
Water Quality Count:	2
Ground Water Begin Date:	1993-12-15
Ground Water End Date:	1994-07-21
Ground Water Count:	3
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: 133
Direction: SE
Distance: 0.971 mi.
Actual: 5125.714 ft.
Elevation: 0.07 mi. / 371.001 ft.
Relative: Higher

Site Name : 103606
39.7553942854, -75.8402799819
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342097296
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103606
Owner :	HANNON C
Yield GPM :	4
Casing Top :	0 / 45 / 6
Licensee :	N/R
Local Well Number :	4698N
Date Drilled :	10/15/1981
Well Depth :	208
Static Level :	57
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	38
Site Type :	WELL
Elevation :	0
Latitude :	39.7553942854
Longitude :	-75.8402799819
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE

Map Id: 134
Direction: W
Distance: 0.977 mi.
Actual: 5157.512 ft.
Elevation: 0.068 mi. / 359.908 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394354075533901
Site Name:	CH 6377
Site Type:	GW
DMS Latitude:	394354
DMS Longitude:	0755339
Decimal Latitude:	39.73177700
Decimal Longitude:	-75.89383040
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	BAY VIEW
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	362
Method Altitude Determined:	M

Map Id: 134
Direction: N
Distance: 0.977 mi.
Actual: 5157.512 ft.
Elevation: 0.068 mi. / 359.908 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02060002
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	N/R
Date Site Established:	N/R
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YY Y Y
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	N/R
Hole Depth:	N/R
Source of Depth Data:	N/R
Project Number:	444200241
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	--
Water Quality End Date:	--
Water Quality Count:	0
Ground Water Begin Date:	2000-06-13
Ground Water End Date:	2000-06-13
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: M135
Direction: ENE
Distance: 0.977 mi.
Actual: 5160.256 ft.
Elevation: 0.072 mi. / 378.999 ft.
Relative: Higher

Site Name : 103643
39.7503943852, -75.8283300637
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342098238
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103643
Owner :	KIMBELOT CORP
Yield GPM :	8
Casing Top :	0 / 52 / 6
Licensee :	N/R

Map Id: M135
Direction: ENE
Distance: 0.977 mi.
Actual: 5160.256 ft.
Elevation: 0.072 mi. / 378.999 ft.
Relative: Higher

Site Name : 103643
39.7503943852, -75.8283300637
PA

Database(s) : [WELLS - PA] ***(cont.)***

Envirosite ID: 342098238
EPA ID: N/R

WELLS - PA ***(cont.)***

Local Well Number :	4735N
Date Drilled :	01/30/1980
Well Depth :	200
Static Level :	45
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	47
Site Type :	WELL
Elevation :	0
Latitude :	39.7503943852
Longitude :	-75.8283300637
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE

Map Id: 136
Direction: ENE
Distance: 0.977 mi.
Actual: 5159.200 ft.
Elevation: 0.073 mi. / 386.001 ft.
Relative: Higher

Site Name : 103638
39.7523343884, -75.8308300644
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342098371
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103638
Owner :	KIMBELOT
Yield GPM :	7.5
Casing Top :	0 / 102 / 6
Licensee :	N/R
Local Well Number :	4730N
Date Drilled :	08/03/1977
Well Depth :	240
Static Level :	60
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	97
Site Type :	WELL
Elevation :	0
Latitude :	39.7523343884
Longitude :	-75.8308300644
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE

Map Id: 137
Direction: NE
Distance: 0.980 mi.
Actual: 5173.697 ft.
Elevation: 0.064 mi. / 338.999 ft.
Relative: Higher

Site Name : 103605
39.7553942626, -75.8391700199
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342097005
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103605
Owner :	HANNON C
Yield GPM :	6
Casing Top :	0 / 52 / 6
Licensee :	N/R
Local Well Number :	4697N
Date Drilled :	02/10/1982
Well Depth :	208
Static Level :	47
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	40
Site Type :	WELL
Elevation :	0
Latitude :	39.7553942626
Longitude :	-75.8391700199
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE

Map Id: 138
Direction: ENE
Distance: 0.984 mi.
Actual: 5194.838 ft.
Elevation: 0.022 mi. / 114.8 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394456075493801
Site Name:	CH 1829
Site Type:	GW
DMS Latitude:	394456
DMS Longitude:	0754938
Decimal Latitude:	39.74899954
Decimal Longitude:	-75.82688320
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	F
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	NEWARK WEST
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	410
Method Altitude Determined:	M

Map Id: 138
Direction: NE
Distance: 0.984 mi.
Actual: 5194.838 ft.
Elevation: 0.022 mi. / 114.8 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02040205
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	N/R
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	19660101
Date Site Established:	N/R
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YYYYNNNN
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	300WSCKO
Local Aquifer Type Code:	N/R
Well Depth:	165
Hole Depth:	N/R
Source of Depth Data:	N/R
Project Number:	N/R
Realtime-Data Flag:	0
Peak Begin Date:	--
Peak End Date:	--
Peak Count:	0
Water Quality Begin Date:	1995-08-31
Water Quality End Date:	1995-08-31
Water Quality Count:	1
Ground Water Begin Date:	1966-11-01
Ground Water End Date:	1966-11-01
Ground Water Count:	1
Site Visit Begin Date:	--
Site Visit End Date:	--
Site Visit Count:	0
State:	PA
Classcode:	NWIS

Map Id: 139
Direction: NE
Distance: 0.988 mi.
Actual: 5216.223 ft.
Elevation: 0.077 mi. / 405 ft.
Relative: Higher

Site Name : 103657
39.7567842822, -75.8425000064
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342097389
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103657
Owner :	ROY A
Yield GPM :	7
Casing Top :	0 / 42 / 6
Licensee :	N/R

Map Id: 139
Direction: NE
Distance: 0.988 mi.
Actual: 5216.223 ft.
Elevation: 0.077 mi. / 405 ft.
Relative: Higher

Site Name : 103657
39.7567842822, -75.8425000064
PA

Database(s) : [WELLS - PA] ***(cont.)***

Envirosite ID: 342097389
EPA ID: N/R

WELLS - PA ***(cont.)***

Local Well Number :	4749N
Date Drilled :	06/20/1978
Well Depth :	200
Static Level :	50
Well Finish :	N/R
Use of Site :	N/R
Use of Water :	N/R
Formation :	N/R
WQ Data :	0
Depth to Bed :	37
Site Type :	WELL
Elevation :	0
Latitude :	39.7567842822
Longitude :	-75.8425000064
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE

Map Id: 140
Direction: ENE
Distance: 0.991 mi.
Actual: 5230.932 ft.
Elevation: 0.024 mi. / 126.601 ft.
Relative: Higher

Site Name : 103666
39.7467844394, -75.8252800103
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342098278
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103666
Owner :	WIER C
Yield GPM :	5
Casing Top :	0 / 37 / 6
Licensee :	N/R
Local Well Number :	4758N
Date Drilled :	06/01/1980
Well Depth :	121
Static Level :	25
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	34
Site Type :	WELL
Elevation :	0
Latitude :	39.7467844394
Longitude :	-75.8252800103
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST

Map Id: M141
Direction: NW
Distance: 0.991 mi.
Actual: 5231.872 ft.
Elevation: 0.022 mi. / 114.075 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS]

Envirosite ID: N/R
EPA ID: N/R

NWIS

Agency:	USGS
Site Identification Number:	394500075494101
Site Name:	CH 1866
Site Type:	GW
DMS Latitude:	394500
DMS Longitude:	0754941
Decimal Latitude:	39.75011060
Decimal Longitude:	-75.82771659
Latitude-Longitude Method:	M
Latitude-Longitude Accuracy:	S
Latitude-Longitude Datum:	NAD27
Decimal Latitude/Longitude Datum:	NAD83
District Code:	42
State Code:	42
County Code:	029
Country Code:	US
Land Net Location Description:	N/R
Name of Location Map:	WEST GROVE
Scale of Location Map:	24000
Altitude of Gage/Land Surface:	370
Method Altitude Determined:	M
Altitude Accuracy:	10
Altitude Datum:	NGVD29
Hydrologic Unit Code:	02040205
Drainage Basin Code:	N/R
Topographic Setting Code:	S
Data Types:	N/R
Instruments:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Construction Date:	1955
Date Site Established:	N/R
Drainage Area:	N/R
Contributing Drainage Area:	N/R
Time-zone Abbreviation:	EST
Daylight Saving Time:	Y
Data Reliability Code:	C
Data-Other GW File:	YYYYNNNN
National Aquifer Code:	N400PDMBRX
Local Aquifer Code:	N/R
Local Aquifer Type Code:	N/R
Well Depth:	N/R
Hole Depth:	N/R
Source of Depth Data:	N/R
Project Number:	N/R
Realtime-Data Flag:	N/R
Peak Begin Date:	N/R
Peak End Date:	N/R
Peak Count:	N/R
Water Quality Begin Date:	N/R
Water Quality End Date:	N/R
Water Quality Count:	N/R
Ground Water Begin Date:	N/R
Ground Water End Date:	N/R
Ground Water Count:	N/R
Site Visit Begin Date:	N/R
Site Visit End Date:	N/R
Site Visit Count:	N/R
State:	PA

Map Id: M141
Direction: NW
Distance: 0.991 mi.
Actual: 5231.872 ft.
Elevation: 0.022 mi. / 114.075 ft.
Relative: Lower

Site Name : N/R

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: N/R
EPA ID: N/R

NWIS ***(cont.)***

Classcode:	NWIS

Map Id: 142
Direction: NE
Distance: 0.990 mi.
Actual: 5227.066 ft.
Elevation: 0.066 mi. / 350 ft.
Relative: Higher

Site Name : 103602
39.7551143199, -75.836940051
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342097675
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103602
Owner :	TAITT BLDRS
Yield GPM :	12
Casing Top :	0 / 43 / 6
Licensee :	N/R
Local Well Number :	4694N
Date Drilled :	12/02/1982
Well Depth :	208
Static Level :	38
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	34
Site Type :	WELL
Elevation :	0
Latitude :	39.7551143199
Longitude :	-75.836940051
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE

Map Id: 143
Direction: W
Distance: 0.995 mi.
Actual: 5251.227 ft.
Elevation: 0.065 mi. / 341.535 ft.
Relative: Higher

Site Name : 103491
39.7306745983, -75.8938900178
PA

Database(s) : [WELLS - PA]

Envirosite ID: 342097002
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103491
Owner :	BUCHANAN MARSHALL
Yield GPM :	10
Casing Top :	0 / 78 / 6
Licensee :	N/R

Map Id: 143
Direction: NW
Distance: 0.995 mi.
Actual: 5251.227 ft.
Elevation: 0.065 mi. / 341.535 ft.
Relative: Higher

Site Name : 103491
39.7306745983, -75.8938900178
PA

Database(s) : [WELLS - PA] ***(cont.)***

Envirosite ID: 342097002
EPA ID: N/R

WELLS - PA ***(cont.)***

Local Well Number :	4648N
Date Drilled :	09/25/1984
Well Depth :	135
Static Level :	30
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	72
Site Type :	WELL
Elevation :	0
Latitude :	39.7306745983
Longitude :	-75.8938900178
Municipality :	ELK TWP.
Quad Boundary :	BAY VIEW

RADON DATA:

STATE SOURCE: No Available Data

FEDERAL AREA RADON INFORMATION FOR: CHESTER PA

NUMBER OF SAMPLE SITES: 33

Area:	Average Activity:	% <4 pCi/L:	% 4-20 pCi/L:	% >20 pCi/L:
basement	10.7643 pCi/L	57.14%	25%	17.86%
first floor	2.1 pCi/L	100%	0%	0%

INACTIVE PCS
Inactive Permit Compliance Facilities
Environmental Protection Agency
(202) 564-6582
Inactive Permitted facilities to discharge wastewater

NWIS
National Water Information Systems
United States Geological Society
(703) 648-5953
Information on all water resources for the United States. This database contains all current and historical data for the nation.

PCS ENF
Enforced Permit Compliance Facilities
Environmental Protection Agency
(202) 564-6582
Permitted facilities to discharge wastewater (Federal equivalent to NPDES)

PCS FACILITY
Permit Compliance Facilities
Environmental Protection Agency
(202) 564-6582
Permitted facilities to discharge wastewater (Federal equivalent to NPDES)

PWS
Public Water Supply
Environmental Protection Agency
(800) 426-4791
Safe drinking water information Systems

PWS ENF
Public Water Supply locations with Enforcement Violations
Environmental Protection Agency
(800) 426-4791
Safe drinking water information Systems with enforcememnt violations

STORMWATER
Storm Water Permits
Environmental Protection Agency
(202) 566-1667
Permitted storm water sites

NPDES - PA
National Pollutant Discharge Elimination System
Department of Environmental Protection
(717) 787-2043
Inventory of NPDES Permits

WELLS - PA
Water Well Locations
DEPARTMENT OF ENVIRONMENTAL PROTECTION
(717)772-2199
PAGWIS Well Water Well Inventory

FLOOD Q3
flood data
Environmental Protection Agency
(202) 566-1667
Q3 Flood Data

HYDROLOGIC UNIT
Hydrologic Unit Maps
USGS
The United States Geological Survey created a hierarchical system of hydrologic units originally called regions, sub-regions, accounting units, and cataloging units. Each unit was assigned a unique Hydrologic Unit Code (HUC). As first implemented the system had 21 regions, 221 subregions, 378 accounting units, and 2,264 cataloging units. Over time the system was changed and expanded. As of 2010 there are six levels in the hierarchy, represented by hydrologic unit codes from 2 to 12 digits long, called regions, subregions, basins, subbasins, watersheds, and subwatersheds. The table below describes the system's hydrologic unit levels and their characteristics, along with example names and codes.

WETLANDS NWI
National Wetland Inventory
U.S. Fish and Wildlife Service
(703) 358-2171
Wetland Inventory for the United States

SSURGO
Detailed Soil Data Map
Natural Resources Conservation Service: U.S. Department of Agriculture
(202) 690-4985
Detailed Soil Data Map

STATSGO & MUI
General Soil Data Map
Natural Resources Conservation Service: U.S. Department of Agriculture
(202) 690-4985
General Soil Data Map

USGS GEOLOGIC AGE
USGS Digital Data Series DDS
Natural Resources Conservation Service: U.S. Department of Agriculture
(202) 690-4985
USGS Digital Data Series DDS: Geologic Age and Rock Stratigraphic Unit

RADON
National Radon Database
USGS
703-605-6008
A study of the EPA/State Residential Radon Survey and the National Residential Radon Survey.

OIL & GAS WELLS - PA
Oil & Gas Wells
Department of Environmental Protection
(717)772-2199
Oil & Gas Wells Directory

AIRPORT FACILITIES
Airport landing facilities
Federal Aviation Administration
(866) 835-5322
Airport landing facilities

BASINS
Better Assessment Science Integrating point & Non-point Sources
U.S. Environmental Protection Agency
855-246-3642
Integrated geographical information system national watershed data and environmental assessment known as Better Assessment Science Integrating point & Non-point Sources

EPICENTERS
National Geographical Data Center
National Geographical Data Center
303-497-6826
Data on over four million earthquakes dating from 2100 B.C. to 1995 A.D.

FLOOD DFIRM
National Flood Hazard Layer Database
Federal Emergency Management Agency
The National Flood Hazard Layer Database (NFHL) is a computer database that contains the flood hazard map information from FEMAs Flood Map Modernization program. These map data are from Digital Flood Insurance Rate Map (DFIRM) databases and Letters of Map Revision.

APPENDIX C

ENVIRONMENTAL LIEN SEARCH REPORT

The NETR Environmental Lien and AUL Search Report

STRAWBRIDGE PROPERTY
MOUNT OLIVET ROAD AND WALKER ROAD
LANDENBERG, PENNSYLVANIA

Thursday, June 22, 2017

Project Number: L17-01092

2055 East Rio Salado Parkway
Tempe, Arizona 85281

Telephone: 480-967-6752
Fax: 480-966-9422

ENVIRONMENTAL LIEN AND AUL REPORT

The NETR Environmental LienSearch 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 property 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' office, registries of deed, 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 NETR at 480-967-6752
with any questions or comments

ENVIRONMENTAL LIEN AND AUL REPORT

The NETR Environmental Lien Search Report is intended to assist in the search for environmental liens filed in land title records.

TARGET PROPERTY INFORMATION

ADDRESS

Strawbridge Property
Mount Olivet Road and Walker Road
Landenberg, Pennsylvania

RESEARCH SOURCE

Source: Chester County Assessor
Chester County Recorder of Deeds

DEED INFORMATION

Type of Instrument: New Deed Type

Grantor: Girard Bank, George Strawbridge, Sr., Trustees

Grantee: Delaware Trust Co., George Strawbridge, Sr., and William C. Lickle, Trustees

Deed Dated: 08/07/1984
Deed Recorded: 08/23/1984
Book: B64
Page: 175

LEGAL DESCRIPTION

All that certain piece or parcel of land being 63.5 acres, more or less, situated and lying in the City of Landenberg, Chester County, State of Pennsylvania

Assessor's Parcel Number(s): 72-6-10

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐ Not Found ☒

ENVIRONMENTAL LIEN AND AUL REPORT

TARGET PROPERTY INFORMATION

ADDRESS

Strawbridge Property
Mount Olivet Road and Walker Road
Landenberg, Pennsylvania

RESEARCH SOURCE

Source: Chester County Assessor
Chester County Recorder of Deeds

DEED INFORMATION

Type of Instrument: New Deed Type

Grantor: Girard Bank, George Strawbridge, Sr., Trustees

Grantee: Delaware Trust Co., George Strawbridge, Sr., and William C. Lickle, Trustees

Deed Dated: 08/07/1984
Deed Recorded: 08/23/1984
Book: B64
Page: 175

LEGAL DESCRIPTION

All that certain piece or parcel of land being 370.1 acres, more or less, situated and lying in the City of Landenberg, Chester County, State of Pennsylvania

Assessor's Parcel Number(s): 72-6-4

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐ Not Found ☒

ENVIRONMENTAL LIEN AND AUL REPORT

TARGET PROPERTY INFORMATION

ADDRESS

Strawbridge Property
Mount Olivet Road and Walker Road
Landenberg, Pennsylvania

RESEARCH SOURCE

Source: Chester County Assessor
Chester County Recorder of Deeds

DEED INFORMATION

Type of Instrument: New Deed Type

Grantor: Girard Bank, George Strawbridge, Sr., Trustees

Grantee: Delaware Trust Co., George Strawbridge, Sr., and William C. Lickle, Trustees

Deed Dated: 08/07/1984
Deed Recorded: 08/23/1984
Book: B64
Page: 175

LEGAL DESCRIPTION

All that certain piece or parcel of land being 346.7 acres, more or less, situated and lying in the City of Landenberg, Chester County, State of Pennsylvania

Assessor's Parcel Number(s): 70-5-8

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐ Not Found ☒

ENVIRONMENTAL LIEN AND AUL REPORT

TARGET PROPERTY INFORMATION

ADDRESS

Strawbridge Property
Mount Olivet Road and Walker Road
Landenberg, Pennsylvania

RESEARCH SOURCE

Source: Chester County Assessor
Chester County Recorder of Deeds

DEED INFORMATION

Type of Instrument: New Deed Type

Grantor: Girard Bank, George Strawbridge, Sr., Trustees

Grantee: Delaware Trust Co., George Strawbridge, Sr., and William C. Lickle, Trustees

Deed Dated: 08/07/1984
Deed Recorded: 08/23/1984
Book: B64
Page: 175

LEGAL DESCRIPTION

All that certain piece or parcel of land being 71.9 acres, more or less, situated and lying in the City of Landenberg, Chester County, State of Pennsylvania

Assessor's Parcel Number(s): 70-5-7

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐ Not Found ☒

ENVIRONMENTAL LIEN AND AUL REPORT

TARGET PROPERTY INFORMATION

ADDRESS

Strawbridge Property
Mount Olivet Road and Walker Road
Landenberg, Pennsylvania

RESEARCH SOURCE

Source: Chester County Assessor
Chester County Recorder of Deeds

DEED INFORMATION

Type of Instrument: New Deed Type

Grantor: Girard Bank, George Strawbridge, Sr., Trustees

Grantee: Delaware Trust Co., George Strawbridge, Sr., and William C. Lickle, Trustees

Deed Dated: 08/07/1984
Deed Recorded: 08/23/1984
Book: B64
Page: 175

LEGAL DESCRIPTION

All that certain piece or parcel of land being 96.7 acres, more or less, situated and lying in the City of Landenberg, Chester County, State of Pennsylvania

Assessor's Parcel Number(s): 70-5-6

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐ Not Found ☒

ENVIRONMENTAL LIEN AND AUL REPORT

TARGET PROPERTY INFORMATION

ADDRESS

Strawbridge Property
Mount Olivet Road and Walker Road
Landenberg, Pennsylvania

RESEARCH SOURCE

Source: Chester County Assessor
Chester County Recorder of Deeds

DEED INFORMATION

Type of Instrument: Individual Deed

Grantor: Jane F. Trimble

Grantee: George Strawbridge, Jr

Deed Dated: 03/31/1997
Deed Recorded: 04/02/1997
Book: 4158
Page: 1495

LEGAL DESCRIPTION

All that certain piece or parcel of land being 14.4 acres, more or less, situated and lying in the City of Landenberg, Chester County, State of Pennsylvania

Assessor's Parcel Number(s): 72-6-1

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐ Not Found ☒

ENVIRONMENTAL LIEN AND AUL REPORT

TARGET PROPERTY INFORMATION

ADDRESS

Strawbridge Property
Mount Olivet Road and Walker Road
Landenberg, Pennsylvania

RESEARCH SOURCE

Source: Chester County Assessor
Chester County Recorder of Deeds

DEED INFORMATION

Type of Instrument: Individual Deed

Grantor: Jane F. Trimble

Grantee: George Strawbridge, Jr

Deed Dated: 03/31/1997
Deed Recorded: 04/02/1997
Book: 4158
Page: 1495

LEGAL DESCRIPTION

All that certain piece or parcel of land being 19.3 acres, more or less, situated and lying in the City of Landenberg, Chester County, State of Pennsylvania

Assessor's Parcel Number(s): 71-4-32.3

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐ Not Found ☒

AFFIDAVIT

14755

RECORDER OF DEEDS
CHESTER COUNTY, PA.
'84 AUG 23 P2:05

CERTIFICATE OF AWARD OF REAL ESTATE

TRUST INTER VIVOS: GEORGE STRAWBRIDGE, JR., SETTLOR

NO. 84664

Award of Real Estate to: Delaware Trust Company, George Strawbridge, and William C. Lickle, of 900 Market Street Mall, Wilmington, Delaware 19801, Trustees under Deed of George Strawbridge, Jr. dated January 20, 1971, thirty percent interest.

Commonwealth of Pennsylvania :
ss
County of Montgomery :

I, Nancy Mourley, 1st Asst Assistant Clerk of the Orphans' Court Division of the Court of Common Pleas for the County of Montgomery, in the Commonwealth of Pennsylvania, do hereby certify the attached to be a true and correct excerpt from the schedule of distribution filed in conformity with adjudication of the Orphans' Court Division of the Court of Common Pleas of Montgomery County upon the first account of Girard Bank, George Strawbridge and Charles H. Norris, Jr., Trustees under Deed of George Strawbridge, Jr., dated January 20, 1971, filed and conformed nisi February 17, 1983, as the same remains on file and is of record in said court.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seal of said Court at Norristown this 7th day of August, 1984.

Nancy Mourley

Assistant Clerk of the Orphans' Court Division

B 64 175

Form 533354

EXHIBIT "A"

To Delaware Trust Company and George Strawbridge and William C. Lickle, Trustees Under Deed of George Strawbridge, Jr. dated January 20, 1971 their Successors & assigns Premises .30 Int. Springlawn, Chester County, Pa. valued @ and more fully described as follows:

155 200 97

ALL THOSE TWO CERTAIN tracts of ground Situate partly in the Townships of London Britain, Franklin and Elk, County of Chester and State of Pennsylvania described according to a Plan of Property of Springlawn Corp. dated 8-24-1978 made by M[illegible] Engineering Assoc. Engineers and Surveyors, Oxford, Pa. as follows, to wit:

PREMISES "A"

BEGINNING at a spike set in the title line of Public Road LR 15020 known as Fairview Elkton Road said road leading in a Northerly direction to Pennsylvania Route 896 and a Southerly direction to Elkton, Md. said spike marking a Northeasterly corner of this about to be described tract and a corner of R. Vannoy; thence leaving said spike by the title line of said road South 01 degree 30 minutes 06 seconds West 463.95 feet to a spike marking a corner of this and a Northwesterly corner of S. Eschus; thence by said lands of Eschus South 87 degrees 27 minutes 56 seconds West 349.22 feet to an iron pin marking a corner of this and a corner of lands of Eschus; thence partly by lands of S. Eschus, J. Luckett, J. Evans, and R. Swan South 03 degrees 55 minutes 54 seconds East 1085.49 feet to an old iron pin marking a corner of this and a corner of lands of R. Swan; thence by said lands of Swan the following four courses and distances to wit: (1) South 20 degrees 39 minutes 45 seconds West 679.70 feet to an iron pin (2) South 04 degrees 36 minutes 49 seconds West 341.47 feet to an iron pin (3) South 00 degrees 35 minutes 04 seconds West 1295.24 feet to an iron pin (4) South 04 degrees 04 minutes 41 seconds East 147.79 feet to an iron pin marking a Southeasterly corner of this and set on the line dividing the State of Pennsylvania from the State of Maryland; thence by the State of Maryland due West crossing over Township line dividing Elk Township from Franklin Township 11371.55 feet to a post marking a Southwesterly corner of this and a Southeasterly corner of R. M. Thompson; thence by said lands of Thompson the following two courses and distances to wit: (1) North 05 degrees 02 minutes 01 second East 1509.75 feet to an iron pin (2) North 87 degrees 52 minutes 04 seconds West 354.76 feet to a spike set in the title line of Public Road LR 15016 known as Lewisville Strickersville Road said road leading in an Easterly direction to Strickersville and a westerly direction to Lewisville said spike marking a Southeasterly corner of lands of M. P. Dougherty; thence by said lands of Dougherty the following three courses and distances to wit:

1 - North 11 degrees 57 minutes 12 seconds East 1765.62' to a stone
2 - South 87 degrees 41 minutes 21 seconds West 1539.62' to a point
3 - South 87 degrees 36 minutes 49 seconds West 1350.72' to a spike marking a corner of this and set in the title line of Pennsylvania Route 841, leading in a northerly direction to Pennsylvania Route 896 and a southerly direction to Lewisville; thence leaving said spike and by the title line of said Pennsylvania Route 841 the following four courses and distances to wit:

1 - North 08 degrees 35 minutes 11 seconds West 498.86' to a spike
2 - North 13 degrees 38 minutes 41 seconds West 418.53' to a spike
3 - North 16 degrees 54 minutes 38 seconds West 251.55' to a spike
4 - North 06 degrees 48 minutes 19 seconds East 476.20' to a spike set for a northwesterly corner of this and a corner of lands of L. T. Steele, Jr.; thence by said lands of Steele and also along the southerly side of the water rights right of way conveyed to Springlawn Corporation the following 14 courses and distances to wit:

1 - North 81 degrees 34 minutes 21 seconds East 321.87' to an iron pin
2 - North 47 degrees 27 minutes 26 seconds East 150.43' to an iron pin
3 - North 43 degrees 51 minutes 26 seconds East 242.61' to an iron pin
4 - North 57 degrees 31 minutes 26 seconds East 132.98' to an iron pin
5 - North 40 degrees 11 minutes 26 seconds East 155.16' to an iron pin
6 - North 47 degrees 49 minutes 26 seconds East 187.97' to an iron pin
7 - North 50 degrees 15 minutes 26 seconds East 90.78' to an iron pin
8 - North 38 degrees 02 minutes 26 seconds East 125.30' to an iron pin
9 - North 39 degrees 24 minutes 26 seconds East 214.76' to an iron pin
10 - North 46 degrees 15 minutes 26 seconds East 139.98' to an iron pin
11 - North 44 degrees 09 minutes 26 seconds East 227.40' to an iron pin
12 - North 39 degrees 04 minutes 26 seconds East 360.43' to an iron pin
13 - North 42 degrees 03 minutes 26 seconds East 288.73' to an iron pin
14 - North 55 degrees 03 minutes 26 seconds East 209.01' to an iron pin; thence crossing township line dividing Elk Township, Franklin Township, and partly by lands of aforementioned L. T. Steele, Jr. and lands of J. R. Frederick North 46 degrees 25 minutes 26 seconds East 858.48' to an iron pin marking a corner of this and a corner of lands of J. R. Frederick;

B 64 176

thence by lands of Frederick North 60 degrees 21 minutes 26 seconds East 387.37' to an iron pin; thence still by Frederick and partly by the water rights right of way granted to Springlawn Corporation by Frederick North 51 degrees 47 minutes 26 seconds East 302.81' to a tree; thence still by lands of Frederick and the sOutherly side of said right of way North 84 degrees 32 minutes 26 seconds East 294.70' to an iron pin marking a corner of Francis Hill; thence by said lands of Hill the following four courses and distances to wit:

1 - North 48 degrees 29 minutes 26 seconds East 291.01' to an iron pin
2 - North 52 degrees 01 minute 26 seconds East 187.62' to an iron pin
3 - North 68 degrees 47 minutes 26 seconds East 231.82' to an iron pin
4 - North 85 degrees 35 minutes 35 seconds East 1584.08' to an old iron pin marking a corner of J. Rowe; thence partly by lands of Rowe and partly by lands of T. Davis North 81 degrees 06 minutes 58 seconds East 779.23' to a point marking a northwesterly corner of lands of R. Riale; thence by said lands of Riale the following two courses and distances to wit:

1 - South 05 degrees 17 minutes 30 seconds West 534.84' to a point
2 - South 01 degrees 09 minutes 30 seconds west 225.12' to a point; thence still partly by lands of Riale and partly by lands of C. Thomas South 09 degrees 10 minutes 30 seconds West 196.00' to a point marking a corner of lands of Thomas; thence by said lands of Thomas South 04 degrees 58 minutes 30 seconds West 455.15' to an old iron pin marking a corner of said lands of Thomas; thence still partly by lands of Thomas and partly by lands of Riale South 87 degrees 56 minutes 30 seconds East 626.16' to an iron pin; thence by lands of Riale South 87 degrees 22 minutes 30 seconds East 580.03' to an old iron pin; thence passing through the title line of Public Road T-303 known as Mt. Olivet Road said road leading in a northerly direction to Peacedale Road and an easterly direction to Pennsylvania Route 896 South 88 degrees 03 minutes 00 seconds East 1201.27' to an iron pin marking a corner of Mt. Olivet School; thence by said lands of Mt. Olivet School the following five courses and distances to wit:

1 - South 00 degrees 06 minutes 57 seconds West 80.89' to an iron pin
2 - North 88 degrees 55 minutes 57 seconds East 270.00' to an iron pin
3 - North 26 degrees 32 minutes 33 seconds West 76.20' to a stone
4 - North 36 degrees 21 minutes 33 seconds West 96.89' to a stump
5 - North 88 degrees 32 minutes 03 seconds West 112.37' to a point set in the title line of aforementioned Public Road T-303; thence by said title line the following three courses and distances to wit:

1 - North 47 degrees 24 minutes 27 seconds East 131.16' to a point
2 - North 79 degrees 45 minutes 27 seconds East 93.81' to a point
3 - South 82 degrees 22 minutes 33 seconds East 56.76' to an iron pin; thence leaving said title line and by lands of B. Johnson the following three courses and distances to wit:

1 - South 37 degrees 09 minutes 33 seconds East 439.64' to an iron pin
2 - South 08 degrees 52 minutes 27 seconds West 1043.47' to an iron pin
3 - South 41 degrees 14 minutes 37 seconds East 536.41' to an iron pin marking a corner of this and a corner of lands of said Johnson; thence partly by said lands of Johnson and partly by lands of A. Del Duco South 06 degrees 44 minutes 00 seconds East 2116.95' to a spike set in the title line of aforementioned Public Road LR-15016; thence by said title line the following four courses and distances to wit:

1 - South 78 degrees 28 minutes 13 seconds East 112.74' to a point
2 - South 77 degrees 59 minutes 13 seconds East 273.31' to a point
3 - South 89 degrees 54 minutes 13 seconds East 137.50' to a point
4 - North 80 degrees 30 minutes 32 seconds East 59.47' to a spike marking a corner of this and a corner of lands of T. R. Crossan; thence by said lands of Crossan South 41 degrees 03 minutes 14 seconds East 614.04' to an iron pin; thence partly by lands of Crossan and partly by lands of aforementioned Vannoy North 72 degrees 34 minutes 16 seconds East 4070.69' to a spike being the first mentioned point and place of beginning.

CONTAINING 1,684.938 Acres be the same more or less.

TOGETHER with the water rights right of way as granted to Springlawn Corporation by L. T. Staats, Jr. situate in Elk Township and New London Township, Chester County, Pennsylvania described as follows.

BEGINNING at a spike set for a northwesterly corner of lands of Springlawn Corporation said spike being set in the title line of Pennsylvania Route 841 said road leading in a southerly direction to Lewisville and a northerly direction to Pennsylvania Route 896; thence leaving said point of beginning and by the title line of Pennsylvania Route 841 North 07 degrees 43 minutes 22 seconds East 256.93' to a point; thence leaving said title line and passing through lands of L. T. Staats, Jr. the following three courses and distances to wit:

1 - North 47 degrees 08 minutes 47 seconds East 1175.88' to a point
2 - North 43 degrees 03 minutes 56 seconds East 740.01' to a point
3 - North 48 degrees 24 minutes 25 seconds East 580.00' to a point set in line of lands of J. R. Frederick also set on Township Line dividing Franklin Township from New London Township; thence by lands of Frederick South 78 degrees 13 minutes 54 seconds East 295.95' to a point set in line of lands of Springlawn Corporation. Thence by said lands the following 15 courses and distances to wit:

B 64 177

1 - South 46 degrees 25 minutes 26 seconds West 67.79' to a point
2 - South 55 degrees 03 minutes 26 seconds West 209.01' to an iron pin
3 - South 42 degrees 03 minutes 26 seconds West 268.73' to an iron pin
4 - South 39 degrees 04 minutes 26 seconds West 360.43' to an iron pin
5 - South 44 degrees 09 minutes 26 seconds West 227.40' to an iron pin
6 - South 46 degrees 15 minutes 26 seconds West 189.98' to an iron pin
7 - South 39 degrees 24 minutes 26 seconds West 214.76' to an iron pin
8 - South 38 degrees 02 minutes 26 seconds West 125.30' to an iron pin
9 - South 50 degrees 15 minutes 26 seconds West 90.78' to an iron pin
10 - South 47 degrees 49 minutes 26 seconds West 187.97' to an iron pin
11 - South 40 degrees 11 minutes 26 seconds West 155.16' to an iron pin
12 - South 57 degrees 31 minutes 26 seconds West 102.98' to an iron pin
13 - South 43 degrees 51 minutes 26 seconds West 242.61' to an iron pin
14 - South 47 degrees 27 minutes 26 seconds West 150.43' to an iron pin
15 - South 81 degrees 34 minutes 21 seconds West 321.87' to point and place of beginning.

CONTAINING 18.451 acres be the same more or less.

ALSO TOGETHER with the use of water rights right of way as granted to Springlawn Corporation by J. R. Frederick situate in Franklin Township described as follows.

BEGINNING at a point set in line of lands of Springlawn Corporation said point being set South 84 degrees 32 minutes 26 seconds West from an iron pin marking a corner of J. R. Frederick, Francis Hill, and Springlawn Corporation 49.42'; thence leaving said point of beginning and by lands of Springlawn Corporation the following two courses and distances to wit:

1 - South 84 degrees 32 minutes 26 seconds West 245.58' to a tree
2 - South 51 degrees 47 minutes 26 seconds West 135.09' to a point thence leaving said lands of Springlawn Corporation and passing through lands of J. R. Frederick the following five courses and distances to wit:

1 - North 44 degrees 25 minutes 26 seconds West 311.47' to a point
2 - North 73 degrees 27 minutes 56 seconds West 265.84' to a point
3 - North 17 degrees 21 minutes 26 seconds West 343.95' to a point
4 - North 13 degrees 13 minutes 34 seconds East 248.22' to a point
5 - North 20 degrees 01 minutes 26 seconds West 506.78' to a point set in the title line Pennsylvania Route 841 said road leading in an easterly direction to Pennsylvania Route 896 and a Westerly direction to Lewisville thence by the title line of said road north 76 degrees 00 minutes 34 seconds East 45.00' to a point set for a northeasterly corner of this; thence leaving said title line passing through lands of J. R. Frederick the following five courses and distances to wit:

1 - South 19 degrees 02 minutes 26 seconds East 583.01' to a point
2 - South 50 degrees 53 minutes 56 seconds East 383.69' to a point
3 - South 63 degrees 09 minutes 26 seconds East 346.11' to a point
4 - South 45 degrees 30 minutes 26 seconds East 174.22' to a point
5 - South 23 degrees 51 minutes 26 seconds East 193.10' to the point and place of beginning,

CONTAINING 8.260 acres be the same more or less.

EXCEPTING AND RESERVING thereout and therefrom 4.283 acres as granted and conveyed onto R. Nashuba in Deed Book U-30 page 471, S. Greene in Deed Book L-35 page 593, and K. Wells in Deed Book R-52 page 597, situate in Franklin Township, Chester County, Pennsylvania, bounded and described as follows to wit:

BEGINNING at a post set in the intersection of Public Road LR 15016 known as Strickersville Lewisville Road with Public Road T-356 known as Mt. Olivet Road said road leading in a northerly direction to Walker Road, said point being set the following eight courses and distances to wit from a spike set for a southwesterly corner of A. Del Duca and a corner of Springlawn Corporation said point being set in the title line of LR 15016.

1 - North 78 degrees 28 minutes 13 seconds West 520.54' to a point
2 - North 82 degrees 59 minutes 43 seconds West 470.28' to a point
3 - North 84 degrees 03 minutes 22 seconds West 119.76' to an old spike
4 - South 89 degrees 12 minutes 22 seconds West 118.24' to an old spike
5 - South 74 degrees 56 minutes 22 seconds West 83.82' to a point
6 - South 40 degrees 54 minutes 21 seconds West 9.31' to a point

7 - South 81 degrees 00 minutes 26 seconds West 38.37' to a point
8 - South 56 degrees 49 minutes 44 seconds West 22.86' to said post of beginning; thence leaving said post of beginning and by the title line of aforementioned Public Road LR 15016 the following five courses and distances to wit:

B 64 178

1 - South 44 degrees 57 minutes 36 seconds East 41.00' to a point
2 - South 49 degrees 48 minutes 58 seconds West 149.50' to a point
3 - South 43 degrees 10 minutes 10 seconds West 300.23' to a point
4 - South 75 degrees 48 minutes 56 seconds West 270.00' to a spike
5 - South 67 degrees 36 minutes 37 seconds West 244.60' to a point set in the centerline of a metal bridge; thence leaving said title line and by lands of Springlawn Corporation the following 11 courses and distances to wit:

1 - North 53 degrees 36 minutes 07 seconds East 44.00' to a point
2 - North 37 degrees 31 minutes 07 seconds East 43.00' to a point
3 - North 00 degrees 41 minutes 03 seconds East 30.00' to a point
4 - North 18 degrees 51 minutes 07 seconds East 15.00' to a point
5 - North 33 degrees 21 minutes 07 seconds East 25.00' to a point
6 - North 19 degrees 46 minutes 07 seconds East 52.00' to a point
7 - North 03 degrees 18 minutes 13 seconds West 48.70' to a point
8 - North 22 degrees 54 minutes 53 seconds West 131.82' to a point
9 - North 44 degrees 32 minutes 28 seconds East 90.80' to a post
10 - North 80 degrees 47 minutes 08 seconds East 88.07' to a point
11 - North 81 degrees 12 minutes 24 seconds East 588.35' to a post being the first mentioned point and place of beginning.

CONTAINING 4.283 acres be the same more or less.

ALSO EXCEPTING AND RESERVING thereout and therefrom 4.324 acres granted and conveyed to P. Rowland in Deed Book R-36 page 293, W. Worth in Deed Book W-23 page 234 and A. Jezyk in Deed Book Y-37 page 298 situate in Franklin Township, Chester County, Pennsylvania.

BEGINNING at a point set for a corner of this and set in the title line of Public Road LR-15016 known as Strickerville Lewisville Road said road leading in an easterly direction to Public Road LR-15020 and a westerly direction to Lewisville, said point of beginning being set the following two courses and distances from a spike set for a southwesterly corner of A. Del Duca to wit:

1 - North 78 degrees 28 minutes 13 seconds west 520.54' to a point
2 - North 82 degrees 59 minutes 43 seconds West 470.28' to said point of beginning; thence leaving said point of beginning and by lands of Springlawn Corporation the following four courses and distances to wit:

1 - South 7 degrees 31 minutes 13 seconds West 188.93' to an iron pin
2 - North 82 degrees 56 minutes 28 seconds West 221.17' to an iron pin
3 - North 52 degrees 17 minutes 38 seconds West 97.26' to an iron pin
4 - North 02 degrees 13 minutes 38 seconds West 82.65' to a point set in the title line of aforementioned Public Road LR-15016; thence by said title line South 81 degrees 00 minutes 26 seconds West 38.37' to a point set in the title line of Public Road T-356 known as Mt. Olivet Road, said road leading in a northerly direction to Public Road T-303; thence by the title line of Public Road T-356 North 03 degrees 21 minutes 04 seconds West 426.15' to a point set for a northwesterly corner of this and a corner of Springlawn Corporation thence by said lands of Springlawn Corporation the following two courses and distances to wit:

1 - South 75 degrees 33 minutes 04 seconds East 437.50' to an old iron pin
2 - South 07 degrees 06 minutes 56 seconds West 294.48' to the point and place of beginning.

CONTAINING 4.324 acres be the same more or less.

ALSO EXCEPTING AND RESERVING thereout and therefrom 5.005 acres granted and conveyed onto W. Worth in Deed Book X-29 page 565, and W. Worth in Deed Book W-35 page 576 situate in Elk Township, Chester County, Pennsylvania.

BEGINNING at a spike set for a northwesterly corner of this and a corner of Springlawn Corporation, said point being set in the title line of Public Road LR 15016 known as Lewisville Strickerville Road, said point being set north 73 degrees 49 minutes 15 seconds East from an iron pin marking the northeasterly corner of lands of R. M. Thompson 1213.79' to said point of beginning; thence leaving said point of beginning and by the title line the aforementioned Public Road LR 15016 the following two courses and distances to wit:

1 - North 77 degrees 38 minutes 22 seconds East 381.00' to a spike
2 - North 76 degrees 08 minutes 02 seconds East 271.17' to a spike marking a northeasterly corner of this and a corner of Springlawn Corporation; thence by said lands of Springlawn Corporation the following three courses and distances to wit:

1 - South 12 degrees 21 minutes 38 seconds East 314.52' to a point
2 - South 73 degrees 08 minutes 27 seconds West 654.09' to a post
3 - North 12 degrees 21 minutes 38 seconds West 358.50' to the point and place of beginning.

CONTAINING 5.005 acres be the same more or less.

B 64 179

PREMISES "B"

BEGINNING at a spike set in the title line of Public Road T-301 known as Elbow Lane leading in an westerly direction to Public Road LR-15020 and a easterly direction to Pennsylvania Route 896 said spikes marking a westerly corner of this about to be described tract; thence leaving spike of beginning and by the title line of Public Road T-301 the following eight courses and distances to wit:

1 - North 76 degrees 09 minutes 24 seconds East 876.50' to a spike
2 - North 75 degrees 56 minutes 00 seconds East 750.81' to a spike
3 - North 76 degrees 45 minutes 00 seconds East passing over the township line dividing London Britain and Franklin Township 360.17' to a spike.
4 - South 85 degrees 05 minutes 09 seconds East 300.21' to a spike
5 - South 54 degrees 58 minutes 30 seconds East 147.03' to a spike
6 - South 48 degrees 25 minutes 00 seconds East 496.85' to a spike
7 - South 86 degrees 36 minutes 30 seconds East 318.43' to a spike
8 - South 89 degrees 56 minutes 30 seconds East 814.80' to a spike marking an easterly corner of this; thence leaving said title line due south 15.61' to a milestone set on the line dividing the State of Pennsylvania from the State of Maryland; thence by said state line due west crossing over the township line dividing London Britain Township from Franklin Township 3453.74' to a spike being the first mentioned point and place of beginning.

CONTAINING 16.906 acres be the same more or less.

AS TO PREMISES "A"
BEING as to part the same premises which John P. F. Blackstone, Singleman by Deed dated April 17, 1948 and recorded in Chester County in Deed Book Q-24 page 101 conveyed unto Springlawn Corporation, (Pa. Corp.).

BEING as to another part the same premises which Richard T. Swan and Anne M. Swan, by Deed dated July 7, 1959 and recorded in Chester County in Deed Book G-31 page 394 conveyed unto Springlawn Corporation (Pa. Corp.).

AND BEING as to the remaining part, of the same premises which Center Square, Inc. by Deed dated December 27, 1946 and recorded in Chester County in Deed Book G-22 page 231 conveyed unto Springlawn Corporation, (Pa. Corp.).

AS TO PREMISES "B"
BEING part of the same premises which Center Square, Inc. by Deed dated December 27, 1946 and recorded in Chester County in Deed Book G-22 page 231 conveyed unto Springlawn Corporation, (Pa. Corp.).

UNDER AND SUBJECT to certain Reservations, Rights, Covenants, as of record.

BEING as to Premises A, Premises B, and the flooding rights as aforesaid the same premises which Springlawn Corporation, a Pennsylvania Corporation, conveyed unto George Strawbridge Jr., Individually, and Girard Bank, George Strawbridge, Sr., and Charles N. Morris, Jr., Trustees Under the Deed of Trust of George Strawbridge, Jr., Dated January 20, 1971: by Indenture dated the eighteenth day of October, 1978 and recorded in Chester County Deed Book W53 page 573.

AND BEING as to the flooding rights aforesaid the same premises which Delaware Trust Company, Jean Ellen duPont McConnell and William S. Potter, Trustees Under the Will of William duPont Jr., deceased, conveyed unto George Strawbridge Jr., Individually and Girard Bank, George Strawbridge, Sr., and Charles N. Morris, Jr., Trustees under the Deed of Trust of George Strawbridge Jr., dated January 20, 1971; by Indenture dated the twentieth of November, 1978 and recorded in Chester County Deed Book E54 page 291.

Rec in Chester Co. Pa
in Deed Bk # B64
Pg 175
Elaine S. Weil
Recorder of Deeds

RECORDER'S OFFICE CHESTER COUNTY, PA

B 64 180

REV-183 FD (7-80)

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF REVENUE
BUREAU OF FIELD OPERATIONS

REALTY TRANSFER TAX
AFFIDAVIT OF VALUE

B 025-172nd

FOR RECORDER'S USE ONLY
BOOK NUMBER 1964
PAGE NUMBER 1103
DATE RECORDED 5/23/84

COMPLETE APPLICABLE SECTIONS IN FULL AND FILE IN DUPLICATE WITH RECORDER OF DEEDS WHEN (1) THE FULL CONSIDERATION IS NOT SET FORTH IN THE DEED, (2) THE TRANSFER IS WITHOUT CONSIDERATION OR A GIFT, OR (3) A TAX EXEMPTION IS CLAIMED. (REFER SECT. 8, RTT ACT OF DEC. 27, 1951, P.L. 1742 AS AMENDED)

SECTION I
(COMPLETE FOR ALL TRANSACTIONS)

Girard Bank, George Strawbridge, Sr. Trustees u/d 1/20/71 — GRANTOR (S)
Broad & Chestnut Streets, Phila., PA 19101 — ADDRESS, ZIP CODE

Delaware Trust Co., George Strawbridge, Sr. & William C. Lickle, Trustees u/d 1/20/71 — GRANTEE (S)
Market Street Mall, Wilmington, DE 19801 — ADDRESS, ZIP CODE

LOCATION OF LAND, TENEMENTS AND HEREDITAMENTS:

30% interest 1688 acres — R.D. STREET & NUMBER OR OTHER DESCRIPTION
London, Britain, Franklin & Elk — NAME OF LOCAL GOVERNMENTAL UNIT
Chester County — COUNTY

FULL CONSIDERATION $ -0-
HIGHEST ASSESSED VALUE $ 158140.00
FAIR MARKET VALUE $ 825,000.00
REALTY TRANSFER TAX PAID $

TAX EXEMPT TRANSACTIONS: IF TRANSFER IS PARTIALLY OR WHOLLY EXEMPT, SHOW AMOUNT EXEMPT, REASON (S) AND CITE PORTION OF LAW. This is a transfer by law from one set of trustees to new trustees under same deed of trust.

IF THIS IS A TRANSFER FROM A STRAW, AGENT OR TRUST AGREEMENT, COMPLETE THE REVERSE SIDE.

SECTION II
(COMPLETE ONLY IF PROPERTY WAS SUBJECT TO LIEN OR MORTGAGE AT THE TIME OF TRANSFER)

EXISTING MORTGAGE: $ ~~510,000.00~~ DISPOSITION
Delaware Trust Co., Trustee — MORTGAGEE
Market Street Mall, Wilmington, DE 19801 — ADDRESS

EXISTING MORTGAGE: $ DISPOSITION
MORTGAGEE — ADDRESS

EXISTING LIEN OR OBLIGATION: $ DISPOSITION
LIENHOLDER — ADDRESS

EXISTING LIEN OR OBLIGATION: $ DISPOSITION
LIENHOLDER — ADDRESS

SECTION III
(COMPLETE ONLY IF TRANSFER IS RESULT OF JUDICIAL SALE)

OFFICIAL CONDUCTING SALE — NAME, ADDRESS, TITLE
SUCCESSFUL BIDDER — NAME, ADDRESS, TITLE

	JUDGEMENT PLUS PRIOR LIENS	BID PRICE	HIGHEST ASSESSED VALUE
HIGHEST ASSESSED VALUE			$
JUDGEMENT PLUS INTEREST	$		
BID PRICE		$	
PRIOR RECORDED LIEN	$	$	
PRIOR RECORDED MORTGAGE	$	$	
PRIOR RECORDED MORTGAGE	$	$	
UNPAID REAL ESTATE TAXES	$	$	
WATER RENT DUE	$	$	
SEWAGE RENT DUE	$	$	
ATTORNEY FEES	$	$	
OTHER (COSTS, ETC.)	$	$	
TOTAL	$	$	

NOTE: CALCULATIONS MUST BE SHOWN IN ALL COLUMNS.

SWORN AND SUBSCRIBED BEFORE ME THIS 15th DAY OF August 19 84
Nita Goodilow
NOTARY PUBLIC
MY COMMISSION EXPIRES
NITA GOODILOW
Notary Public, Phila., Phila. Co.
My Commission Expires Sept. 17, 1987

ALL OF THE INFORMATION ENTERED ON BOTH SIDES OF THIS AFFIDAVIT IS TRUE, FULL AND COMPLETE TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF.

Henry T. Dunn

☐ GRANTEE ☒ AGENT FOR GRANTEE
☐ GRANTOR ☐ AGENT FOR GRANTOR
☐ STRAW ☐ TRUSTEE

B 64 187

Tax Parcel # 72-6-1 & Part of 71-4-32

Prepared By: Benjamin J. Berger
Prickett, Jones, Elliott, Kristol & Schnee
1310 King Street, P.O. Box 1328
Wilmington, DE 19899

Return to:
Prickett, Jones, Elliott, Kristol & Schnee
1310 King Street, P.O. Box 1328
Wilmington, DE 19899

INDIVIDUAL DEED

THIS DEED, MADE THIS 31st day of **March** in the year of our LORD one thousand nine hundred and ninety-seven (1997).

BETWEEN **Jane F. Trimble**, party of the first part,

- A N D -

George Strawbridge, Jr., party of the second part,

WITNESSETH, that the said party of the first part for and in consideration of the sum of **TWO HUNDRED SIXTY NINE THOUSAND NINE HUNDRED DOLLARS AND 00 CENTS ($269,900.00)**, lawful money of the United States of America, the receipt whereof is hereby acknowledged, hereby grants and conveys unto the said party of the second part, His Heirs and Assigns.

ALL that certain tract of ground, situate in New London and Franklin Townships, Chester County, State of Pennsylvania, and being more particularly bounded and described in accordance with a Plan prepared by George E. Regester, Jr. & Sons, Inc., dated September 1, 1982, as follows, to-wit:

BEGINNING at a point in the bed of Public Road TR841 known as Lewisville-Chesterville Road, said road leading in an Easterly direction to Chesterville and in a Southerly direction to Lewisville, said point of Beginning marking a corner of this about to be described tract and a corner of other lands of J. Robert Frederick, being Parcel A on said Plan, said point of Beginning being the following three (3) described courses and distances to wit along the Lewisville-Chesterville Road from a point marking a corner of said Parcel A and a corner of lands now or formerly of Charles G. Woods: (1) North 80 degrees 12 minutes 00 seconds East, 129.48 feet to a point; (2) North 55 degrees 56 minutes 00 seconds East, 366.29 feet to a point; and (3) North 73 degrees 18 minutes 00 seconds East, 340.81 feet to said point of Beginning; thence leaving said point of Beginning and continuing along said Lewisville-Chesterville Road, North 73 degrees 18 minutes 00 seconds East, 265.91 feet to a point marking a corner of this and a corner of other lands now or formerly of J. Robert Frederick; thence leaving said Lewisville-Chesterville Road and along said other lands now or formerly of J. Robert Frederick, South 31 degrees 19 minutes 00 seconds East, crossing the township line dividing New London Township from Franklin Township, 1605.87 feet to a point marking a corner of this and a corner of lands of George Strawbridge, Jr., thence along said lands now or formerly of George Strawbridge, Jr., South 47 degrees 01 minute 00 seconds West, 790.69 feet to a point in the bed of the Big Elk Creek marking a corner of this, a corner of said lands now or formerly of George Strawbridge, Jr., and a corner of lands now or formerly of Louis T. Staats, Jr.; thence along said lands now or formerly of Louis T. Staats, Jr., North 77 degrees 37 minutes 30 seconds West, recrossing the aforementioned township line dividing New London Township from Franklin Township, 804.30 feet to a point marking a corner of this and a corner of the aforementioned lands now or formerly of Charles G. Woods, North 04 degrees 10 minutes 00 seconds West, 667.00 feet to a point marking a corner of this and a corner of the aforementioned Parcel A; thence along said Parcel A, the following two (2) described courses and distances, to-wit: (1) South 74 degrees 00 minutes 00 seconds West, 476.33 feet to a point; and (2) South 09 degrees 00 minutes 00 seconds East, 881.53 feet to the first mentioned point and place of **BEGINNING**. Be the contents thereof what they may.

EXCEPTING THEREOUT AND THEREFROM all that certain premises which J. Robert Frederick and Marion B. Frederick, his wife, by Deed dated October 3, 1984, of record in the Office of the Recorder of Deeds, in and for Chester County and Commonwealth of Pennsylvania, in Deed Book Z-64, Page 132, did grant and convey unto Department of Transportation, in fee.

SUBJECT to Rights as granted to Southern Pennsylvania Power Company, of record in the Office of the Recorder of Deeds, in and for Commonwealth of Pennsylvania, in Deed Book 86, Page 43.

BEING a part of the same lands and premises which J. Robert Frederick, Executor of the Estate of Marion B. Frederick, deceased, by Deed dated July 15, 1989, of record in the Office of the Recorder of Deeds, in and for Chester County and Commonwealth of Pennsylvania, in Deed Book 1631, Page 290, did grant and convey unto Jane F. Trimble, in fee. (As to a one-half interest therein).

BK1158PG1495

BEING a part of the same lands and premises which J. Robert Frederick, Executor of the Estate of Marion B. Frederick, deceased, by Deed dated July 25, 1989, of record in the Office of the Recorder of Deeds, in and for Chester County and Commonwealth of Pennsylvania, in Deed Book 1631, Page 299, did grant and convey unto J. Robert Frederick and Jane F. Trimble, as joint tenants with right of survivorship, in fee. (As to the remaining one-half interest therein).

AND the said J. Robert Frederick, did depart this life on or about February 8, 1993, leaving a will dated June 22, 1982, duly probated April 19, 1993 and remaining of record in the Office of the Register of Wills, in and for Chester County and Commonwealth of Pennsylvania, File No. 15-93-0467, wherein he appointed Jane F. Trimble and David L. Myers, Executor to whom Letters Testamentary were granted.

TOGETHER with all and singular the buildings improvements, ways, streets, alleys, driveways, passages, waters, water-courses, rights, liberties, privileges, hereditaments and appurtenances, whatsoever unto the hereby granted premises belonging, or in anywise appertaining, and the reversions and remainders, rents, issues, and profits thereof; and all the estate, right, title, interest, property, claim and demand whatsoever of the said grantors, as well as law as in equity, of, in and to the same.

TO HAVE AND TO HOLD the said lot or piece of ground described hereditaments and premises hereby granted, or mentioned and intended to be so, with the appurtenances, unto the said Grantee, his heirs and assigns, to and for the only proper use and behoof of the said Grantee, his heirs and assigns, forever.

AND the said Grantors, their heirs, successors, executors and administrators do covenant, promise and agree, to and with the said Grantee, his heirs and assigns, by these presents, that the said Grantors and their heirs, all and singular the hereditaments and premises hereby granted or mentioned and intended so to be, with appurtenances, unto the said Grantee, his heirs and assigns, against the said Grantors and their heirs, and against all and every person and persons whosever lawfully claiming or to claim the same or any part thereof, by, from or under or any of them, shall and will

Transfer tax for Franklin and New London Townships are based on $8000.90 per acre.

Franklin Township = $8000.90 x 14.4 acres = $115,328.16 or $1,153.28 in transfer tax.

New London Township = $8000.90 x 19.3 acres = $154,571.77 or $1,545.72 in transfer tax.

BK4158PG1496

Grantees Address:
2003 Chesterville Road
Lincoln University,PA 19352

Grantees Address:
3801 Kennett Pike
Wilmington, DE 19807

BEING a part of the same lands and premises which J. Robert Frederick, Executor of the Estate of Marion B. Frederick, deceased, by Deed dated July 15, 1989, of record in the Office of the Recorder of Deeds, in and for Chester County and Commonwealth of Pennsylvania, in Deed Book 1631, Page 290, did grant and convey unto Jane F. Trimble. in fee. (As to a one-half interest therein).

BEING a part of the same lands and premises which J. Robert Frederick, Executor of the Estate of Marion B. Frederick, deceased, by Deed dated July 25, 1989, of record in the Office of the Recorder of Deeds, in and for Chester County and Commonwealth of Pennsylvania, in Deed Book 1631, Page 299, did grant and convey unto J. Robert Frederick and Jane F. Trimble, as joint tenants with right of survivorship, in fee. (As to the remaining one-half interest therein).

AND the said J. Robert Frederick, did depart this life on or about February 8, 1993, leaving a will dated June 22, 1982, duly probated April 19, 1993 and remaining of record in the Office of the Register of Wills, in and for Chester County and Commonwealth of Pennsylvania, File No. 15-93-0467, wherein he appointed Jane F. Trimble and David L. Myers, Executor to whom Letters Testamentary were granted.

BK1158PG1497

IN WITNESS WHEREOF, the said party of the first part has put her hand and seal the day and year first above written.

SEALED AND DELIVERED IN THE PRESENCE OF:

Witness } Jane F. Trimble (SEAL)

Witness } (SEAL)

STATE OF PENNSYLVANIA }
} SS.
COUNTY OF CHESTER }

BE IT REMEMBERED, that on this 31st day of March in the year of our **LORD** one thousand nine hundred and ninety-seven (1997) personally came before me, the Subscriber, a Notary Public for the State and County aforesaid, Jane F. Trimble, party to this Indenture, known to me personally to be such, and acknowledged this Indenture to be her act and Deed.

GIVEN under my Hand and Seal of Office, the day and year aforesaid.

My Commission Expires:
December 16, 2001

~~Notary Public~~
Commissioner of Deeds

BK4158PG1498

THIS DEED
PREPARED BY

PRICKETT
JONES
ELLIOTT
KRISTOL
&
SCHNEE

RETURN TO

1310 KING STREET
P.O. BOX 1328
WILMINGTON, DE 19899
(302) 888-6500

DEED

Received for Record

A.D., 19

Recorder

Fee for Recording, &c., $

State of Delaware,)
) ss.
County)

Recorded in the Office for the Recording of Deeds, &c., at ..... in and for the said County of ..... in Deed Record ..... Vol. .....Page ..... &c. the ..... day of ..... A.D. 19....
WITNESS my Hand and the Seal of said Office.

.....
Recorder.

RECORDER OF DEEDS

17229

DATE: 04/02/1997 TIME: 11:33A INST NO.: 17229

CHESTER COUNTY, PA
OFFICE OF THE RECORDER OF DEEDS

RECEIPT NO : 008547 TYPE DOC : DEED
REC FEE : 13.00
LOC RTT : 1545.72
ST RTT : 2699.00
WRIT TAX : 0.50
DATE: 04/02/1997 TIME: 11:33A INST NO.:

CHESTER COUNTY, PA
OFFICE OF THE RECORDER OF DEEDS

RECEIPT NO : 008547 TYPE DOC : HOUSING
REC FEE : 13.00
LOC RTT : 0.00
ST RTT : 0.00
WRIT TAX : 0.00
DATE: 04/02/1997 TIME: 11:33A INST NO.: R17229

CHESTER COUNTY, PA
OFFICE OF THE RECORDER OF DEEDS

RECEIPT NO : 008547 TYPE DOC : DEED
REC FEE : 0.00
LOC RTT : 1153.28
ST RTT : 0.00
WRIT TAX : 0.00
DATE: 04/02/1997 TIME: 11:33A INST NO.:

CHESTER COUNTY, PA
OFFICE OF THE RECORDER OF DEEDS

RECEIPT NO : 008547 TYPE DOC : HOUSING
REC FEE : 0.00
LOC RTT : 0.00
ST RTT : 0.00
WRIT TAX : 0.00

BK4158PG1499

APPENDIX D

SANBORN FIRE INSURANCE MAPS
NO COVERAGE REPORT

Fire Insurance Maps No Coverage Statement

Site Location
Strawbridge II Property
99 Bullock Road
Landenberg, PA

Requested by
Envirosite Corporation
1175 Post Road E
Westport, CT

HIG Project #
2006959
Client Project #
17-1726.A
Date Created
06/20/2017

Historical Information Gatherers

The HIG Historical Map Collection and the United States Library of Congress Map Collection were searched for fire insurance maps (FIM), real estate atlases and similar maps for the site location and adjoining properties. No FIMs or similar maps were identified for the site location and/or adjacent properties.

APPENDIX E

HISTORICAL AERIAL PHOTOGRAPHS

ENVIROSITE Corporation

Historical Aerial Photo Report | 2017

Order Number: 13094
Report Generated: 06/21/2017

Project Name: Strawbridge II Property
Project Number: 17-1726.A

Strawbridge II Property
99 Bullock Road
Landenberg, PA 19350

1175 Post Road East
Westport, CT 06880
Toll Free: 866-211-2028
www.envirositecorp.com

Envirosite's Aerial Report is designed to assist in evaluating a subject property resulting from past activities. Envirosite's Aerial Map Report includes a search of USGS historical aerial maps, dating back to the early 1900s.

ENVIROSITE SEARCHED SOURCES

SUBJECT PROPERTY:
Strawbridge II Property
99 Bullock Road
Landenberg, PA 19350

YEAR:	*SCALE:*	*SOURCE:*
1952	1" = 1,000'	U.S.G.S.
1968	1" = 1,000'	U.S.G.S.
1976	1" = 1,000'	U.S.G.S.
1982	1" = 1,000'	U.S.G.S.
1987	1" = 1,000'	U.S.G.S.
1992	1" = 1,000'	U.S.G.S.
1999	1" = 1,000'	U.S.G.S.
2008	1" = 1,000'	U.S.G.S.
2011	1" = 1,000'	U.S.G.S.
2015	1" = 1,000'	U.S.G.S.

OBTAINED BY OFFICE OF
STATE REPRESENTATIVE JOHN LAWRENCE
WEST GROVE PA
FEBRUARY 5 2024

AERIAL PHOTO

FLIGHT YEAR:
1952

N
W E
S

Scale: 1” = 1,000’

OBTAINED BY OFFICE OF
STATE REPRESENTATIVE JOHN LAWRENCE
WEST GROVE PA
FEBRUARY 5 2024

AERIAL PHOTO

FLIGHT YEAR:
1968

N
W E
S

Scale: 1” = 1,000’

OBTAINED BY OFFICE OF
STATE REPRESENTATIVE JOHN LAWRENCE
WEST GROVE PA
FEBRUARY 5 2024

AERIAL PHOTO

FLIGHT YEAR:
1976

N
W E
S

Scale: 1” = 1,000’

OBTAINED BY OFFICE OF
STATE REPRESENTATIVE JOHN LAWRENCE
WEST GROVE PA
FEBRUARY 5 2024

AERIAL PHOTO

FLIGHT YEAR:
1982

N
W E
S

Scale: 1" = 1,000'

OBTAINED BY OFFICE OF
STATE REPRESENTATIVE JOHN LAWRENCE
WEST GROVE PA
FEBRUARY 5 2024

AERIAL PHOTO

FLIGHT YEAR:
1987

N
W E
S

Scale: 1” = 1,000’

OBTAINED BY OFFICE OF
STATE REPRESENTATIVE JOHN LAWRENCE
WEST GROVE PA
FEBRUARY 5 2024

AERIAL PHOTO

FLIGHT YEAR:
1992

N
W E
S

Scale: 1” = 1,000’

OBTAINED BY OFFICE OF
STATE REPRESENTATIVE JOHN LAWRENCE
WEST GROVE PA
FEBRUARY 5 2024

AERIAL PHOTO

FLIGHT YEAR:
1999

N
W E
S

Scale: 1” = 1,000’

OBTAINED BY OFFICE OF
STATE REPRESENTATIVE JOHN LAWRENCE
WEST GROVE PA
FEBRUARY 5 2024

AERIAL PHOTO

FLIGHT YEAR:
2004

N
W E
S

Scale: 1” = 1,000’

OBTAINED BY OFFICE OF
STATE REPRESENTATIVE JOHN LAWRENCE
WEST GROVE PA
FEBRUARY 5 2024

AERIAL PHOTO

FLIGHT YEAR:
2008

N
W E
S

Scale: 1” = 1,000’

OBTAINED BY OFFICE OF
STATE REPRESENTATIVE JOHN LAWRENCE
WEST GROVE PA
FEBRUARY 5 2024

AERIAL PHOTO

FLIGHT YEAR:
2011

N
W E
S

Scale: 1” = 1,000’

OBTAINED BY OFFICE OF
STATE REPRESENTATIVE JOHN LAWRENCE
WEST GROVE PA
FEBRUARY 5 2024

AERIAL PHOTO

FLIGHT YEAR:
2015

N
W E
S

Scale: 1” = 1,000’

APPENDIX F

HISTORICAL TOPOGRAPHIC MAPS

ENVIROSITE Corporation

Historical Topographic Map Report | 2017

Order Number: 13094

Report Generated: 06/19/2017

Project Name: Strawbridge II Property

Project Number: 17-1726.A

Strawbridge II Property
99 Bullock Road
Landenberg, PA 19350

1175 Post Road East
Westport, CT 06880
Toll Free: 866-211-2028
www.envirositecorp.com

Envirosite's Historical Topographic Map Report is designed to assist in evaluating a subject property resulting from past activities. Envirosite's Historical Topographic Map Report includes a search of USGS historical topographic maps, dating back to the early 1900s.

TOPOGRAPHIC MAPS FOUND:

	Map Name:	Year:	Revision Year:	Scale:	Series:
1.	Elkton	1898	N/R	1 : 62500	7.5
2.	Elkton	1900	N/R	1 : 62500	7.5
3.	Elkton	1917	N/R	1 : 62500	7.5
4.	Elkton	1942	N/R	1 : 62500	7.5
5.	Bay View	1953	1970	1 : 24000	7.5
6.	Bay View	1953	N/R	1 : 24000	7.5
7.	Newark West	1953	N/R	1 : 24000	7.5
8.	Newark West	1953	1970	1 : 24000	7.5
9.	Bay View	1992	N/R	1 : 24000	7.5
10.	Newark West	1992	N/R	1 : 24000	7.5
11.	Bay View	1997	N/R	1 : 24000	7.5
12.	Bay_View	2011	N/R	1 : 24000	7.5
13.	Newark_West	2011	N/R	1 : 24000	7.5
14.	Bay_View	2014	N/R	1 : 24000	7.5
15.	Newark_West	2014	N/R	1 : 24000	7.5
16.	Bay_View	2016	N/R	1 : 24000	7.5
17.	Newark_West	2016	N/R	1 : 24000	7.5

SUBJECT NAME: Strawbridge II Property
ADDRESS: 99 Ballock Road Landenberg, PA 19350
LAT/LONG: 39.735822 / -75.858291

PREPARED FOR: Ten Bears Environmental Associates Co
ORDER #: 13094
REPORT DATE: 06/19/2017

SUBJECT QUAD:

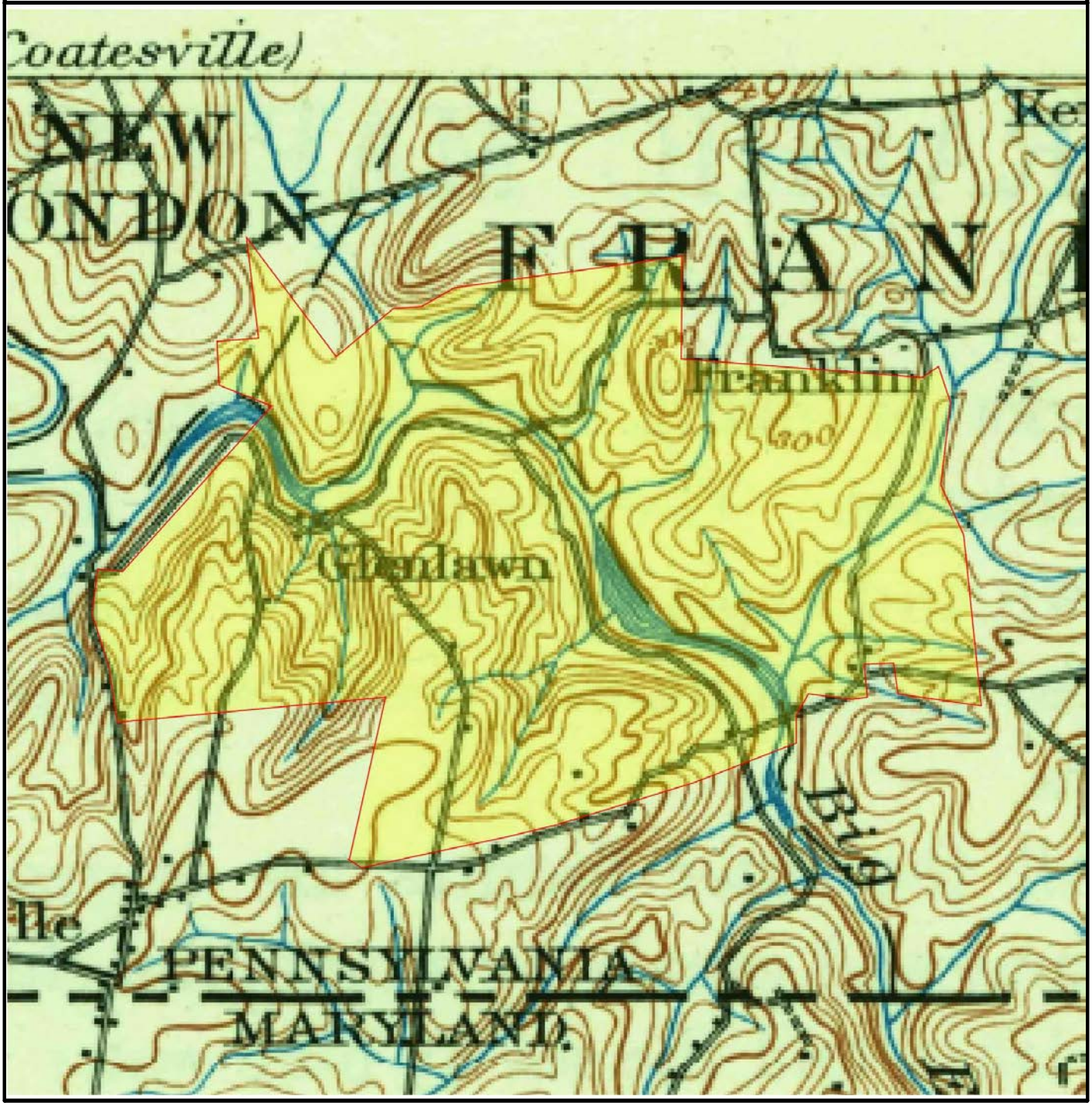
MAP NAME:	Elkton	MAP YEAR:	1898	REVISION YEAR:	N/R
SERIES:	7.5	SCALE:	1 : 62500	Part	1

SUBJECT NAME: Strawbridge II Property
ADDRESS: 99 Bullock Road Landenberg, PA 19350
LAT/LONG: 39.735822 / -75.858291

PREPARED FOR: Ten Bears Environmental Associates Co
ORDER #: 13094
REPORT DATE: 06/19/2017

SUBJECT QUAD:

MAP NAME:	Elkton	MAP YEAR:	1900	REVISION YEAR:	N/R
SERIES:	7.5	SCALE:	1 : 62500	Part	1



SUBJECT NAME: Strawbridge II Property
ADDRESS: 99 Bullock Road Landenberg, PA 19350
LAT/LONG: 39.735822 / -75.858291

PREPARED FOR: Ten Bears Environmental Associates Co
ORDER #: 13094
REPORT DATE: 06/19/2017

SUBJECT QUAD:

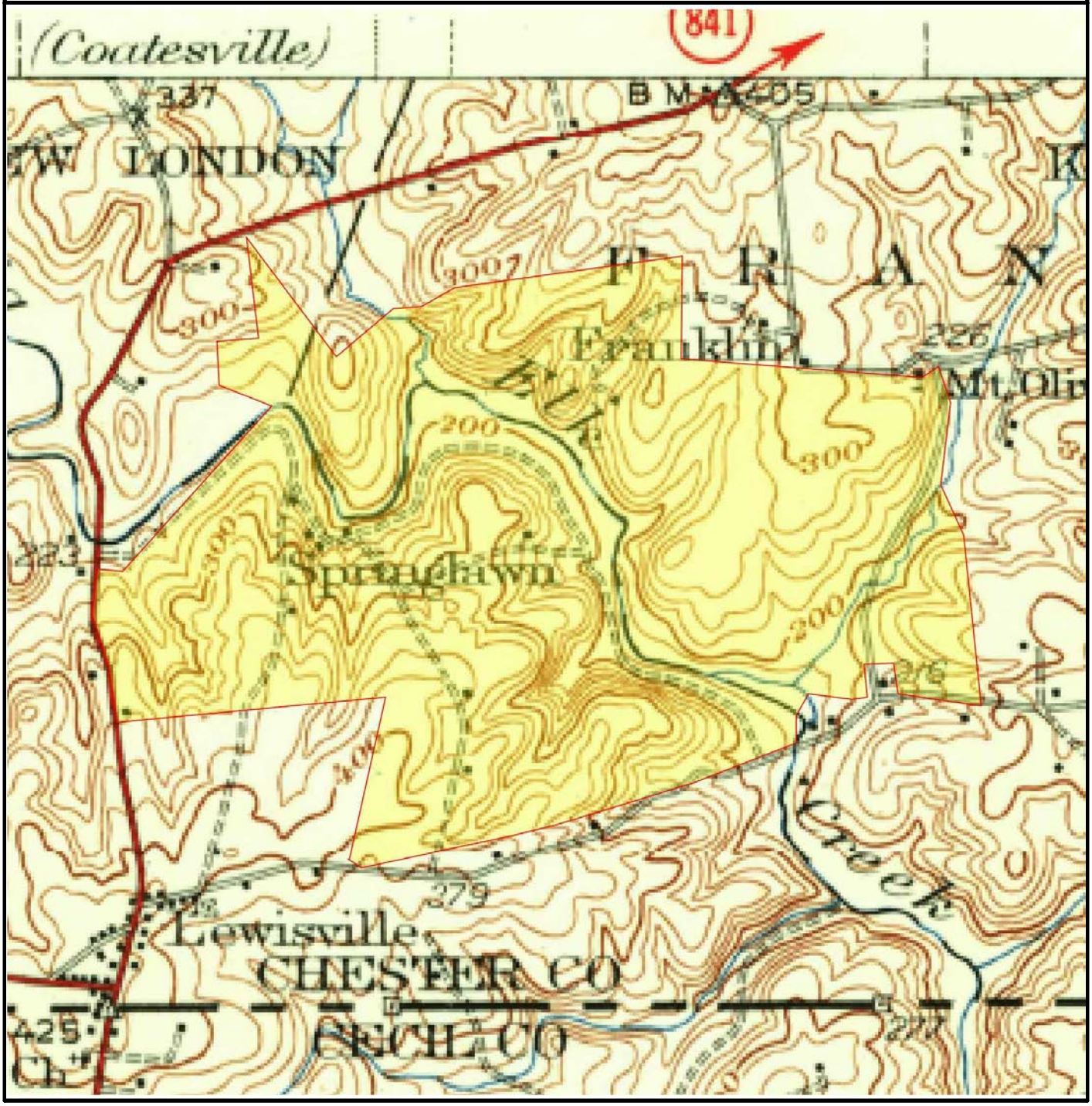
MAP NAME:	Elkton	MAP YEAR:	1917	REVISION YEAR:	N/R
SERIES:	7.5	SCALE:	1 : 62500	Part	1

SUBJECT NAME: Strawbridge II Property
ADDRESS: 99 Bullock Road Landenberg, PA 19350
LAT/LONG: 39.735822 / -75.858291

PREPARED FOR: Ten Bears Environmental Associates Co
ORDER #: 13094
REPORT DATE: 06/19/2017

SUBJECT QUAD:

MAP NAME:	Elkton	MAP YEAR:	1942	REVISION YEAR:	N/R
SERIES:	7.5	SCALE:	1 : 62500	Part	1

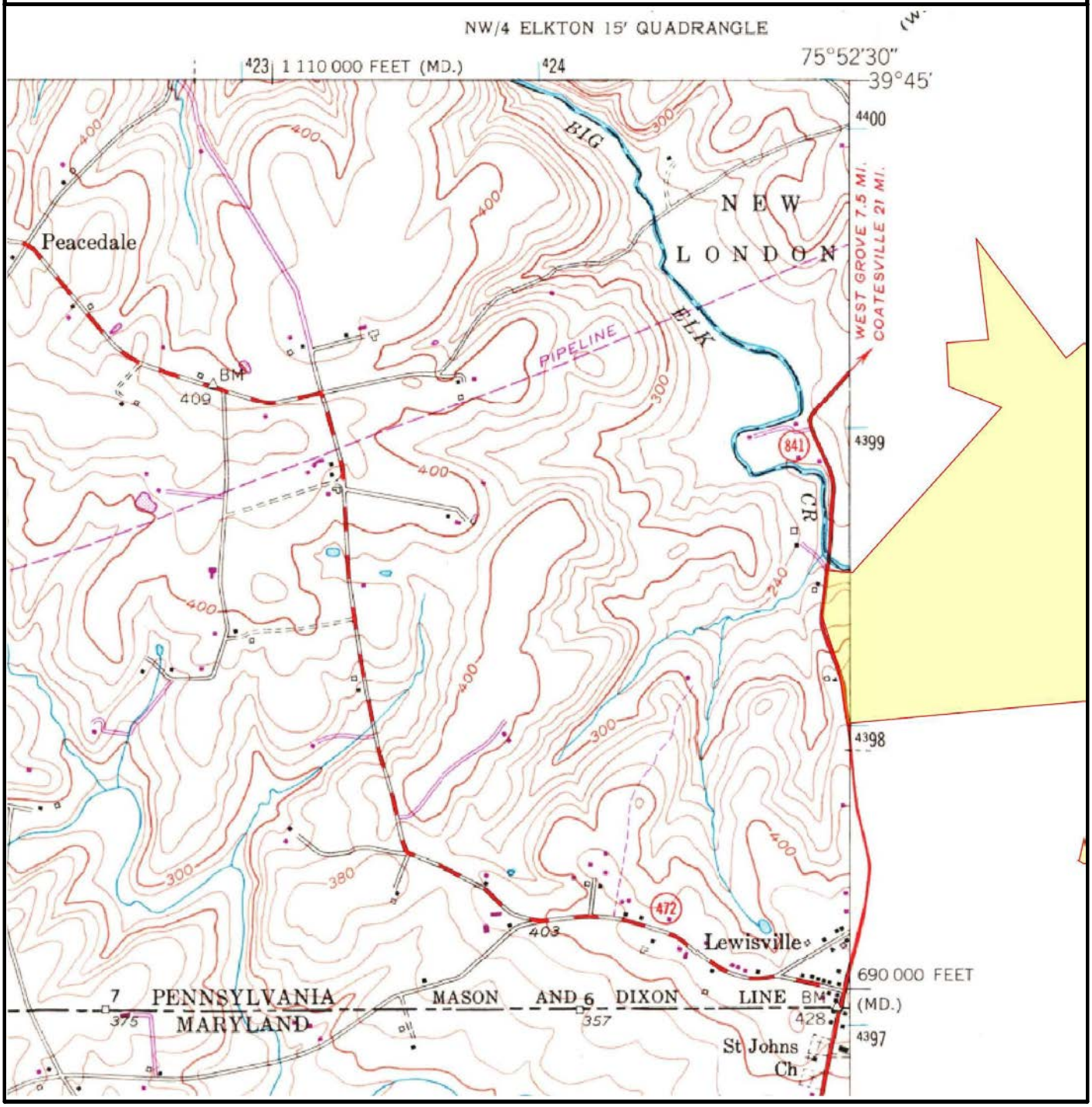


SUBJECT NAME: Strawbridge II Property
ADDRESS: 99 Bullock Road Landenberg, PA 19350
LAT/LONG: 39.735822 / -75.858291

PREPARED FOR: Ten Bears Environmental Associates Co
ORDER #: 13094
REPORT DATE: 06/19/2017

SUBJECT QUAD:

MAP NAME:	Bay View	MAP YEAR:	1953	REVISION YEAR:	1970
SERIES:	7.5	SCALE:	1 : 24000	Part	1

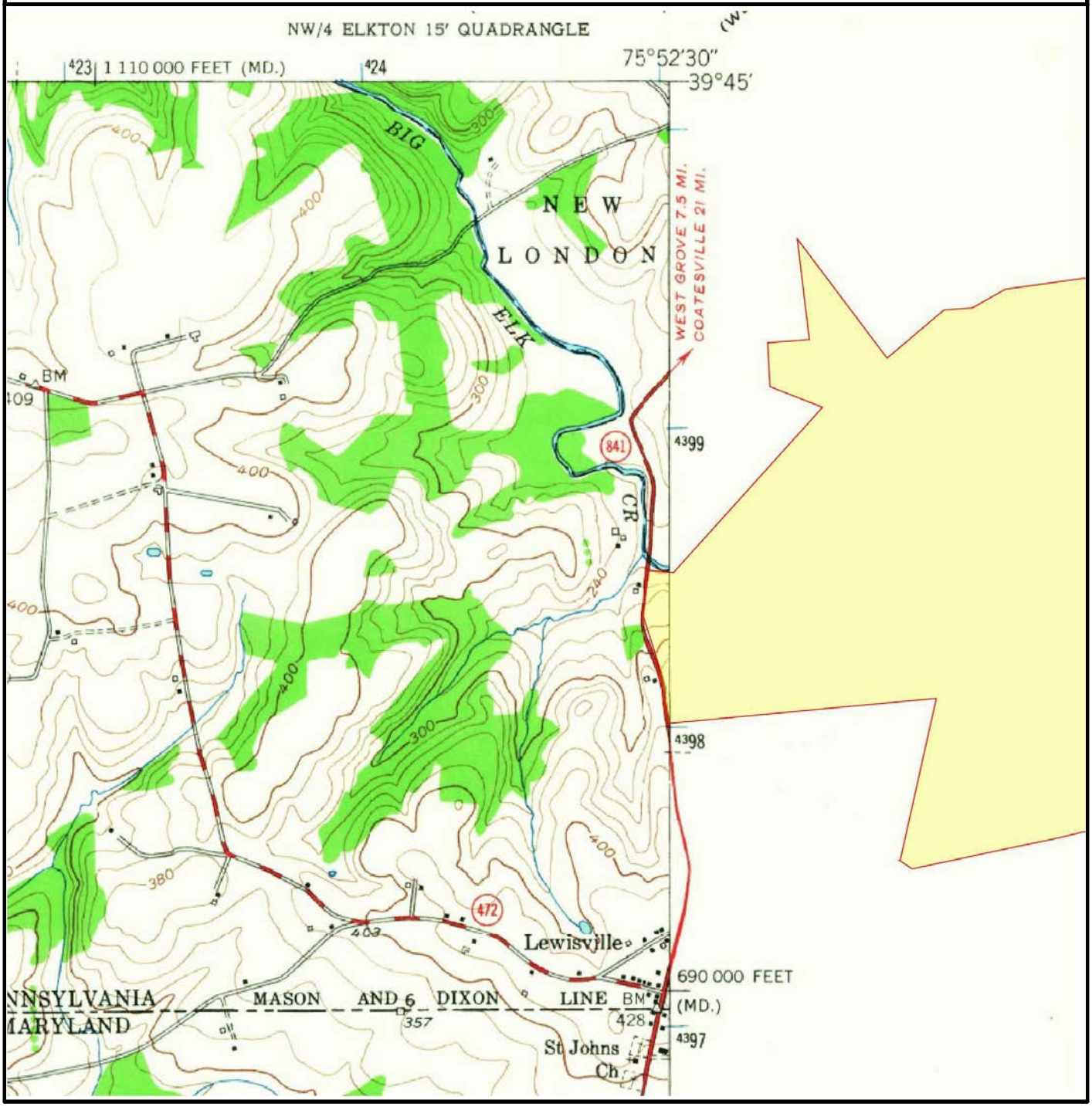


SUBJECT NAME: Strawbridge II Property
ADDRESS: 99 Bullock Road Landenberg, PA 19350
LAT/LONG: 39.735822 / -75.858291

PREPARED FOR: Ten Bears Environmental Associates Co
ORDER #: 13094
REPORT DATE: 06/19/2017

SUBJECT QUAD:

MAP NAME:	Bay View	MAP YEAR:	1953	REVISION YEAR:	N/R
SERIES:	7.5	SCALE:	1 : 24000	Part	1

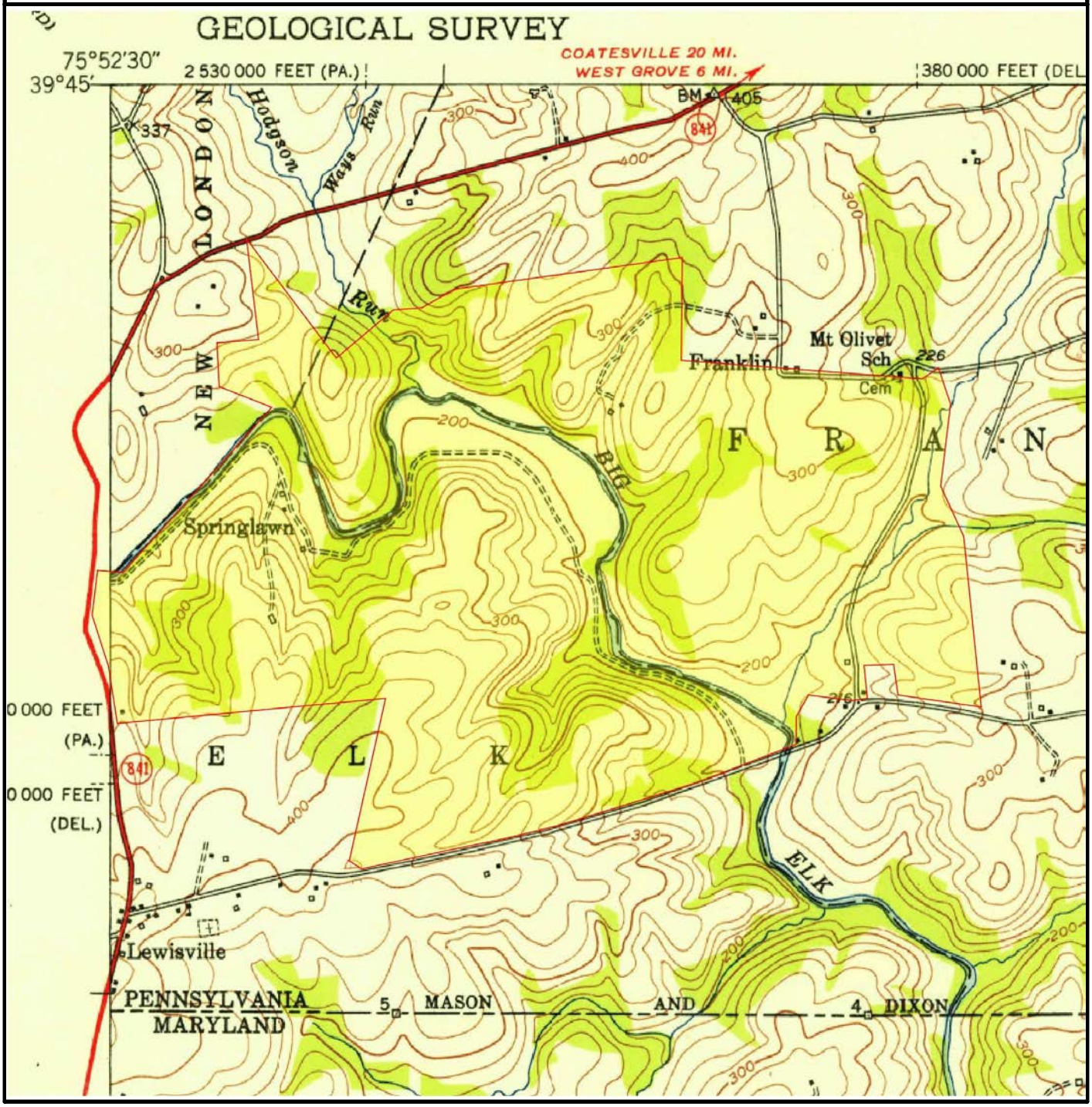


SUBJECT NAME: Strawbridge II Property
ADDRESS: 99 Bullock Road Landenberg, PA 19350
LAT/LONG: 39.735822 / -75.858291

PREPARED FOR: Ten Bears Environmental Associates Co
ORDER #: 13094
REPORT DATE: 06/19/2017

SUBJECT QUAD:

MAP NAME:	Newark West	MAP YEAR:	1953	REVISION YEAR:	N/R
SERIES:	7.5	SCALE:	1 : 24000	Part	1

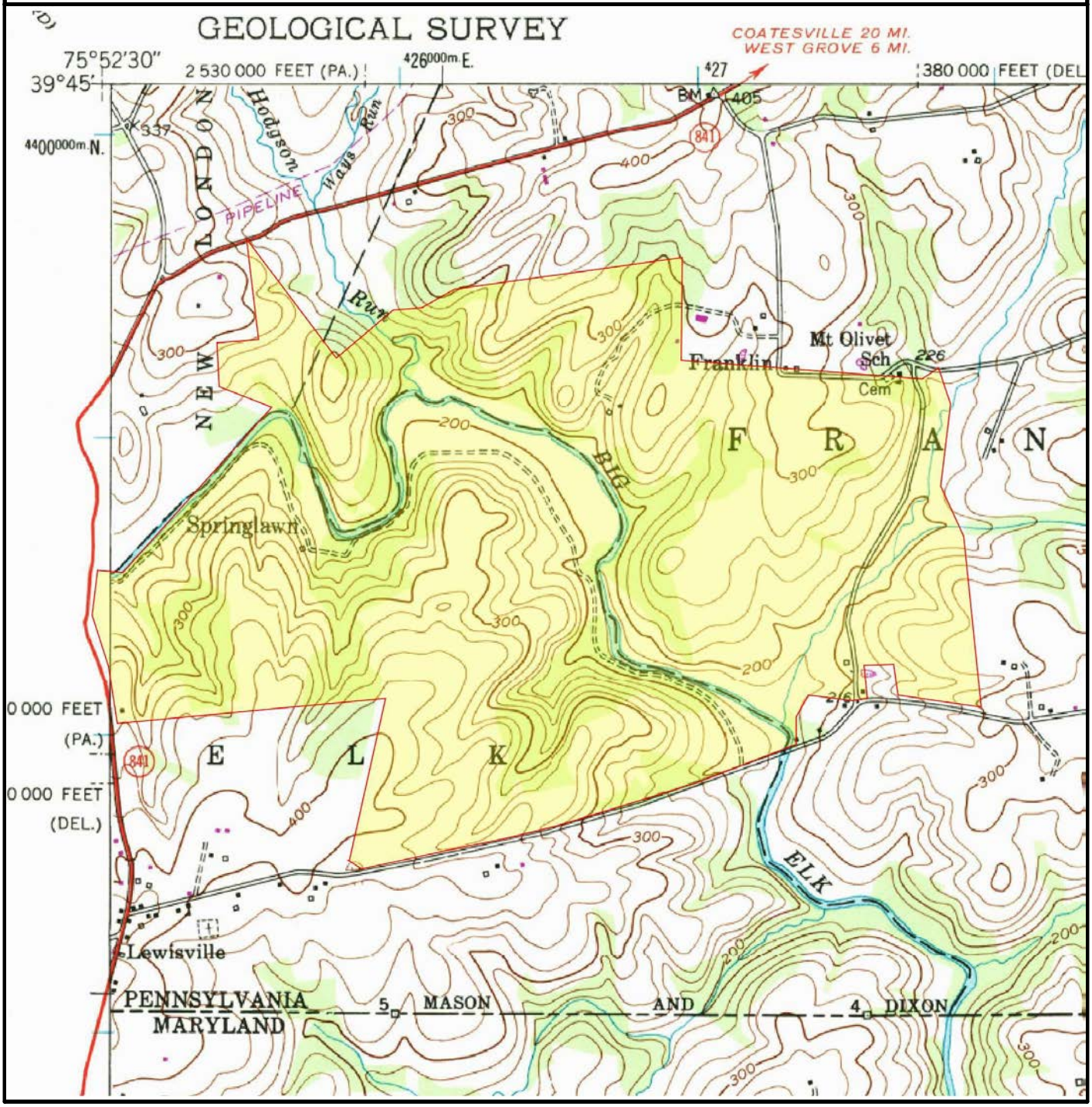


SUBJECT NAME: Strawbridge II Property
ADDRESS: 99 Ballock Road Landenberg, PA 19350
LAT/LONG: 39.735822 / -75.858291

PREPARED FOR: Ten Bears Environmental Associates Co
ORDER #: 13094
REPORT DATE: 06/19/2017

SUBJECT QUAD:

MAP NAME:	Newark West	MAP YEAR:	1953	REVISION YEAR:	1970
SERIES:	7.5	SCALE:	1 : 24000	Part	1

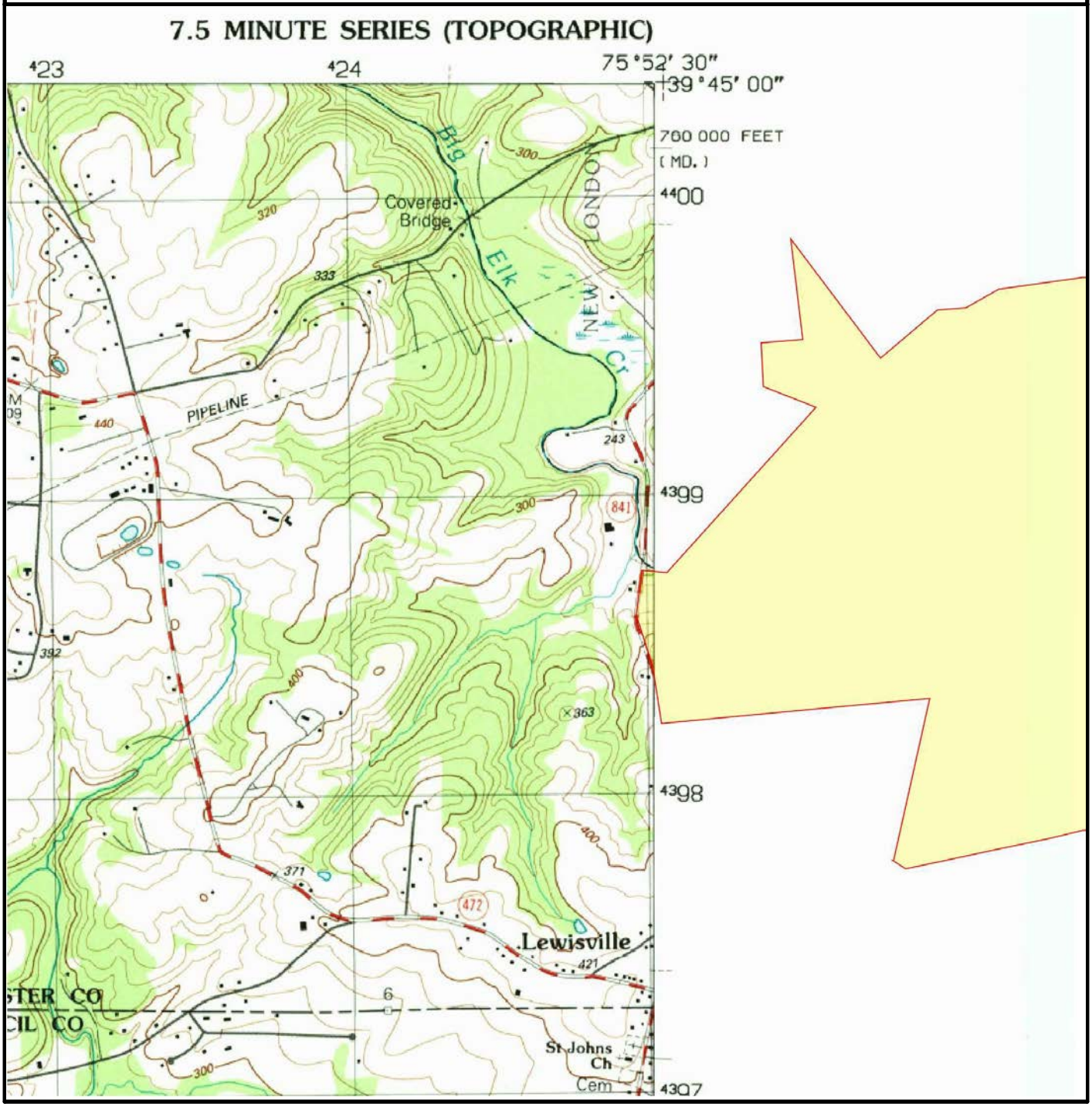


SUBJECT NAME: Strawbridge II Property
ADDRESS: 99 Bullock Road Landenberg, PA 19350
LAT/LONG: 39.735822 / -75.858291

PREPARED FOR: Ten Bears Environmental Associates Co
ORDER #: 13094
REPORT DATE: 06/19/2017

SUBJECT QUAD:

MAP NAME:	Bay View	MAP YEAR:	1992	REVISION YEAR:	N/R
SERIES:	7.5	SCALE:	1 : 24000	Part	1

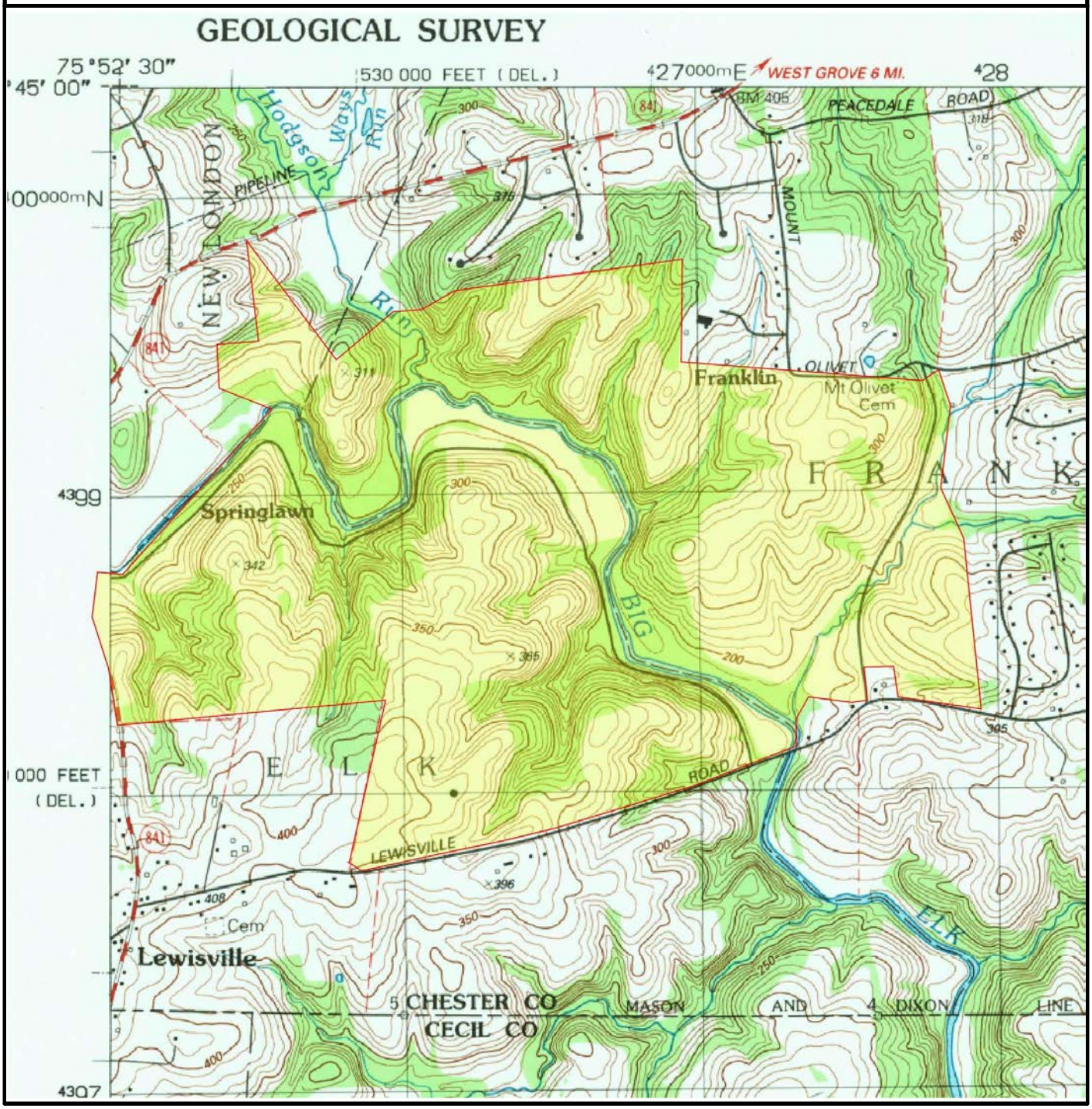


SUBJECT NAME: Strawbridge II Property
ADDRESS: 99 Bullock Road Landenberg, PA 19350
LAT/LONG: 39.735822 / -75.858291

PREPARED FOR: Ten Bears Environmental Associates Co
ORDER #: 13094
REPORT DATE: 06/19/2017

SUBJECT QUAD:

MAP NAME:	Newark West	MAP YEAR:	1992	REVISION YEAR:	N/R
SERIES:	7.5	SCALE:	1 : 24000	Part	1

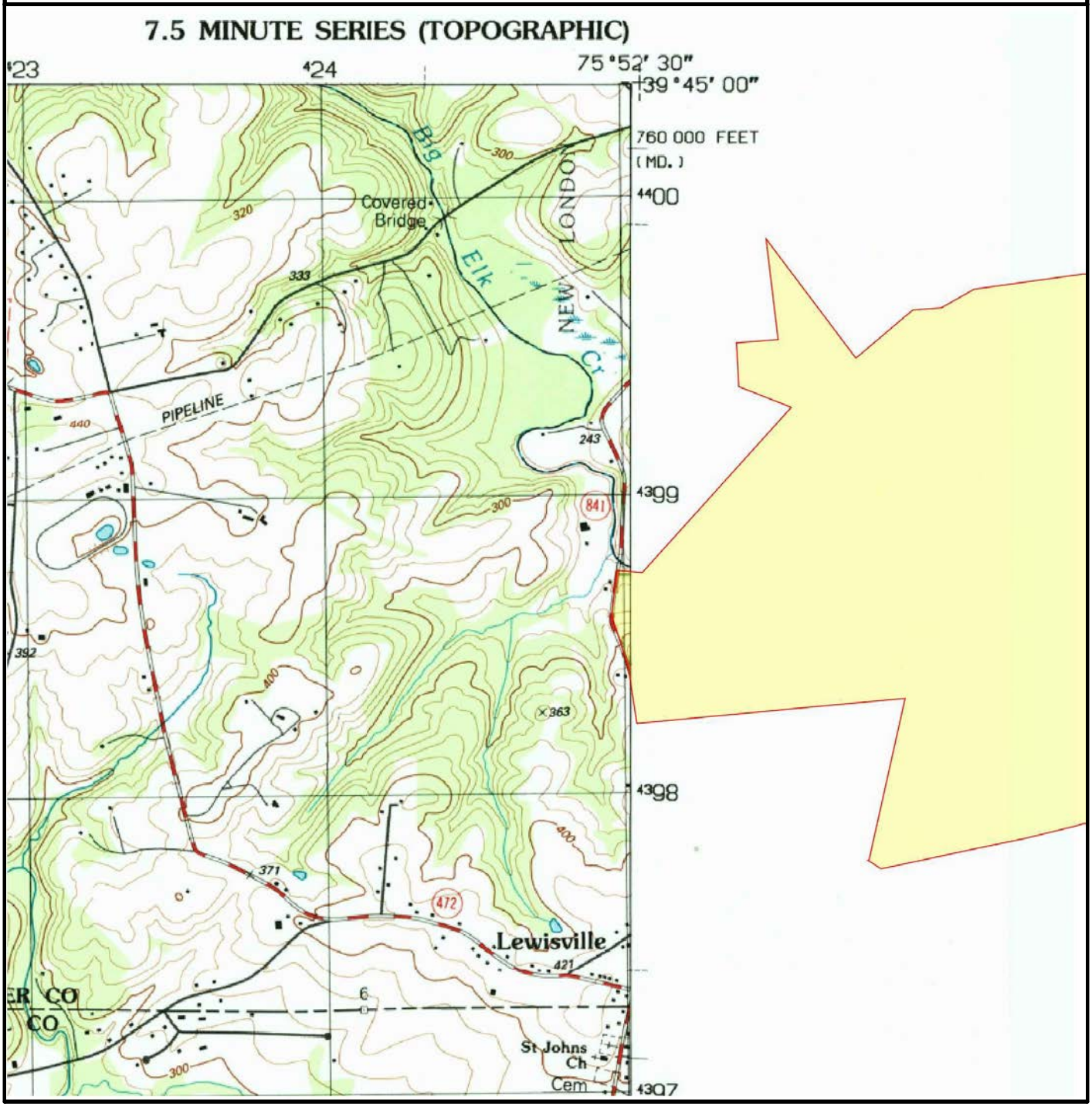


SUBJECT NAME: Strawbridge II Property
ADDRESS: 99 Bullock Road Landenberg, PA 19350
LAT/LONG: 39.735822 / -75.858291

PREPARED FOR: Ten Bears Environmental Associates Co
ORDER #: 13094
REPORT DATE: 06/19/2017

SUBJECT QUAD:

MAP NAME:	Bay View	MAP YEAR:	1997	REVISION YEAR:	N/R
SERIES:	7.5	SCALE:	1 : 24000	Part	1

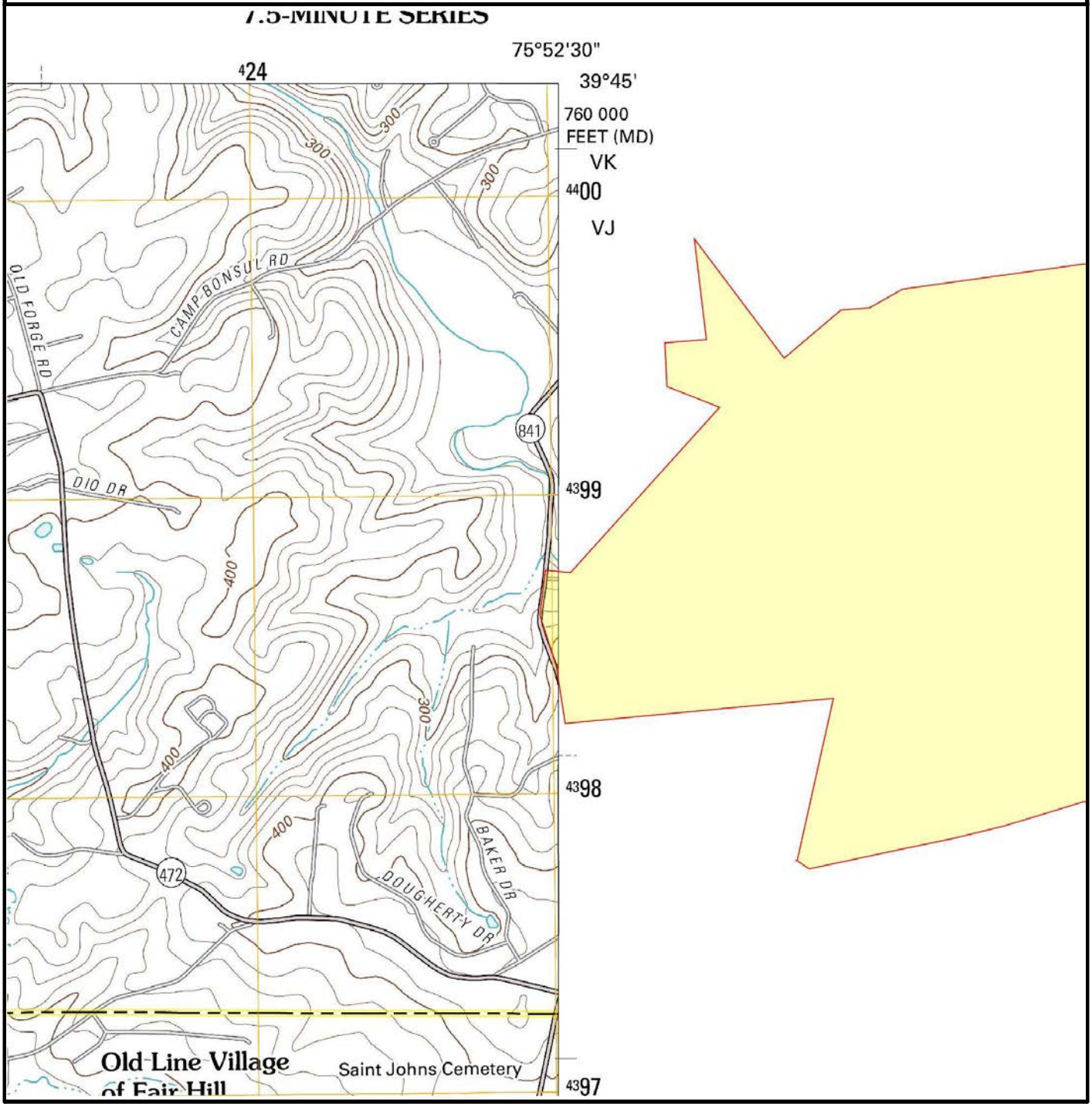


SUBJECT NAME: Strawbridge II Property
ADDRESS: 99 Bullock Road Landenberg, PA 19350
LAT/LONG: 39.735822 / -75.858291

PREPARED FOR: Ten Bears Environmental Associates Co
ORDER #: 13094
REPORT DATE: 06/19/2017

SUBJECT QUAD:

MAP NAME:	Bay_View	MAP YEAR:	2011	REVISION YEAR:	N/R
SERIES:	7.5	SCALE:	1 : 24000	Part	1

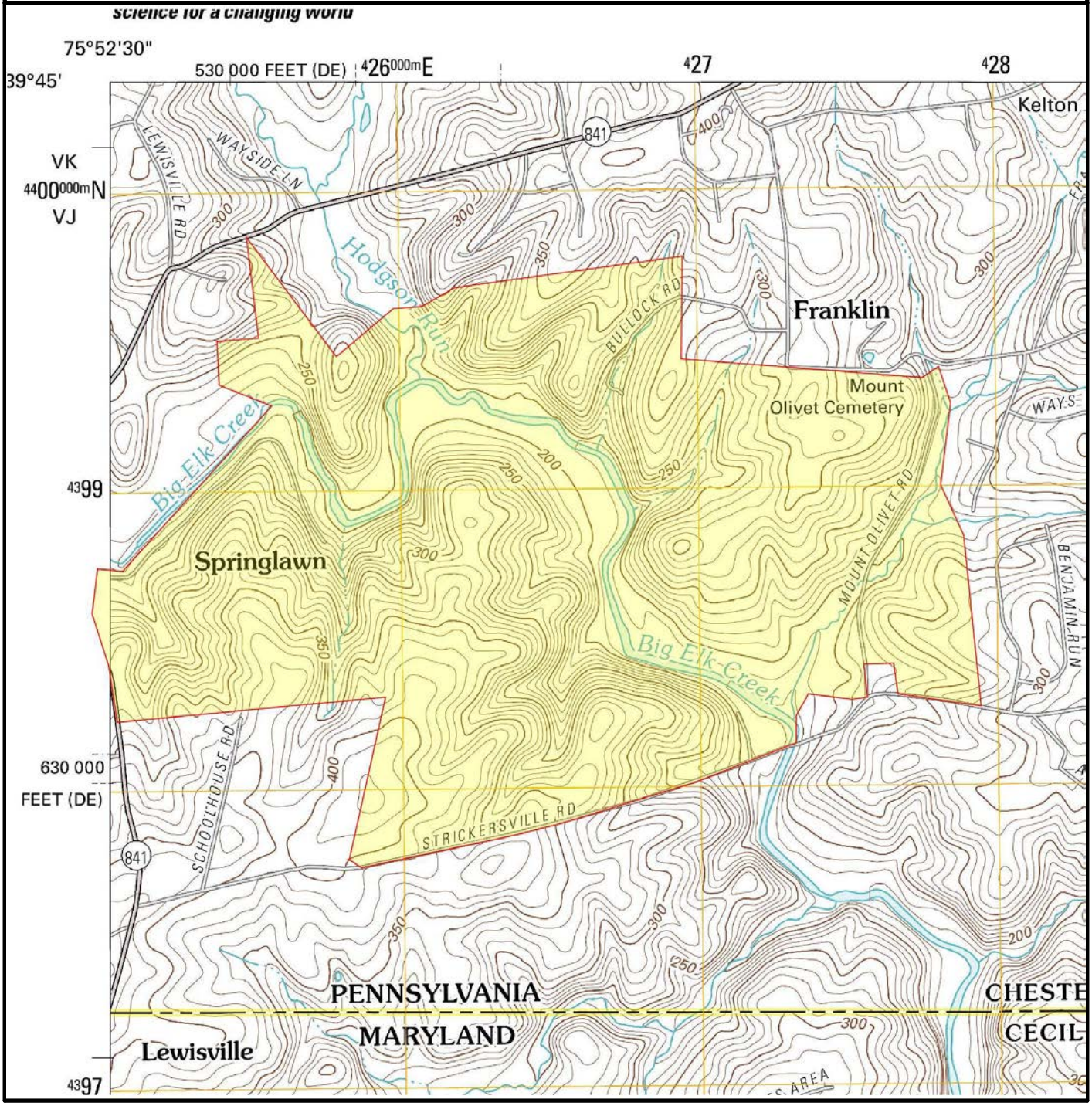


SUBJECT NAME: Strawbridge II Property
ADDRESS: 99 Bullock Road Landenberg, PA 19350
LAT/LONG: 39.735822 / -75.858291

PREPARED FOR: Ten Bears Environmental Associates Co
ORDER #: 13094
REPORT DATE: 06/19/2017

SUBJECT QUAD:

MAP NAME:	Newark_West	MAP YEAR:	2011	REVISION YEAR:	N/R
SERIES:	7.5	SCALE:	1 : 24000	Part	1

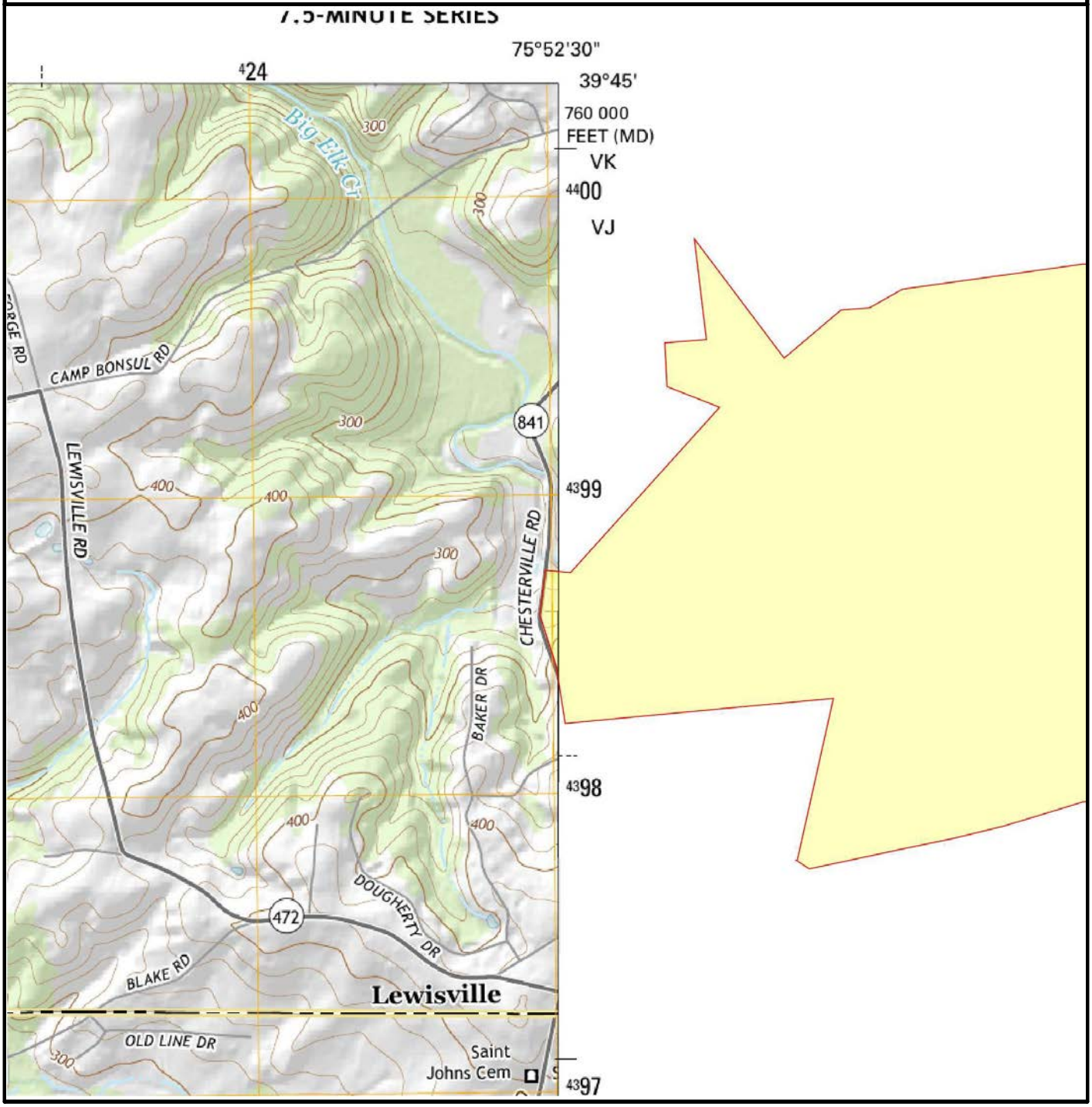


SUBJECT NAME: Strawbridge II Property
ADDRESS: 99 Bullock Road Landenberg, PA 19350
LAT/LONG: 39.735822 / -75.858291

PREPARED FOR: Ten Bears Environmental Associates Co
ORDER #: 13094
REPORT DATE: 06/19/2017

SUBJECT QUAD:

MAP NAME:	Bay_View	MAP YEAR:	2014	REVISION YEAR:	N/R
SERIES:	7.5	SCALE:	1 : 24000	Part	1

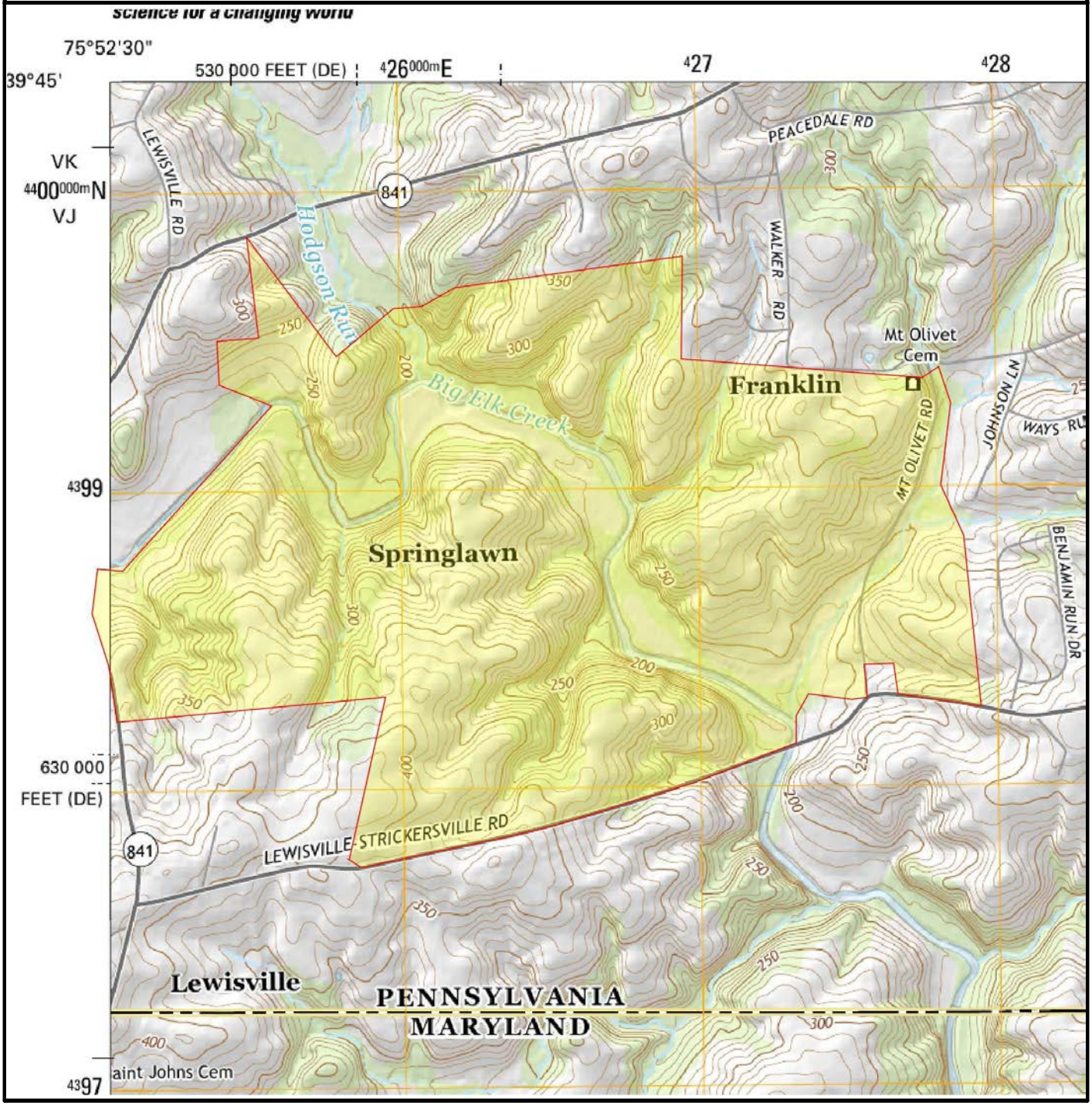


SUBJECT NAME: Strawbridge II Property
ADDRESS: 99 Bullock Road Landenberg, PA 19350
LAT/LONG: 39.735822 / -75.858291

PREPARED FOR: Ten Bears Environmental Associates Co
ORDER #: 13094
REPORT DATE: 06/19/2017

SUBJECT QUAD:

MAP NAME:	Newark_West	MAP YEAR:	2014	REVISION YEAR:	N/R
SERIES:	7.5	SCALE:	1 : 24000	Part	1

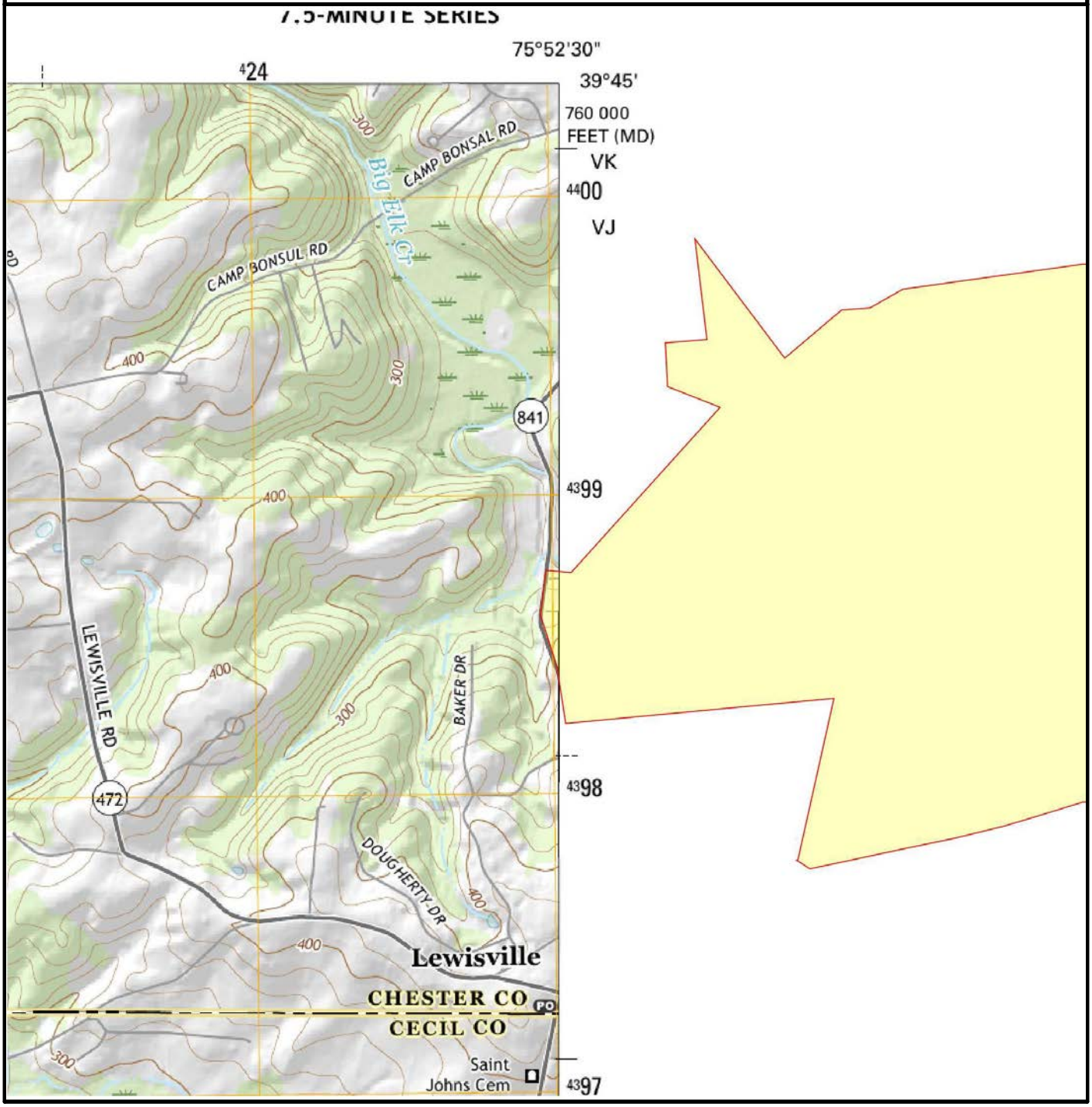


SUBJECT NAME: Strawbridge II Property
ADDRESS: 99 Bullock Road Landenberg, PA 19350
LAT/LONG: 39.735822 / -75.858291

PREPARED FOR: Ten Bears Environmental Associates Co
ORDER #: 13094
REPORT DATE: 06/19/2017

SUBJECT QUAD:

MAP NAME:	Bay_View	MAP YEAR:	2016	REVISION YEAR:	N/R
SERIES:	7.5	SCALE:	1 : 24000	Part	1

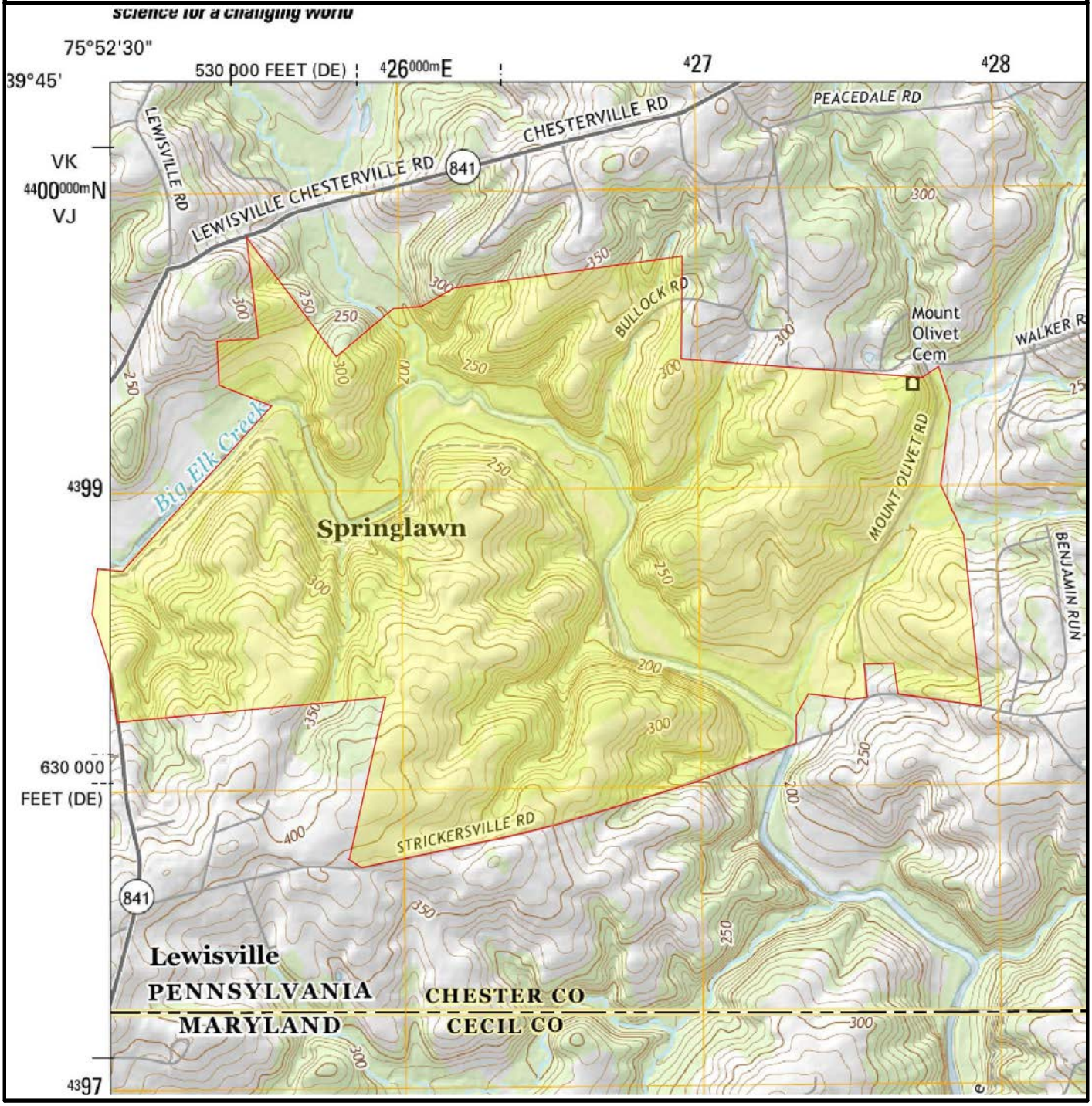


SUBJECT NAME: Strawbridge II Property
ADDRESS: 99 Bullock Road Landenberg, PA 19350
LAT/LONG: 39.735822 / -75.858291

PREPARED FOR: Ten Bears Environmental Associates Co
ORDER #: 13094
REPORT DATE: 06/19/2017

SUBJECT QUAD:

MAP NAME:	Newark_West	MAP YEAR:	2016	REVISION YEAR:	N/R
SERIES:	7.5	SCALE:	1 : 24000	Part	1



APPENDIX G

CITY DIRECTORY ABSTRACT REPORT

ENVIROSITE Corporation

City Directory Report | 2017

Order Number: 13094

Report Generated: 06/20/2017

Strawbridge II Property
99 Bullock Road
Landenberg, PA 19350

1175 Post Road East
Westport, CT 06880
Toll Free: 866-211-2028
www.envirositecorp.com

Envirosite's City Directory report is a screening tool designed to assist in evaluating a subject property and possible adjacent properties resulting from past activities. It includes a search and abstract of available city directories and cross reference directories at five year intervals or the closest available intervals. Public map sources are reviewed to determine possible adjoining properties to the front, back, left and right of the property.

RESEARCH SUMMARY:

The following research sources were consulted in the preparation of this report:

SOURCE:	***YEAR:***
National Historic Address Archives	2015, 2010, 2006, 2001, 1998
City Directory	1995, 1990, 1985, 1980, 1975, 1970, 1965

National Historic Address Archives is Envirosite's proprietary comprehensive database of over 600 million commercial and residential records, business names and occupant records for every city and town in the United States.

CROSS STREETS: Chesterville Road (Lincoln University), Springlawn Road (Landenberg), Strickersville Road (Landenberg), Mt Olivet Road (Landenberg), Walker Road (Landenberg)

STREET NAME CHANGES:

OLD NAME:	NEW NAME:	YEAR NAME CHANGE NOTED:
N/A	N/A	N/A

SUBJECT PROPERTY INFORMATION:

Subject Property: 99 Bullock Road (Landenberg)

SUBJECT PROPERTY FINDINGS:

YEAR(S):	FINDINGS:
2015	Address Not Listed
2010	Address Not Listed
2006	Street Not Listed
2001	Street Not Listed
1998	Street Not Listed

POSSIBLE ADJOINING PROPERTY INFORMATION:

POSSIBLE ADJOINING STREET(S) & ADDRESSE(S): 985-1020 CHESTERVILLE ROAD (LINCOLN UNIVERSITY); 47-69 BULLOCK ROAD (LANDENBERG); SPRINGLAWN ROAD (LANDENBERG); 356-664 STRICKERSVILLE ROAD (LANDENBERG); 201-355 MT OLIVET ROAD (LANDENBERG); 208-224 WALKER ROAD (LANDENBERGE)

POSSIBLE ADJOINING PROPERTY FINDINGS:

YEAR(S):	FINDINGS:
2015	**Chesterville Road (Lincoln University)** No Listings (985-1020) **Bullock Road (Landenberg)** No Listings (47-69) **Springlawn Road (Landenberg)** Street Not Listed **Strickersville Road (Landenberg)** Residence (420) Residence (421) Residence (423) Residence (507) Residence (511) Residence (638) Residence (644) Residence (660) Resdience (664) No Other Listings (356-664) **Mt. Olivet Road (Landenberg)** Street Not Listed **Walker Road (Landenberg)** Resdience (208) Residence (224) No Other Listings (208-224)
2010	**Chesterville Road (Lincoln University)** No Listings (985-1020) **Bullock Road (Landenberg)** No Listings (47-69) **Springlawn Road (Landenberg)** Street Not Listed **Strickersville Road (Landenberg)** Residence (420) Residence (421) Residence (423) Residence (507) Residence (511) Residence (642) Residence (644) Residence (660) No Other Listings (356-664)

Mt. Olivet Road (Landenberg)
Street Not Listed

Walker Road (Landenberg)
Resdience (208)
Residence (224)
No Other Listings (208-224)

2006

Chesterville Road (Lincoln University)
No Listings (985-1020)

Bullock Road (Landenberg)
Street Not Listed

Springlawn Road (Landenberg)
Street Not Listed

Strickersville Road (Landenberg)
Street Not Listed

Mt. Olivet Road (Landenberg)
No Listings (201-355)

Walker Road (Landenberg)
No Listings (208-224)

2001

Chesterville Road (Lincoln University)
Street Not Listed

Bullock Road (Landenberg)
Street Not Listed

Springlawn Road (Landenberg)
Street Not Listed

Strickersville Road (Landenberg)
Residence (420)
Residence (421)
Residence (423)
Residence (642)
Residence (660)
No Other Listings (356-664)

Mt. Olivet Road (Landenberg)
No Listings (201-355)

Walker Road (Landenberg)
Residence (224)
No Other Listings (208-224)

1998

Chesterville Road (Lincoln University)
Street Not Listed

Bullock Road (Landenberg)
Street Not Listed

Springlawn Road (Landenberg)
Street Not Listed

Strickersville Road (Landenberg)
Street Not Listed

Mt. Olivet Road (Landenberg)

No Listings (201-355)

Walker Road (Landenberg)

No Listings (208-224)

APPENDIX H

SITE PHOTOGRAPHS

Photo 1: General view of Property, looking south towards Strickersville Road.

Photo 2: General view of fields, looking southeast.

Photo 3: View looking across Big Elk Creek towards Mt. Olivat Road.

Photo 4: Typical view of interior of woods.

Photo 5: View of Springlawn Road trail.

Photo 6: View of building ruins along Big Elk Creek.

Photo 7: View of barn ruins located in the central portion of the Property.

Photo 8: Typical configuration of wire mesh fencing observed within Property.

Photo 9: View of field showing steep topographic relief.

Photo 10: View across Property looking eastward.

APPENDIX I

ENVIRONMENTAL PROFESSIONAL QUALIFICATIONS

David P. Bailey
Senior Environmental Scientist

EDUCATION

B.S., Agriculture, University of Delaware, 1997
Post Graduate Coursework, University of Maryland, Graduate Studies in Environmental Management

TRAINING

Wetlands Delineation, Cook College Rutgers University, 2003
Hydrology of Wetlands, Cook College Rutgers University, 2004
Advanced Wetland Delineation, Environmental Concern, Inc. 2005
Lake Management, Cook College, Rutgers University, 2007
Introduction to Groundwater Investigations, U.S. Environmental Protection Agency, 2008
Hazardous Waste Operations and Emergency Response (HAZWOPER) 40 Hour Training
8-Hour OSHA Annual Refresher Courses

Background / Skills

Mr. Bailey has been working as a project manager / senior environmental scientist in the field of environmental consulting for over 10 years. His project experience includes Preliminary Environmental Site Assessments, Phase I and II environmental site assessments, subsurface site investigations, hydrogeologic evaluations, stormwater recharge evaluations, underground storage tank investigations, environmental health and safety monitoring, asbestos surveys, and lead-based paint surveys. Mr. Bailey's typical job responsibilities include: writing proposals, work plans, health and safety plans, and reports; coordinating, performing, and supervising field sampling; and interpreting and modeling analytical data. His field experience includes soils identification and classification, monitoring-well installations, soil and groundwater sampling, and field investigations for vapor intrusion modeling.

SELECTED PROJECT EXPERIENCE

Project Manager – Environmental Site Assessments, Various Sites

Mr. Bailey has served as a Project Manager and Senior Environmental Scientist for environmental site assessments of multi-family residential, commercial (retail and office), and industrial facilities in over 18-states nationwide. His work on these types of projects included aerial photographic interpretation, participation in magnetic surveys to locate subsurface features such as tanks and piping, historical research, visual site reviews, and interaction with local and state agencies.

Senior Environmental Scientist – Industrial Facility, Salisbury, Maryland

Mr. Bailey served as a Senior Environmental Scientist on a large scale Remedial Investigation (RI) of an approximately 18-acre, 400,000 square foot facility which had manufactured gasoline pumps / dispensers for approximately 65 years. His work on this project consisted of performing historical research, reviewing environmental regulatory files provided by the U.S. Environmental Protection Agency (EPA) and the State of Maryland Department of the Environment (MDE), cataloging all relevant environmental documents, reviewing soil borings collected by direct-push and hollow-stem auger methods, providing oversight during the installation of groundwater monitoring wells, collecting soil and groundwater samples, and interpreting laboratory analysis data.

Senior Environmental Scientist – 22-Acre Parcel Environmental Site Assessment, Rehoboth Beach, Delaware

Mr. Bailey completed a Phase I Environmental Site Assessment and subsequent Limited Subsurface Evaluation of an approximately 22-acre undeveloped parcel located in Rehoboth Beach, Delaware. Historically the property had been undeveloped vacant land, however, the site investigation revealed that miscellaneous solid waste and containers of unknown contents had been left on-site and presented an environmental concern. In order to evaluate these conditions, Mr. Bailey performed a limited subsurface evaluation of the property which included a magnetometer survey, test pit excavations, soil sampling and laboratory analysis, and providing an estimated cost to properly dispose of the solid waste and impacted soils identified during the assessment. Through this limited evaluation, Mr. Bailey was able to provide a basis for which the prospective purchaser was able to renegotiate the selling price of the property.

Senior Environmental Scientist – Remedial Investigation / Feasibility Study (RI/FS), Wilmington, Delaware

Mr. Bailey assisted in preparing an Addendum to an existing RI/FS for a property that had previously entered into the State of Delaware's Voluntary Cleanup Program (VCP). Mr. Bailey's work on the project consisted of analyzing laboratory data generated during the addendum to evaluate a potential human health risk associated with the migration of vapors into the building from site soils and groundwater impacted with trichloroethene (TCE) and tetrachloroethene (PCE). The evaluation was performed using the EPA approved Johnson & Ettinger Model for Subsurface Vapor Intrusion in Buildings.

Senior Environmental Scientist – Health and Safety Monitoring, Wilmington, Delaware

Mr. Bailey served as a Senior Environmental Scientist on a federally funded construction site providing environmental health and safety monitoring to document site workers exposure to constituents of concerns. Mr. Bailey's work on the project included reviewing trenching, excavation, and other soil disturbance activities, and monitoring air vapors and dust, which posed a potential health and safety risk to site workers.

Senior Environmental Scientist - Wetland Delineations and Permitting, Statewide

Mr. Bailey has performed wetland delineations, for submittal to the United States Army Corps of Engineers, on properties ranging in size from 4-acres to approximately 300-acres. Mr. Bailey's work on these projects included identifying hydric soils, hydrology, and cataloguing wetland and upland plant species. Also prepared Nationwide Permits and / or Subaqueous Lands Permits for the United States Corps of Engineers / State of Delaware Department of Natural Resources and Environmental Control associated with residential subdivisions, commercial development, and improvements to existing commercial properties. Tasks included reviewing civil engineering construction drawings specific to potential wetland impacts,

Senior Environmental Scientist – Stormwater Recharge Evaluations, Statewide

Mr. Bailey has performed stormwater recharge evaluations in support of residential and commercial development for various projects within the State of Delaware. The evaluations generally consisted of classifying soils, estimating seasonal high-water, determining the depth to groundwater when not obvious, and the suitability of site soils for subsurface recharge capability.

Senior Environmental Scientist – Pond Restoration, Residential Subdivision, St. Georges, DE

Mr. Bailey assisted with evaluating a residential stormwater pond to improve its aesthetic qualities and ensure it maintained compliance with current New Castle County stormwater pond maintenance guidelines. The evaluation consisted of monitoring water quality parameters, collecting water samples, and devising a plan of action to achieve the goals of the neighborhood association. A power point presentation was presented to the neighborhood association outlying different steps they could take to achieve one or more of their goals.

Ten Bears Environmental

1080 S. Chapel St.
Suite 200
Newark, Delaware 19702
Tel: (302) 731-8633 Fax: (302) 731-8655

606 Federal Street
Milton, Delaware 19968
Tel: (302) 684-5080 Fax: (302) 684-5081

July 2, 2018

Via Email

Mr. Blaine T. Phillips, Jr.
The Conservation Fund
5807 Kennett Pike
Centreville, DE. 19807

RE: P.N. 18-1726.B
Phase I Environmental Site Assessment Update
Strawbridge II Property
Landenberg, Pennsylvania

Dear Mr. Phillips:

Ten Bears Environmental Associates Company has prepared this letter report to update our July 2017 Phase I Environmental Site Assessment (ESA), for the referenced property in Landenberg, Pennsylvania. The ESA update was completed in accordance with the minimum requirements of the American Society for Testing and Materials, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (ASTM E 1527-13), which also currently meets the minimum requirements of the U.S. Environmental Protection Agency's "All Appropriate Inquiries" (EPA AAI) regulations. The ESA was completed under the direction and review of an environmental professional, as defined by the EPA AAI regulations, and consisted of a review of the prior report, information provided by the user of the report, updated environmental database and environmental lien searches and historical documents, as well as a visual review of the site and adjoining areas. The following paragraphs summarize the findings of our update and associated recommendations.

BACKGROUND

The Strawbridge Property comprises seven (7) parcels (Chester County Tax Parcel No.'s 70-5-6, 70-5-7, 70-5-8, 71-4-32.3, 72-6-1, 72-6-4, and 72-6-10) containing approximately 982 acres located in Landenberg, Pennsylvania. A majority of the Property is currently utilized for farming with the remainder consisting of undeveloped woodland. While there are no currently occupied structures on the Property, a few residence and barn foundations were observed at various locations.

The Property is bounded by Lewisville / Strickersville Road to the south, Chesterville Road to the west, residential properties and a portion of Walker Road to the north, and agricultural land and residential properties to the east. Surrounding land use is primarily agricultural and residential.

USER PROVIDED INFORMATION

TBE requested that a representative of The Conservation Fund as the primary the user of this ESA, complete a Phase I Environmental Site Assessment User Questionnaire to provide information that may be pertinent to this assessment. A copy of the User Questionnaire was filled out by Mr. Blaine Phillips of The Conservation Fund, and was returned to TBE. The Questionnaire is intended to assist in meeting the User's Responsibilities outlined in Section 6 of the ASTM E 1527-13 standard.

Information provided in the Questionnaire does not suggest that the users are aware of indications of potential environmental issues associated with the Property that would warrant further evaluation. A copy of the User Questionnaire, which was prepared and signed by Mr. Phillips, dated June 27, 2018 is included as Appendix A.

UPDATED DATABASE SEARCH & ENVIRONMENTAL LIEN RESULTS

Ten Bears reviewed an environmental database search report prepared by our subcontractor, Envirosite, Inc. (EC) to evaluate environmental conditions reported to government agencies at and in the vicinity of the Property. The June 6, 2018 regulatory report (included in Appendix B) summarizes environmental regulatory agency information gathered from selected databases. For each database, EC reported on sites identified to be located within the distance prescribed by the ASTM E 1527-13 standard. According to the EC report, the Property was not identified on any of the databases searched. The database search for the July 2017 Phase I ESA did not identify any nearby sites of concern. However, the 2018 EC database search identified a former landfill / dump site on Walker Road, to the northeast of the Subject Property. A review of the historical aerial photography and topographic mapping do not indicate any surface disturbances, mapping notations, or other indicators of a potential landfill / dump in the area. Therefore, this listing may not be the actual location of the former landfill / dump and suggests minimal potential to impact conditions at the Property.

The June 4, 2018 Nationwide Environmental Title Research (NETR) Environmental Lien search did not identify any environmental liens or activity and use limitations (AULs) associated with the Property. This report is included as Appendix C.

HISTORICAL DOCUMENT REVIEW

Historical documents reviewed as part of the July 2017 ESA and this update indicated that the Property has been historically utilized as farmland. Sanborn Fire Insurance Maps were requested but are not available for this site.

SITE RECONNAISSANCE

Ten Bears personnel performed a site reconnaissance of the Property on July 2, 2018 to assess site environmental conditions. Photographs of the property taken during the reconnaissance are included in Appendix E.

The Strawbridge Property comprises seven (7) parcels (Chester County Tax Parcel No.'s 70-5-6, 70-5-7, 70-5-8, 71-4-32.3, 72-6-1, 72-6-4, and 72-6-10) containing approximately 982 acres located in Landenberg, Pennsylvania. A majority of the Property is currently utilized for farming with the

remainder consisting of undeveloped woodland. While there are no currently occupied structures on the Property, a few remnants of former residences and / or barns were observed at various locations. The building ruins consisted of stone foundation walls and brick exterior walls. The building ruins were generally limited to foundations with only one or two portions of the exterior walls remaining. No interior floors, stairs to basements, or other building structures were observed. No apparent heating sources were noted at the former residences / barns.

The site is located in a mixed-use area, with farmland intermixed with residential properties on all sides of the Property.

INTERVIEWS

Ten Bears spoke with Mr. Ronald Ayers, the caretaker for the property, as part of the 2017 ESA. Mr. Ayres indicated he has been working at the Property since 1959 and was not aware of any potential environmental issues associated with the property. He further stated that the structures noted on the historical documents were gone prior to his working there and the Property has been primarily in agricultural use the entire time. Mr. Ayers indicated that prior to 1959, portions of the site were used for cattle grazing.

CONCLUSIONS AND RECOMMENDATIONS

TBE has completed an update of our July 2017 Phase I ESA of the Strawbridge II Property in Landenberg, Pennsylvania. This update was performed in conformance with the scope and limitations of ASTM Practice E 1527-13. The findings of the update did not identify potential *recognized environmental conditions* (RECs) as defined by the ASTM E 1527-13 standard that, in TBE's opinion, would preclude the user from qualifying for the *innocent landowner, contiguous property owner* or *bona fide prospective purchaser* limitations to CERCLA (Federal Comprehensive Environmental Response, Compensation, and Liability Act) liability or trigger related regulatory obligations. No historical recognized environmental conditions (HRECs) or controlled recognized environmental conditions (CRECs) were identified at the Property. However, the assessment did identify a minor environmental condition that, while manageable, could present some liability if mishandled during the real estate transfer or in the future.

SECONDARY CONCERN

Solid Waste Debris / Stored Materials - Solid waste debris was observed at the Site, was primarily situated near the ruins of the former residences / barns. The debris consisted of brick, concrete, wood, metal, tires, and wire mesh fencing. TBE estimates the volume of surface solid waste observed at the Site as approximately 20 to 30 cubic yards.

TBE recommends that solid waste and stored materials not intended for reuse at the Property be transported to an appropriate permitted off-site facility for recycling or disposal in accordance with applicable regulations. Some of the observed waste materials, particularly tires may require separate disposal.

Floodplains and Wetlands - The July 2017 ESA identified mapped floodplains within the Property associated with Big Elk Creek and Hodgson Creek. In addition, Big Elk Creek and several smaller unnamed streams were mapped as regulated water-ways on the U.S. Fish and Wildlife Internet Mapping Service, but forested or emergent wetlands were not mapped within the Property. While a

formal wetland survey was not completed as part of the 2017 ESA or this update, wetlands may be present adjacent to the water-ways. Accordingly, restrictions on future development may be imposed in these areas.

This report is based on Ten Bears Environmental Associates Company's professional opinion regarding environmental conditions visually observed at the Property during the reconnaissance and our interpretation of the reviewed regulatory documentation. The observations, conclusions, and recommendations presented in this report are based solely on conditions encountered and available documents at the time of the reconnaissance effort. Latent conditions and other contingencies bearing upon the environmental condition of the site may be evident in the future. While this evaluation was performed in an effort to generally characterize the environmental condition of the Property, the scope of services was limited due to practicable budgetary constraints. As such, further investigation may identify conditions that were not encountered during this assessment.

This letter is intended for the exclusive use of The Conservation Fund and the Pennsylvania Department of Conservation and Natural Resources. The information contained in this letter may not be relied upon by parties other than The Conservation Fund and the Pennsylvania Department of Conservation and Natural Resources without the prior written consent of Ten Bears Environmental Associates Company.

Sincerely,
TEN BEARS ENVIRONMENTAL ASSOCIATES COMPANY

David P. Bailey
Senior Environmental Scientist

R. Clayton Greer, P.E.
President, Newark Office

Enclosures:

FIGURES

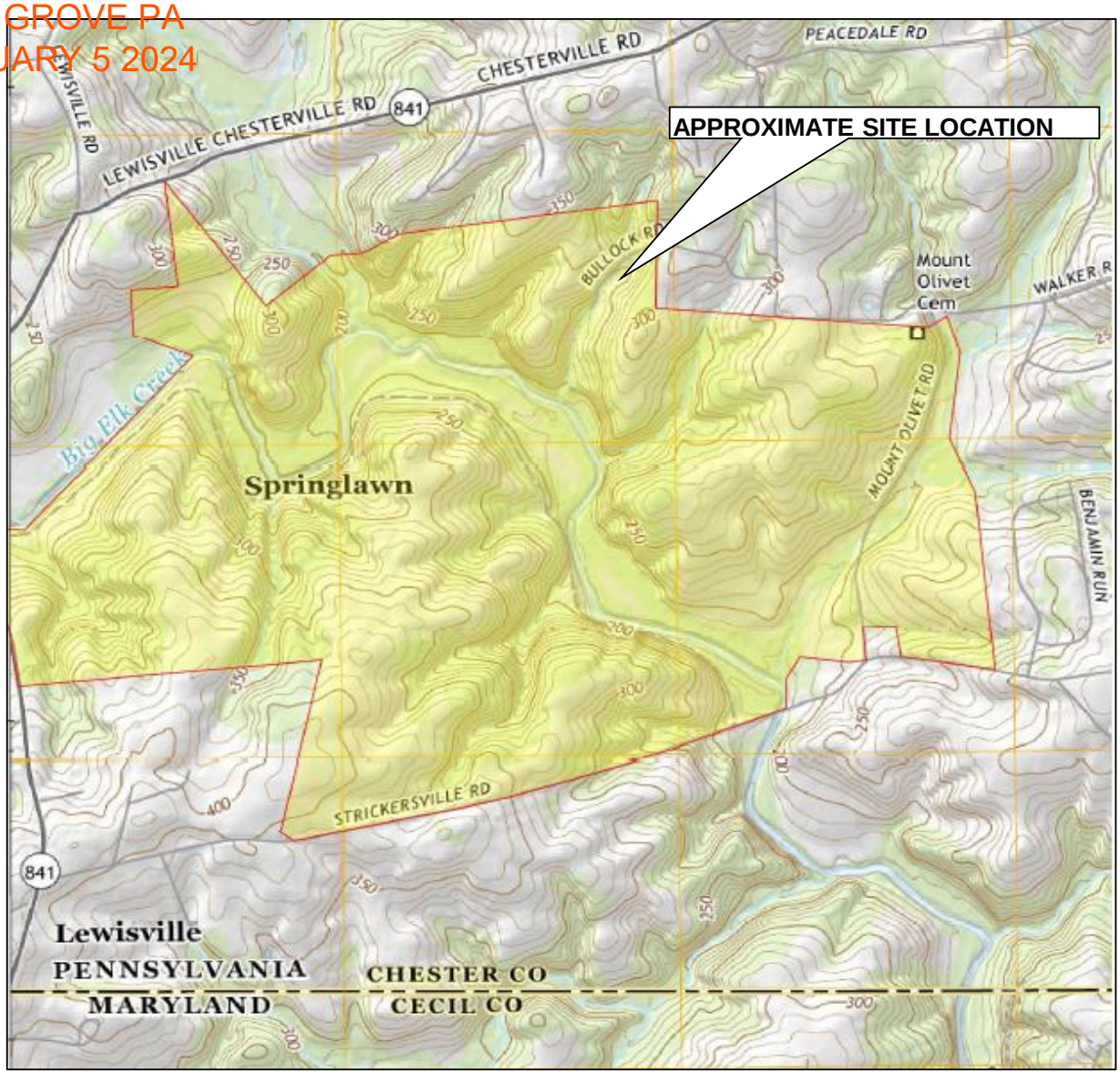
Figure 1 Site Location Sketch

APPENDICES

Appendix A Phase I Environmental Site Assessment User Questionnaire
Appendix B Environmental Database Search Report
Appendix C Environmental Lien Search Report
Appendix D Site Photographs
Appendix E Environmental Professional Qualifications

FIGURE 1

SITE LOCATION SKETCH



NOTE:
THIS LOCATION SKETCH WAS ADOPTED FROM THE USGS TOPOGRAPHIC MAP,
7.5 MINUTE SERIES, FOR NEWARK - WEST, DE (2016)

Ten Bears Environmental

Ten Bears Environmental Associates Co.,
1080 South Chapel Street, Suite 200
Newark, DE 19702
Phone: (302) 731-8633 Fax: (302) 731-8655

FIGURE 1 - SITE LOCATION SKETCH

STRAWBRIDGE PROPERTY

STRICKERSVILLE ROAD

LANDENBERG, CHESTER COUNTY, PENNSYLVANIA

DATE:	7/13/2017	JOB NUMBER:	17-1726.A
DRAWN BY:	DPB	SCALE:	N.T.S.
CHECKED BY:		FIGURE NO:	1
FILE NO:	17-1726.A_FIG	SHEET	1 OF 1

APPENDIX A

PHASE I ENVIRONMENTAL SITE ASSESSMENT

USER QUESTIONNAIRE

PHASE I ENVIRONMENTAL SITE ASSESSMENT
USER QUESTIONNAIRE

TEN BEARS ENVIRONMENTAL ASSOCIATES COMPANY
NEWARK AND MILTON, DELAWARE

Property Name: Strawbridge Property
Property Use: Agricultural
Address: Strickersville Road
Landenberg, Pennsylvania

Project Number: 18-1726.B
Date: _____

To assist us with our Phase I Environmental Site Assessment (ESA), and in accordance with the American Society for Testing and Materials, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (ASTM E 1527-13), we request that you respond to the following questions to the best of your ability.

1. Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, or local law?

NO

2. Are you aware of any *Activity and Land Use Limitations* (ALUs), such as engineering controls, land use restrictions, or institutional controls that are in place at the site and / or have been filed or recorded in a registry under federal, tribal, state or local law?

NO

3. As the user of this ESA, do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

NO

4. If the ESA is being performed in preparation of a property transfer, does the purchase price being paid for the property reasonably reflect the fair market value of the property?

Yes

5. Are you aware of commonly known or reasonably ascertainable information about the property that would assist in identifying recognized environmental conditions associated with the property?

   a. What are the historical uses of the property? Agriculture

   b. Do you know of specific regulated substances that are present, or formerly were present, at the property?

NO

   c. Do you know of releases of regulated substances that have occurred at the property?

NO

   d. Do you know of any environmental remediation activities or cleanups that have taken place at the property?

No

6. Based on your knowledge and experience related to the property, are there any obvious indicators that point to the presence or likely presence of contamination at the property?

NO

7. Does the Property utilize a community septic sewerage system?

   a. Are there any known problems associated with the system? NOT AWARE

8. Are there any onsite drinking water wells and an associated water supply system?

   a. Are you aware of any problems associated with the drinking water wells, water quality, and / or the supply system? NOT AWARE

This Questionnaire was completed by:

Name: Blaine T. Phillips

Title: Mid-Atlantic Director

Phone No.: 302-656-1103

Company: Conservation Fund

Address: 5907 Kennett Pike
Centreville, DE 19807

By signing below, the preparer, as designated above, represents that, to the best of the preparer's knowledge, the above statements and facts are true and correct and to the best of the preparer's actual knowledge, not material facts have been suppressed or misstated.

Preparer's Signature: Blaine T. Phillips

Date: June 21, 2018

APPENDIX B

ENVIRONMENTAL DATABASE SEARCH REPORT

ENVIROSITE Corporation

Government Records Report | 2018

Order Number: 21199

Report Generated: 06/28/2018

Project Name: Strawbridge Property

Project Number: 17-1726.B

Strawbridge Property
Walker Road and Mount Olivet Road
Franklin Township, PA 19350

2 Corporate Drive
Suite 450
Shelton, CT 06484
Toll Free: 866-211-2028
www.envirositecorp.com

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Envirosite Corporation has conducted a search of all reasonably ascertainable records in accordance with EPA's AAI (40 CFR Part 312) requirements and the ASTM E-1527-13 Environmental Site Assessments standard.

SUBJECT PROPERTY INFORMATION:

ADDRESS:

Strawbridge Property
Walker Road and Mount Olivet Road
Franklin Township, PA 19350

COORDINATES:

Latitude (North):	39.736396 - 39°44'11"
Longitude (West):	-75.858168 - -75°51'29.4"
Universal Transverse Mercator:	Zone 18N
UTM X (Meters):	426465.63
UTM Y (Meters):	4398852.52

ELEVATION:

Elevation:	248.169 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH SUBJECT PROPERTY:

Subject Property Map: 39075f7 NEWARK WEST, MD
Most Recent Revision: 2016

Subject Property Map: 39075f8 BAY VIEW, MD
Most Recent Revision: 2016

Executive Summary by Distance

MAP ID	SITE NAME	ADDRESS	DATABASE(S)	RELATIVE ELEVATION	DIRECTION / DISTANCE
A1	FRANKLIN TWP DUMP	39.741666171281224, -75....	HIST LF INVENTORY - PA	Lower	ENE / 0.171 mi.
A2	FRANKLIN TWP. DUMP	N/R	EFACTS - PA	Lower	ENE / 0.171 mi.
A3	FRANKLIN TWP. DUMP	N/R	ABANDONED LF - PA	Lower	ENE / 0.171 mi.

SUBJECT PROPERTY SEARCH RESULTS:

The subject property was not listed in any of the databases searched by Envirosite Corporation.

SEARCH RESULTS:

STATE AND TRIBAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS

ABANDONED LF - PA: Landfills that have been abandoned listed in the Abandoned Landfill Inventory **1 SITE FOUND WITHIN .5 MILE**

LOWER ELEVATION

MAP ID	SITE NAME	SITE ADDRESS	DIRECTION/DISTANCE	PAGE
A3	FRANKLIN TWP. DUMP		ENE / 0.171 mi.	*16*

HIST LF INVENTORY - PA: Listing of Historical landfills **1 SITE FOUND WITHIN .5 MILE**

LOWER ELEVATION

MAP ID	SITE NAME	SITE ADDRESS	DIRECTION/DISTANCE	PAGE
A1	FRANKLIN TWP DUMP	39.741666171281224, -75.8401674750721	ENE / 0.171 mi.	*14*

OTHER ASCERTAINABLE RECORDS

EFACTS - PA: Environment Facility Application Compliance Tracking System **1 SITE FOUND WITHIN .5 MILE**

LOWER ELEVATION

MAP ID	SITE NAME	SITE ADDRESS	DIRECTION/DISTANCE	PAGE
A2	FRANKLIN TWP. DUMP		ENE / 0.171 mi.	*14*

Following sites were unable to be mapped.

SITE NAME:	ADDRESS, CITY, ZIP:	DATABASE(S):
BELLA MUSHROOM FARMS	RR 1 BOX 165B, LANDENBERG 19350	EFACTS ENV Remediation - PA
CHESTER HILLS FARM	WICKERTON RD, LANDENBERG 19350	EFACTS ENV Remediation - PA
CURTIS GREER FARM	PENN GREEN RD, LANDENBERG 19350	EFACTS ENV Remediation - PA
CVS PHARMACY 7183	730 NEWARK RD, LANDENBERG 19350	BRS, RCRA_LQG
EASTERN SHORE NATURAL GAS LONDON...	LONDONDERRY TWP	EFACTS - PA, FRS
ESNG PIPELINE SEGMENTS 1 AND 1A	HIGHLAND TWP	EFACTS - PA
FISHER'S SANITARY SERVICE	RR 1, KUTZTOWN 19350	EFACTS - PA
GIOFFREDI MUSHROOMS INC	PENN GREEN RD, LANDENBURG 19350	EFACTS ENV Remediation - PA
LANDENBURG	1/4 MI S OF NEWARK &..., LANDENBURG 19350	EFACTS ENV Remediation - PA, LUST - PA
LAWRENCE FARM	RR 1 BOX 185, LANDENBERG 19350	EFACTS - PA
LEONE PIZZINI & SON	RR 1 BOX 96, LANDENBERG 19350	EFACTS ENV Remediation - PA
LOT B5 - NICHOLS SUBD	WALKER RD, LANDENBERG 19350	EFACTS - PA
MACKIE PROPERTY DEV	PEACEDALE RD, LANDENBERG 19350	EFACTS - PA
MANFREDINI MUSHROOM FARM	PENN GREEN RD, LANDENBERG 19350	EFACTS ENV Remediation - PA
SARANA PROPERTY	PA SR 841, LANDENBERG 19350	EFACTS - PA
SCHADD POND PESTICIDES	107 LAVENDER LANE, LANDENBERG 19350	EFACTS - PA
TURKEY HILL 168	735 NEWARK RD, LANDENBERG 19350	EFACTS ENV Remediation - PA, LUST - PA, UST - PA
TUTTLE & MANET	399C FLEETWOOD RD, COATESVILLE 19350	RCRA_NONGEN
US POSTAL SVC	PENN GREEN RD, LANDENBERG 19350	EFACTS ENV Remediation - PA

DATABASE(S) WITH NO MAPPED SITES:

FEDERAL RCRA NON-CORRACTS TSD FACILITIES LIST

ARCHIVED RCRA TSDF	Archived Resource Conservation and Recovery Act: Treatment Storage and Disposal Facilities
RCRA_TSDF	Resource Conservation and Recovery Act: Treatment Storage and Disposal Facilities

FEDERAL CERCLIS LIST

CERCLIS NFRAP	Comprehensive Environmental Response Compensation and Liability Act No Further Remedial Action Planned
CERCLIS-HIST	Comprehensive Environmental Response Compensation and Liability Act
FEDERAL FACILITY	Federal Facility sites
SEMS_8R_ACTIVE SITES	Sites on SEMS Active Site Inventory
SEMS_8R_ARCHIVED SITES	Sites on SEMS Archived Site Inventory

FEDERAL RCRA CORRACTS FACILITIES LIST

CORRACTS	Hazardous Waste Corrective Action

FEDERAL DELISTED NPL SITE LIST

DELISTED NPL	Delisted National Priority List
DELISTED PROPOSED NPL	Delisted proposed National Priority List
SEMS_DELETED NPL	Sites Deleted from National Priorities List

FEDERAL ERNS LIST

ERNS	Emergency Response Notification System

FEDERAL INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES

FED E C	Engineering Controls
FED I C	Institutional Controls
RCRA IC_EC	RCRA sites with Institutional and Engineering Controls
E C - PA	Engineering Controls

FEDERAL NPL SITE LIST

NPL	National Priority List
NPL EPA R1 GIS	GIS for EPA Region 1 NPL
NPL EPA R3 GIS	GIS for EPA Region 3 NPL
NPL EPA R6 GIS	GIS for EPA Region 6 NPL
NPL EPA R8 GIS	GIS for EPA Region 8 NPL
NPL EPA R9 GIS	GIS for EPA Region 9 NPL
PART NPL	Part National Priority List
PROPOSED NPL	Proposed National Priority List
SEMS_FINAL NPL	Sites included on the Final National Priorities List
SEMS_PROPOSED NPL	Sites Proposed to be Added to the National Priorities List

FEDERAL RCRA GENERATORS LIST

RCRA_CESQG	Resource Conservation and Recovery Act_Conditionally Exempt Small Quantity Generators
RCRA_FULL_DETAIL	Resource Conservation and Recovery Act_Full detail
RCRA_LQG	Resource Conservation and Recovery Act_ Large Quantity Generators
RCRA_NONGEN	Resource Conservation and Recovery Act_Non Generators
RCRA_SQG	Resource Conservation and Recovery Act_Small Quantity Generators

STATE AND TRIBAL REGISTERED STORAGE TANK LISTS

FEMA UST	FEMA Underground Storage Tanks
INDIAN UST R1	Underground Storage Tanks on Indian Land in EPA Region 1
INDIAN UST R10	Underground Storage Tanks on Indian Land in EPA Region 10
INDIAN UST R2	Underground Storage Tanks on Indian Land in EPA Region 2
INDIAN UST R4	Underground Storage Tanks on Indian Land in EPA Region 4
INDIAN UST R5	Underground Storage Tanks on Indian Land in EPA Region 5
INDIAN UST R6	Underground Storage Tanks on Indian Land in EPA Region 6

STATE AND TRIBAL REGISTERED STORAGE TANK LISTS *(cont.)*

INDIAN UST R7	Underground Storage Tanks on Indian Land in EPA Region 7
INDIAN UST R8	Underground Storage Tanks on Indian Land in EPA Region 8
INDIAN UST R9	Underground Storage Tanks on Indian Land in EPA Region 9
AST - PA	Aboveground Storage Tanks
UST - PA	Underground Storage Tanks

STATE AND TRIBAL LEAKING STORAGE TANK LISTS

INDIAN LUST R1	Leaking Underground Storage Tanks on Indian Land in EPA Region 1
INDIAN LUST R10	Leaking Underground Storage Tanks on Indian Land in EPA Region 10
INDIAN LUST R2	Leaking Underground Storage Tanks on Indian Land in EPA Region 2
INDIAN LUST R4	Leaking Underground Storage Tanks on Indian Land in EPA Region 4
INDIAN LUST R5	Leaking Underground Storage Tanks on Indian Land in EPA Region 5
INDIAN LUST R6	Leaking Underground Storage Tanks on Indian Land in EPA Region 6
INDIAN LUST R7	Leaking Underground Storage Tanks on Indian Land in EPA Region 7
INDIAN LUST R8	Leaking Underground Storage Tanks on Indian Land in EPA Region 8
INDIAN LUST R9	Leaking Underground Storage Tanks on Indian Land in EPA Region 9
LAST - PA	Leaking Aboveground Storage Tanks
LUST - PA	Leaking Underground Storage Tanks
URLT - PA	Unregulated Leaking Tanks

STATE BROWNFIELD LIST

TRIBAL BROWNFIELDS	Tribal Brownfields
BROWNFIELDS - PA	Brownfields
HIST BROWNFIELDS - PA	Historical Brownfields

STATE AND TRIBAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS

INACTIVE LF - PA	Inactive Land Fills
SWF/LF - PA	Solid Waste Facilities and Landfills

STATE- AND TRIBAL - EQUIVALENT CERCLIS

HSCA - PA	Hazardous Site Cleanup Act
HSCA REM - PA	Hazardous Site Cleanup Act Remediation

STATE INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES

I C - PA	Institutional Controls

STATE AND TRIBAL VOLUNTARY CLEANUP SITES

VCP - PA	Voluntary Cleanup Program

LOCAL LISTS OF LANDFILL / SOLID WASTE DISPOSAL SITES

DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Sites
INDIAN ODI R8	Open Dump Inventory
ODI	Open Dump Inventory
TRIBAL ODI	Indian Open Dump Inventory Sites

LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES

FED CDL	DOJ Clandestine Drug Labs
US HIST CDL	Historical Clandestine Drug Labs

LOCAL BROWNFIELD LISTS

FED BROWNFIELDS	Federal Brownfields

RECORDS OF EMERGENCY RELEASE REPORTS

HMIRS (DOT)	Hazardous Materials Information Reporting Systems
SPILLS - PA	Chemical Spills

LOCAL LAND RECORDS

LIENS 2	CERCLA Lien Information

OTHER ASCERTAINABLE RECORDS

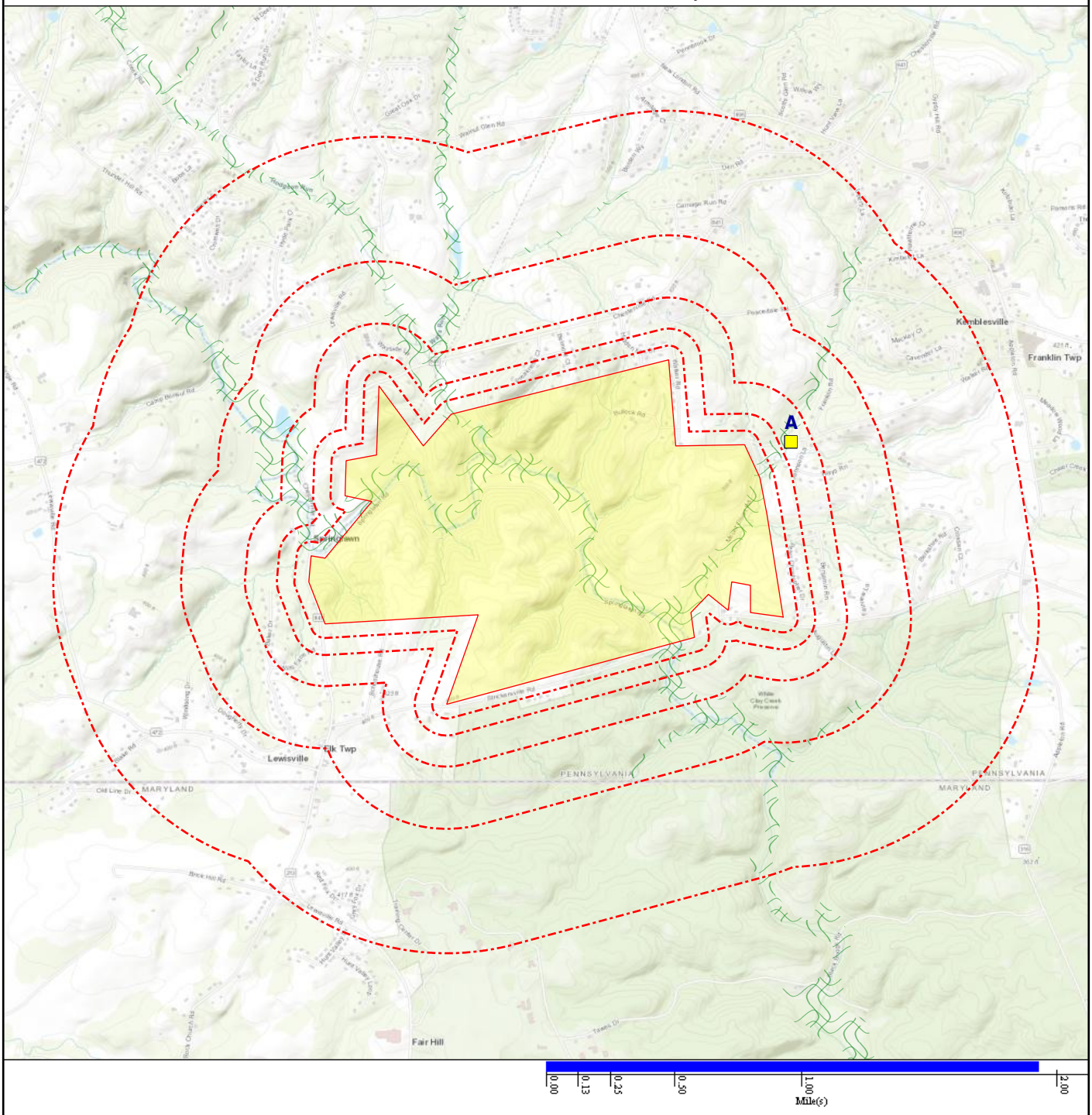
AFS	Air Facility Systems

OTHER ASCERTAINABLE RECORDS *(cont.)*

BRS	Biennial Reporting Systems
CDC HAZDAT	Hazardous Substance Release and Health Effects Information
COAL ASH DOE	Coal Ash: Department of Energy
COAL ASH EPA	Coal Ash: Environmental Protection Agency
COAL GAS	Coal Gas Plants
CONSENT (DECREES)	Superfund Consent Decree
CORRECTIVE ACTIONS_2020	Wastes - Hazardous Waste - Corrective Action
DIGITAL OBSTACLE	Obstacles of interest to aviation users
DOD	Department of Defense
DOT OPS	Department of Transportation Office of Pipeline Safety
ECHO	EPA Enforcement and Compliance History Online
ENOI	Electronic Notice of Intent
EPA FUELS	EPA Fuels Registration, Reporting, and Compliance List
EPA OSC	EPA On-Site Coordinator
EPA WATCH	EPA Watch List
FA HWF	Financial Assurance for Hazardous Waste Facilities
FEDLAND	Federal Lands
FRS	Facility Index Systems
FTTS	FIFRA/TSCA Tracking System
FTTS INSP	FIFRA/TSCA Tracking System: Inspections
FUDS	Formerly Used Defense Sites
HIST AFS	Historical Air Facility Systems
HWC DOCKET	Hazardous Waste Compliance Docket
ICIS	Integrated Compliance Information System
INDIAN RESERVATION	Indian Reservations
LEAD_SMELTER	Lead Smelter Sites
LUCIS	Land Use Control Information Systems
LUCIS 2	Land Use Control Information Systems 2
MINES	Mines
MLTS	Material Licensing Tracking Systems
NPL AOC	Areas related to NPL remediation sites
NPL LIENS	National Priority List Liens
OSHA	Occupational Safety & Health Administration
PADS	PCB Activity Database Systems
PCB TRANSFORMER	Polychlorinated Biphenyls Transformers
RAATS	RCRA Administrative Action Tracking Systems
RADINFO	Radiation Information Systems
RMP	Risk Management Plans
ROD	Record of Decision
SCRD DRYCLEANERS	SCRD Drycleaners
SEMS_SMELTER	Sites on SEMS Potential Smelter Activity
SSTS	Section 7 Tracking Systems
TOSCA-CHEMICAL	Toxic Substance Control Act: Chemicals
TOSCA-PLANT	Toxic Substance Control Act: Plants
TRIS	Toxic Release Inventory Systems
UMTRA	Uranium Mill Tailing Sites
ACT 2 DEED - PA	Deed Acknowledgment locations
AIRS - PA	Air Permits
ARCT - PA	Archived Storage Tanks
AUL - PA	Activity Use Limitations
DRYCLEANERS - PA	Drycleaners
EFACTS ENV REMEDIATION - PA	Environmental Cleanup & Brownfields records from the PA eFACTS.
EMI - PA	Air Emissions
MANIFEST - PA	Manifest information
UIC - PA	Underground Injection Controls

SUBJECT NAME: Strawbridge Property
ADDRESS: Walker Road and Mount Olivet Road, Franklin...
LAT/LONG: 39.736396 / -75.858168

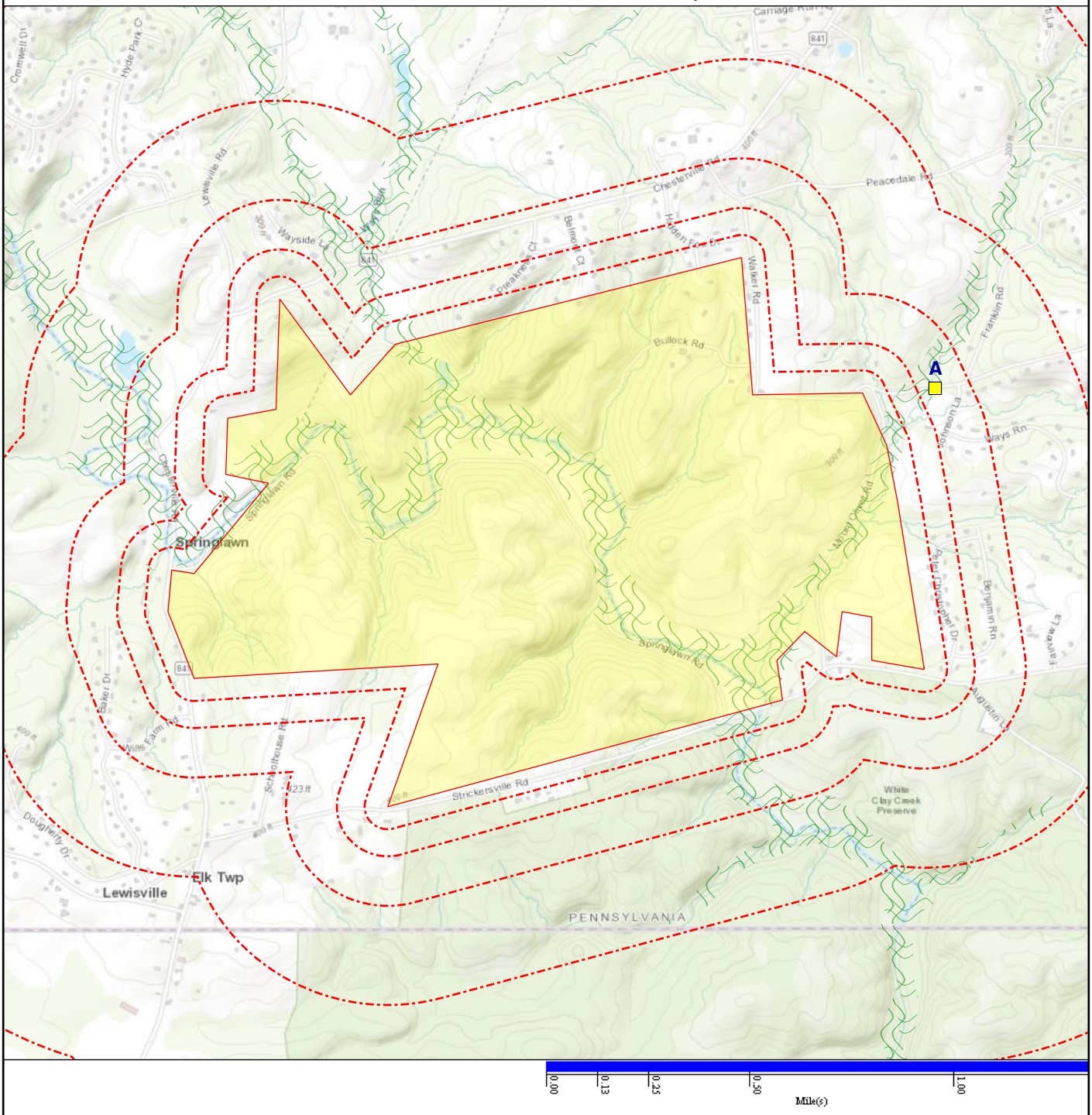
PREPARED FOR: Ten Bears Environmental Associates Co
ORDER #: 21199
REPORT DATE: June 28, 2018



- Subject Property
- National Priority List (No Data)
- FEMA FloodZone 500 (No Data)
- Equal/Higher Elevation
- Federal Lands (No Data)
- Department of Defense (No Data)
- Lower Elevation
- CDC HAZDAT (No Data)
- DFIRM Floodzone 500 (No Data)
- FEMA FloodZone 100
- Indian Reservation (No Data)
- DFIRM Floodzone 100

SUBJECT NAME: Strawbridge Property
ADDRESS: Walker Road and Mount Olivet Road, Franklin...
LAT/LONG: 39.736396 / -75.858168

PREPARED FOR: Ten Bears Environmental Associates Co
ORDER #: 21199
REPORT DATE: June 28, 2018



- Subject Property
- Equal/Higher Elevation
- Lower Elevation
- FEMA FloodZone 100
- National Priority List (No Data)
- Federal Lands (No Data)
- CDC HAZDAT (No Data)
- Indian Reservation (No Data)
- FEMA FloodZone 500 (No Data)
- Department of Defense (No Data)
- DFIRM Floodzone 500 (No Data)
- DFIRM Floodzone 100

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
FEDERAL RCRA NON-CORRACTS TSD FACILITIES LIST								
ARCHIVED RCRA TSDF		0.500	0	0	0	--	--	0
RCRA_TSDF		0.500	0	0	0	--	--	0
FEDERAL CERCLIS LIST								
CERCLIS NFRAP		0.500	0	0	0	--	--	0
CERCLIS-HIST		0.500	0	0	0	--	--	0
FEDERAL FACILITY		1.000	0	0	0	0	--	0
SEMS_8R_ACTIVE SITES		0.500	0	0	0	--	--	0
SEMS_8R_ARCHIVED SITES		0.500	0	0	0	--	--	0
FEDERAL RCRA CORRACTS FACILITIES LIST								
CORRACTS		1.000	0	0	0	0	--	0
FEDERAL DELISTED NPL SITE LIST								
DELISTED NPL		1.000	0	0	0	0	--	0
DELISTED PROPOSED NPL		1.000	0	0	0	0	--	0
SEMS_DELETED NPL		1.000	0	0	0	0	--	0
FEDERAL ERNS LIST								
ERNS		SP	--	--	--	--	--	0
FEDERAL INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES								
FED E C		0.500	0	0	0	--	--	0
FED I C		0.500	0	0	0	--	--	0
RCRA IC_EC		0.250	0	0	--	--	--	0
E C - PA		0.500	0	0	0	--	--	0
FEDERAL NPL SITE LIST								
NPL		1.000	0	0	0	0	--	0
NPL EPA R1 GIS		1.000	0	0	0	0	--	0
NPL EPA R3 GIS		1.000	0	0	0	0	--	0
NPL EPA R6 GIS		1.000	0	0	0	0	--	0
NPL EPA R8 GIS		1.000	0	0	0	0	--	0
NPL EPA R9 GIS		1.000	0	0	0	0	--	0
PART NPL		1.000	0	0	0	0	--	0
PROPOSED NPL		1.000	0	0	0	0	--	0
SEMS_FINAL NPL		1.000	0	0	0	0	--	0
SEMS_PROPOSED NPL		1.000	0	0	0	0	--	0

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
FEDERAL RCRA GENERATORS LIST								
RCRA_CESQG		0.250	0	0	--	--	--	0
RCRA_FULL_DETAIL		0.250	0	0	--	--	--	0
RCRA_LQG		0.250	0	0	--	--	--	0
RCRA_NONGEN		0.250	0	0	--	--	--	0
RCRA_SQG		0.250	0	0	--	--	--	0
STATE AND TRIBAL REGISTERED STORAGE TANK LISTS								
FEMA UST		0.250	0	0	--	--	--	0
INDIAN UST R1		0.250	0	0	--	--	--	0
INDIAN UST R10		0.250	0	0	--	--	--	0
INDIAN UST R2		0.250	0	0	--	--	--	0
INDIAN UST R4		0.250	0	0	--	--	--	0
INDIAN UST R5		0.250	0	0	--	--	--	0
INDIAN UST R6		0.250	0	0	--	--	--	0
INDIAN UST R7		0.250	0	0	--	--	--	0
INDIAN UST R8		0.250	0	0	--	--	--	0
INDIAN UST R9		0.250	0	0	--	--	--	0
AST - PA		0.250	0	0	--	--	--	0
UST - PA		0.250	0	0	--	--	--	0
STATE AND TRIBAL LEAKING STORAGE TANK LISTS								
INDIAN LUST R1		0.500	0	0	0	--	--	0
INDIAN LUST R10		0.500	0	0	0	--	--	0
INDIAN LUST R2		0.500	0	0	0	--	--	0
INDIAN LUST R4		0.500	0	0	0	--	--	0
INDIAN LUST R5		0.500	0	0	0	--	--	0
INDIAN LUST R6		0.500	0	0	0	--	--	0
INDIAN LUST R7		0.500	0	0	0	--	--	0
INDIAN LUST R8		0.500	0	0	0	--	--	0
INDIAN LUST R9		0.500	0	0	0	--	--	0
LAST - PA		0.500	0	0	0	--	--	0
LUST - PA		0.500	0	0	0	--	--	0
URLT - PA		0.500	0	0	0	--	--	0
STATE BROWNFIELD LIST								
TRIBAL BROWNFIELDS		0.500	0	0	0	--	--	0
BROWNFIELDS - PA		0.500	0	0	0	--	--	0
HIST BROWNFIELDS - PA		0.500	0	0	0	--	--	0

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
STATE AND TRIBAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS								
ABANDONED LF - PA		0.500	0	1	0	--	--	1
HIST LF INVENTORY - PA		0.500	0	1	0	--	--	1
INACTIVE LF - PA		0.500	0	0	0	--	--	0
SWF/LF - PA		0.500	0	0	0	--	--	0
STATE- AND TRIBAL - EQUIVALENT CERCLIS								
HSCA - PA		1.000	0	0	0	0	--	0
HSCA REM - PA		1.000	0	0	0	0	--	0
STATE INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES								
I C - PA		0.500	0	0	0	--	--	0
STATE AND TRIBAL VOLUNTARY CLEANUP SITES								
VCP - PA		0.500	0	0	0	--	--	0
LOCAL LISTS OF LANDFILL / SOLID WASTE DISPOSAL SITES								
DEBRIS REGION 9		0.500	0	0	0	--	--	0
INDIAN ODI R8		0.500	0	0	0	--	--	0
ODI		0.500	0	0	0	--	--	0
TRIBAL ODI		0.500	0	0	0	--	--	0
LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES								
FED CDL		SP	--	--	--	--	--	0
US HIST CDL		SP	--	--	--	--	--	0
LOCAL BROWNFIELD LISTS								
FED BROWNFIELDS		0.500	0	0	0	--	--	0
RECORDS OF EMERGENCY RELEASE REPORTS								
HMIRS (DOT)		SP	--	--	--	--	--	0
SPILLS - PA		0.125	0	--	--	--	--	0
LOCAL LAND RECORDS								
LIENS 2		SP	--	--	--	--	--	0
OTHER ASCERTAINABLE RECORDS								
AFS		SP	--	--	--	--	--	0
BRS		SP	--	--	--	--	--	0
CDC HAZDAT		1.000	0	0	0	0	--	0
COAL ASH DOE		0.500	0	0	0	--	--	0
COAL ASH EPA		0.500	0	0	0	--	--	0

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
OTHER ASCERTAINABLE RECORDS *(cont.)*								
COAL GAS		1.000	0	0	0	0	--	0
CONSENT (DECREES)		1.000	0	0	0	0	--	0
CORRECTIVE ACTIONS_2020		0.500	0	0	0	--	--	0
DIGITAL OBSTACLE		1.000	0	0	0	0	--	0
DOD		1.000	0	0	0	0	--	0
DOT OPS		SP	--	--	--	--	--	0
ECHO		SP	--	--	--	--	--	0
ENOI		SP	--	--	--	--	--	0
EPA FUELS		SP	--	--	--	--	--	0
EPA OSC		0.125	0	--	--	--	--	0
EPA WATCH		SP	--	--	--	--	--	0
FA HWF		SP	--	--	--	--	--	0
FEDLAND		1.000	0	0	0	0	--	0
FRS		SP	--	--	--	--	--	0
FTTS		SP	--	--	--	--	--	0
FTTS INSP		SP	--	--	--	--	--	0
FUDS		1.000	0	0	0	0	--	0
HIST AFS		SP	--	--	--	--	--	0
HWC DOCKET		SP	--	--	--	--	--	0
ICIS		SP	--	--	--	--	--	0
INDIAN RESERVATION		1.000	0	0	0	0	--	0
LEAD_SMELTER		SP	--	--	--	--	--	0
LUCIS		0.500	0	0	0	--	--	0
LUCIS 2		0.500	0	0	0	--	--	0
MINES		0.250	0	0	--	--	--	0
MLTS		SP	--	--	--	--	--	0
NPL AOC		1.000	0	0	0	0	--	0
NPL LIENS		SP	--	--	--	--	--	0
OSHA		SP	--	--	--	--	--	0
PADS		SP	--	--	--	--	--	0
PCB TRANSFORMER		SP	--	--	--	--	--	0
RAATS		SP	--	--	--	--	--	0
RADINFO		SP	--	--	--	--	--	0
RMP		0.500	0	0	0	--	--	0
ROD		1.000	0	0	0	0	--	0
SCRD DRYCLEANERS		0.250	0	0	--	--	--	0

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
OTHER ASCERTAINABLE RECORDS *(cont.)*								
SEMS_SMELTER		SP	--	--	--	--	--	0
SSTS		SP	--	--	--	--	--	0
TOSCA-CHEMICAL		SP	--	--	--	--	--	0
TOSCA-PLANT		SP	--	--	--	--	--	0
TRIS		SP	--	--	--	--	--	0
UMTRA		0.500	0	0	0	--	--	0
ACT 2 DEED - PA		0.500	0	0	0	--	--	0
AIRS - PA		SP	--	--	--	--	--	0
ARCT - PA		0.250	0	0	--	--	--	0
AUL - PA		0.500	0	0	0	--	--	0
DRYCLEANERS - PA		0.250	0	0	--	--	--	0
EFACTS - PA		0.500	0	1	0	--	--	1
EFACTS ENV REMEDIATION - PA		0.500	0	0	0	--	--	0
EMI - PA		SP	--	--	--	--	--	0
MANIFEST - PA		0.250	0	0	--	--	--	0
UIC - PA		SP	--	--	--	--	--	0

Map Id: A1
Direction: ENE
Distance: 0.171 mi.
Actual: 902.337 ft.
Elevation: 0.043 mi. / 226.762 ft.
Relative: Lower

Site Name : FRANKLIN TWP DUMP
39.741666171281224,
-75.8401674750721
PA

Database(s) : [HIST LF INVENTORY - PA]

Envirosite ID: 398193880
EPA ID: N/R

HIST LF INVENTORY - PA

Site ID :	616602.0
Site Name :	FRANKLIN TWP DUMP
Organization :	FRANKLIN TWP DUMP
Site Status :	ABANDONED
Client ID :	999999.0
Client Name :	FRANKLIN TWP DUMP
Client Relationship :	N/A
Primary Facility ID :	637749.0
Primary Facility Name :	FRANKLIN TWP. DUMP
Primary Facility Status :	INACTIVE
Primary Facility Type :	MUNICIPAL WASTE OPERATION
Primary Facility Kind :	Unavailable
Sub Facility ID :	771479.0
Sub Other Facility ID :	1-131
Sub Facility Name :	FRANKLIN TWP. DUMP
Sub Facility Status :	ABANDONED
Sub Facility Type :	LANDFILL - ABANDONED
Other Facility ID :	1-131
Compliance :	YES

Map Id: A2
Direction: ENE
Distance: 0.171 mi.
Actual: 903.116 ft.
Elevation: 0.043 mi. / 226.762 ft.
Relative: Lower

Site Name : FRANKLIN TWP. DUMP
N/R
PA

Database(s) : [EFACTS - PA]

Envirosite ID: 321915140
EPA ID: N/R

EFACTS - PA

Facility ID :	637749
Status :	Inactive
DER Code :	132
Municipality :	Franklin Township
Program :	Waste Management

Sub-Facility Details

Sub Facility Name :	N/R
Status :	N/R
Type :	N/R
Other ID :	N/R

Permit Details

Date Received :	N/R
Permit Number :	N/R
Status :	N/R
Authorization :	N/R

Map Id: A2
Direction: ENE
Distance: 0.171 mi.
Actual: 903.116 ft.
Elevation: 0.043 mi. / 226.762 ft.
Relative: Lower

Site Name : FRANKLIN TWP. DUMP
N/R
PA

Database(s) : [EFACTS - PA] ***(cont.)***

Envirosite ID: 321915140
EPA ID: N/R

EFACTS - PA ***(cont.)***

Authorization Details

Date Received :	N/R
Authorization ID :	N/R
Permit Number :	N/R
Status :	N/R
Authorization Status :	N/R
Site :	N/R
Client :	N/R
Authorization Type :	N/R
Application Type :	N/R
Authorization is for :	N/R
Permit Decision Guarantee :	N/R
Elapsed Business Days :	N/R

Authorization Sub Facilities

Sub-Facility ID :	N/R
Sub-Facility Name :	N/R
Description :	N/R

Permit Review Standard Task Information

Start Date :	N/R
Target Date :	N/R
Completion Date :	N/R
Task :	N/R

Permit Review Notes

Date :	N/R
Review Note :	N/R

Inspection Details

Inspection Date :	N/R
Inspection Type :	N/R
Result :	N/R

Air Emission Details

Year :	N/R
Emission Amount (tons/year) :	N/R
Analyte :	N/R

Map Id: A3
Direction: ENE
Distance: 0.171 mi.
Actual: 903.116 ft.
Elevation: 0.043 mi. / 226.762 ft.
Relative: Lower

Site Name :	FRANKLIN TWP. DUMP N/R PA
Database(s) :	[ABANDONED LF - PA]

Envirosite ID: 360500595
EPA ID: N/R

ABANDONED LF - PA

Facility Name :	FRANKLIN TWP. DUMP
Facility Address :	N/R
County :	N/R
Primary Facility ID :	637749
Primary Facility Status Code ID :	N/R
Primary Facility Status Code :	N/R
Primary Facility Type ID :	N/R
Primary Facility Type :	N/R
County ID :	Chester
Site ID :	616602
Site Name :	FRANKLIN TWP DUMP
Primary Facility Type Code :	MWO
Primary Facility Status :	Inactive
Sub Facility ID :	771479
Sub Facility Other ID :	1-131
Sub Facility Name :	FRANKLIN TWP. DUMP
Sub Facility Type :	N/R
Sub Facility Type ID :	N/R
Sub Facility Type Code :	MWLF
Sub Facility Status :	Abandoned
Sub Facility Status Code ID :	1-131
Date of Closure :	N/R
Attribute Description :	N/R
Average Daily Volume :	N/R
Maximum Daily Volume :	N/R
Permitted Acres :	N/R
Municipality ID :	N/R
Municipality Name :	Franklin Twp
Latitude :	39.741674
Longitude :	-75.840169
Last Date in Agency List :	02/16/2018

Unmappable Summary

2018

ENVIROSITE ID	NAME	ADDRESS	CITY	ZIP	DATABASE(S)
333967915	BELLA MUSHROOM FARMS	RR 1 BOX 165B	LANDENBERG	19350	EFACTS ENV Remediat...
333979956	CHESTER HILLS FARM	WICKERTON RD	LANDENBERG	19350	EFACTS ENV Remediat...
333985364	CURTIS GREER FARM	PENN GREEN RD	LANDENBERG	19350	EFACTS ENV Remediat...
337158209	CVS PHARMACY 7183	730 NEWARK RD	LANDENBERG	19350	BRS, RCRA_LQG
27229570	EASTERN SHORE NATURAL GAS ...	LONDONDERRY TWP			EFACTS - PA, FRS
340646551	ESNG PIPELINE SEGMENTS 1 AN...	HIGHLAND TWP			EFACTS - PA
342441041	FISHER'S SANITARY SERVICE	RR 1	KUTZTOWN	19350	EFACTS - PA
354023603	GIOFFREDI MUSHROOMS INC	PENN GREEN RD	LANDENBURG	19350	EFACTS ENV Remediat...
354025645	LANDENBURG	1/4 MI S OF NEWARK & SUNNY DELL	LANDENBURG	19350	EFACTS ENV Remediat...
340698288	LAWRENCE FARM	RR 1 BOX 185	LANDENBERG	19350	EFACTS - PA
334019343	LEONE PIZZINI & SON	RR 1 BOX 96	LANDENBERG	19350	EFACTS ENV Remediat...
340709978	LOT B5 - NICHOLS SUBD	WALKER RD	LANDENBERG	19350	EFACTS - PA
340681149	MACKIE PROPERTY DEV	PEACEDALE RD	LANDENBERG	19350	EFACTS - PA
333994553	MANFREDINI MUSHROOM FARM	PENN GREEN RD	LANDENBERG	19350	EFACTS ENV Remediat...
340752986	SARANA PROPERTY	PA SR 841	LANDENBERG	19350	EFACTS - PA
340718950	SCHADD POND PESTICIDES	107 LAVENDER LANE	LANDENBERG	19350	EFACTS - PA
351351355	TURKEY HILL 168	735 NEWARK RD	LANDENBERG	19350	EFACTS ENV Remediat...
14510083	TUTTLE & MANET	399C FLEETWOOD RD	COATESVILLE	19350	RCRA_NONGEN
334035376	US POSTAL SVC	PENN GREEN RD	LANDENBERG	19350	EFACTS ENV Remediat...

FEDERAL RCRA NON-CORRACTS TSD FACILITIES LIST

ARCHIVED RCRA TSDF: Resource Conservation and Recovery Act hazardous waste transportation storage disposal and treatment facilities

Agency Version Date: 03/16/2018
Agency Update Frequency: Varies
Planned Next Contact: 08/03/2018
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 05/25/2018

RCRA_TSDF: Resource Conservation and Recovery Act hazardous waste transportation storage disposal and treatment facilities

Agency Version Date: 03/16/2018
Agency Update Frequency: Quarterly
Planned Next Contact: 08/03/2018
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 05/25/2018

FEDERAL CERCLIS LIST

CERCLIS NFRAP: The CERCLIS sites with No Further Remedial Action Planned from the CERCLIS program database. The Environmental Protection Agency decommissioned the CERCLIS data in 2014. The last update was November 12, 2013.

Agency Version Date: 10/25/2013
Agency Update Frequency: Quarterly
Planned Next Contact: 09/03/2018
Agency: U.S. Environmental Protection Agency
Agency Contact: 800-424-9346
Most Recent Contact: 06/25/2018

CERCLIS-HIST: The CERCLIS program database contains information on the assessment and remediation of federal hazardous waste sites. The Environmental Protection Agency decommissioned the CERCLIS data in 2014. The last update was November 12, 2013.

Agency Version Date: 11/05/2016
Agency Update Frequency: Quarterly
Planned Next Contact: 09/03/2018
Agency: U.S. Environmental Protection Agency
Agency Contact: 800-424-9346
Most Recent Contact: 06/25/2018

FEDERAL FACILITY: Sites where Federal Facilities Restoration and Reuse Office (FFRRO) arranged cleanup for Base Closure and Property Transfer at Federal Facilities

Agency Version Date: 01/02/2018
Agency Update Frequency: Varies
Planned Next Contact: 09/03/2018
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8712
Most Recent Contact: 06/25/2018

SEMS_8R_ACTIVE SITES: The Active Site Inventory Report displays site and location information at active SEMS sites. An active site is one at which site assessment, removal, remedial, enforcement, cost recovery, or oversight activities are being planned or conducted. NPL sites include latitude and longitude information. For non-NPL sites, a brief site status is provided.

Agency Version Date: 12/11/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 09/03/2018
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 06/25/2018

SEMS_8R_ARCHIVED SITES: The Archived Site Inventory displays site and location information at sites archived from SEMS. An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time.

Agency Version Date: 12/11/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 09/03/2018
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 06/25/2018

FEDERAL RCRA CORRACTS FACILITIES LIST

CORRACTS: List of facilities where Resource Conservation and Recovery Act Corrective Action Program used to investigate and remediate hazardous releases

Agency Version Date: 03/16/2018
Agency Update Frequency: Quarterly
Planned Next Contact: 08/03/2018
Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-1667
Most Recent Contact: 05/25/2018

FEDERAL DELISTED NPL SITE LIST

DELISTED NPL: National Priority List of sites that were delisted and no longer require action

Agency Version Date: 01/02/2018
Agency Update Frequency: Quarterly
Planned Next Contact: 09/03/2018
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 06/25/2018

DELISTED PROPOSED NPL: Sites that have been delisted from the proposed National Priority List

Agency Version Date: 01/02/2018
Agency Update Frequency: Quarterly
Planned Next Contact: 09/03/2018
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 06/25/2018

SEMS_DELETED NPL: All Deleted National Priority List Sties

Agency Version Date: 12/11/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 09/03/2018
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 06/25/2018

FEDERAL ERNS LIST

ERNS: Emergency Response Notification System records of reported spills

Agency Version Date: 04/18/2018
Agency Update Frequency: Annually
Planned Next Contact: 09/05/2018
Agency: National Response Center United States Coast Guard
Agency Contact: N/R
Most Recent Contact: 06/27/2018

FEDERAL INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES

Fed E C: Federal listing of remediation sites with engineering controls

Agency Version Date: 02/21/2018
Agency Update Frequency: Varies
Planned Next Contact: 07/11/2018
Agency: U.S. Environmental Protection Agency
Agency Contact: 800-424-9346
Most Recent Contact: 05/02/2018

Fed I C: Federal listing of remediation sites with institutional controls

Agency Version Date: 02/21/2018
Agency Update Frequency: Varies
Planned Next Contact: 07/11/2018
Agency: U.S. Environmental Protection Agency
Agency Contact: 800-424-9346
Most Recent Contact: 05/02/2018

RCRA IC_EC: Sites with institutional or engineering controls related to Resource Conservation and Recovery Act

Agency Version Date: 03/16/2018
Agency Update Frequency: Varies
Planned Next Contact: 08/03/2018
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 05/25/2018

E C - PA: Sites with Engineering Controls

Agency Version Date: 12/01/2017
Agency Update Frequency: No update
Planned Next Contact: 06/29/2018
Agency: Department of Environmental Protection
Agency Contact: (717) 783-1566
Most Recent Contact: 04/20/2018

FEDERAL NPL SITE LIST

NPL: List of priority contaminated sites among identified releases or threatened releases of hazardous substances pollutants or contaminants nationally

Agency Version Date: 01/02/2018
Agency Update Frequency: Quarterly
Planned Next Contact: 09/03/2018
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 06/25/2018

NPL EPA R1 GIS: Geospatial data for the Environmental Protection Agency Region 1 National Priority List subject to environmental regulation

Agency Version Date: 01/02/2018
Agency Update Frequency: Quarterly
Planned Next Contact: 09/03/2018
Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-2132
Most Recent Contact: 06/25/2018

NPL EPA R3 GIS: Geospatial data for the Environmental Protection Agency Region 3 National Priority List subject to environmental regulation

Agency Version Date: 04/09/2018
Agency Update Frequency: Quarterly
Planned Next Contact: 08/14/2018
Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-2132
Most Recent Contact: 06/05/2018

NPL EPA R6 GIS: Geospatial data for the Environmental Protection Agency Region 6 National Priority List subject to environmental regulation

Agency Version Date: 01/18/2018
Agency Update Frequency: Quarterly
Planned Next Contact: 09/03/2018
Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-2132
Most Recent Contact: 06/25/2018

NPL EPA R8 GIS: Geospatial data for the Environmental Protection Agency Region 8 National Priority List subject to environmental regulation

Agency Version Date: 01/02/2018
Agency Update Frequency: Quarterly
Planned Next Contact: 09/03/2018
Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-2132
Most Recent Contact: 06/25/2018

NPL EPA R9 GIS: Geospatial data for the Environmental Protection Agency Region 9 National Priority List subject to environmental regulation

Agency Version Date: 01/02/2018
Agency Update Frequency: Quarterly
Planned Next Contact: 09/03/2018
Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-2132
Most Recent Contact: 06/25/2018

PART NPL: Sites that are a part of an National Priority List site referred to as the parent site

Agency Version Date: 01/02/2018
Agency Update Frequency: Quarterly
Planned Next Contact: 09/03/2018
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 06/25/2018

PROPOSED NPL: Sites that have been proposed for the National Priority List

Agency Version Date: 01/02/2018
Agency Update Frequency: Quarterly
Planned Next Contact: 09/03/2018
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 06/25/2018

SEMS_FINAL NPL: All Included National Priority List Sites

Agency Version Date: 10/10/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 09/03/2018
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 06/25/2018

FEDERAL NPL SITE LIST (cont.)

SEMS_PROPOSED NPL: All Proposed National Priority List Sites

Agency Version Date: 12/11/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 09/03/2018
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 06/25/2018

FEDERAL RCRA GENERATORS LIST

RCRA_CESQG: Resource Conservation and Recovery Act listing of licensed conditionally exempt small quantity generators

Agency Version Date: 03/16/2018
Agency Update Frequency: Varies
Planned Next Contact: 08/03/2018
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 05/25/2018

RCRA_FULL_DETAIL: Full detail of related sites to the Resource Conservation and Recovery Act

Agency Version Date: 03/16/2018
Agency Update Frequency: Varies
Planned Next Contact: 08/03/2018
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 05/25/2018

RCRA_LQG: Resource Conservation and Recovery Act listing of licensed large quantity generators

Agency Version Date: 03/16/2018
Agency Update Frequency: Quarterly
Planned Next Contact: 08/03/2018
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 05/25/2018

RCRA_NONGEN: Resource Conservation and Recovery Act listing of licensed non-generators

Agency Version Date: 03/16/2018
Agency Update Frequency: Varies
Planned Next Contact: 08/03/2018
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 05/25/2018

RCRA_SQG: Resource Conservation and Recovery Act listing of licensed small quantity generators

Agency Version Date: 03/16/2018
Agency Update Frequency: Quarterly
Planned Next Contact: 08/03/2018
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 05/25/2018

STATE AND TRIBAL REGISTERED STORAGE TANK LISTS

FEMA UST: FEMA underground storage tank listing

Agency Version Date: 12/14/2017
Agency Update Frequency: Varies
Planned Next Contact: 07/24/2018
Agency: FEMA
Agency Contact: 202-212-5283
Most Recent Contact: 04/27/2018

INDIAN UST R1: Underground Storage Tanks on Indian Land in EPA Region 1

Agency Version Date: 10/14/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 08/21/2018
Agency: U.S. Environmental Protection Agency Region 1
Agency Contact: 855-246-3642
Most Recent Contact: 06/12/2018

INDIAN UST R10: Underground Storage Tanks on Indian Land in EPA Region 10

Agency Version Date: 10/24/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 07/09/2018
Agency: U.S. Environmental Protection Agency Region 10
Agency Contact: 855-246-3642
Most Recent Contact: 04/30/2018

STATE AND TRIBAL REGISTERED STORAGE TANK LISTS (cont.)

INDIAN UST R2: Underground Storage Tanks on Indian Land in EPA Region 2

Agency Version Date: 12/07/2016
Agency Update Frequency: Quarterly
Planned Next Contact: 08/27/2018
Agency: U.S. Environmental Protection Agency Region 2
Agency Contact: 855-246-3642
Most Recent Contact: 06/18/2018

INDIAN UST R4: Underground Storage Tanks on Indian Land in EPA Region 4

Agency Version Date: 10/14/2017
Agency Update Frequency: Semi Annually
Planned Next Contact: 07/09/2018
Agency: U.S. Environmental Protection Agency Region 4
Agency Contact: 855-246-3642
Most Recent Contact: 04/30/2018

INDIAN UST R5: Underground Storage Tanks on Indian Land in EPA Region 5

Agency Version Date: 10/16/2017
Agency Update Frequency: Varies
Planned Next Contact: 09/06/2018
Agency: U.S. Environmental Protection Agency Region 5
Agency Contact: 855-246-3642
Most Recent Contact: 06/28/2018

INDIAN UST R6: Underground Storage Tanks on Indian Land in EPA Region 6

Agency Version Date: 10/06/2017
Agency Update Frequency: Semi Annually
Planned Next Contact: 07/12/2018
Agency: U.S. Environmental Protection Agency Region 6
Agency Contact: 855-246-3642
Most Recent Contact: 05/03/2018

INDIAN UST R7: Underground Storage Tanks on Indian Land in EPA Region 7

Agency Version Date: 10/12/2017
Agency Update Frequency: Varies
Planned Next Contact: 09/06/2018
Agency: U.S. Environmental Protection Agency Region 7
Agency Contact: 855-246-3642
Most Recent Contact: 06/28/2018

INDIAN UST R8: Underground Storage Tanks on Indian Land in EPA Region 8

Agency Version Date: 04/02/2018
Agency Update Frequency: Quarterly
Planned Next Contact: 08/20/2018
Agency: U.S. Environmental Protection Agency Region 8
Agency Contact: 855-246-3642
Most Recent Contact: 06/11/2018

INDIAN UST R9: Underground Storage Tanks on Indian Land in EPA Region 9

Agency Version Date: 01/22/2018
Agency Update Frequency: Quarterly
Planned Next Contact: 08/20/2018
Agency: U.S. Environmental Protection Agency Region 9
Agency Contact: 855-246-3642
Most Recent Contact: 06/11/2018

AST - PA: Registered Aboveground Storage Tanks

Agency Version Date: 04/10/2018
Agency Update Frequency: Varies
Planned Next Contact: 08/28/2018
Agency: Department of Environmental Protection
Agency Contact: (717) 772-5599
Most Recent Contact: 06/19/2018

UST - PA: Registered Underground Storage Tanks

Agency Version Date: 04/10/2018
Agency Update Frequency: Varies
Planned Next Contact: 08/28/2018
Agency: Department of Environmental Protection
Agency Contact: (717) 772-5599
Most Recent Contact: 06/19/2018

STATE AND TRIBAL LEAKING STORAGE TANK LISTS

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land in EPA Region 1

Agency Version Date: 10/14/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 08/21/2018
Agency: U.S. Environmental Protection Agency Region 1
Agency Contact: 855-246-3642
Most Recent Contact: 06/12/2018

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land in EPA Region 10

Agency Version Date: 10/24/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 07/09/2018
Agency: U.S. Environmental Protection Agency Region 10
Agency Contact: 855-246-3642
Most Recent Contact: 04/30/2018

INDIAN LUST R2: Leaking Underground Storage Tanks on Indian Land in EPA Region 2

Agency Version Date: 12/07/2016
Agency Update Frequency: Quarterly
Planned Next Contact: 08/27/2018
Agency: U.S. Environmental Protection Agency Region 2
Agency Contact: 855-246-3642
Most Recent Contact: 06/18/2018

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land in EPA Region 4

Agency Version Date: 10/14/2017
Agency Update Frequency: Semi Annually
Planned Next Contact: 07/09/2018
Agency: U.S. Environmental Protection Agency Region 4
Agency Contact: 855-246-3642
Most Recent Contact: 04/30/2018

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land in EPA Region 5

Agency Version Date: 10/16/2017
Agency Update Frequency: Varies
Planned Next Contact: 09/06/2018
Agency: U.S. Environmental Protection Agency Region 5
Agency Contact: 855-246-3642
Most Recent Contact: 06/28/2018

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land in EPA Region 6

Agency Version Date: 10/06/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 07/02/2018
Agency: U.S. Environmental Protection Agency Region 6
Agency Contact: 855-246-3642
Most Recent Contact: 04/23/2018

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land in EPA Region 7

Agency Version Date: 09/21/2017
Agency Update Frequency: Varies
Planned Next Contact: 09/06/2018
Agency: U.S. Environmental Protection Agency Region 7
Agency Contact: 855-246-3642
Most Recent Contact: 06/28/2018

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land in EPA Region 8

Agency Version Date: 10/12/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 06/29/2018
Agency: U.S. Environmental Protection Agency Region 8
Agency Contact: 855-246-3642
Most Recent Contact: 04/20/2018

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land in EPA Region 9

Agency Version Date: 04/10/2018
Agency Update Frequency: Quarterly
Planned Next Contact: 08/20/2018
Agency: U.S. Environmental Protection Agency Region 9
Agency Contact: 855-246-3642
Most Recent Contact: 06/11/2018

LAST - PA: Leaking Aboveground Storage Tanks

Agency Version Date: 04/10/2018
Agency Update Frequency: Varies
Planned Next Contact: 08/28/2018
Agency: Department of Environmental Protection
Agency Contact: (717) 783-1566
Most Recent Contact: 06/19/2018

STATE AND TRIBAL LEAKING STORAGE TANK LISTS (cont.)

LUST - PA: Leaking Underground Storage Tanks

Agency Version Date: 04/10/2018
Agency Update Frequency: Varies
Planned Next Contact: 08/28/2018
Agency: Department of Environmental Protection
Agency Contact: (717) 783-1566
Most Recent Contact: 06/19/2018

URLT - PA: Unregulated Tanks with leaks

Agency Version Date: 04/10/2018
Agency Update Frequency: Varies
Planned Next Contact: 08/28/2018
Agency: Department of Environmental Protection
Agency Contact: (717) 783-1566
Most Recent Contact: 06/19/2018

STATE BROWNFIELD LIST

TRIBAL BROWNFIELDS: Tribal brownfield remediation site listing

Agency Version Date: 02/10/2014
Agency Update Frequency: Quarterly
Planned Next Contact: 09/21/2018
Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 06/25/2018

BROWNFIELDS - PA: Locations determined to be Brownfield Sites

Agency Version Date: 02/23/2018
Agency Update Frequency: Varies
Planned Next Contact: 07/13/2018
Agency: Department of Environmental Protection
Agency Contact: (717) 783-1566
Most Recent Contact: 05/04/2018

HIST BROWNFIELDS - PA: List of locations determined to be Brownfield Sites that are no longer in current agency list.

Agency Version Date: 10/06/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 07/13/2018
Agency: Department of Environmental Protection
Agency Contact: (717) 783-1566
Most Recent Contact: 05/04/2018

STATE AND TRIBAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS

ABANDONED LF - PA: Landfills that have been abandoned listed in the Abandoned Landfill Inventory

Agency Version Date: 02/16/2018
Agency Update Frequency: Varies
Planned Next Contact: 07/06/2018
Agency: Department of Environmental Protection
Agency Contact: (717) 787-7381
Most Recent Contact: 04/27/2018

HIST LF INVENTORY - PA: Listing of Historical landfills

Agency Version Date: 06/07/2018
Agency Update Frequency: No update
Planned Next Contact: 08/16/2018
Agency: Department of Environmental Protection
Agency Contact: (717) 787-7381
Most Recent Contact: 06/07/2018

INACTIVE LF - PA: Inactive Landfills

Agency Version Date: 02/16/2018
Agency Update Frequency: Varies
Planned Next Contact: 07/06/2018
Agency: Department of Environmental Protection
Agency Contact: (717) 787-7381
Most Recent Contact: 04/27/2018

SWF/LF - PA: State Landfill Sites

Agency Version Date: 02/16/2018
Agency Update Frequency: Varies
Planned Next Contact: 07/06/2018
Agency: Department of Environmental Protection
Agency Contact: (717) 787-7381
Most Recent Contact: 04/27/2018

STATE- AND TRIBAL - EQUIVALENT CERCLIS

HSCA - PA: Sites listed in the Hazardous Site Cleanup

Agency Version Date: 04/10/2018
Agency Update Frequency: Varies
Planned Next Contact: 08/28/2018
Agency: Department of Environmental Protection
Agency Contact: N/R
Most Recent Contact: 06/19/2018

HSCA REM - PA: Sites under the HSCA that are designated as Remedial Response

Agency Version Date: 04/10/2018
Agency Update Frequency: Varies
Planned Next Contact: 08/28/2018
Agency: Department of Environmental Protection
Agency Contact: N/R
Most Recent Contact: 06/19/2018

STATE INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES

I C - PA: Sites with Institutional Controls

Agency Version Date: 12/01/2017
Agency Update Frequency: No update
Planned Next Contact: 06/29/2018
Agency: Department of Environmental Protection
Agency Contact: (717) 783-1566
Most Recent Contact: 04/20/2018

STATE AND TRIBAL VOLUNTARY CLEANUP SITES

VCP - PA: Voluntary Cleanup Program Sites

Agency Version Date: 03/28/2018
Agency Update Frequency: Varies
Planned Next Contact: 08/15/2018
Agency: Department of Environmental Protection
Agency Contact: (717) 783-1566
Most Recent Contact: 06/06/2018

LOCAL LISTS OF LANDFILL / SOLID WASTE DISPOSAL SITES

DEBRIS REGION 9: Torres Martinez Reservation illegal dump site listing

Agency Version Date: 03/29/2017
Agency Update Frequency: Varies
Planned Next Contact: 08/21/2018
Agency: U.S. Environmental Protection Agency Region 9
Agency Contact: 855-246-3642
Most Recent Contact: 05/23/2018

INDIAN ODI R8: Region 8 Indian land open dump inventory sites mainted within the STARS program

Agency Version Date: 04/16/2018
Agency Update Frequency: Varies
Planned Next Contact: 09/03/2018
Agency: Indian Health Service
Agency Contact: 855-246-3642
Most Recent Contact: 06/25/2018

ODI: Open dump inventory sites

Agency Version Date: 10/03/2017
Agency Update Frequency: No Update
Planned Next Contact: 07/10/2018
Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 05/01/2018

TRIBAL ODI: Indian land open dump inventory for all regions

Agency Version Date: 02/22/2018
Agency Update Frequency: Varies
Planned Next Contact: 07/12/2018
Agency: Indian Health Service
Agency Contact: 301-443-3593
Most Recent Contact: 05/03/2018

LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES

FED CDL: The U.S. Department of Justice listing of clandestine drug lab locations

Agency Version Date: 04/02/2018
Agency Update Frequency: Quarterly
Planned Next Contact: 08/20/2018
Agency: U.S. Department of Justice
Agency Contact: 202-307-7610
Most Recent Contact: 06/11/2018

US HIST CDL: The U.S. Department of Justice historical listing of clandestine drug lab locations

Agency Version Date: 04/02/2018
Agency Update Frequency: Quarterly
Planned Next Contact: 08/20/2018
Agency: U.S. Department of Justice
Agency Contact: 202-307-7610
Most Recent Contact: 06/11/2018

LOCAL BROWNFIELD LISTS

Fed Brownfields: Federal brownfield remediation sites

Agency Version Date: 04/10/2018
Agency Update Frequency: Semi Annually
Planned Next Contact: 08/28/2018
Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 06/19/2018

RECORDS OF EMERGENCY RELEASE REPORTS

HMIRS (DOT): Hazardous Material spills reported by the Department of Transportation

Agency Version Date: 03/07/2018
Agency Update Frequency: Varies
Planned Next Contact: 07/25/2018
Agency: U.S. Department of Transportation
Agency Contact: (202) 366-4996
Most Recent Contact: 05/16/2018

SPILLS - PA: Listing of Hazardous Material spills/releases reported in the Hazardous Material Logbook

Agency Version Date: 04/10/2018
Agency Update Frequency: Varies
Planned Next Contact: 08/28/2018
Agency: Department of Environmental Protection
Agency Contact: N/R
Most Recent Contact: 06/19/2018

LOCAL LAND RECORDS

LIENS 2: Comprehensive Environmental Response Compensation and Liability Act sites with liens

Agency Version Date: 05/11/2017
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 09/10/2018
Agency: U.S. Environmental Protection Agency
Agency Contact: 800-424-9346
Most Recent Contact: 03/12/2018

OTHER ASCERTAINABLE RECORDS

AFS: Air Facility Systems Quarterly Extract

Agency Version Date: 02/09/2018
Agency Update Frequency: Quarterly
Planned Next Contact: 06/29/2018
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 04/20/2018

BRS: Reporting of hazardous waste generation and management from large quantity generators

Agency Version Date: 03/16/2018
Agency Update Frequency: Biennial
Planned Next Contact: 08/03/2018
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 05/25/2018

OTHER ASCERTAINABLE RECORDS (cont.)

CDC HAZDAT: The Agency for Toxic Substances and Disease Registry's Hazardous Substance Release/Health Effects Database.

Agency Version Date: 06/28/2014
Agency Update Frequency: Varies
Planned Next Contact: 09/03/2018
Agency: Agency for Toxic Substances and Disease Registry
Agency Contact: 770-488-6399
Most Recent Contact: 06/25/2018

COAL ASH DOE: List of existing and planned generators with 1 megawatt or greater of combined capacity that are utilizing coal ash impoundments.

Agency Version Date: 03/08/2018
Agency Update Frequency: Varies
Planned Next Contact: 07/26/2018
Agency: Department of Energy
Agency Contact: (202) 586-8800
Most Recent Contact: 05/17/2018

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

Agency Version Date: 07/31/2014
Agency Update Frequency: Varies
Planned Next Contact: 07/02/2018
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 04/23/2018

COAL GAS: Manufactured Gas Plant locations

Agency Version Date: 05/11/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 07/13/2018
Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 04/16/2018

CONSENT (DECREES): Legal decisions regarding responsibility for Superfund locations

Agency Version Date: 01/02/2018
Agency Update Frequency: Varies
Planned Next Contact: 09/03/2018
Agency: Environmental Protection Agency
Agency Contact: (800) 424-9346
Most Recent Contact: 06/25/2018

Corrective Actions_2020: The RCRA cleanup baseline includes facilities expected to need corrective action.

Agency Version Date: 09/30/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 08/03/2018
Agency: U.S. Environmental Protection Agency
Agency Contact: N/R
Most Recent Contact: 05/25/2018

DIGITAL OBSTACLE: The Digital Obstacle File describes all known obstacles of interest to aviation users in the U.S. with limited coverage of the Pacific the Caribbean Canada and Mexico. The obstacles are assigned unique numerical identifiers; accuracy codes and listed in order of ascending latitude within each state or area by FAA Region.

Agency Version Date: 02/25/2018
Agency Update Frequency: Varies
Planned Next Contact: 08/30/2018
Agency: Federal Aviation Administration
Agency Contact: 855-379-6518
Most Recent Contact: 06/21/2018

DOD: Department of Defense sites

Agency Version Date: 03/13/2018
Agency Update Frequency: Varies
Planned Next Contact: 09/03/2018
Agency: Environmental Protection Agency
Agency Contact: (800) 424-9346
Most Recent Contact: 06/25/2018

DOT OPS: Incident Data Report

Agency Version Date: 02/19/2018
Agency Update Frequency: Varies
Planned Next Contact: 07/09/2018
Agency: U.S. Department of Transportation
Agency Contact: (202) 366-4996
Most Recent Contact: 04/30/2018

OTHER ASCERTAINABLE RECORDS (cont.)

ECHO: ECHO is EPA Enforcement and Compliance History Online website to search for facilities in your community to assess their compliance with environmental regulations related to CAA, CWA, RCRA, & SDWA.

Agency Version Date: 03/12/2018
Agency Update Frequency: Quarterly
Planned Next Contact: 07/30/2018
Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-1667
Most Recent Contact: 05/21/2018

ENOI: The Electronic Notice of Intent (eNOI) database contains construction sites and industrial facilities that submit permit requests to EPA for Construction General Permits (CGP) and Multi-Sector General Permits (MSGP).

Agency Version Date: 02/23/2018
Agency Update Frequency: Quarterly
Planned Next Contact: 07/13/2018
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 05/04/2018

EPA FUELS: List of companies and facilities registered to participate in EPA Fuel Programs under Title 40 CFR Part 80.

Agency Version Date: 04/20/2018
Agency Update Frequency: Quarterly
Planned Next Contact: 06/29/2018
Agency: U.S. Environmental Protection Agency
Agency Contact: (202) 564-2307
Most Recent Contact: 04/20/2018

EPA OSC: Listing of oil spills and hazardous substance release sites requiring EPA On-Site Coordinators.

Agency Version Date: 03/07/2018
Agency Update Frequency: Quarterly
Planned Next Contact: 07/25/2018
Agency: U.S. Environmental Protection Agency
Agency Contact: (202) 564-2307
Most Recent Contact: 05/16/2018

EPA WATCH: The EPA Watch List was used 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. EPA maintained the lists from 2011 - 2013.

Agency Version Date: 02/09/2018
Agency Update Frequency: Quarterly
Planned Next Contact: 06/29/2018
Agency: U.S. Environmental Protection Agency
Agency Contact: (202) 564-2307
Most Recent Contact: 04/20/2018

FA HWF: Hazardous Waste Facilities with Financial Assurance

Agency Version Date: 03/27/2018
Agency Update Frequency: Varies
Planned Next Contact: 08/14/2018
Agency: Environmental Protection Agency
Agency Contact: (800) 424-9346
Most Recent Contact: 06/04/2018

FEDLAND: Federal land locations

Agency Version Date: 03/12/2018
Agency Update Frequency: Varies
Planned Next Contact: 07/30/2018
Agency: Environmental Protection Agency
Agency Contact: (800) 424-9346
Most Recent Contact: 05/21/2018

FRS: Facility Registry Systems

Agency Version Date: 02/15/2018
Agency Update Frequency: Varies
Planned Next Contact: 07/05/2018
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 04/26/2018

FTTS: Tracking of administrative and enforcement activities related to FIFRA/TSCA

Agency Version Date: 04/16/2013
Agency Update Frequency: Varies
Planned Next Contact: 07/09/2018
Agency: Environmental Protection Agency
Agency Contact: (202) 564-2280
Most Recent Contact: 04/11/2018

OTHER ASCERTAINABLE RECORDS (cont.)

FTTS INSP: Tracking of inspections related to FIFRA/TSCA

Agency Version Date: 05/08/2017
Agency Update Frequency: Varies
Planned Next Contact: 07/12/2018
Agency: Environmental Protection Agency
Agency Contact: (202) 564-2280
Most Recent Contact: 04/16/2018

FUDS: Defense sites that require cleanup

Agency Version Date: 09/30/2015
Agency Update Frequency: Varies
Planned Next Contact: 07/02/2018
Agency: US Army Corps of Engineering
Agency Contact: (202) 761-0011
Most Recent Contact: 04/23/2018

HIST AFS: List of Air Facility Systems Quarterly Extract that are no longer in current agency list.

Agency Version Date: 02/09/2018
Agency Update Frequency: Quarterly
Planned Next Contact: 06/29/2018
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 04/20/2018

HWC DOCKET: Listing of Federal facilities which are managing or have managed hazardous waste; or have had a release of hazardous waste.

Agency Version Date: 02/09/2018
Agency Update Frequency: Quarterly
Planned Next Contact: 06/29/2018
Agency: U.S. Environmental Protection Agency
Agency Contact: (202) 564-2307
Most Recent Contact: 04/20/2018

ICIS: Comprised of all Federal Administrative and Judicial enforcement information [intended to replace PCS] by tracking enforcement and compliance information (also contains what used to be known as FFTS)

Agency Version Date: 03/13/2018
Agency Update Frequency: Varies
Planned Next Contact: 07/31/2018
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 05/22/2018

INDIAN RESERVATION: Indian Reservation sites

Agency Version Date: 04/25/2018
Agency Update Frequency: Varies
Planned Next Contact: 07/04/2018
Agency: Environmental Protection Agency
Agency Contact: (800) 424-9346
Most Recent Contact: 04/25/2018

LEAD_SMELTER: Listing of former Lead Smelter Sites

Agency Version Date: 01/09/2018
Agency Update Frequency: Varies
Planned Next Contact: 07/10/2018
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 05/01/2018

LUCIS: Land Use Control Information Systems

Agency Version Date: 06/28/2014
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 07/13/2018
Agency: Department of the Navy: BRAC PMO
Agency Contact: (619) 532-0900
Most Recent Contact: 05/04/2018

LUCIS 2: Land Use Control Information Systems

Agency Version Date: 01/17/2018
Agency Update Frequency: Quarterly
Planned Next Contact: 07/13/2018
Agency: Department of the Navy: BRAC PMO
Agency Contact: (619) 532-0900
Most Recent Contact: 04/16/2018

OTHER ASCERTAINABLE RECORDS (cont.)

MINES: Mines Master Index Files

Agency Version Date: 03/14/2018
Agency Update Frequency: Varies
Planned Next Contact: 08/01/2018
Agency: Department of Labor
Agency Contact: (202) 693-9400
Most Recent Contact: 05/23/2018

MLTS: Sites in possession/use of radioactive materials regulated by NRC

Agency Version Date: 04/13/2018
Agency Update Frequency: Varies
Planned Next Contact: 09/07/2018
Agency: Nuclear Regulatory Commission
Agency Contact: (800) 397-4209
Most Recent Contact: 06/11/2018

NPL AOC: Areas of Concern related to NPL remediation sites

Agency Version Date: 01/02/2018
Agency Update Frequency: Quarterly
Planned Next Contact: 09/03/2018
Agency: Environmental Protection Agency
Agency Contact: N/R
Most Recent Contact: 06/25/2018

NPL LIENS: National Priority List of sites with Liens

Agency Version Date: 02/19/2018
Agency Update Frequency: Varies
Planned Next Contact: 09/03/2018
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 06/25/2018

OSHA: OSHA's listing of inspections violations and fatality information

Agency Version Date: 03/13/2018
Agency Update Frequency: Varies
Planned Next Contact: 07/31/2018
Agency: Occupational Safety & Health Administration
Agency Contact: 800-321-6742
Most Recent Contact: 05/22/2018

PADS: Listing of generators transporters commercial store/ brokers and disposers of PCB

Agency Version Date: 01/18/2018
Agency Update Frequency: Varies
Planned Next Contact: 08/31/2018
Agency: Environmental Protection Agency
Agency Contact: (703) 308-8404
Most Recent Contact: 06/22/2018

PCB TRANSFORMER: Registry of PCB's

Agency Version Date: 01/18/2018
Agency Update Frequency: No Update
Planned Next Contact: 08/16/2018
Agency: Environmental Protection Agency
Agency Contact: (703) 308-8404
Most Recent Contact: 06/07/2018

RAATS: Listing of major violators with enforcement actions issued under RCRA. Includes administrative and civil actions filed by the EPA. This dataset is no longer maintained.

Agency Version Date: 03/16/2018
Agency Update Frequency: Varies
Planned Next Contact: 08/03/2018
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 05/25/2018

RADINFO: EPA regulated facilities with radiation and radioactive materials

Agency Version Date: 03/29/2018
Agency Update Frequency: Varies
Planned Next Contact: 08/16/2018
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 06/07/2018

RMP: Facilities producing/handling/ process/ distribute/ store specific chemicals report plans required by the Clean Air Act

Agency Version Date: 02/28/2018
Agency Update Frequency: Monthly
Planned Next Contact: 07/10/2018
Agency: Environmental Protection Agency
Agency Contact: (202) 564-2534
Most Recent Contact: 04/12/2018

OTHER ASCERTAINABLE RECORDS (cont.)

ROD: Permanent remedy at an NPL site

Agency Version Date: 03/13/2018
Agency Update Frequency: Varies
Planned Next Contact: 09/03/2018
Agency: Environmental Protection Agency
Agency Contact: (800) 424-9346
Most Recent Contact: 06/25/2018

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners

Agency Version Date: 02/22/2018
Agency Update Frequency: No Update
Planned Next Contact: 07/12/2018
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 05/03/2018

SEMS_SMELTER: This report includes sites that have smelting-related, or potentially smelting-related, indicators in the SEMS database. The report includes information on the site location as well as contaminants of concern.

Agency Version Date: 12/11/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 09/03/2018
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 06/25/2018

SSTS: Tracking of facilities who produce pesticides and their quantity

Agency Version Date: 02/28/2018
Agency Update Frequency: Annually
Planned Next Contact: 07/18/2018
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 05/09/2018

TOSCA-CHEMICAL: Chemicals controlled by the Toxic Substance Control Act

Agency Version Date: 06/28/2014
Agency Update Frequency: Varies
Planned Next Contact: 07/03/2018
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 04/24/2018

TOSCA-PLANT: Plants controlled by the Toxic Substance Control Act

Agency Version Date: 05/09/2018
Agency Update Frequency: Varies
Planned Next Contact: 07/18/2018
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 05/09/2018

TRIS: Information regarding toxic chemicals that are being used/manufactured/ treated/ transported/released into the environment

Agency Version Date: 03/12/2018
Agency Update Frequency: Varies
Planned Next Contact: 07/30/2018
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 05/21/2018

UMTRA: Uranium Recovery Sites

Agency Version Date: 01/04/2018
Agency Update Frequency: Varies
Planned Next Contact: 08/02/2018
Agency: United States Nuclear Regulatory Commission
Agency Contact: (301) 415-8200
Most Recent Contact: 05/24/2018

ACT 2 DEED - PA: Sites listed with Deed Acknowledgment

Agency Version Date: 03/21/2018
Agency Update Frequency: Varies
Planned Next Contact: 08/08/2018
Agency: Department of Environmental Protection
Agency Contact: (717) 787-2043
Most Recent Contact: 05/30/2018

OTHER ASCERTAINABLE RECORDS (cont.)

AIRS - PA: Permit and Emissions Inventory

Agency Version Date: 02/20/2018
Agency Update Frequency: Annually
Planned Next Contact: 07/10/2018
Agency: Department of Environmental Protection
Agency Contact: (717) 783-9241
Most Recent Contact: 05/01/2018

ARCT - PA: Aboveground Storage tanks Out of service

Agency Version Date: 04/02/2018
Agency Update Frequency: Varies
Planned Next Contact: 08/20/2018
Agency: Department of Environmental Protection
Agency Contact: (717) 772-5599
Most Recent Contact: 06/11/2018

AUL - PA: Sites with Activity Use Limitation

Agency Version Date: 03/09/2018
Agency Update Frequency: Quarterly
Planned Next Contact: 07/27/2018
Agency: Department of Environmental Protection
Agency Contact: (717) 783-1566
Most Recent Contact: 05/18/2018

DRYCLEANERS - PA: Dry Cleaning Facilities

Agency Version Date: 02/20/2018
Agency Update Frequency: Varies
Planned Next Contact: 07/10/2018
Agency: Department of Environmental Protection
Agency Contact: (717) 772-9482
Most Recent Contact: 05/01/2018

EFACTS - PA: Environment Facility Application Compliance Tracking System

Agency Version Date: 12/21/2016
Agency Update Frequency: Quarterly
Planned Next Contact: 07/03/2018
Agency: PA Department of Environmental Protection
Agency Contact: N/R
Most Recent Contact: 04/24/2018

EFACTS ENV Remediation - PA: Environmental Cleanup & Brownfields records from the PA eFACTS (Environment Facility Application Compliance Tracking System).

Agency Version Date: 11/28/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 09/04/2018
Agency: PA Department of Environmental Protection
Agency Contact: 360.902.1452
Most Recent Contact: 06/26/2018

EMI - PA: Listing of facilities with air emissions data

Agency Version Date: 02/20/2018
Agency Update Frequency: Quarterly
Planned Next Contact: 07/20/2018
Agency: Department of Environmental Protection
Agency Contact: (717) 783-9241
Most Recent Contact: 04/24/2018

MANIFEST - PA: State's Hazardous Waste Manifest

Agency Version Date: 03/20/2018
Agency Update Frequency: Monthly
Planned Next Contact: 08/08/2018
Agency: Department of Environmental Protection
Agency Contact: (717) 787-6239
Most Recent Contact: 05/30/2018

UIC - PA: Regulated Underground Injection Controlled wells

Agency Version Date: 03/22/2018
Agency Update Frequency: Varies
Planned Next Contact: 08/09/2018
Agency: Department of Environmental Protection
Agency Contact: (717) 787-2043
Most Recent Contact: 05/31/2018

SUBJECT PROPERTY ADDRESS:
Strawbridge Property
Walker Road and Mount Olivet Road
Franklin Township, PA 19350

SUBJECT PROPERTY COORDINATES:

Latitude(North):	39.736396 - 39°44'11"
Longitude(West):	-75.858168 - -75°51'29.4"
Universal Transverse Mercator:	Zone 18N
UTM X (Meters):	426465.63
UTM Y (Meters):	4398852.52

ELEVATION:

Elevation:	248.169 ft. above sea level

USGS TOPOGRAPHIC MAP:

Subject Property Map:	39075f7 NEWARK WEST, MD
Most Recent Revision:	2016
Subject Property Map:	39075f8 BAY VIEW, MD
Most Recent Revision:	2016

GEOHYDROLOGY DATA:

SUBJECT PROPERTY TOPOGRAPHY:

Topographic Gradient: South

DFIRM FLOOD ZONE:

	DFIRM Flood
Subject Property County:	Electronic Data:
CHESTER	Yes - refer to the PROPERTY PROXIMITY MAP and AREA MAP
Flood Plain Panel at Subject Property:	42029C
Additional Panels in search area:	24015C

FEMA FLOOD ZONE:

	FEMA Flood
Subject Property County:	Electronic Data:
CHESTER	Yes - refer to the PROPERTY PROXIMITY MAP and AREA MAP
Flood Plain Panel at Subject Property:	42029C0605D 42029C0585D
Additional Panels in search area:	2400190020A 42029C0445D 42029C0465D

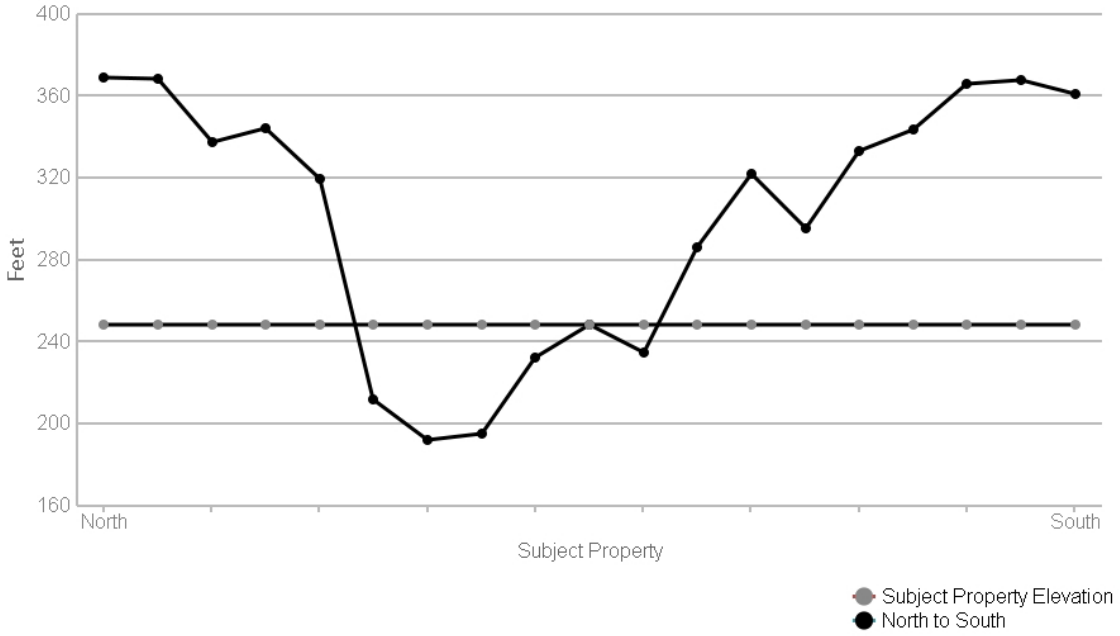
NATIONAL WETLAND INVENTORY:

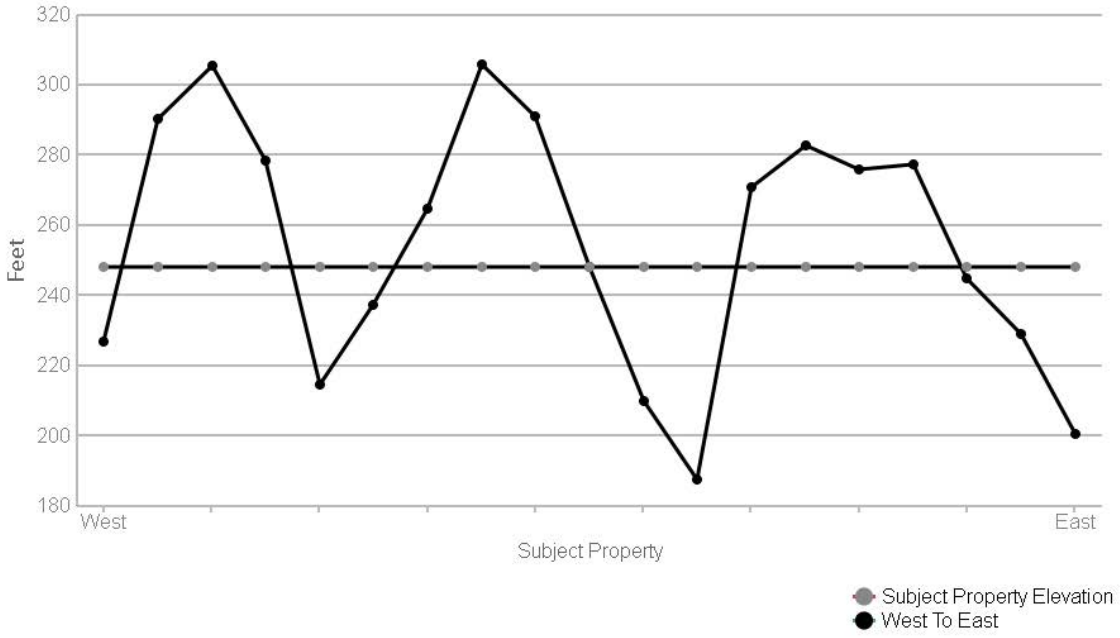
	NWI Electronic
NWI Quad at Subject Property:	Data Coverage:
NEWARK WEST	Yes - refer to the Geological Findings Map

LITHOSTRATIGRAPHIC INFORMATION:

ROCK STRATIGRAPHIC UNIT:		GEOLOGIC AGE IDENTIFICATION
Era:	No available data	Category: No available data
System:	No available data	
Series:	No available data	
Code:	No available data	

SURROUNDING ELEVATION PROFILES:





SOIL COMPOSITION IN GENERAL AREA OF SUBJECT PROPERTY:

No Available Data

WATER AGENCY DATA:

WATER AGENCY SEARCH DISTANCES:

DATABASE:	SEARCH DISTANCE (MILES):
NWIS	1.000
OIL & GAS WELLS - PA	1.000
PWS	1.000
WELLS - PA	1.000

DISTANCE TO NEAREST:	DISTANCE:
NWIS	0.000 mi / 0 ft
OIL & GAS WELLS - PA	N/A
PWS	N/A
WELLS - PA	0.000 mi / 0 ft

FEDERAL WATER AGENCY DATA SUMMARY:

MAP ID:	WELL ID:	LOCATION FROM SP:
3	01494990	< 1/8 Mile ESE
6	394430075505601	< 1/8 Mile ENE
7	394437075515001	< 1/8 Mile NW
8	394439075505601	< 1/8 Mile NE
B10	394353075504101	< 1/8 Mile ESE
B11	394355075504001	< 1/8 Mile ESE
12	394447075510701	< 1/8 Mile NNE
13	394444075512301	< 1/8 Mile NNE
14	01494980	< 1/8 Mile W
15	394338075512901	< 1/8 Mile S
A17	394449075510001	< 1/8 Mile NE
19	394444075521801	< 1/8 Mile NW
20	394358075502401	< 1/8 Mile E
21	394347075522601	< 1/8 Mile WSW
22	394411075502501	< 1/8 Mile E
23	394330075515301	< 1/8 Mile SSW
24	394445075513401	< 1/8 Mile N
25	394410075523701	< 1/8 Mile W
26	394434075503401	< 1/8 Mile ENE
31	394328075520301	1/8 - 1/4 Mile SW
C33	394353075501601	1/8 - 1/4 Mile ESE
36	394423075523701	1/8 - 1/4 Mile W
37	394448075514701	1/8 - 1/4 Mile NNW
39	394422075502001	1/8 - 1/4 Mile E
40	394456075510901	1/8 - 1/4 Mile NNE
41	394333075521101	1/8 - 1/4 Mile SW
43	394454075512601	1/8 - 1/4 Mile N
45	394430075502101	1/8 - 1/4 Mile ENE
47	394350075524601	1/8 - 1/4 Mile WSW
48	394338075521401	1/4 - 1/2 Mile SW
49	394500075510501	1/4 - 1/2 Mile NNE
50	394352075500901	1/4 - 1/2 Mile ESE
51	394332075521901	1/4 - 1/2 Mile SW
52	394431075501401	1/4 - 1/2 Mile ENE
53	394339075524601	1/4 - 1/2 Mile WSW
54	394356075500401	1/4 - 1/2 Mile E
57	394417075500601	1/4 - 1/2 Mile E
59	394459075522901	1/4 - 1/2 Mile NW
66	394452075502901	1/4 - 1/2 Mile NE

FEDERAL WATER AGENCY DATA SUMMARY: *(cont.)*

MAP ID:	WELL ID:	LOCATION FROM SP:
67	394328075523001	1/4 - 1/2 Mile SW
68	394407075500001	1/4 - 1/2 Mile E
70	394324075522801	1/2 - 1 Mile SW
71	394326075523801	1/2 - 1 Mile WSW
72	394435075500401	1/2 - 1 Mile ENE
73	394358075495401	1/2 - 1 Mile E
F74	394514075505701	1/2 - 1 Mile NNE
75	394342075530301	1/2 - 1 Mile WSW
76	394351075531001	1/2 - 1 Mile W
77	394320075523101	1/2 - 1 Mile SW
78	394515075504401	1/2 - 1 Mile NE
79	394430075530401	1/2 - 1 Mile WNW
80	394439075495701	1/2 - 1 Mile ENE
84	394327075525801	1/2 - 1 Mile WSW
G85	394452075500701	1/2 - 1 Mile ENE
96	394415075494701	1/2 - 1 Mile E
98	394314075523601	1/2 - 1 Mile SW
99	394518075521501	1/2 - 1 Mile NW
103	394509075501801	1/2 - 1 Mile NE
105	394404075494001	1/2 - 1 Mile E
111	394413075532301	1/2 - 1 Mile W
112	394447075495201	1/2 - 1 Mile ENE
116	394454075495501	1/2 - 1 Mile ENE
121	394526075503101	1/2 - 1 Mile NE
123	394433075532201	1/2 - 1 Mile WNW
125	394403075492901	1/2 - 1 Mile E
126	394503075495701	1/2 - 1 Mile ENE
I127	394451075494401	1/2 - 1 Mile ENE
130	394530075503001	1/2 - 1 Mile NE
132	394527075515601	1/2 - 1 Mile NNW
133	394512075530201	1/2 - 1 Mile WNW
134	394445075493901	1/2 - 1 Mile ENE
139	394350075492501	1/2 - 1 Mile E
140	394401075492301	1/2 - 1 Mile E
142	394531075520501	1/2 - 1 Mile NNW
K143	394502075494901	1/2 - 1 Mile ENE
144	394354075533901	1/2 - 1 Mile W
147	394426075533501	1/2 - 1 Mile W
148	394533075521201	1/2 - 1 Mile NNW
151	394526075501401	1/2 - 1 Mile NE

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

STATE/LOCAL WATER AGENCY DATA SUMMARY:

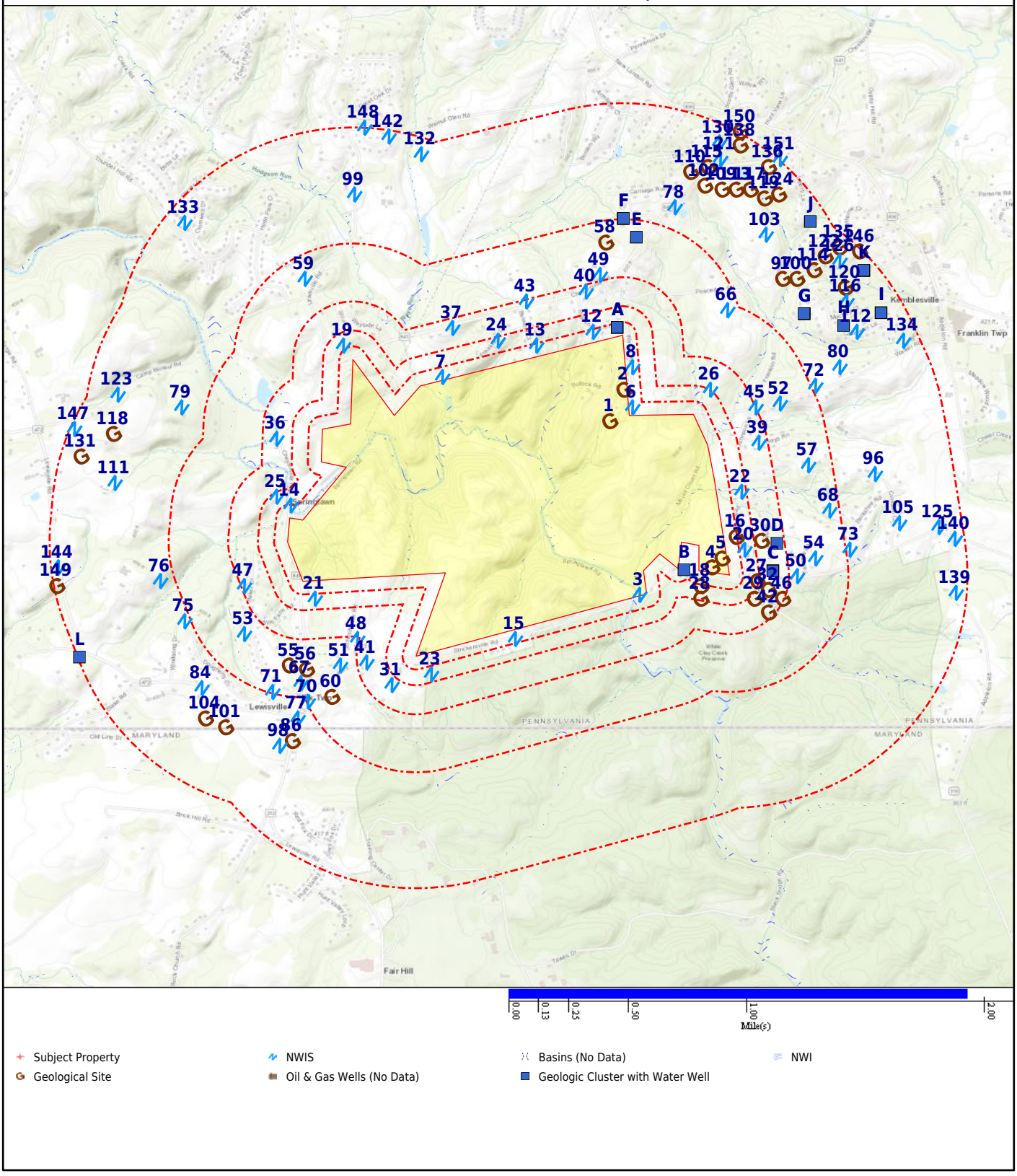
MAP ID:	WELL ID:	LOCATION FROM SP:
1	103763	< 1/8 Mile ENE
2	103654	< 1/8 Mile NE
4	103632	< 1/8 Mile ESE
5	103631	< 1/8 Mile ESE
A9	103665	< 1/8 Mile NE
16	103626	< 1/8 Mile E
18	103633	< 1/8 Mile ESE
27	103637	< 1/8 Mile ESE
28	103634	1/8 - 1/4 Mile ESE
29	103635	1/8 - 1/4 Mile ESE
30	103630	1/8 - 1/4 Mile E
32	103623	1/8 - 1/4 Mile ESE
C34	103625	1/8 - 1/4 Mile ESE
C35	103628	1/8 - 1/4 Mile ESE
D38	103629	1/8 - 1/4 Mile E
42	103627	1/8 - 1/4 Mile ESE
D44	103636	1/8 - 1/4 Mile E

STATE/LOCAL WATER AGENCY DATA SUMMARY: *(cont.)*

MAP ID:	WELL ID:	LOCATION FROM SP:
46	103624	1/8 - 1/4 Mile ESE
55	103514	1/4 - 1/2 Mile WSW
56	103579	1/4 - 1/2 Mile SW
58	103655	1/4 - 1/2 Mile NNE
60	103525	1/4 - 1/2 Mile SW
E61	103766	1/4 - 1/2 Mile NNE
E62	103764	1/4 - 1/2 Mile NNE
E63	103767	1/4 - 1/2 Mile NNE
E64	103765	1/4 - 1/2 Mile NNE
E65	103768	1/4 - 1/2 Mile NNE
F69	103656	1/4 - 1/2 Mile NNE
G81	103785	1/2 - 1 Mile ENE
G82	103784	1/2 - 1 Mile ENE
G83	103783	1/2 - 1 Mile ENE
G87	103775	1/2 - 1 Mile ENE
G88	103782	1/2 - 1 Mile ENE
G89	103781	1/2 - 1 Mile ENE
G90	103774	1/2 - 1 Mile ENE
G91	103777	1/2 - 1 Mile ENE
G92	103776	1/2 - 1 Mile ENE
G93	103780	1/2 - 1 Mile ENE
G94	103779	1/2 - 1 Mile ENE
G95	103778	1/2 - 1 Mile ENE
97	103652	1/2 - 1 Mile ENE
100	103651	1/2 - 1 Mile ENE
101	103497	1/2 - 1 Mile WSW
102	103608	1/2 - 1 Mile NE
104	103515	1/2 - 1 Mile WSW
H106	103760	1/2 - 1 Mile ENE
H107	103761	1/2 - 1 Mile ENE
H108	103762	1/2 - 1 Mile ENE
109	103607	1/2 - 1 Mile NE
110	103658	1/2 - 1 Mile NE
113	103606	1/2 - 1 Mile NE
114	103650	1/2 - 1 Mile ENE
115	103657	1/2 - 1 Mile NE
117	103605	1/2 - 1 Mile NE
118	103571	1/2 - 1 Mile W
119	103603	1/2 - 1 Mile NE
120	103649	1/2 - 1 Mile ENE
122	103647	1/2 - 1 Mile ENE
124	103602	1/2 - 1 Mile NE
I128	103668	1/2 - 1 Mile ENE
J129	103646	1/2 - 1 Mile NE
131	103577	1/2 - 1 Mile W
135	103645	1/2 - 1 Mile ENE
136	103604	1/2 - 1 Mile NE
K137	103648	1/2 - 1 Mile ENE
138	103600	1/2 - 1 Mile NE
J141	103644	1/2 - 1 Mile NE
L145	103517	1/2 - 1 Mile WSW
146	103639	1/2 - 1 Mile ENE
149	103491	1/2 - 1 Mile W
150	103599	1/2 - 1 Mile NE
L152	103510	1/2 - 1 Mile WSW

SUBJECT NAME: Strawbridge Property
ADDRESS: Walker Road and Mount Olivet Road, Franklin...
LAT/LONG: 39.736396 / -75.858168

PREPARED FOR: Ten Bears Environmental Associates Co
ORDER #: 21199
REPORT DATE: June 28, 2018



Map Id: 1
Direction: ENE
Distance: 0.000 mi.
Actual: 0.000 ft.
Elevation: 0.051 mi. / 267.648 ft.
Relative: Higher

Site Name : 103763
39.74306, -75.85028
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364225296
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103763
Owner :	FORD HERMAN
Yield GPM :	18
Casing Top :	0 / 55 / 6
Licensee :	R WALTER SLAUCH & SONS
Local Well Number :	X 4009
Date Drilled :	N/R
Well Depth :	97
Static Level :	22
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	24
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST
Latitude :	39.74306
Longitude :	-75.85028
Last Date in Agency List :	03/20/2018

Map Id: 2
Direction: NE
Distance: 0.000 mi.
Actual: 0.000 ft.
Elevation: 0.055 mi. / 290.489 ft.
Relative: Higher

Site Name : 103654
39.745, -75.84917
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364222654
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103654
Owner :	DIFFER W
Yield GPM :	15
Casing Top :	0 / 95 / 6
Licensee :	N/R
Local Well Number :	4746N
Date Drilled :	09/27/1983
Well Depth :	125
Static Level :	0
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	80
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.

Map Id: 2
Direction: NE
Distance: 0.000 mi.
Actual: 0.000 ft.
Elevation: 0.055 mi. / 290.489 ft.
Relative: Higher

Site Name : 103654
39.745, -75.84917
PA

Database(s) : [WELLS - PA] ***(cont.)***

Envirosite ID: 364222654
EPA ID: N/R

WELLS - PA ***(cont.)***

Quad Boundary :	NEWARK WEST
Latitude :	39.745
Longitude :	-75.84917
Last Date in Agency List :	03/20/2018

Map Id: 3
Direction: ESE
Distance: 0.000 mi.
Actual: 0.000 ft.
Elevation: 0.033 mi. / 174.596 ft.
Relative: Lower

Site Name : 01494990
39.73011070,-75.84799510
PA

Database(s) : [NWIS]

Envirosite ID: 394356236
EPA ID: N/R

NWIS

Site Identification Number :	01494990
Site Type :	Stream
Site Name :	Big Elk Creek near Lewisville, PA
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	275
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	N/R
Data Types :	NNNANNNNNNNNNNNNNNNNNNNNNNNNA
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	04/26/1990
Drainage Area :	41.0
Contributing Drainage Area :	41.0
Data Reliability :	N/R
Data-other GW Files :	NNNNNNNN
National Aquifer :	N/R
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	444230900
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	05/24/1973

Map Id: 3
Direction: ESE
Distance: 0.000 mi.
Actual: 0.000 ft.
Elevation: 0.033 mi. / 174.596 ft.
Relative: Lower

Site Name : 01494990
39.73011070,-75.84799510
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 394356236
EPA ID: N/R

NWIS ***(cont.)***

Water-Quality Data End Date :	09/05/2017
Water-Quality Data Count :	97
Field Water-Level Data Begin Date :	N/R
Field Water-Level Data End Date :	N/R
Field Water-Level Data Count :	0
Site-Visit Data Begin Date :	04/26/1990
Site-Visit Data End Date :	03/15/2018
Site-Visit Data Count :	192
Latitude :	39.73011070
Longitude :	-75.84799510

Map Id: 4
Direction: ESE
Distance: 0.000 mi.
Actual: 0.000 ft.
Elevation: 0.047 mi. / 248.094 ft.
Relative: Lower

Site Name : 103632
39.73389, -75.84222
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364222196
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103632
Owner :	HANLEY A
Yield GPM :	7
Casing Top :	0 / 44 / 6
Licensee :	KENNETH L MADRON WELL DRILLING CO
Local Well Number :	4724N
Date Drilled :	01/01/1983
Well Depth :	290
Static Level :	40
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	39
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST
Latitude :	39.73389
Longitude :	-75.84222
Last Date in Agency List :	03/20/2018

Map Id: 5
Direction: ESE
Distance: 0.000 mi.
Actual: 0.000 ft.
Elevation: 0.048 mi. / 255.105 ft.
Relative: Higher

Site Name : 103631
39.73444, -75.84139
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364221901
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103631
Owner :	DARHUN INC
Yield GPM :	7
Casing Top :	0 / 80 / 6
Licensee :	N/R
Local Well Number :	4723N
Date Drilled :	03/01/1979
Well Depth :	240
Static Level :	40
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	65
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST
Latitude :	39.73444
Longitude :	-75.84139
Last Date in Agency List :	03/20/2018

Map Id: 6
Direction: ENE
Distance: 0.007 mi.
Actual: 35.718 ft.
Elevation: 0.058 mi. / 308.543 ft.
Relative: Higher

Site Name : 394430075505601
39.74177720,-75.84855080
PA

Database(s) : [NWIS]

Envirosite ID: 395613478
EPA ID: N/R

NWIS

Site Identification Number :	394430075505601
Site Type :	Well
Site Name :	CH 6308
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	310
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

Map Id: 6
Direction: ENE
Distance: 0.007 mi.
Actual: 35.718 ft.
Elevation: 0.058 mi. / 308.543 ft.
Relative: Higher

Site Name : 394430075505601
39.74177720,-75.84855080
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 395613478
EPA ID: N/R

NWIS ***(cont.)***

Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	06/12/2000
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	192
Hole Depth :	N/R
Source of Depth Data :	O
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/12/2000
Field Water-Level Data End Date :	06/12/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.74177720
Longitude :	-75.84855080

Map Id: 7
Direction: NW
Distance: 0.010 mi.
Actual: 52.775 ft.
Elevation: 0.04 mi. / 211.778 ft.
Relative: Lower

Site Name : 394437075515001
39.74372149,-75.86355140
PA

Database(s) : [NWIS]

Envirosite ID: 395001141
EPA ID: N/R

NWIS

Site Identification Number :	394437075515001
Site Type :	Well
Site Name :	CH 1792
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	278
Method Altitude Determined :	Interpolated from topographic map.

Map Id: 7
Direction: NW
Distance: 0.010 mi.
Actual: 52.775 ft.
Elevation: 0.04 mi. / 211.778 ft.
Relative: Lower

Site Name : 394437075515001
39.74372149,-75.86355140
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 395001141
EPA ID: N/R

NWIS ***(cont.)***

Altitude Accuracy :	010
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	N/R
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	01/01/1966
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YYYYNNNN
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	70.0
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	10/01/1966
Field Water-Level Data End Date :	10/01/1966
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.74372149
Longitude :	-75.86355140

Map Id: 8
Direction: NE
Distance: 0.020 mi.
Actual: 107.670 ft.
Elevation: 0.061 mi. / 320.459 ft.
Relative: Higher

Site Name : 394439075505601
39.74427717,-75.84855080
PA

Database(s) : [NWIS]

Envirosite ID: 395177699
EPA ID: N/R

NWIS

Site Identification Number :	394439075505601
Site Type :	Well
Site Name :	CH 6309
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County

Map Id: 8
Direction: NE
Distance: 0.020 mi.
Actual: 107.670 ft.
Elevation: 0.061 mi. / 320.459 ft.
Relative: Higher

Site Name : 394439075505601
39.74427717,-75.84855080
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 395177699
EPA ID: N/R

NWIS ***(cont.)***

Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	317
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1987
Date Site Established or Inventoried:	08/05/2000
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	185
Hole Depth :	N/R
Source of Depth Data :	O
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	08/05/2000
Field Water-Level Data End Date :	08/05/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.74427717
Longitude :	-75.84855080

Map Id: A9
Direction: NE
Distance: 0.028 mi.
Actual: 145.556 ft.
Elevation: 0.067 mi. / 354.144 ft.
Relative: Higher

Site Name : 103665
39.74889, -75.84944
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364335237
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103665

Map Id: A9
Direction: NE
Distance: 0.028 mi.
Actual: 145.556 ft.
Elevation: 0.067 mi. / 354.144 ft.
Relative: Higher

Site Name : 103665
39.74889, -75.84944
PA

Database(s) : [WELLS - PA] ***(cont.)***

Envirosite ID: 364335237
EPA ID: N/R

WELLS - PA ***(cont.)***

Owner :	HEINEMAN ANDREW
Yield GPM :	12
Casing Top :	0 / 48 / 6
Licensee :	N/R
Local Well Number :	4757N
Date Drilled :	05/27/1983
Well Depth :	90
Static Level :	17
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	43
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST
Latitude :	39.74889
Longitude :	-75.84944
Last Date in Agency List :	03/20/2018

Map Id: B10
Direction: ESE
Distance: 0.032 mi.
Actual: 166.968 ft.
Elevation: 0.043 mi. / 225.154 ft.
Relative: Lower

Site Name : 394353075504101
39.73149960,-75.84438389
PA

Database(s) : [NWIS]

Envirosite ID: 395457228
EPA ID: N/R

NWIS

Site Identification Number :	394353075504101
Site Type :	Well
Site Name :	CH 6314
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	228
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

Map Id: B10
Direction: ESE
Distance: 0.032 mi.
Actual: 166.968 ft.
Elevation: 0.043 mi. / 225.154 ft.
Relative: Lower

Site Name : 394353075504101
39.73149960,-75.84438389
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 395457228
EPA ID: N/R

NWIS ***(cont.)***

Date of First Construction :	N/R
Date Site Established or Inventoried:	06/13/2000
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	265
Hole Depth :	N/R
Source of Depth Data :	O
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/13/2000
Field Water-Level Data End Date :	06/13/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.73149960
Longitude :	-75.84438389

Map Id: B11
Direction: ESE
Distance: 0.034 mi.
Actual: 178.447 ft.
Elevation: 0.042 mi. / 223.281 ft.
Relative: Lower

Site Name : 394355075504001
39.73205515,-75.84410610
PA

Database(s) : [NWIS]

Envirosite ID: 395214075
EPA ID: N/R

NWIS

Site Identification Number :	394355075504001
Site Type :	Well
Site Name :	CH 6313
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	239
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10

Map Id: B11
Direction: ESE
Distance: 0.034 mi.
Actual: 178.447 ft.
Elevation: 0.042 mi. / 223.281 ft.
Relative: Lower

Site Name : 394355075504001
39.73205515,-75.84410610
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 395214075
EPA ID: N/R

NWIS ***(cont.)***

Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	06/24/2000
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	160
Hole Depth :	N/R
Source of Depth Data :	O
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/24/2000
Field Water-Level Data End Date :	06/24/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.73205515
Longitude :	-75.84410610

Map Id: 12
Direction: NNE
Distance: 0.037 mi.
Actual: 196.576 ft.
Elevation: 0.069 mi. / 363.442 ft.
Relative: Higher

Site Name : 394447075510701
39.74649930,-75.85160650
PA

Database(s) : [NWIS]

Envirosite ID: 395177723
EPA ID: N/R

NWIS

Site Identification Number :	394447075510701
Site Type :	Well
Site Name :	CH 6268
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA

Map Id: 12
Direction: NNE
Distance: 0.037 mi.
Actual: 196.576 ft.
Elevation: 0.069 mi. / 363.442 ft.
Relative: Higher

Site Name : 394447075510701
39.74649930,-75.85160650
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 395177723
EPA ID: N/R

NWIS ***(cont.)***

Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	378
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/12/2000
Field Water-Level Data End Date :	06/12/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.74649930
Longitude :	-75.85160650

Map Id: 13
Direction: NNE
Distance: 0.040 mi.
Actual: 213.670 ft.
Elevation: 0.072 mi. / 379.764 ft.
Relative: Higher

Site Name : 394444075512301
39.74566598,-75.85605110
PA

Database(s) : [NWIS]

Envirosite ID: 395465843
EPA ID: N/R

NWIS

Site Identification Number :	394444075512301
Site Type :	Well

Map Id: 13
Direction: ENE
Distance: 0.040 mi.
Actual: 213.670 ft.
Elevation: 0.072 mi. / 379.764 ft.
Relative: Higher

Site Name : 394444075512301
39.74566598,-75.85605110
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 395465843
EPA ID: N/R

NWIS ***(cont.)***

Site Name :	CH 6266
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	386
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1994
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/06/2000
Field Water-Level Data End Date :	06/06/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.74566598
Longitude :	-75.85605110

Map Id: 14
Direction: W
Distance: 0.045 mi.
Actual: 239.765 ft.
Elevation: 0.039 mi. / 208.458 ft.
Relative: Lower

Site Name : 01494980
39.73566597,-75.87549630
PA

Database(s) : [NWIS]

Envirosite ID: 394353254
EPA ID: N/R

NWIS

Site Identification Number :	01494980
Site Type :	Stream
Site Name :	Big Elk Creek at Lewisville, PA
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	BAYVIEW
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	N/R
Method Altitude Determined :	N/R
Altitude Accuracy :	N/R
Altitude Datum :	N/R
Hydrologic Unit :	N/R
Drainage Basin :	N/R
Topographic Setting :	N/R
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNI
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	04/26/1975
Drainage Area :	31.2
Contributing Drainage Area :	N/R
Data Reliability :	N/R
Data-other GW Files :	NNNNNNNN
National Aquifer :	N/R
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	N/R
Field Water-Level Data End Date :	N/R
Field Water-Level Data Count :	0
Site-Visit Data Begin Date :	07/14/1949
Site-Visit Data End Date :	09/09/1991
Site-Visit Data Count :	20
Latitude :	39.73566597
Longitude :	-75.87549630

Map Id: 15
Direction: S
Distance: 0.046 mi.
Actual: 241.745 ft.
Elevation: 0.067 mi. / 354.482 ft.
Relative: Higher

Site Name : 394338075512901
39.72733289,-75.85771778
PA

Database(s) : [NWIS]

Envirosite ID: 395050506
EPA ID: N/R

NWIS

Site Identification Number :	394338075512901
Site Type :	Well
Site Name :	CH 6315
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	371
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1988
Date Site Established or Inventoried:	06/24/2000
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/24/2000
Field Water-Level Data End Date :	06/24/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.72733289
Longitude :	-75.85771778

Map Id: 16
Direction: E
Distance: 0.048 mi.
Actual: 255.769 ft.
Elevation: 0.053 mi. / 279.469 ft.
Relative: Higher

Site Name : 103626
39.73583, -75.84028
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364222182
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103626
Owner :	DARHUN INC
Yield GPM :	25
Casing Top :	0 / 150.75 / 6
Licensee :	N/R
Local Well Number :	4718N
Date Drilled :	08/01/1978
Well Depth :	198
Static Level :	33
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	130
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST
Latitude :	39.73583
Longitude :	-75.84028
Last Date in Agency List :	03/20/2018

Map Id: A17
Direction: NE
Distance: 0.049 mi.
Actual: 256.507 ft.
Elevation: 0.068 mi. / 358.832 ft.
Relative: Higher

Site Name : 394449075510001
39.74705490,-75.84966190
PA

Database(s) : [NWIS]

Envirosite ID: 394835995
EPA ID: N/R

NWIS

Site Identification Number :	394449075510001
Site Type :	Well
Site Name :	CH 6263
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	365
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

Map Id: A17
Direction: SE
Distance: 0.049 mi.
Actual: 256.507 ft.
Elevation: 0.068 mi. / 358.832 ft.
Relative: Higher

Site Name : 394449075510001
39.74705490,-75.84966190
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 394835995
EPA ID: N/R

NWIS ***(cont.)***

Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/08/2000
Field Water-Level Data End Date :	06/08/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.74705490
Longitude :	-75.84966190

Map Id: 18
Direction: ESE
Distance: 0.070 mi.
Actual: 367.054 ft.
Elevation: 0.05 mi. / 263.54 ft.
Relative: Higher

Site Name : 103633
39.73278, -75.84306
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364225477
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103633
Owner :	HANLEY A
Yield GPM :	3
Casing Top :	0 / 68 / 6
Licensee :	N/R
Local Well Number :	4725N
Date Drilled :	04/01/1979
Well Depth :	220
Static Level :	35
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R

Map Id: 18
Direction: ESE
Distance: 0.070 mi.
Actual: 367.054 ft.
Elevation: 0.05 mi. / 263.54 ft.
Relative: Higher

Site Name : 103633
39.73278, -75.84306
PA

Database(s) : [WELLS - PA] ***(cont.)***

Envirosite ID: 364225477
EPA ID: N/R

WELLS - PA ***(cont.)***

WQ Data :	0
Depth to Bed :	65
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST
Latitude :	39.73278
Longitude :	-75.84306
Last Date in Agency List :	03/20/2018

Map Id: 19
Direction: NW
Distance: 0.070 mi.
Actual: 371.534 ft.
Elevation: 0.059 mi. / 312.041 ft.
Relative: Higher

Site Name : 394444075521801
39.74566580,-75.87132950
PA

Database(s) : [NWIS]

Envirosite ID: 395480074
EPA ID: N/R

NWIS

Site Identification Number :	394444075521801
Site Type :	Well
Site Name :	CH 6254
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	325
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1999
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	300
Hole Depth :	N/R
Source of Depth Data :	O

Map Id: 19
Direction: NW
Distance: 0.070 mi.
Actual: 371.534 ft.
Elevation: 0.059 mi. / 312.041 ft.
Relative: Higher

Site Name : 394444075521801
39.74566580,-75.87132950
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 395480074
EPA ID: N/R

NWIS ***(cont.)***

Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/19/2000
Field Water-Level Data End Date :	06/19/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.74566580
Longitude :	-75.87132950

Map Id: 20
Direction: E
Distance: 0.072 mi.
Actual: 381.189 ft.
Elevation: 0.055 mi. / 288.743 ft.
Relative: Higher

Site Name : 394358075502401
39.73288850,-75.83966150
PA

Database(s) : [NWIS]

Envirosite ID: 394918113
EPA ID: N/R

NWIS

Site Identification Number :	394358075502401
Site Type :	Well
Site Name :	CH 6280
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	292
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1987
Date Site Established or Inventoried:	06/24/2000
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y

Map Id: 20
Direction: E
Distance: 0.072 mi.
Actual: 381.189 ft.
Elevation: 0.055 mi. / 288.743 ft.
Relative: Higher

Site Name : 394358075502401
39.73288850,-75.83966150
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 394918113
EPA ID: N/R

NWIS ***(cont.)***

National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	150
Hole Depth :	N/R
Source of Depth Data :	O
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/24/2000
Field Water-Level Data End Date :	06/24/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.73288850
Longitude :	-75.83966150

Map Id: 21
Direction: WSW
Distance: 0.087 mi.
Actual: 456.925 ft.
Elevation: 0.065 mi. / 342.087 ft.
Relative: Higher

Site Name : 394347075522601
39.72983274,-75.87355180
PA

Database(s) : [NWIS]

Envirosite ID: 395613014
EPA ID: N/R

NWIS

Site Identification Number :	394347075522601
Site Type :	Well
Site Name :	CH 6260
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	352
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

Map Id: 21
Direction: WSW
Distance: 0.087 mi.
Actual: 456.925 ft.
Elevation: 0.065 mi. / 342.087 ft.
Relative: Higher

Site Name : 394347075522601
39.72983274,-75.87355180
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 395613014
EPA ID: N/R

NWIS ***(cont.)***

Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	07/19/2000
Field Water-Level Data End Date :	07/19/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.72983274
Longitude :	-75.87355180

Map Id: 22
Direction: E
Distance: 0.096 mi.
Actual: 504.748 ft.
Elevation: 0.044 mi. / 230.669 ft.
Relative: Lower

Site Name : 394411075502501
39.73649957,-75.83993930
PA

Database(s) : [NWIS]

Envirosite ID: 395478522
EPA ID: N/R

NWIS

Site Identification Number :	394411075502501
Site Type :	Well
Site Name :	CH 6279
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	249
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10

Map Id: 22
Direction: E
Distance: 0.096 mi.
Actual: 504.748 ft.
Elevation: 0.044 mi. / 230.669 ft.
Relative: Lower

Site Name : 394411075502501
39.73649957,-75.83993930
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 395478522
EPA ID: N/R

NWIS ***(cont.)***

Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	06/29/2000
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	140
Hole Depth :	N/R
Source of Depth Data :	O
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/29/2000
Field Water-Level Data End Date :	06/29/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.73649957
Longitude :	-75.83993930

Map Id: 23
Direction: SSW
Distance: 0.099 mi.
Actual: 520.786 ft.
Elevation: 0.071 mi. / 375.312 ft.
Relative: Higher

Site Name : 394330075515301
39.72511066,-75.86438470
PA

Database(s) : [NWIS]

Envirosite ID: 395098310
EPA ID: N/R

NWIS

Site Identification Number :	394330075515301
Site Type :	Well
Site Name :	CH 6316
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA

Map Id: 23
Direction: SSW
Distance: 0.099 mi.
Actual: 520.786 ft.
Elevation: 0.071 mi. / 375.312 ft.
Relative: Higher

Site Name : 394330075515301
39.72511066,-75.86438470
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 395098310
EPA ID: N/R

NWIS ***(cont.)***

Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	375
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1992
Date Site Established or Inventoried:	06/24/2000
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	360
Hole Depth :	N/R
Source of Depth Data :	O
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/24/2000
Field Water-Level Data End Date :	06/24/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.72511066
Longitude :	-75.86438470

Map Id: 24
Direction: N
Distance: 0.100 mi.
Actual: 525.564 ft.
Elevation: 0.069 mi. / 363.852 ft.
Relative: Higher

Site Name : 394445075513401
39.74594370,-75.85910678
PA

Database(s) : [NWIS]

Envirosite ID: 395054342
EPA ID: N/R

NWIS

Site Identification Number :	394445075513401
Site Type :	Well

Map Id: 24
Direction: E
Distance: 0.100 mi.
Actual: 525.564 ft.
Elevation: 0.069 mi. / 363.852 ft.
Relative: Higher

Site Name : 394445075513401
39.74594370,-75.85910678
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 395054342
EPA ID: N/R

NWIS ***(cont.)***

Site Name :	CH 6265
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	370
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1995
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/08/2000
Field Water-Level Data End Date :	06/08/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.74594370
Longitude :	-75.85910678

Map Id: 25
Direction: N
Distance: 0.105 mi.
Actual: 553.330 ft.
Elevation: 0.042 mi. / 222.68 ft.
Relative: Lower

Site Name : 394410075523701
39.73622150,-75.87660750
PA

Database(s) : [NWIS]

Envirosite ID: 395214318
EPA ID: N/R

NWIS

Site Identification Number :	394410075523701
Site Type :	Well
Site Name :	CH 6261
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	BAY VIEW
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	238
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	07/19/2000
Field Water-Level Data End Date :	07/19/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.73622150
Longitude :	-75.87660750

Map Id: 26
Direction: ENE
Distance: 0.115 mi.
Actual: 605.008 ft.
Elevation: 0.052 mi. / 277.073 ft.
Relative: Higher

Site Name : 394434075503401
39.74288836,-75.84243940
PA

Database(s) : [NWIS]

Envirosite ID: 395001128
EPA ID: N/R

NWIS

Site Identification Number :	394434075503401
Site Type :	Well
Site Name :	CH 6307
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	275
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1996
Date Site Established or Inventoried:	08/05/2000
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	220
Hole Depth :	N/R
Source of Depth Data :	O
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	08/05/2000
Field Water-Level Data End Date :	08/05/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.74288836
Longitude :	-75.84243940

Map Id: 27
Direction: ESE
Distance: 0.117 mi.
Actual: 619.968 ft.
Elevation: 0.06 mi. / 318.219 ft.
Relative: Higher

Site Name : 103637
39.73306, -75.83861
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364225169
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103637
Owner :	DARHUN INC
Yield GPM :	1.33
Casing Top :	0 / 60 / 6
Licensee :	N/R
Local Well Number :	4729N
Date Drilled :	10/01/1979
Well Depth :	300
Static Level :	55
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	35
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST
Latitude :	39.73306
Longitude :	-75.83861
Last Date in Agency List :	03/20/2018

Map Id: 28
Direction: ESE
Distance: 0.127 mi.
Actual: 668.322 ft.
Elevation: 0.054 mi. / 284.354 ft.
Relative: Higher

Site Name : 103634
39.73194, -75.84306
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364225487
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103634
Owner :	HANLEY A
Yield GPM :	6.5
Casing Top :	0 / 47 / 6
Licensee :	N/R
Local Well Number :	4726N
Date Drilled :	07/01/1980
Well Depth :	140
Static Level :	30
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	40
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.

Map Id: 28
Direction: ESE
Distance: 0.127 mi.
Actual: 668.322 ft.
Elevation: 0.054 mi. / 284.354 ft.
Relative: Higher

Site Name : 103634
39.73194, -75.84306
PA

Database(s) : [WELLS - PA] ***(cont.)***

Envirosite ID: 364225487
EPA ID: N/R

WELLS - PA ***(cont.)***

Quad Boundary :	NEWARK WEST
Latitude :	39.73194
Longitude :	-75.84306
Last Date in Agency List :	03/20/2018

Map Id: 29
Direction: ESE
Distance: 0.145 mi.
Actual: 767.416 ft.
Elevation: 0.057 mi. / 303.566 ft.
Relative: Higher

Site Name : 103635
39.73194, -75.83889
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364225086
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103635
Owner :	LISHON CONST CO
Yield GPM :	2
Casing Top :	0 / 100 / 6
Licensee :	N/R
Local Well Number :	4727N
Date Drilled :	06/01/1981
Well Depth :	340
Static Level :	35
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	60
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST
Latitude :	39.73194
Longitude :	-75.83889
Last Date in Agency List :	03/20/2018

Map Id: 30
Direction: E
Distance: 0.148 mi.
Actual: 782.741 ft.
Elevation: 0.058 mi. / 305.138 ft.
Relative: Higher

Site Name : 103630
39.73556, -75.83833
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364222268
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103630
Owner :	DARHUN INC
Yield GPM :	100
Casing Top :	0 / 38 / 6
Licensee :	N/R
Local Well Number :	4722N
Date Drilled :	05/01/1979
Well Depth :	270
Static Level :	2
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	20
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST
Latitude :	39.73556
Longitude :	-75.83833
Last Date in Agency List :	03/20/2018

Map Id: 31
Direction: SW
Distance: 0.171 mi.
Actual: 903.696 ft.
Elevation: 0.07 mi. / 369.797 ft.
Relative: Higher

Site Name : 394328075520301
39.72444444,-75.86750000
PA

Database(s) : [NWIS]

Envirosite ID: 395612860
EPA ID: N/R

NWIS

Site Identification Number :	394328075520301
Site Type :	Well
Site Name :	CH 5436
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	375
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hilltop
Data Types :	NANNNNNNNNNNNNNNNNNNNNNNNNNNNN

Map Id: 31
Direction: SW
Distance: 0.171 mi.
Actual: 903.696 ft.
Elevation: 0.07 mi. / 369.797 ft.
Relative: Higher

Site Name : 394328075520301
39.72444444,-75.86750000
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 395612860
EPA ID: N/R

NWIS ***(cont.)***

Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	199406
Date Site Established or Inventoried:	01/01/1998
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YNYNNNNN
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation
Local Aquifer Type :	Unconfined single aquifer
Well Depth :	280
Hole Depth :	280
Source of Depth Data :	D
Project Number :	444227500
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Data Begin Date :	N/R
Field Water-Level Data End Date :	N/R
Field Water-Level Data Count :	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	39.72444444
Longitude :	-75.86750000

Map Id: 32
Direction: ESE
Distance: 0.172 mi.
Actual: 907.731 ft.
Elevation: 0.062 mi. / 329.255 ft.
Relative: Higher

Site Name : 103623
39.7325, -75.83778
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364222293
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103623
Owner :	DARHUN INC
Yield GPM :	4
Casing Top :	0 / 50 / 6
Licensee :	N/R
Local Well Number :	4715N
Date Drilled :	05/01/1979
Well Depth :	180
Static Level :	2
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R

Map Id: 32
Direction: ESE
Distance: 0.172 mi.
Actual: 907.731 ft.
Elevation: 0.062 mi. / 329.255 ft.
Relative: Higher

Site Name : 103623
39.7325, -75.83778
PA

Database(s) : [WELLS - PA] ***(cont.)***

Envirosite ID: 364222293
EPA ID: N/R

WELLS - PA ***(cont.)***

WQ Data :	0
Depth to Bed :	10
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST
Latitude :	39.7325
Longitude :	-75.83778
Last Date in Agency List :	03/20/2018

Map Id: C33
Direction: ESE
Distance: 0.176 mi.
Actual: 929.833 ft.
Elevation: 0.062 mi. / 325.476 ft.
Relative: Higher

Site Name : 394353075501601
39.73149965,-75.83743910
PA

Database(s) : [NWIS]

Envirosite ID: 395051120
EPA ID: N/R

NWIS

Site Identification Number :	394353075501601
Site Type :	Well
Site Name :	CH 6278
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	328
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1955
Date Site Established or Inventoried:	07/22/2000
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	130
Hole Depth :	N/R
Source of Depth Data :	O

Map Id: C33
Direction: ESE
Distance: 0.176 mi.
Actual: 929.833 ft.
Elevation: 0.062 mi. / 325.476 ft.
Relative: Higher

Site Name : 394353075501601
39.73149965,-75.83743910
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 395051120
EPA ID: N/R

NWIS ***(cont.)***

Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	07/22/2000
Field Water-Level Data End Date :	07/22/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.73149965
Longitude :	-75.83743910

Map Id: C34
Direction: ESE
Distance: 0.188 mi.
Actual: 992.872 ft.
Elevation: 0.063 mi. / 330.141 ft.
Relative: Higher

Site Name : 103625
39.73333, -75.83722
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364225023
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103625
Owner :	DARHUN INC
Yield GPM :	4
Casing Top :	0 / 66 / 6
Licensee :	N/R
Local Well Number :	4717N
Date Drilled :	08/01/1979
Well Depth :	200
Static Level :	40
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	55
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST
Latitude :	39.73333
Longitude :	-75.83722
Last Date in Agency List :	03/20/2018

Map Id: C35
Direction: SSE
Distance: 0.192 mi.
Actual: 1014.022 ft.
Elevation: 0.061 mi. / 320.118 ft.
Relative: Higher

Site Name : 103628
39.73417, -75.83722
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364222193
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103628
Owner :	DARHUN INC
Yield GPM :	3
Casing Top :	0 / 42 / 6
Licensee :	N/R
Local Well Number :	4720N
Date Drilled :	03/01/1979
Well Depth :	220
Static Level :	40
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	20
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST
Latitude :	39.73417
Longitude :	-75.83722
Last Date in Agency List :	03/20/2018

Map Id: 36
Direction: W
Distance: 0.199 mi.
Actual: 1049.029 ft.
Elevation: 0.044 mi. / 229.977 ft.
Relative: Lower

Site Name : 394423075523701
39.73983255,-75.87660750
PA

Database(s) : [NWIS]

Envirosite ID: 394714010
EPA ID: N/R

NWIS

Site Identification Number :	394423075523701
Site Type :	Well
Site Name :	CH 6262
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	BAY VIEW
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	243
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

Map Id: 36
Direction: W
Distance: 0.199 mi.
Actual: 1049.029 ft.
Elevation: 0.044 mi. / 229.977 ft.
Relative: Lower

Site Name : 394423075523701
39.73983255,-75.87660750
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 394714010
EPA ID: N/R

NWIS ***(cont.)***

Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1960
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	125
Hole Depth :	N/R
Source of Depth Data :	O
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	07/19/2000
Field Water-Level Data End Date :	07/19/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.73983255
Longitude :	-75.87660750

Map Id: 37
Direction: NNW
Distance: 0.203 mi.
Actual: 1072.391 ft.
Elevation: 0.056 mi. / 295.253 ft.
Relative: Higher

Site Name : 394448075514701
39.74677700,-75.86271800
PA

Database(s) : [NWIS]

Envirosite ID: 395001511
EPA ID: N/R

NWIS

Site Identification Number :	394448075514701
Site Type :	Well
Site Name :	CH 6264
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	302
Method Altitude Determined :	Interpolated from topographic map.

Map Id: 37
Direction: NW
Distance: 0.203 mi.
Actual: 1072.391 ft.
Elevation: 0.056 mi. / 295.253 ft.
Relative: Higher

Site Name : 394448075514701
39.74677700,-75.86271800
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 395001511
EPA ID: N/R

NWIS ***(cont.)***

Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1960
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/08/2000
Field Water-Level Data End Date :	06/08/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.74677700
Longitude :	-75.86271800

Map Id: D38
Direction: E
Distance: 0.204 mi.
Actual: 1075.727 ft.
Elevation: 0.057 mi. / 298.688 ft.
Relative: Higher

Site Name : 103629
39.73528, -75.83722
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364222626
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103629
Owner :	DARHUN INC
Yield GPM :	25
Casing Top :	0 / 80 / 6
Licensee :	N/R
Local Well Number :	4721N
Date Drilled :	03/01/1979

Map Id: D38
Direction: E
Distance: 0.204 mi.
Actual: 1075.727 ft.
Elevation: 0.057 mi. / 298.688 ft.
Relative: Higher

Site Name : 103629
39.73528, -75.83722
PA

Database(s) : [WELLS - PA] ***(cont.)***

Envirosite ID: 364222626
EPA ID: N/R

WELLS - PA ***(cont.)***

Well Depth :	220
Static Level :	30
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	10
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST
Latitude :	39.73528
Longitude :	-75.83722
Last Date in Agency List :	03/20/2018

Map Id: 39
Direction: E
Distance: 0.205 mi.
Actual: 1080.159 ft.
Elevation: 0.054 mi. / 284.629 ft.
Relative: Higher

Site Name : 394422075502001
39.73955510,-75.83855030
PA

Database(s) : [NWIS]

Envirosite ID: 395958499
EPA ID: N/R

NWIS

Site Identification Number :	394422075502001
Site Type :	Well
Site Name :	CH 6305
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	290
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	06/26/2000
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y

Map Id: 39
Direction: E
Distance: 0.205 mi.
Actual: 1080.159 ft.
Elevation: 0.054 mi. / 284.629 ft.
Relative: Higher

Site Name : 394422075502001
39.73955510,-75.83855030
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 395958499
EPA ID: N/R

NWIS ***(cont.)***

National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	140
Hole Depth :	N/R
Source of Depth Data :	O
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/26/2000
Field Water-Level Data End Date :	06/26/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.73955510
Longitude :	-75.83855030

Map Id: 40
Direction: NNE
Distance: 0.212 mi.
Actual: 1117.473 ft.
Elevation: 0.074 mi. / 393.087 ft.
Relative: Higher

Site Name : 394456075510901
39.74899930,-75.85216200
PA

Database(s) : [NWIS]

Envirosite ID: 395099938
EPA ID: N/R

NWIS

Site Identification Number :	394456075510901
Site Type :	Well
Site Name :	CH 6269
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	400
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hilltop
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

Map Id: 40
Direction: ENE
Distance: 0.212 mi.
Actual: 1117.473 ft.
Elevation: 0.074 mi. / 393.087 ft.
Relative: Higher

Site Name : 394456075510901
39.74899930,-75.85216200
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 395099938
EPA ID: N/R

NWIS ***(cont.)***

Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/09/2000
Field Water-Level Data End Date :	06/09/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.74899930
Longitude :	-75.85216200

Map Id: 41
Direction: SW
Distance: 0.215 mi.
Actual: 1136.241 ft.
Elevation: 0.074 mi. / 391.368 ft.
Relative: Higher

Site Name : 394333075521101
39.72583330,-75.86944440
PA

Database(s) : [NWIS]

Envirosite ID: 395185749
EPA ID: N/R

NWIS

Site Identification Number :	394333075521101
Site Type :	Well
Site Name :	CH 5431
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	396
Method Altitude Determined :	Differentially corrected Global Positioning System.
Altitude Accuracy :	10

Map Id: 41
Direction: SW
Distance: 0.215 mi.
Actual: 1136.241 ft.
Elevation: 0.074 mi. / 391.368 ft.
Relative: Higher

Site Name : 394333075521101
39.72583330,-75.86944440
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 395185749
EPA ID: N/R

NWIS ***(cont.)***

Altitude Datum :	North American Vertical Datum of 1988
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Flat surface
Data Types :	NNNONNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	07/07/1998
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	NYNNNNNN
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation
Local Aquifer Type :	Unconfined single aquifer
Well Depth :	131
Hole Depth :	131
Source of Depth Data :	S
Project Number :	444227500
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	07/07/1998
Water-Quality Data End Date :	07/07/1998
Water-Quality Data Count :	1
Field Water-Level Data Begin Date :	N/R
Field Water-Level Data End Date :	N/R
Field Water-Level Data Count :	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.72583330
Longitude :	-75.86944440

Map Id: 42
Direction: ESE
Distance: 0.228 mi.
Actual: 1201.610 ft.
Elevation: 0.059 mi. / 309.833 ft.
Relative: Higher

Site Name : 103627
39.73111, -75.83778
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364225472
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103627
Owner :	DARHUN INC
Yield GPM :	1.75
Casing Top :	0 / 91 / 6
Licensee :	N/R
Local Well Number :	4719N
Date Drilled :	04/01/1979
Well Depth :	300

Map Id: 42
Direction: ESE
Distance: 0.228 mi.
Actual: 1201.610 ft.
Elevation: 0.059 mi. / 309.833 ft.
Relative: Higher

Site Name : 103627
39.73111, -75.83778
PA

Database(s) : [WELLS - PA] ***(cont.)***

Envirosite ID: 364225472
EPA ID: N/R

WELLS - PA ***(cont.)***

Static Level :	50
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	25
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST
Latitude :	39.73111
Longitude :	-75.83778
Last Date in Agency List :	03/20/2018

Map Id: 43
Direction: N
Distance: 0.237 mi.
Actual: 1251.997 ft.
Elevation: 0.068 mi. / 356.929 ft.
Relative: Higher

Site Name : 394454075512601
39.74844370,-75.85688450
PA

Database(s) : [NWIS]

Envirosite ID: 394919405
EPA ID: N/R

NWIS

Site Identification Number :	394454075512601
Site Type :	Well
Site Name :	CH 6267
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	360
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers

Map Id: 43
Direction: E
Distance: 0.237 mi.
Actual: 1251.997 ft.
Elevation: 0.068 mi. / 356.929 ft.
Relative: Higher

Site Name : 394454075512601
39.74844370,-75.85688450
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 394919405
EPA ID: N/R

NWIS ***(cont.)***

Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/19/2000
Field Water-Level Data End Date :	06/19/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.74844370
Longitude :	-75.85688450

Map Id: D44
Direction: E
Distance: 0.238 mi.
Actual: 1259.155 ft.
Elevation: 0.055 mi. / 288.238 ft.
Relative: Higher

Site Name : 103636
39.73583, -75.83667
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364225124
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103636
Owner :	DARHUN INC
Yield GPM :	3
Casing Top :	0 / 79 / 6
Licensee :	N/R
Local Well Number :	4728N
Date Drilled :	10/01/1979
Well Depth :	220
Static Level :	40
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	75
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST
Latitude :	39.73583

Map Id: D44
Direction: E
Distance: 0.238 mi.
Actual: 1259.155 ft.
Elevation: 0.055 mi. / 288.238 ft.
Relative: Higher

Site Name : 103636
39.73583, -75.83667
PA

Database(s) : [WELLS - PA] ***(cont.)***

Envirosite ID: 364225124
EPA ID: N/R

WELLS - PA ***(cont.)***

Longitude :	-75.83667
Last Date in Agency List :	03/20/2018

Map Id: 45
Direction: ENE
Distance: 0.239 mi.
Actual: 1262.425 ft.
Elevation: 0.047 mi. / 248.734 ft.
Relative: Higher

Site Name : 394430075502101
39.74177729,-75.83882810
PA

Database(s) : [NWIS]

Envirosite ID: 395214856
EPA ID: N/R

NWIS

Site Identification Number :	394430075502101
Site Type :	Well
Site Name :	CH 6304
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	255
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1985
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	150
Hole Depth :	N/R
Source of Depth Data :	O
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0

Map Id: 45
Direction: ENE
Distance: 0.239 mi.
Actual: 1262.425 ft.
Elevation: 0.047 mi. / 248.734 ft.
Relative: Higher

Site Name : 394430075502101
39.74177729,-75.83882810
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 395214856
EPA ID: N/R

NWIS ***(cont.)***

Field Water-Level Data Begin Date :	06/26/2000
Field Water-Level Data End Date :	06/26/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.74177729
Longitude :	-75.83882810

Map Id: 46
Direction: ESE
Distance: 0.242 mi.
Actual: 1276.766 ft.
Elevation: 0.062 mi. / 327.52 ft.
Relative: Higher

Site Name : 103624
39.73194, -75.83667
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364222611
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103624
Owner :	DARHUN INC
Yield GPM :	1
Casing Top :	0 / 130.5 / 6
Licensee :	N/R
Local Well Number :	4716N
Date Drilled :	07/01/1979
Well Depth :	300
Static Level :	45
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	85
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST
Latitude :	39.73194
Longitude :	-75.83667
Last Date in Agency List :	03/20/2018

Map Id: 47
Direction: NW
Distance: 0.244 mi.
Actual: 1290.060 ft.
Elevation: 0.063 mi. / 332.303 ft.
Relative: Higher

Site Name : 394350075524601
39.73066600,-75.87910759
PA

Database(s) : [NWIS]

Envirosite ID: 395051050
EPA ID: N/R

NWIS

Site Identification Number :	394350075524601
Site Type :	Well
Site Name :	CH 6386
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	BAY VIEW
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	338
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	06/28/2000
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/28/2000
Field Water-Level Data End Date :	06/28/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.73066600
Longitude :	-75.87910759

Map Id: 48
Direction: SW
Distance: 0.262 mi.
Actual: 1383.235 ft.
Elevation: 0.079 mi. / 417.779 ft.
Relative: Higher

Site Name : 394338075521401
39.72733280,-75.87021830
PA

Database(s) : [NWIS]

Envirosite ID: 394918009
EPA ID: N/R

NWIS

Site Identification Number :	394338075521401
Site Type :	Well
Site Name :	CH 6318
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	421
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hilltop
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	06/28/2000
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/28/2000
Field Water-Level Data End Date :	06/28/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.72733280
Longitude :	-75.87021830

Map Id: 49
Direction: ENE
Distance: 0.271 mi.
Actual: 1431.719 ft.
Elevation: 0.077 mi. / 407.812 ft.
Relative: Higher

Site Name :	394500075510501 39.75011040,-75.85105090 PA
Database(s) :	[NWIS]

Envirosite ID: 395453971
EPA ID: N/R

NWIS

Site Identification Number :	394500075510501
Site Type :	Well
Site Name :	CH 6270
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	412
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	150
Hole Depth :	N/R
Source of Depth Data :	O
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/08/2000
Field Water-Level Data End Date :	06/08/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.75011040
Longitude :	-75.85105090

Map Id: 50
Direction: ESE
Distance: 0.280 mi.
Actual: 1477.662 ft.
Elevation: 0.06 mi. / 318.058 ft.
Relative: Higher

Site Name :	394352075500901 39.73122189,-75.83549460 PA
Database(s) :	[NWIS]

Envirosite ID: 395464339
EPA ID: N/R

NWIS

Site Identification Number :	394352075500901
Site Type :	Well
Site Name :	CH 6277
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	321
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	06/24/2000
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/24/2000
Field Water-Level Data End Date :	06/24/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.73122189
Longitude :	-75.83549460

Map Id: 51
Direction: SW
Distance: 0.331 mi.
Actual: 1746.661 ft.
Elevation: 0.077 mi. / 404.59 ft.
Relative: Higher

Site Name : 394332075521901
39.72566616,-75.87160730
PA

Database(s) : [NWIS]

Envirosite ID: 395958415
EPA ID: N/R

NWIS

Site Identification Number :	394332075521901
Site Type :	Well
Site Name :	CH 6317
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	408
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1991
Date Site Established or Inventoried:	07/19/2000
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	380
Hole Depth :	N/R
Source of Depth Data :	O
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	07/19/2000
Field Water-Level Data End Date :	07/19/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.72566616
Longitude :	-75.87160730

Map Id: 52
Direction: ENE
Distance: 0.341 mi.
Actual: 1802.611 ft.
Elevation: 0.055 mi. / 288.773 ft.
Relative: Higher

Site Name : 394431075501401
39.74205508,-75.83688360
PA

Database(s) : [NWIS]

Envirosite ID: 395000844
EPA ID: N/R

NWIS

Site Identification Number :	394431075501401
Site Type :	Well
Site Name :	CH 6303
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	290
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	06/12/2000
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/12/2000
Field Water-Level Data End Date :	06/12/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.74205508
Longitude :	-75.83688360

Map Id: 53
Direction: NW
Distance: 0.346 mi.
Actual: 1824.958 ft.
Elevation: 0.073 mi. / 384.59 ft.
Relative: Higher

Site Name : 394339075524601
39.72761050,-75.87910759
PA

Database(s) : [NWIS]

Envirosite ID: 395498720
EPA ID: N/R

NWIS

Site Identification Number :	394339075524601
Site Type :	Well
Site Name :	CH 6385
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	BAY VIEW
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	401
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	06/28/2000
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/28/2000
Field Water-Level Data End Date :	06/28/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.72761050
Longitude :	-75.87910759

Map Id: 54
Direction: E
Distance: 0.359 mi.
Actual: 1894.596 ft.
Elevation: 0.06 mi. / 319.226 ft.
Relative: Higher

Site Name : 394356075500401
39.73233300,-75.83410570
PA

Database(s) : [NWIS]

Envirosite ID: 395478049
EPA ID: N/R

NWIS

Site Identification Number :	394356075500401
Site Type :	Well
Site Name :	CH 6276
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	326
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	06/24/2000
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	300
Hole Depth :	N/R
Source of Depth Data :	D
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/24/2000
Field Water-Level Data End Date :	06/24/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.73233300
Longitude :	-75.83410570

Map Id: 55
Direction: WSW
Distance: 0.376 mi.
Actual: 1985.543 ft.
Elevation: 0.078 mi. / 410.279 ft.
Relative: Higher

Site Name : 103514
39.72778, -75.87556
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364224817
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103514
Owner :	GREGG K
Yield GPM :	10
Casing Top :	0 / 79 / 6
Licensee :	N/R
Local Well Number :	4671N
Date Drilled :	04/01/1979
Well Depth :	141
Static Level :	26
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	70
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	ELK TWP.
Quad Boundary :	BAY VIEW
Latitude :	39.72778
Longitude :	-75.87556
Last Date in Agency List :	03/20/2018

Map Id: 56
Direction: SW
Distance: 0.390 mi.
Actual: 2060.982 ft.
Elevation: 0.08 mi. / 421.788 ft.
Relative: Higher

Site Name : 103579
39.7275, -75.87417
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364224951
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103579
Owner :	WRIGHT HENRY
Yield GPM :	5
Casing Top :	0 / 62 / 6
Licensee :	R WALTER SLAUCH & SONS
Local Well Number :	X 4137
Date Drilled :	N/R
Well Depth :	160
Static Level :	28
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	50
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	ELK TWP.

Map Id: 56
Direction: SW
Distance: 0.390 mi.
Actual: 2060.982 ft.
Elevation: 0.08 mi. / 421.788 ft.
Relative: Higher

Site Name : 103579
39.7275, -75.87417
PA

Database(s) : [WELLS - PA] ***(cont.)***

Envirosite ID: 364224951
EPA ID: N/R

WELLS - PA ***(cont.)***

Quad Boundary :	NEWARK WEST
Latitude :	39.7275
Longitude :	-75.87417
Last Date in Agency List :	03/20/2018

Map Id: 57
Direction: E
Distance: 0.391 mi.
Actual: 2064.371 ft.
Elevation: 0.058 mi. / 306.512 ft.
Relative: Higher

Site Name : 394417075500601
39.73816626,-75.83466128
PA

Database(s) : [NWIS]

Envirosite ID: 395958482
EPA ID: N/R

NWIS

Site Identification Number :	394417075500601
Site Type :	Well
Site Name :	CH 6306
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	311
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1986
Date Site Established or Inventoried:	06/26/2000
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R

Map Id: 57
Direction: E
Distance: 0.391 mi.
Actual: 2064.371 ft.
Elevation: 0.058 mi. / 306.512 ft.
Relative: Higher

Site Name : 394417075500601
39.73816626,-75.83466128
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 395958482
EPA ID: N/R

NWIS ***(cont.)***

Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/26/2000
Field Water-Level Data End Date :	06/26/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.73816626
Longitude :	-75.83466128

Map Id: 58
Direction: NNE
Distance: 0.396 mi.
Actual: 2090.692 ft.
Elevation: 0.07 mi. / 370.331 ft.
Relative: Higher

Site Name : 103655
39.75417, -75.85056
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364226686
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103655
Owner :	SKINNER A
Yield GPM :	6
Casing Top :	0 / 30 / 6
Licensee :	MAYBERRY, LEONARD
Local Well Number :	4747N
Date Drilled :	11/01/1978
Well Depth :	72
Static Level :	27
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	24
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE
Latitude :	39.75417
Longitude :	-75.85056
Last Date in Agency List :	03/20/2018

Map Id: 59
Direction: NW
Distance: 0.399 mi.
Actual: 2108.138 ft.
Elevation: 0.06 mi. / 316.627 ft.
Relative: Higher

Site Name : 394459075522901
39.74983240,-75.87438520
PA

Database(s) : [NWIS]

Envirosite ID: 394714918
EPA ID: N/R

NWIS

Site Identification Number :	394459075522901
Site Type :	Well
Site Name :	CH 6146
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	338
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	06/29/2000
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/29/2000
Field Water-Level Data End Date :	06/29/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.74983240
Longitude :	-75.87438520

Map Id: 60
Direction: SW
Distance: 0.403 mi.
Actual: 2129.705 ft.
Elevation: 0.074 mi. / 390.663 ft.
Relative: Higher

Site Name : 103525
39.72583, -75.87222
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364224925
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103525
Owner :	VENDRICK K
Yield GPM :	3
Casing Top :	0 / 41 / 6
Licensee :	N/R
Local Well Number :	4682N
Date Drilled :	12/01/1978
Well Depth :	207
Static Level :	59
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	35
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	ELK TWP.
Quad Boundary :	NEWARK WEST
Latitude :	39.72583
Longitude :	-75.87222
Last Date in Agency List :	03/20/2018

Map Id: E61
Direction: NNE
Distance: 0.431 mi.
Actual: 2274.390 ft.
Elevation: 0.079 mi. / 414.528 ft.
Relative: Higher

Site Name : 103766
39.75472, -75.84806
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364221967
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103766
Owner :	BROOKING ORVILE
Yield GPM :	25
Casing Top :	0 / 40 / 6
Licensee :	MAYBERRY, LEONARD
Local Well Number :	X 4012
Date Drilled :	N/R
Well Depth :	140
Static Level :	25
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	30
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.

Map Id: E61
Direction: NNE
Distance: 0.431 mi.
Actual: 2274.390 ft.
Elevation: 0.079 mi. / 414.528 ft.
Relative: Higher

Site Name : 103766
39.75472, -75.84806
PA

Database(s) : [WELLS - PA] ***(cont.)***

Envirosite ID: 364221967
EPA ID: N/R

WELLS - PA ***(cont.)***

Quad Boundary :	WEST GROVE
Latitude :	39.75472
Longitude :	-75.84806
Last Date in Agency List :	03/20/2018

Map Id: E62
Direction: NNE
Distance: 0.431 mi.
Actual: 2274.390 ft.
Elevation: 0.079 mi. / 414.528 ft.
Relative: Higher

Site Name : 103764
39.75472, -75.84806
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364222286
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103764
Owner :	HANNUM C C
Yield GPM :	10
Casing Top :	0 / 48 / 6
Licensee :	R WALTER SLAUCH & SONS
Local Well Number :	X 4010
Date Drilled :	N/R
Well Depth :	139
Static Level :	28
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	45
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE
Latitude :	39.75472
Longitude :	-75.84806
Last Date in Agency List :	03/20/2018

Map Id: E63
Direction: NNE
Distance: 0.431 mi.
Actual: 2274.390 ft.
Elevation: 0.079 mi. / 414.528 ft.
Relative: Higher

Site Name : 103767
39.75472, -75.84806
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364222339
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103767
Owner :	CARRIAGE PRK 20
Yield GPM :	25
Casing Top :	0 / 27 / 6
Licensee :	MAYBERRY, LEONARD
Local Well Number :	X 4013
Date Drilled :	N/R
Well Depth :	73
Static Level :	23
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	12
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE
Latitude :	39.75472
Longitude :	-75.84806
Last Date in Agency List :	03/20/2018

Map Id: E64
Direction: NNE
Distance: 0.431 mi.
Actual: 2274.390 ft.
Elevation: 0.079 mi. / 414.528 ft.
Relative: Higher

Site Name : 103765
39.75472, -75.84806
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364225125
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103765
Owner :	SKINNER AL
Yield GPM :	10
Casing Top :	0 / 20 / 6
Licensee :	MAYBERRY, LEONARD
Local Well Number :	X 4011
Date Drilled :	N/R
Well Depth :	71
Static Level :	20
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	12
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.

Map Id: E64
Direction: ENE
Distance: 0.431 mi.
Actual: 2274.390 ft.
Elevation: 0.079 mi. / 414.528 ft.
Relative: Higher

Site Name : 103765
39.75472, -75.84806
PA

Database(s) : [WELLS - PA] ***(cont.)***

Envirosite ID: 364225125
EPA ID: N/R

WELLS - PA ***(cont.)***

Quad Boundary :	WEST GROVE
Latitude :	39.75472
Longitude :	-75.84806
Last Date in Agency List :	03/20/2018

Map Id: E65
Direction: NNE
Distance: 0.431 mi.
Actual: 2274.390 ft.
Elevation: 0.079 mi. / 414.528 ft.
Relative: Higher

Site Name : 103768
39.75472, -75.84806
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364226752
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103768
Owner :	SKINNER ALBERT
Yield GPM :	5
Casing Top :	0 / 38 / 6
Licensee :	MAYBERRY, LEONARD
Local Well Number :	X 4014
Date Drilled :	N/R
Well Depth :	160
Static Level :	35
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	30
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE
Latitude :	39.75472
Longitude :	-75.84806
Last Date in Agency List :	03/20/2018

Map Id: 66
Direction: NE
Distance: 0.443 mi.
Actual: 2340.384 ft.
Elevation: 0.062 mi. / 327.661 ft.
Relative: Higher

Site Name : 394452075502901
39.74788830,-75.84105050
PA

Database(s) : [NWIS]

Envirosite ID: 395501206
EPA ID: N/R

NWIS

Site Identification Number :	394452075502901
Site Type :	Well
Site Name :	CH 6312
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	334
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1965
Date Site Established or Inventoried:	06/10/2000
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	155
Hole Depth :	N/R
Source of Depth Data :	O
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/10/2000
Field Water-Level Data End Date :	06/10/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.74788830
Longitude :	-75.84105050

Map Id: 67
Direction: SW
Distance: 0.448 mi.
Actual: 2367.165 ft.
Elevation: 0.08 mi. / 421.962 ft.
Relative: Higher

Site Name : 394328075523001
39.72455505,-75.87466290
PA

Database(s) : [NWIS]

Envirosite ID: 395213665
EPA ID: N/R

NWIS

Site Identification Number :	394328075523001
Site Type :	Well
Site Name :	CH 1785
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	428
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	010
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hilltop
Data Types :	N/R
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	01/01/1969
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YYYYNNNN
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	159
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	07/01/1974
Field Water-Level Data End Date :	07/01/1974
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.72455505
Longitude :	-75.87466290

Map Id: 68
Direction: E
Distance: 0.449 mi.
Actual: 2373.268 ft.
Elevation: 0.059 mi. / 309.265 ft.
Relative: Higher

Site Name : 394407075500001
39.73538850,-75.83299450
PA

Database(s) : [NWIS]

Envirosite ID: 395464770
EPA ID: N/R

NWIS

Site Identification Number :	394407075500001
Site Type :	Well
Site Name :	CH 6274
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	320
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	06/22/2000
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/22/2000
Field Water-Level Data End Date :	06/22/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.73538850
Longitude :	-75.83299450

Map Id: F69
Direction: ENE
Distance: 0.485 mi.
Actual: 2560.639 ft.
Elevation: 0.075 mi. / 396.201 ft.
Relative: Higher

Site Name : 103656
39.75556, -75.84944
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364221939
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103656
Owner :	SKINNER ALBERT D
Yield GPM :	30
Casing Top :	0 / 38 / 5
Licensee :	MAYBERRY, LEONARD
Local Well Number :	4748N
Date Drilled :	07/28/1975
Well Depth :	110
Static Level :	20
Well Finish :	N/R
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	0
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE
Latitude :	39.75556
Longitude :	-75.84944
Last Date in Agency List :	03/20/2018

Map Id: 70
Direction: SW
Distance: 0.503 mi.
Actual: 2653.755 ft.
Elevation: 0.079 mi. / 417.772 ft.
Relative: Higher

Site Name : 394324075522801
39.72344396,-75.87410740
PA

Database(s) : [NWIS]

Envirosite ID: 395456373
EPA ID: N/R

NWIS

Site Identification Number :	394324075522801
Site Type :	Well
Site Name :	CH 6259
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	425
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

Map Id: 70
Direction: SW
Distance: 0.503 mi.
Actual: 2653.755 ft.
Elevation: 0.079 mi. / 417.772 ft.
Relative: Higher

Site Name : 394324075522801
39.72344396,-75.87410740
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 395456373
EPA ID: N/R

NWIS ***(cont.)***

Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/23/2000
Field Water-Level Data End Date :	06/23/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.72344396
Longitude :	-75.87410740

Map Id: 71
Direction: WSW
Distance: 0.504 mi.
Actual: 2662.475 ft.
Elevation: 0.079 mi. / 415.853 ft.
Relative: Higher

Site Name : 394326075523801
39.72399948,-75.87688530
PA

Database(s) : [NWIS]

Envirosite ID: 395463554
EPA ID: N/R

NWIS

Site Identification Number :	394326075523801
Site Type :	Well
Site Name :	CH 6384
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	BAY VIEW
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	419
Method Altitude Determined :	Interpolated from topographic map.

Map Id: 71
Direction: WSW
Distance: 0.504 mi.
Actual: 2662.475 ft.
Elevation: 0.079 mi. / 415.853 ft.
Relative: Higher

Site Name : 394326075523801
39.72399948,-75.87688530
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 395463554
EPA ID: N/R

NWIS ***(cont.)***

Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	06/29/2000
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/29/2000
Field Water-Level Data End Date :	06/29/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.72399948
Longitude :	-75.87688530

Map Id: 72
Direction: ENE
Distance: 0.508 mi.
Actual: 2681.079 ft.
Elevation: 0.067 mi. / 352.346 ft.
Relative: Higher

Site Name : 394435075500401
39.74316620,-75.83410570
PA

Database(s) : [NWIS]

Envirosite ID: 395214941
EPA ID: N/R

NWIS

Site Identification Number :	394435075500401
Site Type :	Well
Site Name :	CH 6302
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County

Map Id: 72
Direction: ENE
Distance: 0.508 mi.
Actual: 2681.079 ft.
Elevation: 0.067 mi. / 352.346 ft.
Relative: Higher

Site Name : 394435075500401
39.74316620,-75.83410570
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 395214941
EPA ID: N/R

NWIS ***(cont.)***

Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	350
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	06/25/2000
Date Site Established or Inventoried:	08/05/2000
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	08/05/2000
Field Water-Level Data End Date :	08/05/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.74316620
Longitude :	-75.83410570

Map Id: 73
Direction: E
Distance: 0.511 mi.
Actual: 2697.624 ft.
Elevation: 0.06 mi. / 318.612 ft.
Relative: Higher

Site Name : 394358075495401
39.73288857,-75.83132778
PA

Database(s) : [NWIS]

Envirosite ID: 395464534
EPA ID: N/R

NWIS

Site Identification Number :	394358075495401

Map Id: 73
Direction: E
Distance: 0.511 mi.
Actual: 2697.624 ft.
Elevation: 0.06 mi. / 318.612 ft.
Relative: Higher

Site Name : 394358075495401
39.73288857,-75.83132778
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 395464534
EPA ID: N/R

NWIS ***(cont.)***

Site Type :	Well
Site Name :	CH 6275
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	320
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	06/22/2000
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/22/2000
Field Water-Level Data End Date :	06/22/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.73288857
Longitude :	-75.83132778

Map Id: F74
Direction: ENE
Distance: 0.523 mi.
Actual: 2759.410 ft.
Elevation: 0.077 mi. / 408.625 ft.
Relative: Higher

Site Name : 394514075505701
39.75399920,-75.84882870
PA

Database(s) : [NWIS]

Envirosite ID: 394836147
EPA ID: N/R

NWIS

Site Identification Number :	394514075505701
Site Type :	Well
Site Name :	CH 6258
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	WEST GROVE
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	405
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1991
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	125
Hole Depth :	N/R
Source of Depth Data :	O
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/08/2000
Field Water-Level Data End Date :	06/08/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.75399920
Longitude :	-75.84882870

Map Id: 75
Direction: NW
Distance: 0.534 mi.
Actual: 2819.222 ft.
Elevation: 0.078 mi. / 413.803 ft.
Relative: Higher

Site Name : 394342075530301
39.72844380,-75.88383000
PA

Database(s) : [NWIS]

Envirosite ID: 395000132
EPA ID: N/R

NWIS

Site Identification Number :	394342075530301
Site Type :	Well
Site Name :	CH 6382
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	BAY VIEW
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	420
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hilltop
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1970
Date Site Established or Inventoried:	06/23/2000
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	150
Hole Depth :	N/R
Source of Depth Data :	O
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/23/2000
Field Water-Level Data End Date :	06/23/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.72844380
Longitude :	-75.88383000

Map Id: 76
Direction: N
Distance: 0.570 mi.
Actual: 3010.692 ft.
Elevation: 0.067 mi. / 355.673 ft.
Relative: Higher

Site Name : 394351075531001
39.73094375,-75.88577450
PA

Database(s) : [NWIS]

Envirosite ID: 394835147
EPA ID: N/R

NWIS

Site Identification Number :	394351075531001
Site Type :	Well
Site Name :	CH 6378
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	BAY VIEW
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	415
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	280
Hole Depth :	N/R
Source of Depth Data :	D
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	08/05/2000
Field Water-Level Data End Date :	08/05/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.73094375
Longitude :	-75.88577450

Map Id: 77
Direction: SW
Distance: 0.576 mi.
Actual: 3043.336 ft.
Elevation: 0.081 mi. / 425.249 ft.
Relative: Higher

Site Name : 394320075523101
39.72233286,-75.87494070
PA

Database(s) : [NWIS]

Envirosite ID: 395176670
EPA ID: N/R

NWIS

Site Identification Number :	394320075523101
Site Type :	Well
Site Name :	CH 1784
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	BAY VIEW
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	430
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	20
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hilltop
Data Types :	N/R
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	02/10/1970
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YYYYNNNN
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	150
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	1970-10
Field Water-Level Data End Date :	1970-10
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.72233286
Longitude :	-75.87494070

Map Id: 78
Direction: NE
Distance: 0.581 mi.
Actual: 3066.045 ft.
Elevation: 0.074 mi. / 391.45 ft.
Relative: Higher

Site Name : 394515075504401
39.75427704,-75.84521750
PA

Database(s) : [NWIS]

Envirosite ID: 395215915
EPA ID: N/R

NWIS

Site Identification Number :	394515075504401
Site Type :	Well
Site Name :	CH 6257
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	WEST GROVE
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	394
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/08/2000
Field Water-Level Data End Date :	06/08/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.75427704
Longitude :	-75.84521750

Map Id: 79
Direction: NNW
Distance: 0.606 mi.
Actual: 3198.444 ft.
Elevation: 0.073 mi. / 385.968 ft.
Relative: Higher

Site Name : 394430075530401
39.74177690,-75.88410780
PA

Database(s) : [NWIS]

Envirosite ID: 395214890
EPA ID: N/R

NWIS

Site Identification Number :	394430075530401
Site Type :	Well
Site Name :	CH 6374
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	BAY VIEW
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	382
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	199202
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YYYY Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	400
Hole Depth :	N/R
Source of Depth Data :	D
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/10/2000
Field Water-Level Data End Date :	06/10/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.74177690
Longitude :	-75.88410780

Map Id: 80
Direction: ENE
Distance: 0.634 mi.
Actual: 3345.810 ft.
Elevation: 0.07 mi. / 370.656 ft.
Relative: Higher

Site Name : 394439075495701
39.74427730,-75.83216120
PA

Database(s) : [NWIS]

Envirosite ID: 395054314
EPA ID: N/R

NWIS

Site Identification Number :	394439075495701
Site Type :	Well
Site Name :	CH 6301
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	381
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1980
Date Site Established or Inventoried:	06/13/2000
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	100
Hole Depth :	N/R
Source of Depth Data :	O
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/13/2000
Field Water-Level Data End Date :	06/13/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.74427730
Longitude :	-75.83216120

Map Id: G81
Direction: ENE
Distance: 0.634 mi.
Actual: 3346.426 ft.
Elevation: 0.059 mi. / 313.566 ft.
Relative: Higher

Site Name : 103785
39.74972, -75.83472
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364221981
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103785
Owner :	KIMBELOT CORP
Yield GPM :	6
Casing Top :	0 / 45 / 6
Licensee :	POWELL DRILLING & SERVICES INC
Local Well Number :	X 4031
Date Drilled :	N/R
Well Depth :	280
Static Level :	60
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	40
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST
Latitude :	39.74972
Longitude :	-75.83472
Last Date in Agency List :	03/20/2018

Map Id: G82
Direction: ENE
Distance: 0.634 mi.
Actual: 3346.426 ft.
Elevation: 0.059 mi. / 313.566 ft.
Relative: Higher

Site Name : 103784
39.74972, -75.83472
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364226811
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103784
Owner :	KIMBELOT CORP
Yield GPM :	10
Casing Top :	0 / 44 / 6
Licensee :	POWELL DRILLING & SERVICES INC
Local Well Number :	X 4030
Date Drilled :	N/R
Well Depth :	160
Static Level :	38
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	39
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.

Map Id: G82
Direction: ENE
Distance: 0.634 mi.
Actual: 3346.426 ft.
Elevation: 0.059 mi. / 313.566 ft.
Relative: Higher

Site Name : 103784
39.74972, -75.83472
PA

Database(s) : [WELLS - PA] ***(cont.)***

Envirosite ID: 364226811
EPA ID: N/R

WELLS - PA ***(cont.)***

Quad Boundary :	NEWARK WEST
Latitude :	39.74972
Longitude :	-75.83472
Last Date in Agency List :	03/20/2018

Map Id: G83
Direction: ENE
Distance: 0.634 mi.
Actual: 3346.426 ft.
Elevation: 0.059 mi. / 313.566 ft.
Relative: Higher

Site Name : 103783
39.74972, -75.83472
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364335240
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103783
Owner :	KIMBELOT CORP
Yield GPM :	0
Casing Top :	0 / 44 / 6
Licensee :	POWELL DRILLING & SERVICES INC
Local Well Number :	X 4029
Date Drilled :	N/R
Well Depth :	400
Static Level :	40
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	39
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST
Latitude :	39.74972
Longitude :	-75.83472
Last Date in Agency List :	03/20/2018

Map Id: 84
Direction: WSW
Distance: 0.634 mi.
Actual: 3348.862 ft.
Elevation: 0.08 mi. / 423.356 ft.
Relative: Higher

Site Name : 394327075525801
39.72427720,-75.88244100
PA

Database(s) : [NWIS]

Envirosite ID: 394835042
EPA ID: N/R

NWIS

Site Identification Number :	394327075525801
Site Type :	Well
Site Name :	CH 6383
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	BAY VIEW
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	430
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	06/23/2000
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/23/2000
Field Water-Level Data End Date :	06/23/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.72427720
Longitude :	-75.88244100

Map Id: G85
Direction: ENE
Distance: 0.638 mi.
Actual: 3369.211 ft.
Elevation: 0.061 mi. / 323.494 ft.
Relative: Higher

Site Name : 394452075500701
39.74788837,-75.83493910
PA

Database(s) : [NWIS]

Envirosite ID: 395099906
EPA ID: N/R

NWIS

Site Identification Number :	394452075500701
Site Type :	Well
Site Name :	CH 6311
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	327
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	06/12/2000
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/12/2000
Field Water-Level Data End Date :	06/12/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.74788837
Longitude :	-75.83493910

Map Id: 86
Direction: SW
Distance: 0.644 mi.
Actual: 3401.699 ft.
Elevation: 0.078 mi. / 414.419 ft.
Relative: Higher

Site Name : MDG342513
606 LEWISVILLE ROAD
ELKTON, MD 21921

Database(s) : [INACTIVE PCS]

Envirosite ID: 396762404
EPA ID: N/R

INACTIVE PCS

Issue Date :	03/02/2006
Original Issue Date :	03/02/2006
Effective Date :	03/02/2006
Expiration Date :	05/24/2007
Retirement Date :	N/R
Termination Date :	N/R
Issuing Agency :	N/R
Agency Type Code :	State
Activity ID :	20034192
External Permit Number :	MDG342513
Facility Type Indicator :	NON-POTW
Permit Type Code :	General Permit Covered Facility-NPDES)
Major Minor Status :	N
Permit Status Code :	Expired
Total Design Flow Number :	N/R
Actual Average Flow Number :	N/R
State Water Body :	N/R
State Water Body Name :	LITTLE ELK CREEK
Permit Name :	MID STATES OIL REFINING-ELKTON
Permit Comp Status :	Y
RNC Tracking :	Y
Master External Permit Number :	MDG340000
TMDL Interface :	N/R
EDMR Authorization :	N
Pretreatment Indicator Code :	N/R

Map Id: G87
Direction: ENE
Distance: 0.647 mi.
Actual: 3415.399 ft.
Elevation: 0.062 mi. / 325.863 ft.
Relative: Higher

Site Name : 103775
39.75, -75.83472
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364221977
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103775
Owner :	KIMBELOT CORP
Yield GPM :	20
Casing Top :	0 / 43 / 6
Licensee :	POWELL DRILLING & SERVICES INC
Local Well Number :	X 4021
Date Drilled :	N/R
Well Depth :	200
Static Level :	40
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	38
Site Type :	WELL
Elevation :	0

Map Id: G87
Direction: ENE
Distance: 0.647 mi.
Actual: 3415.399 ft.
Elevation: 0.062 mi. / 325.863 ft.
Relative: Higher

Site Name : 103775
39.75, -75.83472
PA

Database(s) : [WELLS - PA] ***(cont.)***

Envirosite ID: 364221977
EPA ID: N/R

WELLS - PA ***(cont.)***

County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST
Latitude :	39.75
Longitude :	-75.83472
Last Date in Agency List :	03/20/2018

Map Id: G88
Direction: ENE
Distance: 0.647 mi.
Actual: 3415.399 ft.
Elevation: 0.062 mi. / 325.863 ft.
Relative: Higher

Site Name : 103782
39.75, -75.83472
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364222051
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103782
Owner :	KIMBELOT CORP
Yield GPM :	12
Casing Top :	0 / 44 / 6
Licensee :	POWELL DRILLING & SERVICES INC
Local Well Number :	X 4028
Date Drilled :	N/R
Well Depth :	160
Static Level :	30
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	39
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST
Latitude :	39.75
Longitude :	-75.83472
Last Date in Agency List :	03/20/2018

Map Id: G89
Direction: ENE
Distance: 0.647 mi.
Actual: 3415.399 ft.
Elevation: 0.062 mi. / 325.863 ft.
Relative: Higher

Site Name : 103781
39.75, -75.83472
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364222274
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103781
Owner :	KIMBELOT CORP
Yield GPM :	10
Casing Top :	0 / 79 / 6
Licensee :	POWELL DRILLING & SERVICES INC
Local Well Number :	X 4027
Date Drilled :	N/R
Well Depth :	180
Static Level :	40
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	74
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST
Latitude :	39.75
Longitude :	-75.83472
Last Date in Agency List :	03/20/2018

Map Id: G90
Direction: ENE
Distance: 0.647 mi.
Actual: 3415.399 ft.
Elevation: 0.062 mi. / 325.863 ft.
Relative: Higher

Site Name : 103774
39.75, -75.83472
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364222312
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103774
Owner :	KIMBERLOT CORP
Yield GPM :	25
Casing Top :	0 / 46 / 6
Licensee :	POWELL DRILLING & SERVICES INC
Local Well Number :	X 4020
Date Drilled :	N/R
Well Depth :	200
Static Level :	41
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	41
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.

Map Id: G90
Direction: ENE
Distance: 0.647 mi.
Actual: 3415.399 ft.
Elevation: 0.062 mi. / 325.863 ft.
Relative: Higher

Site Name : 103774
39.75, -75.83472
PA

Database(s) : [WELLS - PA] ***(cont.)***

Envirosite ID: 364222312
EPA ID: N/R

WELLS - PA ***(cont.)***

Quad Boundary :	NEWARK WEST
Latitude :	39.75
Longitude :	-75.83472
Last Date in Agency List :	03/20/2018

Map Id: G91
Direction: ENE
Distance: 0.647 mi.
Actual: 3415.399 ft.
Elevation: 0.062 mi. / 325.863 ft.
Relative: Higher

Site Name : 103777
39.75, -75.83472
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364222347
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103777
Owner :	KIMBELOT CORP
Yield GPM :	12
Casing Top :	0 / 61 / 6
Licensee :	POWELL DRILLING & SERVICES INC
Local Well Number :	X 4023
Date Drilled :	N/R
Well Depth :	300
Static Level :	70
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	56
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST
Latitude :	39.75
Longitude :	-75.83472
Last Date in Agency List :	03/20/2018

Map Id: G92
Direction: ENE
Distance: 0.647 mi.
Actual: 3415.399 ft.
Elevation: 0.062 mi. / 325.863 ft.
Relative: Higher

Site Name : 103776
39.75, -75.83472
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364225136
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103776
Owner :	KIMBELOT CORP
Yield GPM :	20
Casing Top :	0 / 167 / 6
Licensee :	POWELL DRILLING & SERVICES INC
Local Well Number :	X 4022
Date Drilled :	N/R
Well Depth :	240
Static Level :	50
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	162
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST
Latitude :	39.75
Longitude :	-75.83472
Last Date in Agency List :	03/20/2018

Map Id: G93
Direction: ENE
Distance: 0.647 mi.
Actual: 3415.399 ft.
Elevation: 0.062 mi. / 325.863 ft.
Relative: Higher

Site Name : 103780
39.75, -75.83472
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364225536
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103780
Owner :	KIMBELOT CORP
Yield GPM :	10
Casing Top :	0 / 48 / 6
Licensee :	POWELL DRILLING & SERVICES INC
Local Well Number :	X 4026
Date Drilled :	N/R
Well Depth :	160
Static Level :	35
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	43
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.

Map Id: G93
Direction: ENE
Distance: 0.647 mi.
Actual: 3415.399 ft.
Elevation: 0.062 mi. / 325.863 ft.
Relative: Higher

Site Name : 103780
39.75, -75.83472
PA

Database(s) : [WELLS - PA] ***(cont.)***

Envirosite ID: 364225536
EPA ID: N/R

WELLS - PA ***(cont.)***

Quad Boundary :	NEWARK WEST
Latitude :	39.75
Longitude :	-75.83472
Last Date in Agency List :	03/20/2018

Map Id: G94
Direction: ENE
Distance: 0.647 mi.
Actual: 3415.399 ft.
Elevation: 0.062 mi. / 325.863 ft.
Relative: Higher

Site Name : 103779
39.75, -75.83472
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364226098
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103779
Owner :	KIMBELOT CORP
Yield GPM :	30
Casing Top :	0 / 77 / 6
Licensee :	POWELL DRILLING & SERVICES INC
Local Well Number :	X 4025
Date Drilled :	N/R
Well Depth :	240
Static Level :	45
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	72
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST
Latitude :	39.75
Longitude :	-75.83472
Last Date in Agency List :	03/20/2018

Map Id: G95
Direction: ENE
Distance: 0.647 mi.
Actual: 3415.399 ft.
Elevation: 0.062 mi. / 325.863 ft.
Relative: Higher

Site Name : 103778
39.75, -75.83472
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364226782
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103778
Owner :	KIMBELOT CORP
Yield GPM :	8
Casing Top :	0 / 51 / 6
Licensee :	POWELL DRILLING & SERVICES INC
Local Well Number :	X 4024
Date Drilled :	N/R
Well Depth :	200
Static Level :	40
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	46
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST
Latitude :	39.75
Longitude :	-75.83472
Last Date in Agency List :	03/20/2018

Map Id: 96
Direction: E
Distance: 0.663 mi.
Actual: 3500.467 ft.
Elevation: 0.069 mi. / 365.627 ft.
Relative: Higher

Site Name : 394415075494701
39.73761075,-75.82938330
PA

Database(s) : [NWIS]

Envirosite ID: 395458130
EPA ID: N/R

NWIS

Site Identification Number :	394415075494701
Site Type :	Well
Site Name :	CH 6273
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	363
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

Map Id: 96
Direction: E
Distance: 0.663 mi.
Actual: 3500.467 ft.
Elevation: 0.069 mi. / 365.627 ft.
Relative: Higher

Site Name : 394415075494701
39.73761075,-75.82938330
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 395458130
EPA ID: N/R

NWIS ***(cont.)***

Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	06/10/2000
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/10/2000
Field Water-Level Data End Date :	06/10/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.73761075
Longitude :	-75.82938330

Map Id: 97
Direction: ENE
Distance: 0.684 mi.
Actual: 3610.628 ft.
Elevation: 0.055 mi. / 288.392 ft.
Relative: Higher

Site Name : 103652
39.75194, -75.83667
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364222242
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103652
Owner :	KIMBELOT CORP
Yield GPM :	10
Casing Top :	0 / 42 / 6
Licensee :	N/R
Local Well Number :	4744N
Date Drilled :	10/06/1977
Well Depth :	240
Static Level :	35
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R

Map Id: 97
Direction: ENE
Distance: 0.684 mi.
Actual: 3610.628 ft.
Elevation: 0.055 mi. / 288.392 ft.
Relative: Higher

Site Name : 103652
39.75194, -75.83667
PA

Database(s) : [WELLS - PA] ***(cont.)***

Envirosite ID: 364222242
EPA ID: N/R

WELLS - PA ***(cont.)***

WQ Data :	0
Depth to Bed :	37
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE
Latitude :	39.75194
Longitude :	-75.83667
Last Date in Agency List :	03/20/2018

Map Id: 98
Direction: SW
Distance: 0.700 mi.
Actual: 3694.466 ft.
Elevation: 0.081 mi. / 426.001 ft.
Relative: Higher

Site Name : 394314075523601
39.72066620,-75.87632968
MD

Database(s) : [NWIS]

Envirosite ID: 395185585
EPA ID: N/R

NWIS

Site Identification Number :	394314075523601
Site Type :	Well
Site Name :	CE Ae 45
Agency :	U.S. Geological Survey
District :	Maryland
State :	MD
County :	Cecil County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	BAY VIEW, MD-PA
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	420.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	08/10/1966
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YYYYNNNN
National Aquifer :	N/R
Local Aquifer :	Pelitic Gneiss of Wissahickon (?) Formation
Local Aquifer Type :	N/R
Well Depth :	85.0
Hole Depth :	85.0
Source of Depth Data :	N/R

Map Id: 98
Direction: SW
Distance: 0.700 mi.
Actual: 3694.466 ft.
Elevation: 0.081 mi. / 426.001 ft.
Relative: Higher

Site Name : 394314075523601
39.72066620,-75.87632968
MD

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 395185585
EPA ID: N/R

NWIS ***(cont.)***

Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	08/10/1966
Field Water-Level Data End Date :	08/10/1966
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.72066620
Longitude :	-75.87632968

Map Id: 99
Direction: NW
Distance: 0.704 mi.
Actual: 3715.494 ft.
Elevation: 0.052 mi. / 275.522 ft.
Relative: Higher

Site Name : 394518075521501
39.75511010,-75.87049630
PA

Database(s) : [NWIS]

Envirosite ID: 395454812
EPA ID: N/R

NWIS

Site Identification Number :	394518075521501
Site Type :	Well
Site Name :	CH 6252
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	WEST GROVE
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	270
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y

Map Id: 99
Direction: NW
Distance: 0.704 mi.
Actual: 3715.494 ft.
Elevation: 0.052 mi. / 275.522 ft.
Relative: Higher

Site Name : 394518075521501
39.75511010,-75.87049630
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 395454812
EPA ID: N/R

NWIS ***(cont.)***

National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	07/22/2000
Field Water-Level Data End Date :	07/22/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.75511010
Longitude :	-75.87049630

Map Id: 100
Direction: ENE
Distance: 0.717 mi.
Actual: 3787.683 ft.
Elevation: 0.052 mi. / 276.453 ft.
Relative: Higher

Site Name : 103651
39.75194, -75.83556
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364225016
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103651
Owner :	KIMBELOT CORP
Yield GPM :	10
Casing Top :	0 / 54 / 6
Licensee :	N/R
Local Well Number :	4743N
Date Drilled :	10/05/1977
Well Depth :	260
Static Level :	47
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	49
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE

Map Id: 100
Direction: NE
Distance: 0.717 mi.
Actual: 3787.683 ft.
Elevation: 0.052 mi. / 276.453 ft.
Relative: Higher

Site Name : 103651
39.75194, -75.83556
PA

Database(s) : [WELLS - PA] ***(cont.)***

Envirosite ID: 364225016
EPA ID: N/R

WELLS - PA ***(cont.)***

Latitude :	39.75194
Longitude :	-75.83556
Last Date in Agency List :	03/20/2018

Map Id: 101
Direction: WSW
Distance: 0.719 mi.
Actual: 3795.127 ft.
Elevation: 0.074 mi. / 388.99 ft.
Relative: Higher

Site Name : 103497
39.72389, -75.88056
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364222172
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103497
Owner :	GRAYBERL
Yield GPM :	5
Casing Top :	0 / 52 / 6
Licensee :	KENNETH L MADRON WELL DRILLING CO
Local Well Number :	4654N
Date Drilled :	04/01/1983
Well Depth :	288
Static Level :	40
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	45
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	ELK TWP.
Quad Boundary :	BAY VIEW
Latitude :	39.72389
Longitude :	-75.88056
Last Date in Agency List :	03/20/2018

Map Id: 102
Direction: NE
Distance: 0.723 mi.
Actual: 3815.444 ft.
Elevation: 0.071 mi. / 376.572 ft.
Relative: Higher

Site Name : 103608
39.75778, -75.84278
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364222318
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103608

Map Id: 102
Direction: NE
Distance: 0.723 mi.
Actual: 3815.444 ft.
Elevation: 0.071 mi. / 376.572 ft.
Relative: Higher

Site Name : 103608
39.75778, -75.84278
PA

Database(s) : [WELLS - PA] ***(cont.)***

Envirosite ID: 364222318
EPA ID: N/R

WELLS - PA ***(cont.)***

Owner :	TAITT WM R BLDR
Yield GPM :	20
Casing Top :	0 / 50 / 6
Licensee :	N/R
Local Well Number :	4700N
Date Drilled :	08/12/1981
Well Depth :	292
Static Level :	85
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	44
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE
Latitude :	39.75778
Longitude :	-75.84278
Last Date in Agency List :	03/20/2018

Map Id: 103
Direction: NE
Distance: 0.732 mi.
Actual: 3862.674 ft.
Elevation: 0.067 mi. / 351.289 ft.
Relative: Higher

Site Name : 394509075501801
39.75261048,-75.83799488
PA

Database(s) : [NWIS]

Envirosite ID: 395055678
EPA ID: N/R

NWIS

Site Identification Number :	394509075501801
Site Type :	Well
Site Name :	CH 6243
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	WEST GROVE
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	352
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

Map Id: 103
Direction: NE
Distance: 0.732 mi.
Actual: 3862.674 ft.
Elevation: 0.067 mi. / 351.289 ft.
Relative: Higher

Site Name : 394509075501801
39.75261048,-75.83799488
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 395055678
EPA ID: N/R

NWIS ***(cont.)***

Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/10/2000
Field Water-Level Data End Date :	06/10/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.75261048
Longitude :	-75.83799488

Map Id: 104
Direction: WSW
Distance: 0.732 mi.
Actual: 3863.865 ft.
Elevation: 0.072 mi. / 380.817 ft.
Relative: Higher

Site Name : 103515
39.72444, -75.88222
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364221888
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103515
Owner :	BOWLSBEY L
Yield GPM :	10
Casing Top :	0 / 56 / 6
Licensee :	N/R
Local Well Number :	4672N
Date Drilled :	04/01/1979
Well Depth :	154
Static Level :	24
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0

Map Id: 104
Direction: WSW
Distance: 0.732 mi.
Actual: 3863.865 ft.
Elevation: 0.072 mi. / 380.817 ft.
Relative: Higher

Site Name : 103515
39.72444, -75.88222
PA

Database(s) : [WELLS - PA] ***(cont.)***

Envirosite ID: 364221888
EPA ID: N/R

WELLS - PA ***(cont.)***

Depth to Bed :	48
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	ELK TWP.
Quad Boundary :	BAY VIEW
Latitude :	39.72444
Longitude :	-75.88222
Last Date in Agency List :	03/20/2018

Map Id: 105
Direction: E
Distance: 0.733 mi.
Actual: 3871.223 ft.
Elevation: 0.068 mi. / 359.042 ft.
Relative: Higher

Site Name : 394404075494001
39.73455525,-75.82743870
PA

Database(s) : [NWIS]

Envirosite ID: 394713893
EPA ID: N/R

NWIS

Site Identification Number :	394404075494001
Site Type :	Well
Site Name :	CH 6272
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	359
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	06/10/2000
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	444200241

Map Id: 105
Direction: E
Distance: 0.733 mi.
Actual: 3871.223 ft.
Elevation: 0.068 mi. / 359.042 ft.
Relative: Higher

Site Name : 394404075494001
39.73455525,-75.82743870
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 394713893
EPA ID: N/R

NWIS ***(cont.)***

Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/10/2000
Field Water-Level Data End Date :	06/10/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.73455525
Longitude :	-75.82743870

Map Id: H106
Direction: ENE
Distance: 0.742 mi.
Actual: 3918.033 ft.
Elevation: 0.069 mi. / 362.769 ft.
Relative: Higher

Site Name : 103760
39.74917, -75.83167
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364222259
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103760
Owner :	STRATTON HERBRT
Yield GPM :	5
Casing Top :	0 / 54 / 6
Licensee :	R WALTER SLAUCH & SONS
Local Well Number :	X 4006
Date Drilled :	N/R
Well Depth :	153
Static Level :	48
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	48
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST
Latitude :	39.74917
Longitude :	-75.83167
Last Date in Agency List :	03/20/2018

Map Id: H107
Direction: ENE
Distance: 0.742 mi.
Actual: 3918.033 ft.
Elevation: 0.069 mi. / 362.769 ft.
Relative: Higher

Site Name : 103761
39.74917, -75.83167
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364226097
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103761
Owner :	CENTURY BLDR
Yield GPM :	9
Casing Top :	0 / 70 / 6
Licensee :	R WALTER SLAUCH & SONS
Local Well Number :	X 4007
Date Drilled :	N/R
Well Depth :	120
Static Level :	26
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	60
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	NEWARK WEST
Latitude :	39.74917
Longitude :	-75.83167
Last Date in Agency List :	03/20/2018

Map Id: H108
Direction: ENE
Distance: 0.742 mi.
Actual: 3918.033 ft.
Elevation: 0.069 mi. / 362.769 ft.
Relative: Higher

Site Name : 103762
39.74917, -75.83167
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364335239
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103762
Owner :	CENTURY BLDR 23
Yield GPM :	10
Casing Top :	0 / 55 / 6
Licensee :	R WALTER SLAUCH & SONS
Local Well Number :	X 4008
Date Drilled :	N/R
Well Depth :	120
Static Level :	22
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	48
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.

Map Id: H108
Direction: ENE
Distance: 0.742 mi.
Actual: 3918.033 ft.
Elevation: 0.069 mi. / 362.769 ft.
Relative: Higher

Site Name : 103762
39.74917, -75.83167
PA

Database(s) : [WELLS - PA] ***(cont.)***

Envirosite ID: 364335239
EPA ID: N/R

WELLS - PA ***(cont.)***

Quad Boundary :	NEWARK WEST
Latitude :	39.74917
Longitude :	-75.83167
Last Date in Agency List :	03/20/2018

Map Id: 109
Direction: NE
Distance: 0.744 mi.
Actual: 3928.755 ft.
Elevation: 0.071 mi. / 377.438 ft.
Relative: Higher

Site Name : 103607
39.7575, -75.84139
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364221960
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103607
Owner :	CERISOLI + MORRISON
Yield GPM :	6
Casing Top :	0 / 60 / 6
Licensee :	N/R
Local Well Number :	4699N
Date Drilled :	01/06/1981
Well Depth :	208
Static Level :	46
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	54
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE
Latitude :	39.7575
Longitude :	-75.84139
Last Date in Agency List :	03/20/2018

Map Id: 110
Direction: NE
Distance: 0.750 mi.
Actual: 3957.773 ft.
Elevation: 0.078 mi. / 409.747 ft.
Relative: Higher

Site Name : 103658
39.75861, -75.84389
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364335236
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103658
Owner :	ROY A
Yield GPM :	15
Casing Top :	0 / 45 / 6
Licensee :	N/R
Local Well Number :	4750N
Date Drilled :	06/19/1978
Well Depth :	200
Static Level :	40
Well Finish :	N/R
Use of Site :	N/R
Use of Water :	N/R
Formation :	N/R
WQ Data :	0
Depth to Bed :	40
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE
Latitude :	39.75861
Longitude :	-75.84389
Last Date in Agency List :	03/20/2018

Map Id: 111
Direction: W
Distance: 0.757 mi.
Actual: 3997.717 ft.
Elevation: 0.075 mi. / 394.669 ft.
Relative: Higher

Site Name : 394413075532301
39.73705470,-75.88938580
PA

Database(s) : [NWIS]

Envirosite ID: 395613286
EPA ID: N/R

NWIS

Site Identification Number :	394413075532301
Site Type :	Well
Site Name :	CH 6376
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	BAY VIEW
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	403
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hilltop
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

Map Id: 111
Direction: N
Distance: 0.757 mi.
Actual: 3997.717 ft.
Elevation: 0.075 mi. / 394.669 ft.
Relative: Higher

Site Name : 394413075532301
39.73705470,-75.88938580
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 395613286
EPA ID: N/R

NWIS ***(cont.)***

Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	08/05/2000
Field Water-Level Data End Date :	08/05/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.73705470
Longitude :	-75.88938580

Map Id: 112
Direction: ENE
Distance: 0.765 mi.
Actual: 4038.596 ft.
Elevation: 0.067 mi. / 353.051 ft.
Relative: Higher

Site Name : 394447075495201
39.74649950,-75.83077230
PA

Database(s) : [NWIS]

Envirosite ID: 395459286
EPA ID: N/R

NWIS

Site Identification Number :	394447075495201
Site Type :	Well
Site Name :	CH 6300
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	362
Method Altitude Determined :	Interpolated from topographic map.

Map Id: 112
Direction: ENE
Distance: 0.765 mi.
Actual: 4038.596 ft.
Elevation: 0.067 mi. / 353.051 ft.
Relative: Higher

Site Name : 394447075495201
39.74649950,-75.83077230
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 395459286
EPA ID: N/R

NWIS ***(cont.)***

Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	06/12/2000
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	460
Hole Depth :	N/R
Source of Depth Data :	O
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/12/2000
Field Water-Level Data End Date :	06/12/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.74649950
Longitude :	-75.83077230

Map Id: 113
Direction: NE
Distance: 0.778 mi.
Actual: 4110.428 ft.
Elevation: 0.068 mi. / 360.381 ft.
Relative: Higher

Site Name : 103606
39.7575, -75.84028
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364225206
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103606
Owner :	HANNON C
Yield GPM :	4
Casing Top :	0 / 45 / 6
Licensee :	N/R
Local Well Number :	4698N
Date Drilled :	10/15/1981

Map Id: 113
Direction: NE
Distance: 0.778 mi.
Actual: 4110.428 ft.
Elevation: 0.068 mi. / 360.381 ft.
Relative: Higher

Site Name : 103606
39.7575, -75.84028
PA

Database(s) : [WELLS - PA] ***(cont.)***

Envirosite ID: 364225206
EPA ID: N/R

WELLS - PA ***(cont.)***

Well Depth :	208
Static Level :	57
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	38
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE
Latitude :	39.7575
Longitude :	-75.84028
Last Date in Agency List :	03/20/2018

Map Id: 114
Direction: ENE
Distance: 0.793 mi.
Actual: 4188.655 ft.
Elevation: 0.057 mi. / 299.17 ft.
Relative: Higher

Site Name : 103650
39.7525, -75.83417
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364225273
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103650
Owner :	KIMBELOT CORP
Yield GPM :	10
Casing Top :	0 / 50 / 6
Licensee :	N/R
Local Well Number :	4742N
Date Drilled :	10/05/1977
Well Depth :	220
Static Level :	35
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	45
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE
Latitude :	39.7525
Longitude :	-75.83417
Last Date in Agency List :	03/20/2018

Map Id: 115
Direction: NE
Distance: 0.798 mi.
Actual: 4211.093 ft.
Elevation: 0.076 mi. / 401.585 ft.
Relative: Higher

Site Name : 103657
39.75889, -75.8425
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364222328
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103657
Owner :	ROY A
Yield GPM :	7
Casing Top :	0 / 42 / 6
Licensee :	N/R
Local Well Number :	4749N
Date Drilled :	06/20/1978
Well Depth :	200
Static Level :	50
Well Finish :	N/R
Use of Site :	N/R
Use of Water :	N/R
Formation :	N/R
WQ Data :	0
Depth to Bed :	37
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE
Latitude :	39.75889
Longitude :	-75.8425
Last Date in Agency List :	03/20/2018

Map Id: 116
Direction: ENE
Distance: 0.798 mi.
Actual: 4215.449 ft.
Elevation: 0.068 mi. / 358.537 ft.
Relative: Higher

Site Name : 394454075495501
39.74844395,-75.83160560
PA

Database(s) : [NWIS]

Envirosite ID: 395177732
EPA ID: N/R

NWIS

Site Identification Number :	394454075495501
Site Type :	Well
Site Name :	CH 6310
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	348
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

Map Id: 116
Direction: NE
Distance: 0.798 mi.
Actual: 4215.449 ft.
Elevation: 0.068 mi. / 358.537 ft.
Relative: Higher

Site Name : 394454075495501
39.74844395,-75.83160560
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 395177732
EPA ID: N/R

NWIS ***(cont.)***

Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	06/10/2000
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	125
Hole Depth :	N/R
Source of Depth Data :	O
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/10/2000
Field Water-Level Data End Date :	06/10/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.74844395
Longitude :	-75.83160560

Map Id: 117
Direction: NE
Distance: 0.816 mi.
Actual: 4307.060 ft.
Elevation: 0.064 mi. / 336.112 ft.
Relative: Higher

Site Name : 103605
39.7575, -75.83917
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364225113
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103605
Owner :	HANNON C
Yield GPM :	6
Casing Top :	0 / 52 / 6
Licensee :	N/R
Local Well Number :	4697N
Date Drilled :	02/10/1982
Well Depth :	208
Static Level :	47
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R

Map Id: 117
Direction: NE
Distance: 0.816 mi.
Actual: 4307.060 ft.
Elevation: 0.064 mi. / 336.112 ft.
Relative: Higher

Site Name : 103605
39.7575, -75.83917
PA

Database(s) : [WELLS - PA] ***(cont.)***

Envirosite ID: 364225113
EPA ID: N/R

WELLS - PA ***(cont.)***

WQ Data :	0
Depth to Bed :	40
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE
Latitude :	39.7575
Longitude :	-75.83917
Last Date in Agency List :	03/20/2018

Map Id: 118
Direction: W
Distance: 0.826 mi.
Actual: 4359.306 ft.
Elevation: 0.074 mi. / 391.427 ft.
Relative: Higher

Site Name : 103571
39.74222, -75.88944
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364225329
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103571
Owner :	MCKINNEY HOWARD
Yield GPM :	12
Casing Top :	0 / 43 / 6
Licensee :	BROWN BROS DRILLING INC
Local Well Number :	X 4129
Date Drilled :	N/R
Well Depth :	83
Static Level :	25
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	39
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	ELK TWP.
Quad Boundary :	BAY VIEW
Latitude :	39.74222
Longitude :	-75.88944
Last Date in Agency List :	03/20/2018

Map Id: 119
Direction: NE
Distance: 0.828 mi.
Actual: 4371.519 ft.
Elevation: 0.061 mi. / 322.126 ft.
Relative: Higher

Site Name : 103603
39.75694, -75.83806
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364222195
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103603
Owner :	TAITT BLDRS
Yield GPM :	12
Casing Top :	0 / 20 / 6
Licensee :	N/R
Local Well Number :	4695N
Date Drilled :	06/03/1982
Well Depth :	128
Static Level :	16
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	9
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE
Latitude :	39.75694
Longitude :	-75.83806
Last Date in Agency List :	03/20/2018

Map Id: 120
Direction: ENE
Distance: 0.832 mi.
Actual: 4392.645 ft.
Elevation: 0.062 mi. / 328.173 ft.
Relative: Higher

Site Name : 103649
39.75139, -75.83167
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364221912
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103649
Owner :	KIMBELOT CORP
Yield GPM :	40
Casing Top :	0 / 104 / 6
Licensee :	N/R
Local Well Number :	4741N
Date Drilled :	10/13/1977
Well Depth :	240
Static Level :	40
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	99
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.

Map Id: 120
Direction: ENE
Distance: 0.832 mi.
Actual: 4392.645 ft.
Elevation: 0.062 mi. / 328.173 ft.
Relative: Higher

Site Name : 103649
39.75139, -75.83167
PA

Database(s) : [WELLS - PA] ***(cont.)***

Envirosite ID: 364221912
EPA ID: N/R

WELLS - PA ***(cont.)***

Quad Boundary :	WEST GROVE
Latitude :	39.75139
Longitude :	-75.83167
Last Date in Agency List :	03/20/2018

Map Id: 121
Direction: NE
Distance: 0.853 mi.
Actual: 4503.747 ft.
Elevation: 0.076 mi. / 398.885 ft.
Relative: Higher

Site Name : 394526075503101
39.75733257,-75.84160630
PA

Database(s) : [NWIS]

Envirosite ID: 395467273
EPA ID: N/R

NWIS

Site Identification Number :	394526075503101
Site Type :	Well
Site Name :	CH 6256
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	WEST GROVE
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	405
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R

Map Id: 121
Direction: NE
Distance: 0.853 mi.
Actual: 4503.747 ft.
Elevation: 0.076 mi. / 398.885 ft.
Relative: Higher

Site Name : 394526075503101
39.75733257,-75.84160630
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 395467273
EPA ID: N/R

NWIS ***(cont.)***

Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/05/2000
Field Water-Level Data End Date :	06/05/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.75733257
Longitude :	-75.84160630

Map Id: 122
Direction: ENE
Distance: 0.866 mi.
Actual: 4572.236 ft.
Elevation: 0.061 mi. / 321.48 ft.
Relative: Higher

Site Name : 103647
39.75333, -75.83333
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364225015
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103647
Owner :	KIMBELOT CORP
Yield GPM :	7
Casing Top :	0 / 74 / 6
Licensee :	N/R
Local Well Number :	4739N
Date Drilled :	03/28/1978
Well Depth :	240
Static Level :	70
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	69
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE
Latitude :	39.75333
Longitude :	-75.83333
Last Date in Agency List :	03/20/2018

Map Id: 123
Direction: NNW
Distance: 0.878 mi.
Actual: 4634.315 ft.
Elevation: 0.07 mi. / 367.507 ft.
Relative: Higher

Site Name : 394433075532201
39.74261017,-75.88910800
PA

Database(s) : [NWIS]

Envirosite ID: 395958529
EPA ID: N/R

NWIS

Site Identification Number :	394433075532201
Site Type :	Well
Site Name :	CH 1783
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	BAY VIEW
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	370
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	20
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	N/R
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	06/02/1972
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YYYYNNNN
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	83
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	10/15/1974
Water-Quality Data End Date :	10/15/1974
Water-Quality Data Count :	1
Field Water-Level Data Begin Date :	06/02/1972
Field Water-Level Data End Date :	06/02/1972
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.74261017
Longitude :	-75.88910800

Map Id: 124
Direction: NE
Distance: 0.884 mi.
Actual: 4670.045 ft.
Elevation: 0.066 mi. / 348.711 ft.
Relative: Higher

Site Name : 103602
39.75722, -75.83694
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364225104
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103602
Owner :	TAITT BLDRS
Yield GPM :	12
Casing Top :	0 / 43 / 6
Licensee :	N/R
Local Well Number :	4694N
Date Drilled :	12/02/1982
Well Depth :	208
Static Level :	38
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	34
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE
Latitude :	39.75722
Longitude :	-75.83694
Last Date in Agency List :	03/20/2018

Map Id: 125
Direction: E
Distance: 0.891 mi.
Actual: 4705.150 ft.
Elevation: 0.065 mi. / 343.698 ft.
Relative: Higher

Site Name : 394403075492901
39.73427750,-75.82438300
PA

Database(s) : [NWIS]

Envirosite ID: 395000402
EPA ID: N/R

NWIS

Site Identification Number :	394403075492901
Site Type :	Well
Site Name :	CH 6271
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	342
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

Map Id: 125
Direction: E
Distance: 0.891 mi.
Actual: 4705.150 ft.
Elevation: 0.065 mi. / 343.698 ft.
Relative: Higher

Site Name : 394403075492901
39.73427750,-75.82438300
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 395000402
EPA ID: N/R

NWIS ***(cont.)***

Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	06/07/2000
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/07/2000
Field Water-Level Data End Date :	06/07/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.73427750
Longitude :	-75.82438300

Map Id: 126
Direction: ENE
Distance: 0.892 mi.
Actual: 4710.891 ft.
Elevation: 0.066 mi. / 347.877 ft.
Relative: Higher

Site Name : 394503075495701
39.75094390,-75.83216130
PA

Database(s) : [NWIS]

Envirosite ID: 395466628
EPA ID: N/R

NWIS

Site Identification Number :	394503075495701
Site Type :	Well
Site Name :	CH 6242
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	WEST GROVE
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	347
Method Altitude Determined :	Interpolated from topographic map.

Map Id: 126
Direction: ENE
Distance: 0.892 mi.
Actual: 4710.891 ft.
Elevation: 0.066 mi. / 347.877 ft.
Relative: Higher

Site Name : 394503075495701
39.75094390,-75.83216130
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 395466628
EPA ID: N/R

NWIS ***(cont.)***

Altitude Accuracy :	5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1980
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/10/2000
Field Water-Level Data End Date :	06/10/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.75094390
Longitude :	-75.83216130

Map Id: I127
Direction: ENE
Distance: 0.905 mi.
Actual: 4779.699 ft.
Elevation: 0.074 mi. / 391.883 ft.
Relative: Higher

Site Name : 394451075494401
39.74761065,-75.82854990
PA

Database(s) : [NWIS]

Envirosite ID: 395613660
EPA ID: N/R

NWIS

Site Identification Number :	394451075494401
Site Type :	Well
Site Name :	CH 6299
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County

Map Id: I127
Direction: ENE
Distance: 0.905 mi.
Actual: 4779.699 ft.
Elevation: 0.074 mi. / 391.883 ft.
Relative: Higher

Site Name : 394451075494401
39.74761065,-75.82854990
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 395613660
EPA ID: N/R

NWIS ***(cont.)***

Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	395
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	06/10/2000
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/10/2000
Field Water-Level Data End Date :	06/10/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.74761065
Longitude :	-75.82854990

Map Id: I128
Direction: ENE
Distance: 0.908 mi.
Actual: 4796.452 ft.
Elevation: 0.073 mi. / 385.01 ft.
Relative: Higher

Site Name : 103668
39.75028, -75.82889
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364222246
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103668

Map Id: I128
Direction: NE
Distance: 0.908 mi.
Actual: 4796.452 ft.
Elevation: 0.073 mi. / 385.01 ft.
Relative: Higher

Site Name : 103668
39.75028, -75.82889
PA

Database(s) : [WELLS - PA] ***(cont.)***

Envirosite ID: 364222246
EPA ID: N/R

WELLS - PA ***(cont.)***

Owner :	WOODARD N
Yield GPM :	7
Casing Top :	0 / 43 / 6
Licensee :	KENNETH L MADRON WELL DRILLING CO
Local Well Number :	4760N
Date Drilled :	05/01/1979
Well Depth :	208
Static Level :	0
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	38
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE
Latitude :	39.75028
Longitude :	-75.82889
Last Date in Agency List :	03/20/2018

Map Id: J129
Direction: NE
Distance: 0.909 mi.
Actual: 4798.622 ft.
Elevation: 0.06 mi. / 317.293 ft.
Relative: Higher

Site Name : 103646
39.75556, -75.83472
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364222224
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103646
Owner :	KIMBELOT CORP
Yield GPM :	8
Casing Top :	0 / 75 / 6
Licensee :	N/R
Local Well Number :	4738N
Date Drilled :	10/12/1977
Well Depth :	320
Static Level :	90
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	70
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE

Map Id: J129
Direction: NE
Distance: 0.909 mi.
Actual: 4798.622 ft.
Elevation: 0.06 mi. / 317.293 ft.
Relative: Higher

Site Name : 103646
39.75556, -75.83472
PA

Database(s) : [WELLS - PA] ***(cont.)***

Envirosite ID: 364222224
EPA ID: N/R

WELLS - PA ***(cont.)***

Latitude :	39.75556
Longitude :	-75.83472
Last Date in Agency List :	03/20/2018

Map Id: 130
Direction: NE
Distance: 0.913 mi.
Actual: 4820.864 ft.
Elevation: 0.078 mi. / 412.651 ft.
Relative: Higher

Site Name : 394530075503001
39.75833330,-75.84166670
PA

Database(s) : [NWIS]

Envirosite ID: 395460724
EPA ID: N/R

NWIS

Site Identification Number :	394530075503001
Site Type :	Well
Site Name :	CH 5433
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	WEST GROVE
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	411
Method Altitude Determined :	Differentially corrected Global Positioning System.
Altitude Accuracy :	10
Altitude Datum :	North American Vertical Datum of 1988
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hilltop
Data Types :	NANONNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	01/01/1998
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	NNNYNNNN
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation
Local Aquifer Type :	Unconfined single aquifer
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	444227500
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	07/14/1998
Water-Quality Data End Date :	07/14/1998

Map Id: 130
Direction: NE
Distance: 0.913 mi.
Actual: 4820.864 ft.
Elevation: 0.078 mi. / 412.651 ft.
Relative: Higher

Site Name : 394530075503001
39.75833330,-75.84166670
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 395460724
EPA ID: N/R

NWIS ***(cont.)***

Water-Quality Data Count :	1
Field Water-Level Data Begin Date :	N/R
Field Water-Level Data End Date :	N/R
Field Water-Level Data Count :	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.75833330
Longitude :	-75.84166670

Map Id: 131
Direction: W
Distance: 0.916 mi.
Actual: 4839.019 ft.
Elevation: 0.074 mi. / 389.8 ft.
Relative: Higher

Site Name : 103577
39.74083, -75.89194
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364222280
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103577
Owner :	MALONEY JOHN
Yield GPM :	2
Casing Top :	0 / 20 / 6
Licensee :	R WALTER SLAUCH & SONS
Local Well Number :	X 4135
Date Drilled :	N/R
Well Depth :	253
Static Level :	24
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	STOCK
Formation :	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION
WQ Data :	0
Depth to Bed :	13
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	ELK TWP.
Quad Boundary :	BAY VIEW
Latitude :	39.74083
Longitude :	-75.89194
Last Date in Agency List :	03/20/2018

Map Id: 132
Direction: NNW
Distance: 0.919 mi.
Actual: 4853.684 ft.
Elevation: 0.049 mi. / 258.996 ft.
Relative: Higher

Site Name : 394527075515601
39.75761010,-75.86521839
PA

Database(s) : [NWIS]

Envirosite ID: 395100672
EPA ID: N/R

NWIS

Site Identification Number :	394527075515601
Site Type :	Well
Site Name :	CH 5450
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	WEST GROVE
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	265
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Brandywine-Christina
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	08/17/1999
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YYYYNYNN
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Pegmatite
Local Aquifer Type :	N/R
Well Depth :	302
Hole Depth :	N/R
Source of Depth Data :	O
Project Number :	444200342
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	09/11/2000
Water-Quality Data End Date :	09/13/2000
Water-Quality Data Count :	2
Field Water-Level Data Begin Date :	09/11/2000
Field Water-Level Data End Date :	09/11/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.75761010
Longitude :	-75.86521839

Map Id: 133
Direction: NNW
Distance: 0.922 mi.
Actual: 4869.400 ft.
Elevation: 0.079 mi. / 415.709 ft.
Relative: Higher

Site Name : 394512075530201
39.75333330,-75.88388889
PA

Database(s) : [NWIS]

Envirosite ID: 395481190
EPA ID: N/R

NWIS

Site Identification Number :	394512075530201
Site Type :	Well
Site Name :	CH 6145
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	OXFORD
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	420
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hilltop
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	05/27/2000
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	330
Hole Depth :	N/R
Source of Depth Data :	D
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	05/27/2000
Field Water-Level Data End Date :	05/27/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.75333330
Longitude :	-75.88388889

Map Id: 134
Direction: ENE
Distance: 0.924 mi.
Actual: 4877.183 ft.
Elevation: 0.073 mi. / 384.347 ft.
Relative: Higher

Site Name : 394445075493901
39.74594400,-75.82716099
PA

Database(s) : [NWIS]

Envirosite ID: 395001288
EPA ID: N/R

NWIS

Site Identification Number :	394445075493901
Site Type :	Well
Site Name :	CH 6298
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	389
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1972
Date Site Established or Inventoried:	06/07/2000
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	130
Hole Depth :	N/R
Source of Depth Data :	O
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/07/2000
Field Water-Level Data End Date :	06/07/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.74594400
Longitude :	-75.82716099

Map Id: 135
Direction: ENE
Distance: 0.933 mi.
Actual: 4928.656 ft.
Elevation: 0.068 mi. / 356.772 ft.
Relative: Higher

Site Name : 103645
39.75389, -75.83222
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364225209
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103645
Owner :	KIMBELOT CORP
Yield GPM :	40
Casing Top :	0 / 70 / 6
Licensee :	N/R
Local Well Number :	4737N
Date Drilled :	03/25/1978
Well Depth :	340
Static Level :	100
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	65
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE
Latitude :	39.75389
Longitude :	-75.83222
Last Date in Agency List :	03/20/2018

Map Id: 136
Direction: NE
Distance: 0.937 mi.
Actual: 4945.893 ft.
Elevation: 0.072 mi. / 378.967 ft.
Relative: Higher

Site Name : 103604
39.75889, -75.83778
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364221957
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103604
Owner :	HANNON C
Yield GPM :	6
Casing Top :	0 / 42 / 6
Licensee :	KENNETH L MADRON WELL DRILLING CO
Local Well Number :	4696N
Date Drilled :	02/01/1980
Well Depth :	126
Static Level :	0
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	37
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.

Map Id: 136
Direction: NE
Distance: 0.937 mi.
Actual: 4945.893 ft.
Elevation: 0.072 mi. / 378.967 ft.
Relative: Higher

Site Name : 103604
39.75889, -75.83778
PA

Database(s) : [WELLS - PA] ***(cont.)***

Envirosite ID: 364221957
EPA ID: N/R

WELLS - PA ***(cont.)***

Quad Boundary :	WEST GROVE
Latitude :	39.75889
Longitude :	-75.83778
Last Date in Agency List :	03/20/2018

Map Id: K137
Direction: ENE
Distance: 0.938 mi.
Actual: 4952.628 ft.
Elevation: 0.064 mi. / 336.663 ft.
Relative: Higher

Site Name : 103648
39.7525, -75.83028
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364222236
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103648
Owner :	KIMBELOT CORP
Yield GPM :	20
Casing Top :	0 / 63 / 6
Licensee :	N/R
Local Well Number :	4740N
Date Drilled :	02/01/1980
Well Depth :	300
Static Level :	60
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	58
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE
Latitude :	39.7525
Longitude :	-75.83028
Last Date in Agency List :	03/20/2018

Map Id: 138
Direction: NE
Distance: 0.946 mi.
Actual: 4993.457 ft.
Elevation: 0.075 mi. / 397.795 ft.
Relative: Higher

Site Name : 103600
39.76028, -75.84
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364222253
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103600
Owner :	BROWN J
Yield GPM :	6
Casing Top :	0 / 63 / 6
Licensee :	GURVIS B JONES
Local Well Number :	4692N
Date Drilled :	09/01/1982
Well Depth :	250
Static Level :	68
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	50
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE
Latitude :	39.76028
Longitude :	-75.84
Last Date in Agency List :	03/20/2018

Map Id: 139
Direction: E
Distance: 0.947 mi.
Actual: 5001.656 ft.
Elevation: 0.064 mi. / 338.74 ft.
Relative: Higher

Site Name : 394350075492501
39.73019444,-75.82302778
PA

Database(s) : [NWIS]

Envirosite ID: 395185812
EPA ID: N/R

NWIS

Site Identification Number :	394350075492501
Site Type :	Well
Site Name :	CH 6295
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	341
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

Map Id: 139
Direction: E
Distance: 0.947 mi.
Actual: 5001.656 ft.
Elevation: 0.064 mi. / 338.74 ft.
Relative: Higher

Site Name : 394350075492501
39.73019444,-75.82302778
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 395185812
EPA ID: N/R

NWIS ***(cont.)***

Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1978
Date Site Established or Inventoried:	06/27/2000
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YYYY Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	160
Hole Depth :	N/R
Source of Depth Data :	D
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/27/2000
Field Water-Level Data End Date :	06/14/2005
Field Water-Level Data Count :	2
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.73019444
Longitude :	-75.82302778

Map Id: 140
Direction: E
Distance: 0.951 mi.
Actual: 5021.679 ft.
Elevation: 0.066 mi. / 351.076 ft.
Relative: Higher

Site Name : 394401075492301
39.73361110,-75.82311110
PA

Database(s) : [NWIS]

Envirosite ID: 395214153
EPA ID: N/R

NWIS

Site Identification Number :	394401075492301
Site Type :	Well
Site Name :	CH 6484
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	NEWARK WEST
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	350
Method Altitude Determined :	Interpolated from topographic map.

Map Id: 140
Direction: E
Distance: 0.951 mi.
Actual: 5021.679 ft.
Elevation: 0.066 mi. / 351.076 ft.
Relative: Higher

Site Name : 394401075492301
39.73361110,-75.82311110
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 395214153
EPA ID: N/R

NWIS ***(cont.)***

Altitude Accuracy :	5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Brandywine-Christina
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	06/14/2005
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	247600261
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/14/2005
Field Water-Level Data End Date :	06/14/2005
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.73361110
Longitude :	-75.82311110

Map Id: J141
Direction: NE
Distance: 0.956 mi.
Actual: 5048.651 ft.
Elevation: 0.059 mi. / 310.791 ft.
Relative: Higher

Site Name : 103644
39.75583, -75.83389
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364221983
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103644
Owner :	KIMBELOT CORP
Yield GPM :	5
Casing Top :	0 / 55 / 6
Licensee :	N/R
Local Well Number :	4736N
Date Drilled :	07/15/1978

Map Id: J141
Direction: SE
Distance: 0.956 mi.
Actual: 5048.651 ft.
Elevation: 0.059 mi. / 310.791 ft.
Relative: Higher

Site Name : 103644
39.75583, -75.83389
PA

Database(s) : [WELLS - PA] ***(cont.)***

Envirosite ID: 364221983
EPA ID: N/R

WELLS - PA ***(cont.)***

Well Depth :	320
Static Level :	60
Well Finish :	N/R
Use of Site :	N/R
Use of Water :	N/R
Formation :	N/R
WQ Data :	0
Depth to Bed :	50
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE
Latitude :	39.75583
Longitude :	-75.83389
Last Date in Agency List :	03/20/2018

Map Id: 142
Direction: NNW
Distance: 0.964 mi.
Actual: 5088.811 ft.
Elevation: 0.058 mi. / 304.229 ft.
Relative: Higher

Site Name : 394531075520501
39.75872117,-75.86771850
PA

Database(s) : [NWIS]

Envirosite ID: 395460748
EPA ID: N/R

NWIS

Site Identification Number :	394531075520501
Site Type :	Well
Site Name :	CH 6250
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	WEST GROVE
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	297
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	06/03/2000
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y

Map Id: 142
Direction: NW
Distance: 0.964 mi.
Actual: 5088.811 ft.
Elevation: 0.058 mi. / 304.229 ft.
Relative: Higher

Site Name : 394531075520501
39.75872117,-75.86771850
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 395460748
EPA ID: N/R

NWIS ***(cont.)***

National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/03/2000
Field Water-Level Data End Date :	06/03/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.75872117
Longitude :	-75.86771850

Map Id: K143
Direction: ENE
Distance: 0.964 mi.
Actual: 5089.963 ft.
Elevation: 0.065 mi. / 342.254 ft.
Relative: Higher

Site Name : 394502075494901
39.75066615,-75.82993890
PA

Database(s) : [NWIS]

Envirosite ID: 395613786
EPA ID: N/R

NWIS

Site Identification Number :	394502075494901
Site Type :	Well
Site Name :	CH 6241
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	WEST GROVE
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	367
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

Map Id: K143
Direction: NE
Distance: 0.964 mi.
Actual: 5089.963 ft.
Elevation: 0.065 mi. / 342.254 ft.
Relative: Higher

Site Name : 394502075494901
39.75066615,-75.82993890
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 395613786
EPA ID: N/R

NWIS ***(cont.)***

Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/12/2000
Field Water-Level Data End Date :	06/12/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.75066615
Longitude :	-75.82993890

Map Id: 144
Direction: W
Distance: 0.979 mi.
Actual: 5167.631 ft.
Elevation: 0.069 mi. / 363.652 ft.
Relative: Higher

Site Name : 394354075533901
39.73177700,-75.89383040
PA

Database(s) : [NWIS]

Envirosite ID: 395451636
EPA ID: N/R

NWIS

Site Identification Number :	394354075533901
Site Type :	Well
Site Name :	CH 6377
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	BAY VIEW
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	362
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10

Map Id: 144
Direction: W
Distance: 0.979 mi.
Actual: 5167.631 ft.
Elevation: 0.069 mi. / 363.652 ft.
Relative: Higher

Site Name : 394354075533901
39.73177700,-75.89383040
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 395451636
EPA ID: N/R

NWIS ***(cont.)***

Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/13/2000
Field Water-Level Data End Date :	06/13/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.73177700
Longitude :	-75.89383040

Map Id: L145
Direction: WSW
Distance: 0.979 mi.
Actual: 5167.753 ft.
Elevation: 0.071 mi. / 377.018 ft.
Relative: Higher

Site Name : 103517
39.72833, -75.89167
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364222223
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103517
Owner :	DUPONT P
Yield GPM :	10
Casing Top :	0 / 115 / 6
Licensee :	N/R
Local Well Number :	4674N
Date Drilled :	06/27/1978
Well Depth :	355

Map Id: L145
Direction: WSW
Distance: 0.979 mi.
Actual: 5167.753 ft.
Elevation: 0.071 mi. / 377.018 ft.
Relative: Higher

Site Name : 103517
39.72833, -75.89167
PA

Database(s) : [WELLS - PA] ***(cont.)***

Envirosite ID: 364222223
EPA ID: N/R

WELLS - PA ***(cont.)***

Static Level :	40
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	0
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	ELK TWP.
Quad Boundary :	BAY VIEW
Latitude :	39.72833
Longitude :	-75.89167
Last Date in Agency List :	03/20/2018

Map Id: 146
Direction: ENE
Distance: 0.979 mi.
Actual: 5170.636 ft.
Elevation: 0.069 mi. / 364.518 ft.
Relative: Higher

Site Name : 103639
39.75361, -75.83056
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364221909
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103639
Owner :	BOYLE E
Yield GPM :	6
Casing Top :	0 / 60 / 6
Licensee :	N/R
Local Well Number :	4731N
Date Drilled :	10/09/1981
Well Depth :	260
Static Level :	80
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	55
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.
Quad Boundary :	WEST GROVE
Latitude :	39.75361
Longitude :	-75.83056
Last Date in Agency List :	03/20/2018

Map Id: 147
Direction: N
Distance: 0.983 mi.
Actual: 5191.492 ft.
Elevation: 0.079 mi. / 415.997 ft.
Relative: Higher

Site Name : 394426075533501
39.74041667,-75.89250000
PA

Database(s) : [NWIS]

Envirosite ID: 395958513
EPA ID: N/R

NWIS

Site Identification Number :	394426075533501
Site Type :	Well
Site Name :	CH 4931
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	BAY VIEW
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	410
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Flat surface
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	199211
Date Site Established or Inventoried:	12/15/1993
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YYYYNYNN
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation
Local Aquifer Type :	Unconfined single aquifer
Well Depth :	132
Hole Depth :	N/R
Source of Depth Data :	D
Project Number :	444220700
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	07/21/1994
Water-Quality Data End Date :	11/27/2000
Water-Quality Data Count :	2
Field Water-Level Data Begin Date :	12/15/1993
Field Water-Level Data End Date :	07/21/1994
Field Water-Level Data Count :	3
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.74041667
Longitude :	-75.89250000

Map Id: 148
Direction: NNW
Distance: 0.992 mi.
Actual: 5237.815 ft.
Elevation: 0.062 mi. / 325.154 ft.
Relative: Higher

Site Name : 394533075521201
39.75927670,-75.86966300
PA

Database(s) : [NWIS]

Envirosite ID: 395179231
EPA ID: N/R

NWIS

Site Identification Number :	394533075521201
Site Type :	Well
Site Name :	CH 6251
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	WEST GROVE
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	328
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Chester-Sassafras
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	06/03/2000
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/03/2000
Field Water-Level Data End Date :	06/03/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.75927670
Longitude :	-75.86966300

Map Id: 149
Direction: N
Distance: 0.994 mi.
Actual: 5247.878 ft.
Elevation: 0.062 mi. / 329.541 ft.
Relative: Higher

Site Name : 103491
39.73278, -75.89389
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364224905
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103491
Owner :	BUCHANAN MARSHALL
Yield GPM :	10
Casing Top :	0 / 78 / 6
Licensee :	N/R
Local Well Number :	4648N
Date Drilled :	09/25/1984
Well Depth :	135
Static Level :	30
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	72
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	ELK TWP.
Quad Boundary :	BAY VIEW
Latitude :	39.73278
Longitude :	-75.89389
Last Date in Agency List :	03/20/2018

Map Id: 150
Direction: NE
Distance: 0.995 mi.
Actual: 5254.846 ft.
Elevation: 0.079 mi. / 416.913 ft.
Relative: Higher

Site Name : 103599
39.76111, -75.84
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364222190
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103599
Owner :	MADRON L
Yield GPM :	15
Casing Top :	0 / 55 / 6
Licensee :	KENNETH L MADRON WELL DRILLING CO
Local Well Number :	4691N
Date Drilled :	08/01/1984
Well Depth :	148
Static Level :	30
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	48
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	FRANKLIN TWP.

Map Id: 150
Direction: NE
Distance: 0.995 mi.
Actual: 5254.846 ft.
Elevation: 0.079 mi. / 416.913 ft.
Relative: Higher

Site Name : 103599
39.76111, -75.84
PA

Database(s) : [WELLS - PA] ***(cont.)***

Envirosite ID: 364222190
EPA ID: N/R

WELLS - PA ***(cont.)***

Quad Boundary :	WEST GROVE
Latitude :	39.76111
Longitude :	-75.84
Last Date in Agency List :	03/20/2018

Map Id: 151
Direction: NE
Distance: 0.997 mi.
Actual: 5261.573 ft.
Elevation: 0.075 mi. / 398.399 ft.
Relative: Higher

Site Name : 394526075501401
39.75733260,-75.83688388
PA

Database(s) : [NWIS]

Envirosite ID: 394836647
EPA ID: N/R

NWIS

Site Identification Number :	394526075501401
Site Type :	Well
Site Name :	CH 6255
Agency :	U.S. Geological Survey
District :	Pennsylvania
State :	PA
County :	Chester County
Country :	USA
Land Net Location Code :	N/R
Name of Location Map :	WEST GROVE
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	391
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	10
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Brandywine-Christina
Drainage Basin :	N/R
Topographic Setting :	Hillside
Data Types :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Instruments :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YY Y Y
National Aquifer :	Piedmont and Blue Ridge crystalline-rock aquifers
Local Aquifer :	Wissahickon Formation, Oligoclase Mica Schist
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	444200241
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R

Map Id: 151
Direction: NE
Distance: 0.997 mi.
Actual: 5261.573 ft.
Elevation: 0.075 mi. / 398.399 ft.
Relative: Higher

Site Name : 394526075501401
39.75733260,-75.83688388
PA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 394836647
EPA ID: N/R

NWIS ***(cont.)***

Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	06/05/2000
Field Water-Level Data End Date :	06/05/2000
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	39.75733260
Longitude :	-75.83688388

Map Id: L152
Direction: WSW
Distance: 0.999 mi.
Actual: 5276.108 ft.
Elevation: 0.072 mi. / 379.186 ft.
Relative: Higher

Site Name : 103510
39.72861, -75.89222
PA

Database(s) : [WELLS - PA]

Envirosite ID: 364222217
EPA ID: N/R

WELLS - PA

PAGWIS ID :	103510
Owner :	PEAK J
Yield GPM :	3
Casing Top :	0 / 40 / 6
Licensee :	N/R
Local Well Number :	4667N
Date Drilled :	06/01/1980
Well Depth :	172
Static Level :	30
Well Finish :	OPEN HOLE
Use of Site :	WITHDRAWAL
Use of Water :	DOMESTIC
Formation :	N/R
WQ Data :	0
Depth to Bed :	34
Site Type :	WELL
Elevation :	0
County :	CHESTER
Municipality :	ELK TWP.
Quad Boundary :	BAY VIEW
Latitude :	39.72861
Longitude :	-75.89222
Last Date in Agency List :	03/20/2018

RADON DATA:

STATE SOURCE: No Available Data

FEDERAL AREA RADON INFORMATION FOR: CHESTER PA

NUMBER OF SAMPLE SITES: 33

Area:	Average Activity:	% <4 pCi/L:	% 4-20 pCi/L:	% >20 pCi/L:
basement	10.7643 pCi/L	57.14%	25%	17.86%
first floor	2.1 pCi/L	100%	0%	0%

INACTIVE PCS
Inactive Permit Compliance Facilities
Environmental Protection Agency
(202) 564-6582
Inactive Permitted facilities to discharge wastewater

NWIS
National Water Information Systems
United States Geological Society
(703) 648-5953
Information on all water resources for the United States. This database contains all current and historical data for the nation.

PCS ENF
Enforced Permit Compliance Facilities
Environmental Protection Agency
(202) 564-6582
Permitted facilities to discharge wastewater (Federal equivalent to NPDES)

PCS FACILITY
Permit Compliance Facilities
Environmental Protection Agency
(202) 564-6582
Permitted facilities to discharge wastewater (Federal equivalent to NPDES)

PWS
Public Water Supply
Environmental Protection Agency
(800) 426-4791
Safe drinking water information Systems

PWS ENF
Public Water Supply locations with Enforcement Violations
Environmental Protection Agency
(800) 426-4791
Safe drinking water information Systems with enforcememnt violations

STORMWATER
Storm Water Permits
Environmental Protection Agency
(202) 566-1667
Permitted storm water sites

NPDES - PA
National Pollutant Discharge Elimination System
Department of Environmental Protection
(717) 787-2043
Inventory of NPDES Permits

WELLS - PA
Water Well Locations
DEPARTMENT OF ENVIRONMENTAL PROTECTION
(717)772-2199
PAGWIS Well Water Well Inventory

FLOOD Q3
flood data
Environmental Protection Agency
(202) 566-1667
Q3 Flood Data

HYDROLOGIC UNIT
Hydrologic Unit Maps
USGS
The United States Geological Survey created a hierarchical system of hydrologic units originally called regions, sub-regions, accounting units, and cataloging units. Each unit was assigned a unique Hydrologic Unit Code (HUC). As first implemented the system had 21 regions, 221 subregions, 378 accounting units, and 2,264 cataloging units. Over time the system was changed and expanded. As of 2010 there are six levels in the hierarchy, represented by hydrologic unit codes from 2 to 12 digits long, called regions, subregions, basins, subbasins, watersheds, and subwatersheds. The table below describes the system's hydrologic unit levels and their characteristics, along with example names and codes.

WETLANDS NWI
National Wetland Inventory
U.S. Fish and Wildlife Service
(703) 358-2171
Wetland Inventory for the United States

USGS GEOLOGIC AGE
USGS Digital Data Series DDS
Natural Resources Conservation Service: U.S. Department of Agriculture
(202) 690-4985
USGS Digital Data Series DDS: Geologic Age and Rock Stratigraphic Unit

RADON
National Radon Database
USGS
703-605-6008
A study of the EPA/State Residential Radon Survey and the National Residential Radon Survey.

OIL & GAS WELLS - PA
Oil & Gas Wells
Department of Environmental Protection
(717)772-2199
Oil & Gas Wells Directory

AIRPORT FACILITIES
Airport landing facilities
Federal Aviation Administration
(866) 835-5322
Airport landing facilities

BASINS
Better Assessment Science Integrating point & Non-point Sources
U.S. Environmental Protection Agency
855-246-3642
Integrated geographical information system national watershed data and environmental assessment known as Better Assessment Science Integrating point & Non-point Sources

EPICENTERS
National Geographical Data Center
National Geographical Data Center
303-497-6826
Data on over four million earthquakes dating from 2100 B.C. to 1995 A.D.

FLOOD DFIRM
National Flood Hazard Layer Database
Federal Emergency Management Agency
The National Flood Hazard Layer Database (NFHL) is a computer database that contains the flood hazard map information from FEMAs Flood Map Modernization program. These map data are from Digital Flood Insurance Rate Map (DFIRM) databases and Letters of Map Revision.

APPENDIX C

ENVIRONMENTAL LIEN SEARCH REPORT

The NETR Environmental Lien and AUL Search Report

STRAWBRIDGE PROPERTY
MOUNT OLIVET ROAD AND WALKER ROAD
LANDENBERG, PENNSYLVANIA

Monday, June 4, 2018

Project Number: L18-00952

2055 East Rio Salado Parkway
Tempe, Arizona 85281

Telephone: 480-967-6752
Fax: 480-966-9422

ENVIRONMENTAL LIEN AND AUL REPORT

The NETR Environmental LienSearch 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 property 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' office, registries of deed, 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 NETR at 480-967-6752
with any questions or comments

ENVIRONMENTAL LIEN AND AUL REPORT

The NETR Environmental Lien Search Report is intended to assist in the search for environmental liens filed in land title records.

TARGET PROPERTY INFORMATION

ADDRESS

Strawbridge Property
Mount Olivet Road and Walker Road
Landenberg, Pennsylvania

RESEARCH SOURCE

Source: Chester County Assessor
Chester County Recorder of Deeds

DEED INFORMATION

Type of Instrument: Certificate of Award of Real Estate

Grantor: Girard Bank, George Strawbridge, Sr., Trustees

Grantee: Delaware Trust Co., George Strawbridge, Sr., and William C. Lickle, Trustees

Deed Dated: 08/07/1984
Deed Recorded: 08/23/1984
Book: B64
Page: 175

Type of Instrument: Deed

Grantor: George Strawbridge, Jr., individually and BNY Mellon, N.A.,, R. Stewart Strawbridge and George J. Baxter, Successor Trustees of the Trust under Deed of George Strawbridge Jr. dated 1/20/1971

Grantee: The Conservation Fund, a non-profit corporation

Deed Dated: 11/09/2017
Deed Recorded: 11/10/2017
Book: 9653
Page: 523

LEGAL DESCRIPTION

All that certain piece or parcel of land being 96.7 acres, more or less, situated and lying in the City of Landenberg, Chester County, State of Pennsylvania

Assessor's Parcel Number(s): 70-5-6

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐ Not Found ☒

ENVIRONMENTAL LIEN AND AUL REPORT

TARGET PROPERTY INFORMATION

ADDRESS

Strawbridge Property
Mount Olivet Road and Walker Road
Landenberg, Pennsylvania

RESEARCH SOURCE

Source: Chester County Assessor
Chester County Recorder of Deeds

DEED INFORMATION

Type of Instrument: Certificate of Award of Real Estate

Grantor: Girard Bank, George Strawbridge, Sr., Trustees

Grantee: Delaware Trust Co., George Strawbridge, Sr., and William C. Lickle, Trustees

Deed Dated: 08/07/1984
Deed Recorded: 08/23/1984
Book: B64
Page: 175

Type of Instrument: Deed

Grantor: George Strawbridge, Jr., individually and BNY Mellon, N.A.,, R. Stewart Strawbridge and George J. Baxter, Successor Trustees of the Trust under Deed of George Strawbridge Jr. dated 1/20/1971

Grantee: The Conservation Fund, a non-profit corporation

Deed Dated: 11/09/2017
Deed Recorded: 11/10/2017
Book: 9653
Page: 523

LEGAL DESCRIPTION

All that certain piece or parcel of land being 71.9 acres, more or less, situated and lying in the City of Landenberg, Chester County, State of Pennsylvania

Assessor's Parcel Number(s): 70-5-7

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐ Not Found ☒

ENVIRONMENTAL LIEN AND AUL REPORT

TARGET PROPERTY INFORMATION

ADDRESS

Strawbridge Property
Mount Olivet Road and Walker Road
Landenberg, Pennsylvania

RESEARCH SOURCE

Source: Chester County Assessor
Chester County Recorder of Deeds

DEED INFORMATION

Type of Instrument: Certificate of Award of Real Estate

Grantor: Girard Bank, George Strawbridge, Sr., Trustees

Grantee: Delaware Trust Co., George Strawbridge, Sr., and William C. Lickle, Trustees

Deed Dated: 08/07/1984
Deed Recorded: 08/23/1984
Book: B64
Page: 175

LEGAL DESCRIPTION

All that certain piece or parcel of land being 346.7 acres, more or less, situated and lying in the City of Landenberg, Chester County, State of Pennsylvania

Assessor's Parcel Number(s): 70-5-8

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐ Not Found ☒

ENVIRONMENTAL LIEN AND AUL REPORT

TARGET PROPERTY INFORMATION

ADDRESS

Strawbridge Property
Mount Olivet Road and Walker Road
Landenberg, Pennsylvania

RESEARCH SOURCE

Source: Chester County Assessor
Chester County Recorder of Deeds

DEED INFORMATION

Type of Instrument: Individual Deed

Grantor: Jane F. Trimble

Grantee: George Strawbridge, Jr

Deed Dated: 03/31/1997
Deed Recorded: 04/02/1997
Book: 4158
Page: 1495

Type of Instrument: Deed

Grantor: George Strawbridge, Jr., individually and BNY Mellon, N.A.,, R. Stewart Strawbridge and George J. Baxter, Successor Trustees of the Trust under Deed of George Strawbridge Jr. dated 1/20/1971

Grantee: The Conservation Fund, a non-profit corporation

Deed Dated: 11/09/2017
Deed Recorded: 11/10/2017
Book: 9653
Page: 523

LEGAL DESCRIPTION

All that certain piece or parcel of land being 19.3 acres, more or less, situated and lying in the City of Landenberg, Chester County, State of Pennsylvania

Assessor's Parcel Number(s): 71-4-32.3

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐ Not Found ☒

ENVIRONMENTAL LIEN AND AUL REPORT

TARGET PROPERTY INFORMATION

ADDRESS

Strawbridge Property
Mount Olivet Road and Walker Road
Landenberg, Pennsylvania

RESEARCH SOURCE

Source: Chester County Assessor
Chester County Recorder of Deeds

DEED INFORMATION

Type of Instrument: Individual Deed

Grantor: Jane F. Trimble

Grantee: George Strawbridge, Jr

Deed Dated: 03/31/1997
Deed Recorded: 04/02/1997
Book: 4158
Page: 1495

Type of Instrument: Deed

Grantor: George Strawbridge, Jr., individually and BNY Mellon, N.A.,, R. Stewart Strawbridge and George J. Baxter, Successor Trustees of the Trust under Deed of George Strawbridge Jr. dated 1/20/1971

Grantee: The Conservation Fund, a non-profit corporation

Deed Dated: 11/09/2017
Deed Recorded: 11/10/2017
Book: 9653
Page: 523

LEGAL DESCRIPTION

All that certain piece or parcel of land being 14.4 acres, more or less, situated and lying in the City of Landenberg, Chester County, State of Pennsylvania

Assessor's Parcel Number(s): 72-6-1

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐ Not Found ☒

ENVIRONMENTAL LIEN AND AUL REPORT

TARGET PROPERTY INFORMATION

ADDRESS

Strawbridge Property
Mount Olivet Road and Walker Road
Landenberg, Pennsylvania

RESEARCH SOURCE

Source: Chester County Assessor
Chester County Recorder of Deeds

DEED INFORMATION

Type of Instrument: Certificate of Award of Real Estate

Grantor: Girard Bank, George Strawbridge, Sr., Trustees

Grantee: Delaware Trust Co., George Strawbridge, Sr., and William C. Lickle, Trustees

Deed Dated: 08/07/1984
Deed Recorded: 08/23/1984
Book: B64
Page: 175

Type of Instrument: Deed

Grantor: George Strawbridge, Jr., individually and BNY Mellon, N.A.,, R. Stewart Strawbridge and George J. Baxter, Successor Trustees of the Trust under Deed of George Strawbridge Jr. dated 1/20/1971

Grantee: The Conservation Fund, a non-profit corporation

Deed Dated: 11/09/2017
Deed Recorded: 11/10/2017
Book: 9653
Page: 523

LEGAL DESCRIPTION

All that certain piece or parcel of land being 63.5 acres, more or less, situated and lying in the City of Landenberg, Chester County, State of Pennsylvania

Assessor's Parcel Number(s): 72-6-10

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐ Not Found ☒

ENVIRONMENTAL LIEN AND AUL REPORT

TARGET PROPERTY INFORMATION

ADDRESS

Strawbridge Property
Mount Olivet Road and Walker Road
Landenberg, Pennsylvania

RESEARCH SOURCE

Source: Chester County Assessor
Chester County Recorder of Deeds

DEED INFORMATION

Type of Instrument: Certificate of Award of Real Estate

Grantor: Girard Bank, George Strawbridge, Sr., Trustees

Grantee: Delaware Trust Co., George Strawbridge, Sr., and William C. Lickle, Trustees

Deed Dated: 08/07/1984
Deed Recorded: 08/23/1984
Book: B64
Page: 175

LEGAL DESCRIPTION

All that certain piece or parcel of land being 370.1 acres, more or less, situated and lying in the City of Landenberg, Chester County, State of Pennsylvania

Assessor's Parcel Number(s): 72-6-4

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐ Not Found ☒

AFFIDAVIT

14755

RECORDER OF DEEDS
CHESTER COUNTY, PA.
'84 AUG 23 P2:05

CERTIFICATE OF AWARD OF REAL ESTATE

TRUST INTER VIVOS: GEORGE STRAWBRIDGE, JR., SETTLOR

NO. 84664

Award of Real Estate to: Delaware Trust Company, George Strawbridge, and William C. Lickle, of 900 Market Street Mall, Wilmington, Delaware 19801, Trustees under Deed of George Strawbridge, Jr. dated January 20, 1971, thirty percent interest.

Commonwealth of Pennsylvania :
ss
County of Montgomery :

I, Nancy Mourley, 1st Asst Assistant Clerk of the Orphans' Court Division of the Court of Common Pleas for the County of Montgomery, in the Commonwealth of Pennsylvania, do hereby certify the attached to be a true and correct excerpt from the schedule of distribution filed in conformity with adjudication of the Orphans' Court Division of the Court of Common Pleas of Montgomery County upon the first account of Girard Bank, George Strawbridge and Charles H. Norris, Jr., Trustees under Deed of George Strawbridge, Jr., dated January 20, 1971, filed and conformed nisi February 17, 1983, as the same remains on file and is of record in said court.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seal of said Court at Norristown this 7th day of August, 1984.

Nancy Mourley

Assistant Clerk of the Orphans' Court Division

B 64 175

Form 533354

EXHIBIT "A"

To Delaware Trust Company and George Strawbridge and William C. Lickle, Trustees Under Deed of George Strawbridge, Jr. dated January 20, 1971 their Successors & assigns Premises .30 Int. Springlawn, Chester County, Pa. valued @ and more fully described as follows:

155 200 97

ALL THOSE TWO CERTAIN tracts of ground Situate partly in the Townships of London Britain, Franklin and Elk, County of Chester and State of Pennsylvania described according to a Plan of Property of Springlawn Corp. dated 8-24-1978 made by M[illegible] Engineering Assoc. Engineers and Surveyors, Oxford, Pa. as follows, to wit:

PREMISES "A"

BEGINNING at a spike set in the title line of Public Road LR 15020 known as Fairview Elkton Road said road leading in a Northerly direction to Pennsylvania Route 896 and a Southerly direction to Elkton, Md. said spike marking a Northeasterly corner of this about to be described tract and a corner of R. Vannoy; thence leaving said spike by the title line of said road South 01 degree 30 minutes 06 seconds West 463.95 feet to a spike marking a corner of this and a Northwesterly corner of S. Eschus; thence by said lands of Eschus South 87 degrees 27 minutes 56 seconds West 349.22 feet to an iron pin marking a corner of this and a corner of lands of Eschus; thence partly by lands of S. Eschus, J. Luckett, J. Evans, and R. Swan South 03 degrees 55 minutes 54 seconds East 1085.49 feet to an old iron pin marking a corner of this and a corner of lands of R. Swan; thence by said lands of Swan the following four courses and distances to wit: (1) South 20 degrees 39 minutes 45 seconds West 679.70 feet to an iron pin (2) South 04 degrees 36 minutes 49 seconds West 341.47 feet to an iron pin (3) South 00 degrees 35 minutes 04 seconds West 1295.24 feet to an iron pin (4) South 04 degrees 04 minutes 41 seconds East 147.79 feet to an iron pin marking a Southeasterly corner of this and set on the line dividing the State of Pennsylvania from the State of Maryland; thence by the State of Maryland due West crossing over Township line dividing Elk Township from Franklin Township 11371.55 feet to a post marking a Southwesterly corner of this and a Southeasterly corner of R. M. Thompson; thence by said lands of Thompson the following two courses and distances to wit: (1) North 05 degrees 02 minutes 01 second East 1509.75 feet to an iron pin (2) North 87 degrees 52 minutes 04 seconds West 354.76 feet to a spike set in the title line of Public Road LR 15016 known as Lewisville Strickersville Road said road leading in an Easterly direction to Strickersville and a westerly direction to Lewisville said spike marking a Southeasterly corner of lands of M. P. Dougherty; thence by said lands of Dougherty the following three courses and distances to wit:

1 - North 11 degrees 57 minutes 12 seconds East 1765.62' to a stone
2 - South 87 degrees 41 minutes 21 seconds West 1539.62' to a point
3 - South 87 degrees 36 minutes 49 seconds West 1350.72' to a spike marking a corner of this and set in the title line of Pennsylvania Route 841, leading in a northerly direction to Pennsylvania Route 896 and a southerly direction to Lewisville; thence leaving said spike and by the title line of said Pennsylvania Route 841 the following four courses and distances to wit:

1 - North 08 degrees 35 minutes 11 seconds West 498.86' to a spike
2 - North 13 degrees 38 minutes 41 seconds West 418.53' to a spike
3 - North 16 degrees 54 minutes 38 seconds West 251.55' to a spike
4 - North 06 degrees 48 minutes 19 seconds East 476.20' to a spike set for a northwesterly corner of this and a corner of lands of L. T. Steele, Jr.; thence by said lands of Steele and also along the southerly side of the water rights right of way conveyed to Springlawn Corporation the following 14 courses and distances to wit:

1 - North 81 degrees 34 minutes 21 seconds East 321.87' to an iron pin
2 - North 47 degrees 27 minutes 26 seconds East 150.43' to an iron pin
3 - North 43 degrees 51 minutes 26 seconds East 242.61' to an iron pin
4 - North 57 degrees 31 minutes 26 seconds East 132.98' to an iron pin
5 - North 40 degrees 11 minutes 26 seconds East 155.16' to an iron pin
6 - North 47 degrees 49 minutes 26 seconds East 187.97' to an iron pin
7 - North 50 degrees 15 minutes 26 seconds East 90.78' to an iron pin
8 - North 38 degrees 02 minutes 26 seconds East 125.30' to an iron pin
9 - North 39 degrees 24 minutes 26 seconds East 214.76' to an iron pin
10 - North 46 degrees 15 minutes 26 seconds East 139.98' to an iron pin
11 - North 44 degrees 09 minutes 26 seconds East 227.40' to an iron pin
12 - North 39 degrees 04 minutes 26 seconds East 360.43' to an iron pin
13 - North 42 degrees 03 minutes 26 seconds East 288.73' to an iron pin
14 - North 55 degrees 03 minutes 26 seconds East 209.01' to an iron pin; thence crossing township line dividing Elk Township, Franklin Township, and partly by lands of aforementioned L. T. Steele, Jr. and lands of J. R. Frederick North 46 degrees 25 minutes 26 seconds East 858.48' to an iron pin marking a corner of this and a corner of lands of J. R. Frederick;

B 64 176

thence by lands of Frederick North 60 degrees 21 minutes 26 seconds East 387.37' to an iron pin; thence still by Frederick and partly by the water rights right of way granted to Springlawn Corporation by Frederick North 51 degrees 47 minutes 26 seconds East 302.81' to a tree; thence still by lands of Frederick and the sOutherly side of said right of way North 84 degrees 32 minutes 26 seconds East 294.70' to an iron pin marking a corner of Francis Hill; thence by said lands of Hill the following four courses and distances to wit:

1 - North 48 degrees 29 minutes 26 seconds East 291.01' to an iron pin
2 - North 52 degrees 01 minute 26 seconds East 187.62' to an iron pin
3 - North 68 degrees 47 minutes 26 seconds East 231.82' to an iron pin
4 - North 85 degrees 35 minutes 35 seconds East 1584.08' to an old iron pin marking a corner of J. Rowe; thence partly by lands of Rowe and partly by lands of T. Davis North 81 degrees 06 minutes 58 seconds East 779.23' to a point marking a northwesterly corner of lands of R. Riale; thence by said lands of Riale the following two courses and distances to wit:

1 - South 05 degrees 17 minutes 30 seconds West 534.84' to a point
2 - South 01 degrees 09 minutes 30 seconds west 225.12' to a point; thence still partly by lands of Riale and partly by lands of C. Thomas South 09 degrees 10 minutes 30 seconds West 196.00' to a point marking a corner of lands of Thomas; thence by said lands of Thomas South 04 degrees 58 minutes 30 seconds West 455.15' to an old iron pin marking a corner of said lands of Thomas; thence still partly by lands of Thomas and partly by lands of Riale South 87 degrees 56 minutes 30 seconds East 626.16' to an iron pin; thence by lands of Riale South 87 degrees 22 minutes 30 seconds East 580.03' to an old iron pin; thence passing through the title line of Public Road T-303 known as Mt. Olivet Road said road leading in a northerly direction to Peacedale Road and an easterly direction to Pennsylvania Route 896 South 88 degrees 03 minutes 00 seconds East 1201.27' to an iron pin marking a corner of Mt. Olivet School; thence by said lands of Mt. Olivet School the following five courses and distances to wit:

1 - South 00 degrees 06 minutes 57 seconds West 80.89' to an iron pin
2 - North 88 degrees 55 minutes 57 seconds East 270.00' to an iron pin
3 - North 26 degrees 32 minutes 33 seconds West 76.20' to a stone
4 - North 36 degrees 21 minutes 33 seconds West 96.89' to a stump
5 - North 88 degrees 32 minutes 03 seconds West 112.37' to a point set in the title line of aforementioned Public Road T-303; thence by said title line the following three courses and distances to wit:

1 - North 47 degrees 24 minutes 27 seconds East 131.16' to a point
2 - North 79 degrees 45 minutes 27 seconds East 93.81' to a point
3 - South 82 degrees 22 minutes 33 seconds East 56.76' to an iron pin; thence leaving said title line and by lands of B. Johnson the following three courses and distances to wit:

1 - South 37 degrees 09 minutes 33 seconds East 439.64' to an iron pin
2 - South 08 degrees 52 minutes 27 seconds West 1043.47' to an iron pin
3 - South 41 degrees 14 minutes 37 seconds East 536.41' to an iron pin marking a corner of this and a corner of lands of said Johnson; thence partly by said lands of Johnson and partly by lands of A. Del Duco South 06 degrees 44 minutes 00 seconds East 2116.95' to a spike set in the title line of aforementioned Public Road LR-15016; thence by said title line the following four courses and distances to wit:

1 - South 78 degrees 28 minutes 13 seconds East 112.74' to a point
2 - South 77 degrees 59 minutes 13 seconds East 273.31' to a point
3 - South 89 degrees 54 minutes 13 seconds East 137.50' to a point
4 - North 80 degrees 30 minutes 32 seconds East 59.47' to a spike marking a corner of this and a corner of lands of T. R. Crossan; thence by said lands of Crossan South 41 degrees 03 minutes 14 seconds East 614.04' to an iron pin; thence partly by lands of Crossan and partly by lands of aforementioned Vannoy North 72 degrees 34 minutes 16 seconds East 4070.69' to a spike being the first mentioned point and place of beginning.

CONTAINING 1,684.938 Acres be the same more or less.

TOGETHER with the water rights right of way as granted to Springlawn Corporation by L. T. Staats, Jr. situate in Elk Township and New London Township, Chester County, Pennsylvania described as follows.

BEGINNING at a spike set for a northwesterly corner of lands of Springlawn Corporation said spike being set in the title line of Pennsylvania Route 841 said road leading in a southerly direction to Lewisville and a northerly direction to Pennsylvania Route 896; thence leaving said point of beginning and by the title line of Pennsylvania Route 841 North 07 degrees 43 minutes 22 seconds East 256.93' to a point; thence leaving said title line and passing through lands of L. T. Staats, Jr. the following three courses and distances to wit:

1 - North 47 degrees 08 minutes 47 seconds East 1175.88' to a point
2 - North 43 degrees 03 minutes 56 seconds East 740.01' to a point
3 - North 48 degrees 24 minutes 25 seconds East 580.00' to a point set in line of lands of J. R. Frederick also set on Township Line dividing Franklin Township from New London Township; thence by lands of Frederick South 78 degrees 13 minutes 54 seconds East 295.95' to a point set in line of lands of Springlawn Corporation. Thence by said lands the following 15 courses and distances to wit:

B 64 177

1 - South 46 degrees 25 minutes 26 seconds West 67.79' to a point
2 - South 55 degrees 03 minutes 26 seconds West 209.01' to an iron pin
3 - South 42 degrees 03 minutes 26 seconds West 268.73' to an iron pin
4 - South 39 degrees 04 minutes 26 seconds West 360.43' to an iron pin
5 - South 44 degrees 09 minutes 26 seconds West 227.40' to an iron pin
6 - South 46 degrees 15 minutes 26 seconds West 189.98' to an iron pin
7 - South 39 degrees 24 minutes 26 seconds West 214.76' to an iron pin
8 - South 38 degrees 02 minutes 26 seconds West 125.30' to an iron pin
9 - South 50 degrees 15 minutes 26 seconds West 90.78' to an iron pin
10 - South 47 degrees 49 minutes 26 seconds West 187.97' to an iron pin
11 - South 40 degrees 11 minutes 26 seconds West 155.16' to an iron pin
12 - South 57 degrees 31 minutes 26 seconds West 102.98' to an iron pin
13 - South 43 degrees 51 minutes 26 seconds West 242.61' to an iron pin
14 - South 47 degrees 27 minutes 26 seconds West 150.43' to an iron pin
15 - South 81 degrees 34 minutes 21 seconds West 321.87' to point and place of beginning.

CONTAINING 18.451 acres be the same more or less.

ALSO TOGETHER with the use of water rights right of way as granted to Springlawn Corporation by J. R. Frederick situate in Franklin Township described as follows.

BEGINNING at a point set in line of lands of Springlawn Corporation said point being set South 84 degrees 32 minutes 26 seconds West from an iron pin marking a corner of J. R. Frederick, Francis Hill, and Springlawn Corporation 49.42'; thence leaving said point of beginning and by lands of Springlawn Corporation the following two courses and distances to wit:

1 - South 84 degrees 32 minutes 26 seconds West 245.58' to a tree
2 - South 51 degrees 47 minutes 26 seconds West 135.09' to a point thence leaving said lands of Springlawn Corporation and passing through lands of J. R. Frederick the following five courses and distances to wit:

1 - North 44 degrees 25 minutes 26 seconds West 311.47' to a point
2 - North 73 degrees 27 minutes 56 seconds West 265.84' to a point
3 - North 17 degrees 21 minutes 26 seconds West 343.95' to a point
4 - North 13 degrees 13 minutes 34 seconds East 248.22' to a point
5 - North 20 degrees 01 minutes 26 seconds West 506.78' to a point set in the title line Pennsylvania Route 841 said road leading in an easterly direction to Pennsylvania Route 896 and a Westerly direction to Lewisville thence by the title line of said road north 76 degrees 00 minutes 34 seconds East 45.00' to a point set for a northeasterly corner of this; thence leaving said title line passing through lands of J. R. Frederick the following five courses and distances to wit:

1 - South 19 degrees 02 minutes 26 seconds East 583.01' to a point
2 - South 50 degrees 53 minutes 56 seconds East 383.69' to a point
3 - South 63 degrees 09 minutes 26 seconds East 346.11' to a point
4 - South 45 degrees 30 minutes 26 seconds East 174.22' to a point
5 - South 23 degrees 51 minutes 26 seconds East 193.10' to the point and place of beginning,

CONTAINING 8.260 acres be the same more or less.

EXCEPTING AND RESERVING thereout and therefrom 4.283 acres as granted and conveyed onto R. Nashuba in Deed Book U-30 page 471, S. Greene in Deed Book L-35 page 593, and K. Wells in Deed Book R-52 page 597, situate in Franklin Township, Chester County, Pennsylvania, bounded and described as follows to wit:

BEGINNING at a post set in the intersection of Public Road LR 15016 known as Strickersville Lewisville Road with Public Road T-356 known as Mt. Olivet Road said road leading in a northerly direction to Walker Road, said point being set the following eight courses and distances to wit from a spike set for a southwesterly corner of A. Del Duca and a corner of Springlawn Corporation said point being set in the title line of LR 15016.

1 - North 78 degrees 28 minutes 13 seconds West 520.54' to a point
2 - North 82 degrees 59 minutes 43 seconds West 470.28' to a point
3 - North 84 degrees 03 minutes 22 seconds West 119.76' to an old spike
4 - South 89 degrees 12 minutes 22 seconds West 118.24' to an old spike
5 - South 74 degrees 56 minutes 22 seconds West 83.82' to a point
6 - South 40 degrees 54 minutes 21 seconds West 9.31' to a point

7 - South 81 degrees 00 minutes 26 seconds West 38.37' to a point
8 - South 56 degrees 49 minutes 44 seconds West 22.86' to said post of beginning; thence leaving said post of beginning and by the title line of aforementioned Public Road LR 15016 the following five courses and distances to wit:

B 64 178

1 - South 44 degrees 57 minutes 36 seconds East 41.00' to a point
2 - South 49 degrees 48 minutes 58 seconds West 149.50' to a point
3 - South 43 degrees 10 minutes 10 seconds West 300.23' to a point
4 - South 75 degrees 48 minutes 56 seconds West 270.00' to a spike
5 - South 67 degrees 36 minutes 37 seconds West 244.60' to a point set in the centerline of a metal bridge; thence leaving said title line and by lands of Springlawn Corporation the following 11 courses and distances to wit:

1 - North 53 degrees 36 minutes 07 seconds East 44.00' to a point
2 - North 37 degrees 31 minutes 07 seconds East 43.00' to a point
3 - North 00 degrees 41 minutes 03 seconds East 30.00' to a point
4 - North 18 degrees 51 minutes 07 seconds East 15.00' to a point
5 - North 33 degrees 21 minutes 07 seconds East 25.00' to a point
6 - North 19 degrees 46 minutes 07 seconds East 52.00' to a point
7 - North 03 degrees 18 minutes 13 seconds West 48.70' to a point
8 - North 22 degrees 54 minutes 53 seconds West 131.82' to a point
9 - North 44 degrees 32 minutes 28 seconds East 90.80' to a post
10 - North 80 degrees 47 minutes 08 seconds East 88.07' to a point
11 - North 81 degrees 12 minutes 24 seconds East 588.35' to a post being the first mentioned point and place of beginning.

CONTAINING 4.283 acres be the same more or less.

ALSO EXCEPTING AND RESERVING thereout and therefrom 4.324 acres granted and conveyed to P. Rowland in Deed Book R-36 page 293, W. Worth in Deed Book W-23 page 234 and A. Jezyk in Deed Book Y-37 page 298 situate in Franklin Township, Chester County, Pennsylvania.

BEGINNING at a point set for a corner of this and set in the title line of Public Road LR-15016 known as Strickerville Lewisville Road said road leading in an easterly direction to Public Road LR-15020 and a westerly direction to Lewisville, said point of beginning being set the following two courses and distances from a spike set for a southwesterly corner of A. Del Duca to wit:

1 - North 78 degrees 28 minutes 13 seconds west 520.54' to a point
2 - North 82 degrees 59 minutes 43 seconds West 470.28' to said point of beginning; thence leaving said point of beginning and by lands of Springlawn Corporation the following four courses and distances to wit:

1 - South 7 degrees 31 minutes 13 seconds West 188.93' to an iron pin
2 - North 82 degrees 56 minutes 28 seconds West 221.17' to an iron pin
3 - North 52 degrees 17 minutes 38 seconds West 97.26' to an iron pin
4 - North 02 degrees 13 minutes 38 seconds West 82.65' to a point set in the title line of aforementioned Public Road LR-15016; thence by said title line South 81 degrees 00 minutes 26 seconds West 38.37' to a point set in the title line of Public Road T-356 known as Mt. Olivet Road, said road leading in a northerly direction to Public Road T-303; thence by the title line of Public Road T-356 North 03 degrees 21 minutes 04 seconds West 426.15' to a point set for a northwesterly corner of this and a corner of Springlawn Corporation thence by said lands of Springlawn Corporation the following two courses and distances to wit:

1 - South 75 degrees 33 minutes 04 seconds East 437.50' to an old iron pin
2 - South 07 degrees 06 minutes 56 seconds West 294.48' to the point and place of beginning.

CONTAINING 4.324 acres be the same more or less.

ALSO EXCEPTING AND RESERVING thereout and therefrom 5.005 acres granted and conveyed onto W. Worth in Deed Book X-29 page 565, and W. Worth in Deed Book W-35 page 576 situate in Elk Township, Chester County, Pennsylvania.

BEGINNING at a spike set for a northwesterly corner of this and a corner of Springlawn Corporation, said point being set in the title line of Public Road LR 15016 known as Lewisville Strickerville Road, said point being set north 73 degrees 49 minutes 15 seconds East from an iron pin marking the northeasterly corner of lands of R. M. Thompson 1213.79' to said point of beginning; thence leaving said point of beginning and by the title line the aforementioned Public Road LR 15016 the following two courses and distances to wit:

1 - North 77 degrees 38 minutes 22 seconds East 381.00' to a spike
2 - North 76 degrees 08 minutes 02 seconds East 271.17' to a spike marking a northeasterly corner of this and a corner of Springlawn Corporation; thence by said lands of Springlawn Corporation the following three courses and distances to wit:

1 - South 12 degrees 21 minutes 38 seconds East 314.52' to a point
2 - South 73 degrees 08 minutes 27 seconds West 654.09' to a post
3 - North 12 degrees 21 minutes 38 seconds West 358.50' to the point and place of beginning.

CONTAINING 5.005 acres be the same more or less.

B 64 179

PREMISES "B"

BEGINNING at a spike set in the title line of Public Road T-301 known as Elbow Lane leading in an westerly direction to Public Road LR-15020 and a easterly direction to Pennsylvania Route 896 said spikes marking a westerly corner of this about to be described tract; thence leaving spike of beginning and by the title line of Public Road T-301 the following eight courses and distances to wit:

1 - North 76 degrees 09 minutes 24 seconds East 876.50' to a spike
2 - North 75 degrees 56 minutes 00 seconds East 750.81' to a spike
3 - North 76 degrees 45 minutes 00 seconds East passing over the township line dividing London Britain and Franklin Township 360.17' to a spike.
4 - South 85 degrees 05 minutes 09 seconds East 300.21' to a spike
5 - South 54 degrees 58 minutes 30 seconds East 147.03' to a spike
6 - South 48 degrees 25 minutes 00 seconds East 496.85' to a spike
7 - South 86 degrees 36 minutes 30 seconds East 318.43' to a spike
8 - South 89 degrees 56 minutes 30 seconds East 814.80' to a spike marking an easterly corner of this; thence leaving said title line due south 15.61' to a milestone set on the line dividing the State of Pennsylvania from the State of Maryland; thence by said state line due west crossing over the township line dividing London Britain Township from Franklin Township 3453.74' to a spike being the first mentioned point and place of beginning.

CONTAINING 16.906 acres be the same more or less.

AS TO PREMISES "A"
BEING as to part the same premises which John P. F. Blackstone, Singleman by Deed dated April 17, 1948 and recorded in Chester County in Deed Book Q-24 page 101 conveyed unto Springlawn Corporation, (Pa. Corp.).

BEING as to another part the same premises which Richard T. Swan and Anne M. Swan, by Deed dated July 7, 1959 and recorded in Chester County in Deed Book G-31 page 394 conveyed unto Springlawn Corporation (Pa. Corp.).

AND BEING as to the remaining part, of the same premises which Center Square, Inc. by Deed dated December 27, 1946 and recorded in Chester County in Deed Book G-22 page 231 conveyed unto Springlawn Corporation, (Pa. Corp.).

AS TO PREMISES "B"
BEING part of the same premises which Center Square, Inc. by Deed dated December 27, 1946 and recorded in Chester County in Deed Book G-22 page 231 conveyed unto Springlawn Corporation, (Pa. Corp.).

UNDER AND SUBJECT to certain Reservations, Rights, Covenants, as of record.

BEING as to Premises A, Premises B, and the flooding rights as aforesaid the same premises which Springlawn Corporation, a Pennsylvania Corporation, conveyed unto George Strawbridge Jr., Individually, and Girard Bank, George Strawbridge, Sr., and Charles N. Morris, Jr., Trustees Under the Deed of Trust of George Strawbridge, Jr., Dated January 20, 1971: by Indenture dated the eighteenth day of October, 1978 and recorded in Chester County Deed Book W53 page 573.

AND BEING as to the flooding rights aforesaid the same premises which Delaware Trust Company, Jean Ellen duPont McConnell and William S. Potter, Trustees Under the Will of William duPont Jr., deceased, conveyed unto George Strawbridge Jr., Individually and Girard Bank, George Strawbridge, Sr., and Charles N. Morris, Jr., Trustees under the Deed of Trust of George Strawbridge Jr., dated January 20, 1971; by Indenture dated the twentieth of November, 1978 and recorded in Chester County Deed Book E54 page 291.

Rec in Chester Co. Pa
in Deed Bk # B64
Pg 175
Elaine S. Weil
Recorder of Deeds

RECORDER'S OFFICE CHESTER COUNTY, PA

B 64 180

REV-183 FD (7-80)

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF REVENUE
BUREAU OF FIELD OPERATIONS

REALTY TRANSFER TAX
AFFIDAVIT OF VALUE

B 025-172nd

FOR RECORDER'S USE ONLY
BOOK NUMBER 1964
PAGE NUMBER 1103
DATE RECORDED 5/23/84

COMPLETE APPLICABLE SECTIONS IN FULL AND FILE IN DUPLICATE WITH RECORDER OF DEEDS WHEN (1) THE FULL CONSIDERATION IS NOT SET FORTH IN THE DEED, (2) THE TRANSFER IS WITHOUT CONSIDERATION OR A GIFT, OR (3) A TAX EXEMPTION IS CLAIMED. (REFER SECT. 8, RTT ACT OF DEC. 27, 1951, P.L. 1742 AS AMENDED)

SECTION I
(COMPLETE FOR ALL TRANSACTIONS)

Girard Bank, George Strawbridge, Sr. Trustees u/d 1/20/71 — GRANTOR (S)
Broad & Chestnut Streets, Phila., PA 19101 — ADDRESS, ZIP CODE

Delaware Trust Co., George Strawbridge, Sr. & William C. Lickle, Trustees u/d 1/20/71 — GRANTEE (S)
Market Street Mall, Wilmington, DE 19801 — ADDRESS, ZIP CODE

LOCATION OF LAND, TENEMENTS AND HEREDITAMENTS:

30% interest 1688 acres — R.D. STREET & NUMBER OR OTHER DESCRIPTION
London, Britain, Franklin & Elk — NAME OF LOCAL GOVERNMENTAL UNIT
Chester County — COUNTY

FULL CONSIDERATION $ -0-
HIGHEST ASSESSED VALUE $ 158140.00
FAIR MARKET VALUE $ 825,000.00
REALTY TRANSFER TAX PAID $

TAX EXEMPT TRANSACTIONS: IF TRANSFER IS PARTIALLY OR WHOLLY EXEMPT, SHOW AMOUNT EXEMPT, REASON (S) AND CITE PORTION OF LAW. This is a transfer by law from one set of trustees to new trustees under same deed of trust.

IF THIS IS A TRANSFER FROM A STRAW, AGENT OR TRUST AGREEMENT, COMPLETE THE REVERSE SIDE.

SECTION II
(COMPLETE ONLY IF PROPERTY WAS SUBJECT TO LIEN OR MORTGAGE AT THE TIME OF TRANSFER)

EXISTING MORTGAGE: $ ~~510,000.00~~ DISPOSITION
Delaware Trust Co., Trustee — MORTGAGEE
Market Street Mall, Wilmington, DE 19801 — ADDRESS

EXISTING MORTGAGE: $ DISPOSITION
MORTGAGEE — ADDRESS

EXISTING LIEN OR OBLIGATION: $ DISPOSITION
LIENHOLDER — ADDRESS

EXISTING LIEN OR OBLIGATION: $ DISPOSITION
LIENHOLDER — ADDRESS

SECTION III
(COMPLETE ONLY IF TRANSFER IS RESULT OF JUDICIAL SALE)

OFFICIAL CONDUCTING SALE — NAME, ADDRESS, TITLE
SUCCESSFUL BIDDER — NAME, ADDRESS, TITLE

	JUDGEMENT PLUS PRIOR LIENS	BID PRICE	HIGHEST ASSESSED VALUE
HIGHEST ASSESSED VALUE			$
JUDGEMENT PLUS INTEREST	$		
BID PRICE		$	
PRIOR RECORDED LIEN	$	$	
PRIOR RECORDED MORTGAGE	$	$	
PRIOR RECORDED MORTGAGE	$	$	
UNPAID REAL ESTATE TAXES	$	$	
WATER RENT DUE	$	$	
SEWAGE RENT DUE	$	$	
ATTORNEY FEES	$	$	
OTHER (COSTS, ETC.)	$	$	
TOTAL	$	$	

NOTE: CALCULATIONS MUST BE SHOWN IN ALL COLUMNS.

SWORN AND SUBSCRIBED BEFORE ME THIS 15th DAY OF August 19 84
Nita Goodilow
NOTARY PUBLIC
MY COMMISSION EXPIRES
NITA GOODILOW
Notary Public, Phila., Phila. Co.
My Commission Expires Sept. 17, 1987

ALL OF THE INFORMATION ENTERED ON BOTH SIDES OF THIS AFFIDAVIT IS TRUE, FULL AND COMPLETE TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF.

Henry T. Dunn

☐ GRANTEE ☒ AGENT FOR GRANTEE
☐ GRANTOR ☐ AGENT FOR GRANTOR
☐ STRAW ☐ TRUSTEE

B 64 187

Tax Parcel # 72-6-1 & Part of 71-4-32

Prepared By: Benjamin J. Berger
Prickett, Jones, Elliott, Kristol & Schnee
1310 King Street, P.O. Box 1328
Wilmington, DE 19899

Return to:
Prickett, Jones, Elliott, Kristol & Schnee
1310 King Street, P.O. Box 1328
Wilmington, DE 19899

INDIVIDUAL DEED

THIS DEED, MADE THIS 31st day of **March** in the year of our LORD one thousand nine hundred and ninety-seven (1997).

BETWEEN **Jane F. Trimble**, party of the first part,

- A N D -

George Strawbridge, Jr., party of the second part,

WITNESSETH, that the said party of the first part for and in consideration of the sum of **TWO HUNDRED SIXTY NINE THOUSAND NINE HUNDRED DOLLARS AND 00 CENTS ($269,900.00)**, lawful money of the United States of America, the receipt whereof is hereby acknowledged, hereby grants and conveys unto the said party of the second part, His Heirs and Assigns.

ALL that certain tract of ground, situate in New London and Franklin Townships, Chester County, State of Pennsylvania, and being more particularly bounded and described in accordance with a Plan prepared by George E. Regester, Jr. & Sons, Inc., dated September 1, 1982, as follows, to-wit:

BEGINNING at a point in the bed of Public Road TR841 known as Lewisville-Chesterville Road, said road leading in an Easterly direction to Chesterville and in a Southerly direction to Lewisville, said point of Beginning marking a corner of this about to be described tract and a corner of other lands of J. Robert Frederick, being Parcel A on said Plan, said point of Beginning being the following three (3) described courses and distances to wit along the Lewisville-Chesterville Road from a point marking a corner of said Parcel A and a corner of lands now or formerly of Charles G. Woods: (1) North 80 degrees 12 minutes 00 seconds East, 129.48 feet to a point; (2) North 55 degrees 56 minutes 00 seconds East, 366.29 feet to a point; and (3) North 73 degrees 18 minutes 00 seconds East, 340.81 feet to said point of Beginning; thence leaving said point of Beginning and continuing along said Lewisville-Chesterville Road, North 73 degrees 18 minutes 00 seconds East, 265.91 feet to a point marking a corner of this and a corner of other lands now or formerly of J. Robert Frederick; thence leaving said Lewisville-Chesterville Road and along said other lands now or formerly of J. Robert Frederick, South 31 degrees 19 minutes 00 seconds East, crossing the township line dividing New London Township from Franklin Township, 1605.87 feet to a point marking a corner of this and a corner of lands of George Strawbridge, Jr., thence along said lands now or formerly of George Strawbridge, Jr., South 47 degrees 01 minute 00 seconds West, 790.69 feet to a point in the bed of the Big Elk Creek marking a corner of this, a corner of said lands now or formerly of George Strawbridge, Jr., and a corner of lands now or formerly of Louis T. Staats, Jr.; thence along said lands now or formerly of Louis T. Staats, Jr., North 77 degrees 37 minutes 30 seconds West, recrossing the aforementioned township line dividing New London Township from Franklin Township, 804.30 feet to a point marking a corner of this and a corner of the aforementioned lands now or formerly of Charles G. Woods, North 04 degrees 10 minutes 00 seconds West, 667.00 feet to a point marking a corner of this and a corner of the aforementioned Parcel A; thence along said Parcel A, the following two (2) described courses and distances, to-wit: (1) South 74 degrees 00 minutes 00 seconds West, 476.33 feet to a point; and (2) South 09 degrees 00 minutes 00 seconds East, 881.53 feet to the first mentioned point and place of **BEGINNING**. Be the contents thereof what they may.

EXCEPTING THEREOUT AND THEREFROM all that certain premises which J. Robert Frederick and Marion B. Frederick, his wife, by Deed dated October 3, 1984, of record in the Office of the Recorder of Deeds, in and for Chester County and Commonwealth of Pennsylvania, in Deed Book Z-64, Page 132, did grant and convey unto Department of Transportation, in fee.

SUBJECT to Rights as granted to Southern Pennsylvania Power Company, of record in the Office of the Recorder of Deeds, in and for Commonwealth of Pennsylvania, in Deed Book 86, Page 43.

BEING a part of the same lands and premises which J. Robert Frederick, Executor of the Estate of Marion B. Frederick, deceased, by Deed dated July 15, 1989, of record in the Office of the Recorder of Deeds, in and for Chester County and Commonwealth of Pennsylvania, in Deed Book 1631, Page 290, did grant and convey unto Jane F. Trimble, in fee. (As to a one-half interest therein).

BK1158PG1495

BEING a part of the same lands and premises which J. Robert Frederick, Executor of the Estate of Marion B. Frederick, deceased, by Deed dated July 25, 1989, of record in the Office of the Recorder of Deeds, in and for Chester County and Commonwealth of Pennsylvania, in Deed Book 1631, Page 299, did grant and convey unto J. Robert Frederick and Jane F. Trimble, as joint tenants with right of survivorship, in fee. (As to the remaining one-half interest therein).

AND the said J. Robert Frederick, did depart this life on or about February 8, 1993, leaving a will dated June 22, 1982, duly probated April 19, 1993 and remaining of record in the Office of the Register of Wills, in and for Chester County and Commonwealth of Pennsylvania, File No. 15-93-0467, wherein he appointed Jane F. Trimble and David L. Myers, Executor to whom Letters Testamentary were granted.

TOGETHER with all and singular the buildings improvements, ways, streets, alleys, driveways, passages, waters, water-courses, rights, liberties, privileges, hereditaments and appurtenances, whatsoever unto the hereby granted premises belonging, or in anywise appertaining, and the reversions and remainders, rents, issues, and profits thereof; and all the estate, right, title, interest, property, claim and demand whatsoever of the said grantors, as well as law as in equity, of, in and to the same.

TO HAVE AND TO HOLD the said lot or piece of ground described hereditaments and premises hereby granted, or mentioned and intended to be so, with the appurtenances, unto the said Grantee, his heirs and assigns, to and for the only proper use and behoof of the said Grantee, his heirs and assigns, forever.

AND the said Grantors, their heirs, successors, executors and administrators do covenant, promise and agree, to and with the said Grantee, his heirs and assigns, by these presents, that the said Grantors and their heirs, all and singular the hereditaments and premises hereby granted or mentioned and intended so to be, with appurtenances, unto the said Grantee, his heirs and assigns, against the said Grantors and their heirs, and against all and every person and persons whosever lawfully claiming or to claim the same or any part thereof, by, from or under or any of them, shall and will

Transfer tax for Franklin and New London Townships are based on $8000.90 per acre.

Franklin Township = $8000.90 x 14.4 acres = $115,328.16 or $1,153.28 in transfer tax.

New London Township = $8000.90 x 19.3 acres = $154,571.77 or $1,545.72 in transfer tax.

BK4158PG1496

Grantees Address:
2003 Chesterville Road
Lincoln University,PA 19352

Grantees Address:
3801 Kennett Pike
Wilmington, DE 19807

BEING a part of the same lands and premises which J. Robert Frederick, Executor of the Estate of Marion B. Frederick, deceased, by Deed dated July 15, 1989, of record in the Office of the Recorder of Deeds, in and for Chester County and Commonwealth of Pennsylvania, in Deed Book 1631, Page 290, did grant and convey unto Jane F. Trimble. in fee. (As to a one-half interest therein).

BEING a part of the same lands and premises which J. Robert Frederick, Executor of the Estate of Marion B. Frederick, deceased, by Deed dated July 25, 1989, of record in the Office of the Recorder of Deeds, in and for Chester County and Commonwealth of Pennsylvania, in Deed Book 1631, Page 299, did grant and convey unto J. Robert Frederick and Jane F. Trimble, as joint tenants with right of survivorship, in fee. (As to the remaining one-half interest therein).

AND the said J. Robert Frederick, did depart this life on or about February 8, 1993, leaving a will dated June 22, 1982, duly probated April 19, 1993 and remaining of record in the Office of the Register of Wills, in and for Chester County and Commonwealth of Pennsylvania, File No. 15-93-0467, wherein he appointed Jane F. Trimble and David L. Myers, Executor to whom Letters Testamentary were granted.

BK1158PG1497

IN WITNESS WHEREOF, the said party of the first part has put her hand and seal the day and year first above written.

SEALED AND DELIVERED IN THE PRESENCE OF:

Witness } Jane F. Trimble (SEAL)

Witness } (SEAL)

STATE OF PENNSYLVANIA }
} SS.
COUNTY OF CHESTER }

BE IT REMEMBERED, that on this 31st day of March in the year of our **LORD** one thousand nine hundred and ninety-seven (1997) personally came before me, the Subscriber, a Notary Public for the State and County aforesaid, Jane F. Trimble, party to this Indenture, known to me personally to be such, and acknowledged this Indenture to be her act and Deed.

GIVEN under my Hand and Seal of Office, the day and year aforesaid.

My Commission Expires:
December 16, 2001

~~Notary Public~~
Commissioner of Deeds

BK4158PG1498

THIS DEED
PREPARED BY

PRICKETT
JONES
ELLIOTT
KRISTOL
&
SCHNEE

RETURN TO

1310 KING STREET
P.O. BOX 1328
WILMINGTON, DE 19899
(302) 888-6500

DEED

Received for Record

A.D., 19

Recorder

Fee for Recording, &c., $

State of Delaware,)
) ss.
County)

Recorded in the Office for the Recording of Deeds, &c., at ..... in and for the said County of ..... in Deed Record ..... Vol. .....Page ..... &c. the ..... day of ..... A.D. 19....
WITNESS my Hand and the Seal of said Office.

.....
Recorder.

RECORDER OF DEEDS

17229

DATE: 04/02/1997 TIME: 11:33A INST NO.: 17229

CHESTER COUNTY, PA
OFFICE OF THE RECORDER OF DEEDS

RECEIPT NO : 008547 TYPE DOC : DEED
REC FEE : 13.00
LOC RTT : 1545.72
ST RTT : 2699.00
WRIT TAX : 0.50
DATE: 04/02/1997 TIME: 11:33A INST NO.:

CHESTER COUNTY, PA
OFFICE OF THE RECORDER OF DEEDS

RECEIPT NO : 008547 TYPE DOC : HOUSING
REC FEE : 13.00
LOC RTT : 0.00
ST RTT : 0.00
WRIT TAX : 0.00
DATE: 04/02/1997 TIME: 11:33A INST NO.: R17229

CHESTER COUNTY, PA
OFFICE OF THE RECORDER OF DEEDS

RECEIPT NO : 008547 TYPE DOC : DEED
REC FEE : 0.00
LOC RTT : 1153.28
ST RTT : 0.00
WRIT TAX : 0.00
DATE: 04/02/1997 TIME: 11:33A INST NO.:

CHESTER COUNTY, PA
OFFICE OF THE RECORDER OF DEEDS

RECEIPT NO : 008547 TYPE DOC : HOUSING
REC FEE : 0.00
LOC RTT : 0.00
ST RTT : 0.00
WRIT TAX : 0.00

BK4158PG1499

11578385 B: 9653 P: 523 DEE
11/20/2017 10:55:47 AM Page 1 of 20
Rec Fees: $218.00 Local: $0.00 State: $0.00
Rick Loughery Recorder of Deeds, Chester County, PA

Prepared by and return to:

Fidelity National Title Insurance Company
1515 Market Street
Suite 1325
Philadelphia, PA 19102

State Tax: EXEMPT
Local Tax: EXEMPT
Consideration: $4,385,000.00

File No: 170225PHI

Tax Parcel Nos.: 70-5-6; 70-5-7 ; 71-4-32.3;
72-6-1; 72-6-10

This Indenture dated 11-9-17 and made effective this 17th day of November, 2017;

Between

GEORGE STRAWBRIDGE, JR., individually

and

BNY MELLON, N.A. (f/k/a Mellon Bank, N.A.), R. STEWART STRAWBRIDGE and GEORGE J. BAXTER, Successor Trustees of the Trust under Deed of George Strawbridge, Jr., dated 1-20-1971

(hereinafter called the Grantors), of the one part, and

THE CONSERVATION FUND, a Non-Profit Corporation

(hereinafter called the Grantee), of the other part,

WHEREAS, the said, George Strawbridge, Jr. executed a written, irrevocable Agreement (Deed) of Trust Dated January 20, 1971, and wherein and whereby he appointed George Strawbridge, Sr., David G. Forman and Girard Trust Bank as trustees and authorized and empowered his said Trustees:

> "To sell at public or private sale, to exchange or to lease for any period of time, any real or personal property, and to give options for sales or leases;" and

WHEREAS, on July 19, 1977 David G. Forman appointed Charles H. Norris, Jr., as his successor trustee and resigned as a trustee of the Trust under Deed of George Strawbridge, Jr. dated January 20, 1971; and

WHEREAS, Springlawn Corporation, by indenture dated October 18, 1978 and recorded October 20, 1978 in the office of the recorder of deeds in and for the County of Chester in Deed Book W-53 page 573,

granted and conveyed unto George Strawbridge, Jr., individually (as to an undivided 70% interest) and Girard Bank (f/k/a Girard Trust Bank), George Strawbridge, Sr. and Charles H. Norris, trustees under Trust under Deed of George Strawbridge, Jr. dated January 20, 1971 (as to an undivided 30% interest), in fee, certain premises more particularly described in said indenture, and a portion of the premises therein conveyed is part of the premises hereinafter more particularly described as Premises A, B, and E; and

WHEREAS, on July 21, 1981 George Strawbridge, Sr., removed Girard Bank (f/k/a Girard Trust Bank) and appointed Delaware Trust Company as the successor corporate trustee of the Trust under Deed of George Strawbridge, Jr. dated January 20, 1971; and

WHEREAS, in 1981 Charles H. Norris, Jr., appointed William C. Lickle as his successor trustee and resigned as a trustee of the Trust under Deed of George Strawbridge, Jr. dated January 20, 1971 and the said William C. Lickle accepted said appointment as trustee on July 28, 1981; and

WHEREAS, an Adjudication filed in Montgomery County Orphans' Court Division of Court of Common Pleas No. 84664 in re: Trust Inter Vivos: George Strawbridge, Jr., Settlor, and excerpt of Schedule of Distribution recorded August 23, 1984 in Chester County in Deed Book B-64 page 175 awarded the undivided 30% interest in Real Estate unto Delaware Trust Company, George Strawbridge and William C. Lickle, Trustees under Deed of Trust of George Strawbridge, Jr. dated January 20, 1971; and

WHEREAS, by Decree of Orphans' Court Division of Court of Common Pleas of Montgomery County, Pennsylvania, dated March 13, 1985, the trustees under Trust under Deed of George Strawbridge, Jr. dated January 20, 1971, were changed to Delaware Trust Company, Dorrance H. Hamilton and George J. Baxter; and

WHEREAS, by Removal Of Corporate Co-Trustee and Appointment of Successor Corporate Co-Trustee, by Dorrance H. Hamilton and George J. Baxter, trustees, dated December 16, 1998, the First Union National Bank (f/k/a Delaware Trust Company) was replaced as Corporate Co-Trustee of the Trust under Deed of Trust of George Strawbridge, Jr. dated January 20, 1971 by Mellon Bank, N.A.; and

WHEREAS, on July 8, 2005 Dorrance H. Hamilton appointed R. Stewart Strawbridge as her successor trustee and resigned as a trustee of the Trust under Deed of George Strawbridge, Jr. dated January 20, 1971 and the said R. Stewart Strawbridge accepted said appointment as trustee on August 1, 2005;

WHEREAS, on July 1, 2008, Mellon Bank, N.A. changed its name to BNY Mellon, N.A.; and

WHEREAS, Jane F. Trimble by indenture dated March 31, 1997 and recorded April 2, 1997 in the Office of the Recorder of Deeds of Chester County in Record Book 4158, Page 1495, granted and conveyed unto George Strawbridge, Jr., in fee a certain premises more particularly described in said indenture, and the premises therein conveyed is more particularly described herein as Premises C and D; and

WHEREAS, Grantor and Grantee have agreed that George Strawbridge, Jr., identified individually as one of Grantors named in this Deed will convey with special warranty his interest in the property described herein on Exhibit A (the "Property"); and BNY Mellon, N.A., R. Stewart Strawbridge and George J. Baxter, identified Grantors in their capacity as trustees in this Deed will convey with title warranties typically provided by trustees, as more fully set forth herein, the Property, as described on Exhibit A; and

NOW THEREFORE, for and in consideration of the sum of Four Million Three Hundred Eighty-Five Thousand and 00/100 Dollars ($4,385,000.00) payment by the Grantee and receipt by the Grantors in lawful money of the United States of America of which is hereby acknowledged , the Grantors hereby have granted and conveyed, bargained and sold, released and confirmed, and by these presents do grant and convey, bargain and sell, release and confirm unto the Grantee:

> All those certain tracts of land situate in the Townships of Elk and Franklin, County of Chester, Commonwealth of Pennsylvania, which are more particularly described on Exhibit A attached hereto and made a part hereof; and

TOGETHER WITH all and singular the buildings and improvements, ways, streets, alleys, passages, waters, water-courses, mineral, timber and other surface and subsurface rights, liberties, privileges, hereditaments and appurtenances, whatsoever belonging, or in anywise appertaining to the Property, and the reversions and remainders, rents, issues, and profits thereof; and all the estate, right, title, interest, claim and demand whatsoever pertaining to the Property at law or in equity.

TO HAVE AND TO HOLD the Property, with the buildings and improvements thereon erected, hereditaments and premises hereby granted, and the appurtenances, unto the said Grantee, its successors and assigns forever.

AND the said GEORGE STRAWBRIDGE, JR., for himself and his heirs and assigns, does covenants, promises and agrees to and with the said Grantee, its successors and assigns, as to the Property only as described on Exhibit A that he, the said George Strawbridge, Jr., and his heirs and assigns, all and singular the hereditaments and premises hereby granted or mentioned and intended so to be, with the appurtenances, unto the said Grantee, its successors and assigns, against him, the said George Strawbridge, Jr., and his heirs and assigns, and against all and every person and persons whosoever lawfully claiming or to claim the same or any part thereof, by, from or under, him, them or any of them, shall and will WARRANT and forever DEFEND.

AND the said BNY MELLON, N.A. (f/k/a Mellon Bank, N.A.), R. STEWART STRAWBRIDGE and GEORGE J. BAXTER, Trustees under Deed of Trust of George Strawbridge, Jr. dated January 20, 1971, do as to the Property as described on Exhibit A covenant, promise and agree to and with said Grantee, its heirs and assigns, that they, the said Trustees, have not done, committed, or knowingly or willingly suffered to be done or committed, any act, matter or thing whatsoever whereby the premises hereby granted, or any part thereof, is, are, shall or may be impeached, charged or encumbered, in title, charge, estate, or otherwise howsoever.

UNDER AND SUBJECT to the terms and conditions of that certain Declaration of Covenants, Conditions and Restrictions given by The Conservation Fund, a Non-Profit Corporation, a Maryland

corporation, to the County of Chester, a Pennsylvania county of the third class, of even date herewith, and intended to be recorded in the Chester County Recorder of Deeds Office immediately after this Indenture.

THIS PROPERTY was acquired with funds provided by the Pennsylvania Department of Conservation and Natural Resources ("Department"). The source of the funds is the Keystone Recreation, Park and Conservation Fund – LT. This Property may not be converted to purposes other than those authorized under the Act for property acquired with Department funds. No change of use and no transfer of ownership, control or interest in the Property may occur, and no encumbrance may be placed on this Property, without the written consent of the Department or its successor. The restriction in this paragraph applies to both the surface and subsurface of the Property. This restriction has the effect of a covenant running in perpetuity and the land is binding upon the owner(s) of the Property and upon all subsequent owners, successors and assigns. This restriction is enforceable by the Department and its successors.

This Indenture may be signed in two or more counterparts (or with counterpart signature pages) which taken together, shall constitute a full executed indenture and shall be considered a single document. The parties intend that a fully executed Indenture containing the signatures of all of the parties shall be binding on the parties.

[SIGNATURES BEGIN ON THE FOLLOWING PAGE]

In Witness Whereof, the said Grantors have caused these presents to be duly executed under seal dated the day and year first above written.

George Strawbridge, Jr. (SEAL)

STATE OF DELAWARE)
) ss.:
COUNTY OF NEW CASTLE)

On the 13th day of November in the year 2017, before me, the undersigned, personally appeared George Strawbridge, Jr., personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her capacity, and that by his/her signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

DIANA S. SKOMORUCHA
NOTARY PUBLIC
STATE OF DELAWARE
MY COMMISSION EXPIRES AUG. 8 2020

Notary Public
Commission Expires: August 8, 2020

BNY Mellon, N.A., (f/k/a Mellon Bank, N.A.), Trustee under Deed of George Strawbridge, Jr., dated 1-20-1971

By: _____ (SEAL)
Name: Frank Schickling
Title: Vice President

STATE OF Pennsylvania)
) ss.:
COUNTY OF Philadelphia)

On this, the 9th day of November 2017, before me, the undersigned officer, personally appeared Frank Schickling who acknowledged himself / herself to be the Vice President of BNY Mellon N.A., (f/k/a Mellon Bank N.A.), a national banking institution, Trustee under Deed of George Strawbridge, Jr., dated 1-20-1971 and that he / she as such officer, being authorized to do so, executed the foregoing instrument for the purposes therein contained by signing the name of the association in the capacity therein stated by himself/herself as such officer.

In Witness Whereof, I hereunto set my hand and official seal.

Sabrina Moore
Notary Public
Commission Expires:

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
Sabrina Moore, Notary Public
City of Philadelphia, Philadelphia County
My Commission Expires April 30, 2019
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

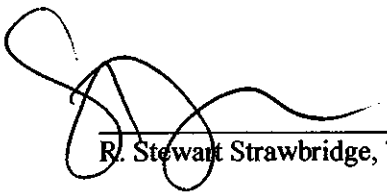
George Baxter (SEAL)
George Baxter, Trustee under Deed of George Strawbridge, Jr., dated 1-20-1971

STATE OF Pennsylvania)
) ss.:
COUNTY OF Bucks)

On the 10 day of November in the year 2017, before me, the undersigned, personally appeared George Baxter, Trustee under Deed of George Strawbridge, Jr., dated 1-20-1971, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her capacity, and that by his/her signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

Notary Public
Commission Expires: 10-31-2021

Commonwealth of Pennsylvania Notary Seal
KATHLEEN BRADFIELD, Notary Public
Bucks County
My Commission Expires October 31, 2021
Commission Number 1097214



_____(SEAL)
R. Stewart Strawbridge, Trustee under Deed of George Strawbridge, Jr., dated 1-20-1971

STATE OF Maine)
) ss.:
COUNTY OF Cumberland)

On the 10th day of November in the year 2017, before me, the undersigned, personally appeared R. Stewart Strawbridge, Trustee under Deed of George Strawbridge, Jr., dated 1-20-1971, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her capacity, and that by his/her signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

Kim Paquette
Notary Public
Commission Expires: 12/2/23

File No: 170225PHI
Tax Parcel Nos. 70-5-6
70-5-7
71-4-32.3
72-6-1
72-6-10
Chesterville Road (A), Elk Township, Chester County, PA
Elk, Chester County, PA
New London, Chester County, PA

The complete address of the above named Grantee, The Conservation Fund, a Non-Profit Corporation is:

The Conservation Fund
1655 North Fort Myer Drive, Suite 1300
Arlington, Virginia 22209

On behalf of the Grantee:

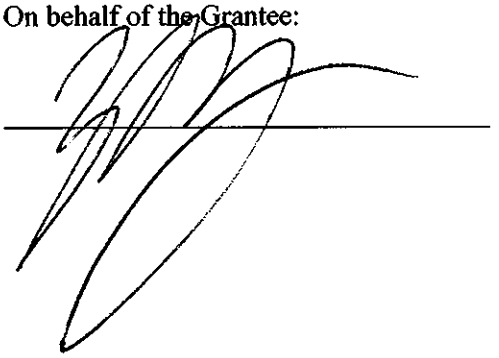


EXHIBIT "A"
Legal Description of the Property

Description of five premises to be conveyed to The Conservation Fund known as Strawbridge Phase II, as shown on the ALTA/NSPS Land Title Survey prepared by Transition Engineering Surveying dated September 26, 2017, project number 294.02.01.

Situated in Elk Township, New London Township, and Franklin Township, Chester County, Pennsylvania.

Premises A – Phase 1 (U.P.I. 70-5-6), known as #1001 Chesterville Road (Source of Title: Deed Record B, Volume 64, Page 175).

BEGINNING at a point (spike set call) in the bed and title line of Chesterville Road Pennsylvania Route No. 841 at 33' wide, said point being a common corner for the premises herein being described and lands known as #985 Chesterville Road now or formerly of N. Philip Dougherty and Marie A. Dougherty his wife, and others, and further located along the bed and centerline of said Chesterville Road, the thirteen (13) following described courses and distances from the intersection formed by the said centerline of Chesterville Road with the centerline of Strickersville Road at 33' wide:

1. N 09° 34' 12" E, 36.50' to a point;
2. N 04° 30' 16" E, 51.95' to a point;
3. N 04° 13' 24" E, 51.60' to a point;
4. N 04° 21' 37" E, 231.05' to a point;
5. Along the arc of a circle curving to the left (radius = 756.48') (chord = 231.41', chord bearing = N 05° 37' 36" W), an arc distance of 232.32' to a point;
6. N 14° 25' 29" W, 31.67' to a point;
7. N 14° 41' 12" W, 155.83' to a point;
8. N 15° 18' 38" W, 216.99' to a point;
9. Along the arc of a circle curving to the right (radius = 1950.54') (chord = 193.39', chord bearing = N 10° 49' 03" W), an arc distance of 193.47' to a point;
10. N 07° 58' 34" W, 77.87' to a point;
11. N 05° 59' 57" W, 278.48' to a point;
12. N 07° 49' 48" W, 253.42' to a point; and
13. N 09° 28' 35" W, 220.39'.

THENCE from the said point of beginning, along the title line of said Chesterville Road the four (4) following described courses and distances:

1. N 09° 50' 40" W, 498.86' to a point (spike set call);
2. N 20° 54' 10" W, 418.51' to a point (spike set call);
3. N 18° 10' 07" W, 251.55' to a point (spike set call); and
4. N 05° 32' 50" E, 467.25' to a point, a corner for Premises B;

THENCE by the same, the twelve (12) following described courses and distances:

1. N 86° 55' 18" E, 220.91' to a point;
2. Along the arc of a circle curving to the left (radius = 263.00') (chord = 204.44', chord bearing = N 64° 03' 00" E), an arc distance of 209.97' to a point;
3. N 41° 10' 42" E, 227.72' to a point;
4. N 51° 17' 58" E, 193.36' to a point;
5. N 40° 53' 01" E, 174.72' to a point;

6. N 47° 22' 34" E, 221.77' to a point;
7. N 37° 28' 20" E, 334.01' to a point;
8. N 45° 17' 00" E, 314.29' to a point;
9. N 38° 35' 57" E, 259.33' to a point;
10. N 41° 05' 26" E, 200.80' to a point;
11. Along the arc of a circle curving to the right (radius = 180.00') (chord = 303.92', chord bearing = S 81° 19' 17" E), an arc distance of 361.84' to a point; and
12. S 23° 44' 01" E, 127.53' to a point, a corner for Phase 3 lands known as #633 Strickersville Road, now or formerly of Delaware Trust Company and George Strawbridge and others (Deed Record B, Volume 64, Page 175) (U.P.I 70-5-8);

THENCE by the same, the ten (10) following described courses and distances:

1. S 07° 24' 24" W, 192.19' to a point;
2. S 25° 52' 31" W, 296.59' to a point;
3. S 08° 28' 56" W, 281.55' to a point;
4. S 13° 43' 33" E, 367.71' to a point;
5. S 07° 50' 14" E, 297.19' to a point;
6. S 13° 44' 47" W, 271.14' to a point;
7. S 05° 57' 22" E, 258.81' to a point;
8. S 03° 22' 21" W, 233.11' to a point;
9. S 31° 51' 37" W, 412.83' to a point; and
10. S 15° 41' 21" W, 376.60' to a point, said point being a common corner for the premises herein being described, said lands known as #633 Strickersville Road, lands known as #112 Schoolhouse Road now or formerly of Christ S. King and Anna M. King his wife (Deed Book 9034, Page 527), (U.P.I. 70-5-9), and the aforesaid lands known as #985 Chesterville Road;

THENCE along said lands known as #985 Chesterville Road, S 86° 21' 20" W, 1350.72' to a point in the aforesaid bed of Chesterville Road, the first mentioned point and place of beginning.

CONTAINING within said described metes and bounds 94.9239 acres of land, be the same more or less.

Premises B – Phase 1 (U.P.I. 70-5-7), known as #1 Springlawn Road (Source of Title: Deed Record B, Volume 64, Page 175).

BEGINNING at a point (spike set call) in the bed and title line of Chesterville Road Pennsylvania Route No. 841 at 33' wide, said point being a common corner for the premises herein being described as Premises A, and further located along the bed and title line of said Chesterville Road, the seventeen (17) following described courses and distances from the intersection formed by the said centerline of Chesterville Road with the centerline of Strickersville Road at 33' wide:

1. N 09° 34' 12" E, 36.50' to a point;
2. N 04° 30' 16" E, 51.95' to a point;
3. N 04° 13' 24" E, 51.60' to a point;
4. N 04° 21' 37" E, 231.05' to a point;
5. Along the arc of a circle curving to the left (radius = 756.48') (chord = 231.41', chord bearing = N 05° 37' 36" W), an arc distance of 232.32' to a point;

6. N 14° 25' 29" W, 31.67' to a point;
7. N 14° 41' 12" W, 155.83' to a point;
8. N 15° 18' 38" W, 216.99' to a point;
9. Along the arc of a circle curving to the right (radius = 1950.54') (chord = 193.39', chord bearing = N 10° 49' 03" W), an arc distance of 193.47' to a point;
10. N 07° 58' 34" W, 77.87' to a point;
11. N 05° 59' 57" W, 278.48' to a point;
12. N 07° 49' 48" W, 270.82' to a point;
13. N 09° 37' 02" W, 203.00'.
14. N 09° 50' 40" W, 498.86' to a point (spike set call);
15. N 20° 54' 10" W, 418.51' to a point (spike set call);
16. N 18° 10' 07" W, 251.55' to a point (spike set call); and
17. N 05° 32' 50" E, 467.25'.

THENCE from the said point of beginning along the title line of said Chesterville Road, N 05° 32' 50" E, 8.95' to a point (spike set call), a corner for lands known as #1075 Chesterville Road now or formerly of David Cooper and Sharon Cooper his wife (Deed Record U, Volume 50, Page 144) (U.P.I. 71-5-2), said point also being the southwest corner of a water rights right of way easement.

THENCE along said lands known as #1075 Chesterville Road and along the southeasterly side of said water rights right of way easement, the fifteen (15) following described courses and distances:

1. N 80° 18' 52" E, 321.87' to a point (iron pin call);
2. N 46° 11' 57" E, 150.43' to a point (iron pin call);
3. N 42° 35' 57" E, 242.61' to a point (iron pin call);
4. N 56° 15' 57" E, 102.98' to a point (iron pin call);
5. N 38° 55' 57" E, 155.16' to a point (iron pin call);
6. N 46° 33' 57" E, 187.97' to a point (iron pin call);
7. N 48° 59' 57" E, 90.78' to a point (iron pin call);
8. N 36° 46' 57" E, 125.30' to a point (iron pin call);
9. N 38° 08' 57" E, 214.76' to a point (iron pin call);
10. N 44° 59' 57" E, 189.98' to a point (iron pin call);
11. N 42° 53' 57" E, 227.40' to a point (iron pin call);
12. N 37° 48' 57" E, 360.43' to a point (iron pin call);
13. N 40° 47' 57" E, 288.73' to a point (iron pin call);
14. N 53° 47' 57" E, 209.01' to a point (iron pin call); and
15. N 45° 09' 57" E, 67.71' to a point, said point being a common corner for the premises herein being described said lands known as #1075 Chesterville Road and said easement Premises D, now or formerly of George Strawbridge Jr. (Deed Book 4158, Page 1495) (U.P.I. 72-6-1), and Phase 2 lands known as #99 Bullock Road now or formerly of Delaware Trust Company and trustee for Strawbridge (Deed Record B, Volume 64, Page 175) (U.P.I. 72-6-4);

THENCE along said lands known as #99 Bullock Road, and along new title (tie) lines of Big Elk Creek, the forty-four (44) following described courses and distances:

1. S 67° 47' 50" E, 63.22' to a point;
2. S 28° 51' 08" E, 347.66' to a point;
3. S 14° 26' 10" E, 397.54' to a point;
4. S 23° 53' 55" E, 460.54' to a point;

5. S 40° 43' 49" E, 141.24' to a point;
6. S 62° 40' 24" E, 160.48' to a point;
7. N 72° 51' 22" E, 177.80' to a point;
8. N 89° 14' 08" E, 115.53' to a point;
9. N 64° 53' 11" E, 130.54' to a point;
10. N 36° 17' 09" E, 217.50' to a point;
11. N 17° 11' 40" E, 99.01' to a point;
12. N 13° 53' 09" W, 194.74' to a point;
13. N 06° 34' 29" W, 666.92' to a point;
14. N 23° 26' 54" W, 139.08' to a point;
15. N 24° 31' 14" E, 114.90' to a point;
16. N 54° 58' 01" E, 237.29' to a point;
17. N 84° 25' 34" E, 146.37' to a point;
18. S 69° 20' 47" E, 132.00' to a point;
19. S 34° 00' 01" E, 128.70' to a point;
20. S 81° 36' 22" E, 210.89' to a point;
21. S 83° 58' 21" E, 228.35' to a point;
22. S 32° 20' 03" E, 167.44' to a point;
23. S 84° 17' 05" E, 150.48' to a point;
24. S 74° 32' 54" E, 170.50' to a point;
25. S 77° 38' 15" E, 250.88' to a point;
26. N 78° 03' 10" E, 111.54' to a point;
27. S 41° 46' 56" E, 369.15' to a point;
28. S 74° 20' 31" E, 302.37' to a point;
29. S 43° 19' 31" E, 235.57' to a point;
30. S 13° 01' 47" E, 138.20' to a point;
31. S 15° 10' 32" E, 87.18' to a point;
32. S 04° 11' 42" W, 534.08' to a point;
33. S 15° 45' 23" W, 362.93' to a point;
34. S 14° 13' 18" E, 363.08' to a point;
35. S 18° 10' 41" E, 316.20' to a point;
36. S 51° 04' 59" E, 86.98' to a point;
37. S 21° 56' 11" E, 208.51' to a point;
38. S 78° 05' 35" E, 494.00' to a point;
39. S 69° 58' 20" E, 722.25' to a point;
40. S 53° 42' 31" E, 450.90' to a point;
41. S 68° 35' 19" E, 225.52' to a point;
42. S 32° 08' 25" E, 141.01' to a point;
43. S 20° 15' 51" W, 124.86' to a point; and
44. S 35° 00' 10" W, 49.64' to a point in the bed and title line of Strickersville Road at 33' wide;

THENCE along the bed and title line of Strickersville Road, S 69° 30' 51" W, 474.02' to a point, a corner for Phase 3 lands known as #633 Strickersville Road now or formerly of Delaware Trust Company and George Strawbridge and others (Deed Record B, Volume 64, Page 175) (U.P.I. 70-5-8), said point being in the centerline of Springlawn Road T-354 vacated, said point being in the terminus of a public trail easement at 33' wide;

THENCE along said Phase 3 lands known as #633 Strickersville Road, along the title lines of said easement and said vacated road, the forty-two (42) following described courses and distances:

1. N 06° 43' 32" W, 177.09' to a point;
2. Along the arc of a circle curving to the left (radius = 545.00') (chord = 176.07', chord bearing = N 16° 01' 17" W), an arc distance of 176.84' to a point;
3. N 25° 19' 02" W, 200.01' to a point;
4. Along the arc of a circle curving to the left (radius = 475.00') (chord = 233.25', chord bearing = N 39° 31' 49" W), an arc distance of 235.66' to a point;
5. N 53° 44' 36" W, 114.99' to a point;
6. Along the arc of a circle curving to the left (radius = 425.00') (chord = 127.82', chord bearing = N 62° 23' 32" W), an arc distance of 128.30' to a point;
7. N 71° 02' 26" W, 182.93' to a point;
8. N 64° 57' 51" W, 204.61' to a point;
9. Along the arc of a circle curving to the left (radius = 350.00') (chord = 168.68', chord bearing = N 78° 54' 28" W), an arc distance of 170.35' to a point;
10. S 87° 08' 55" W, 85.18' to a point;
11. Along the arc of a circle curving to the right (radius = 225.00') (chord = 105.31', chord bearing = N 79° 19' 04" W), an arc distance of 106.29' to a point;
12. N 65° 47' 03" W, 243.43' to a point;
13. Along the arc of a circle curving to the right (radius = 245.00') (chord = 237.24', chord bearing = N 36° 49' 33" W), an arc distance of 247.65' to a point;
14. N 07° 52' 03" W, 351.37' to a point;
15. N 05° 11' 35" W, 147.17' to a point;
16. N 11° 39' 14" W, 109.67' to a point;
17. Along the arc of a circle curving to the left (radius = 425.00') (chord = 311.84', chord bearing = N 33° 10' 37" W), an arc distance of 319.30' to a point;
18. N 54° 42' 00" W, 37.68' to a point;
19. N 10° 26' 17" W, 252.23' to a point;
20. N 37° 36' 37" W, 248.38' to a point;
21. Along the arc of a circle curving to the right (radius = 830.00') (chord = 129.16', chord bearing = N 33° 08' 52" W), an arc distance of 129.29' to a point;
22. N 28° 41' 07" W, 356.00' to a point;
23. Along the arc of a circle curving to the left (radius = 350.00') (chord = 130.71', chord bearing = N 39° 26' 49" W), an arc distance of 131.48' to a point;
24. N 50° 12' 32" W, 246.80' to a point;
25. N 63° 56' 17" W, 108.82' to a point;
26. Along the arc of a circle curving to the left (radius = 150.00') (chord = 67.45', chord bearing = N 76° 55' 54" W), an arc distance of 68.03' to a point;
27. N 89° 55' 31" W, 535.10' to a point;
28. N 89° 58' 22" W, 221.46' to a point;
29. Along the arc of a circle curving to the left (radius = 235.00') (chord = 275.93', chord bearing = S 54° 04' 35" W), an arc distance of 294.91' to a point;
30. S 18° 07' 31" W, 185.56' to a point;
31. Along the arc of a circle curving to the left (radius = 336.81') (chord = 172.60', chord bearing = S 03° 16' 44" W), an arc distance of 174.55' to a point;
32. Along the arc of a circle curving to the right (radius = 215.00') (chord = 250.02', chord bearing = S 23° 59' 07" W), an arc distance of 266.82' to a point;
33. S 59° 32' 16" W, 225.93' to a point;
34. S 69° 30' 06" W, 325.39' to a point;

35. S 42° 55' 32" W, 126.26' to a point;
36. Along the arc of a circle curving to the right (radius = 100.00') (chord = 77.14', chord bearing = S 65° 36' 41" W), an arc distance of 79.19' to a point;
37. S 88° 17' 51" W, 110.71' to a point;
38. Along the arc of a circle curving to the right (radius = 180.00') (chord = 168.56', chord bearing = N 63° 47' 02" W), an arc distance of 175.42' to a point;
39. N 35° 51' 55" W, 160.89' to a point;
40. N 28° 20' 22" W, 260.11' to a point;
41. N 16° 28' 43" W, 327.85' to a point;
42. N 23° 44' 01" W, 182.64' to a point, a corner for the aforesaid lands known as Premises A;

THENCE still along the title lines of said easement and said vacated road, the twelve (12) following described courses and distances:

1. N 23° 44' 01" W, 127.53' to a point;
2. Along the arc of a circle curving to the left (radius = 180.00') (chord = 303.92', chord bearing = N 81° 19' 17" W), an arc distance of 361.84' to a point;
3. S 41° 05' 26" W, 200.80' to a point;
4. S 38° 35' 57" W, 259.33' to a point;
5. S 45° 17' 00" W, 314.29' to a point;
6. S 37° 28' 20" W, 334.01' to a point;
7. S 47° 22' 34" W, 221.77' to a point;
8. S 40° 53' 01" W, 174.72' to a point;
9. S 51° 17' 58" W, 193.36' to a point;
10. S 41° 10' 42" W, 227.72' to a point;
11. Along the arc of a circle curving to the right (radius = 263.00') (chord = 204.44', chord bearing = S 64° 03' 00" W), an arc distance of 209.97' to a point;
12. S 86° 55' 18" W, 220.91' to a point in the bed of said Chesterville Road, the first mentioned point and place of beginning;

CONTAINING within said described metes and bounds 66.8385 acres of land, be the same more or less.

Premises C – Phase 1 (U.P.I. 71-4-32.3) and Premises D - Phase 1 (U.P.I. 72-6-1), known as #2057 Chesterville Road (Source of Title: Deed Book 4158, Page 1495).

BEGINNNG at a point in the bed and title line of Chesterville Road Pennsylvania Route No. 841 at 33' wide, said point being a common corner for the premises herein being described and lands known as #2003 Chesterville Road now or formerly of Rosemary Pushkarewicz (Deed Book 8728, Page 1624) (U.P.I. 71-4-32), said point being further located along the title lines of said Chesterville Road the three (3) following described courses and distances from the point of intersection formed by the title line of said Chesterville Road with the title line of another section of Chesterville Road at 33' wide, at the southerly terminus of the title line of Lewisville Road at 33' wide:

1. N 78° 03' 12" E, 185.07' to a point;
2. N 53° 47' 12" E, 366.29' to a point; and
3. N 71° 09' 12" E, 340.81.

THENCE from the said point of beginning along the title line of said Chesterville Road, N 71° 09' 12" E, 265.91' to a point, a corner for lands known as #2097 Chesterville Road, now or formerly of Michael E. Chaga and Doris J. Chaga his wife (Deed Book 3781, Page 1752) (U.P.I. 71-4-32.2 and U.P.I. 72-6-1.2);

THENCE by the same, S 33° 27' 48" E, 1605.87' to a point (iron pin call), a corner for Phase 2 lands known as #99 Bullock Road, now or formerly of Delaware Trust Company and trustee for Strawbridge (Deed Record B, Volume 64, Page 175) (U.P.I. 72-6-4);

THENCE by the same, S 44° 44' 34" W, 782.85' to a point, said point being a common corner for the premises herein being described, said lands known as #99 Bullock Road, Premises B, and lands known as #1075 Chesterville Road, now or formerly of David Cooper and Sharon S. Cooper his wife (Deed Record U, Volume 50, Page 144) (U.P.I. 71-5-2);

THENCE along said lands known as #1075 Chesterville Road, N 79° 28' 33" W, 810.16' to a point, a corner for lands known as #2001 Chesterville Road, now or formerly of Charles G. Woods and Lois A. Woods his wife (Deed Record Q, Volume 40, Page 991) (U.P.I. 71-4-31);

THENCE by the same, N 06° 18' 48" W, 652.55' to a point, a corner for said lands known as #2003 Chesterville Road;

THENCE by the same, the two (2) following described courses and distances:

1. N 71° 51' 12" E, 476.33' to a point; and
2. N 11° 08' 48" W, 881.53' to a point in the bed of said Chesterville Road, the first mentioned point and place of beginning;

CONTAINING within said described metes and bounds 33.6346 acres of land, be the same more or less.

Premises E – Phase 1 (U.P.I. 72-6-10), known as #401 Strickersville Road (Source of Title: Deed Record B, Volume 64, Page 175).

BEGINNING at a point in the bed and title line of Strickersville Road at 33' wide, said point being a common corner for the premises herein being described and the subdivision of Mt. Olivet Farms (extended) (Microfilm No. 1408) said point being further located the three (3) following described courses and distances from the westerly end of a 25.00' radius junction curve joining the northerly side of said Strickersville Road with the westerly side of Peter Christopher Drive at 50' wide:

1. S 10° 34' 49" W, 13.58' to a point in the title line of said Strickersville Road;
2. THENCE by the same, N 79° 25' 11" W, 87.91' to an angle point; and
3. Along another title line of Strickersville Road, N 79° 54' 11" W, 112.74'.

THENCE from the said point of beginning, continuing along the bed and title lines of Strickersville Road the two (2) following described courses and distances:

1. N 80° 18' 01" W, 519.80' to a point; and
2. N 84° 49' 31" W, 470.28' to a point, a corner for lands known as #421 Strickersville Road now or formerly of Ronald M. Basara (Deed Book 5135, Page 319) (U.P.I. 72-6-11);

THENCE by the same, N 05° 33' 36" E, 294.47' to a point;

THENCE still by the same and along lands known as #423 Strickersville Road now or formerly of James E. Nowland (Deed Book 5113, Page 741) (U.P.I. 72-6-12), N 77° 06' 45" W, 437.88' to a point, a corner for Phase 2 lands known as #99 Bullock Road, now or formerly of Delaware Trust Company and trustee for George Strawbridge (Deed Record B, Volume 64, Page 175) (U.P.I. 72-6-4);

THENCE by the same (along new title lines for Mt. Olivet Road, at 33' wide), the eight (8) following described courses and distances:

1. N 10° 22' 42" W, 454.24' to a point;
2. N 10° 44' 27" E, 481.21' to a point;
3. N 28° 03' 06" E, 1020.62' to a point;
4. N 22° 22' 46" E, 237.42' to a point;
5. N 08° 55' 54" E, 159.65' to a point;
6. N 14° 01' 33" E, 607.00' to a point;
7. N 14° 47' 21" W, 384.05' to a point; and
8. N 36° 03' 37" W, 230.03' to a point in the bed of Walker Road at 33' wide;

THENCE along the title line of said Walker Road, S 85° 18' 09" E, 56.76' to a point (iron pin call), a corner for lands known as #2 Johnson Lane now or formerly of John R. Griffith and Ann P. Griffith his wife (Deed Record P, Volume 65, Page 386) (U.P.I. 72-6-8.44);

THENCE by the same, S 40° 05' 09" E, 439.64' to a point (iron pin call);

THENCE still by the same, and along lands known as #10 Ways Run now or formerly Jeffrey D. Bennett and Juanita S. Bennett his wife (Deed Record Z, Volume 63, Page 521) (U.P.I. 72-6-8.57), S 05° 56' 51" W, 1054.09' to a point (iron pin call);

THENCE still along said lands known as #10 Ways Run, S 42° 57' 35" E, 473.49' to a point (iron pin call);

THENCE still along said lands known as #10 Ways Run and along said subdivision of Mt. Olivet Farms, S 08° 16' 00" E, 2150.90' to a point in the said bed of Strickersville Road, the first mentioned point and place of beginning;

CONTAINING within said described metes and bounds 59.0579 acres of land, be the same more or less.

As to Premises A, B and E

Being part of the same premises which Springlawn Corporation, a Pennsylvania corporation by Deed dated 10-18-1978 and recorded 10-21-1978 in Chester County in Deed Book W 53 Page 573 conveyed unto George Strawbridge, Jr., Individually, an undivided seventy (70%) percent interest and Girard Bank, George Strawbridge, Sr. and Charles H. Norris, Jr., Trustees under Deed of Trust of George Strawbridge, Jr., dated 1-20-1971, the remaining thirty (30%) percent interest as a tenancy in common as to the whole thereof, in fee.

Also being part of the same premises which vested in Delaware Trust Company, George Strawbridge and William C. Lickle, Trustees under Deed of George Strawbridge, Jr. dated

January 20, 1971, thirty percent interest, by Certificate of Award of Real Estate, Trust Inter Vivos: George Strawbridge, Jr., Settlor No. 84664 by the Orphans' Court Division of the Court of Common Pleas for the County of Montgomery dated 8-7-1984 and recorded 8-23-1984 in Deed Book B 64 page 175.

As to Premises C and D

Being the same premises which Jane F. Trimble by Deed dated 3-31-1977 and recorded 4-2-1997 in Chester County in Record Book 4158 Page 1495 conveyed unto George Strawbridge, Jr., in fee.

REV-183 EX (2-15)

pennsylvania
DEPARTMENT OF REVENUE
Bureau of Individual Taxes
PO BOX 280603
Harrisburg, PA 17128-0603

REALTY TRANSFER TAX STATEMENT OF VALUE

See reverse for instructions.

RECORDER'S USE ONLY

State Tax Paid	
Book Number	
Page Number	
Date Recorded	

Complete each section and file in duplicate with Recorder of Deeds when (1) the full value/consideration is not set forth in the deed, (2) the deed is without consideration or by gift, or (3) a tax exemption is claimed. If more space is needed, please attach additional sheets. A Statement of Value (SOV) is not required if the transfer is wholly exempt from tax based on family relationship or public utility easement. However, it is recommended that a SOV accompany all documents filed for recording.

A. CORRESPONDENT – All inquiries may be directed to the following person:

Name	Telephone Number:
Jodi R. O'Day, Vice President and Regional Counsel, The Conservation Fund	(443) 482-2826

Mailing Address	City	State	ZIP Code
410 Severn Avenue, Suite 204	Annapolis	MD	21403

B. TRANSFER DATA

Date of Acceptance of Document 11/17/17

Grantor(s)/Lessor(s)	Telephone Number:	Grantee(s)/Lessee(s)	Telephone Number:
George Strawbridge, Jr. and Trustees		The Conservation Fund	

Mailing Address	Mailing Address
Greenville Center, Building B-100	1655 North Fort Myer Drive, Suite 1300

City	State	ZIP Code	City	State	ZIP Code
Greenville	DE	19807	Arlington	VA	22209

C. REAL ESTATE LOCATION

Street Address	City, Township, Borough
Various Properties (see attached)	Elk, Franklin, New London Townships

County	School District	Tax Parcel Number
Chester	Oxford Area, Avon Grove	See Attached

D. VALUATION DATA

Was transaction part of an assignment or relocation? ☐ Y ☐ N

1. Actual Cash Consideration	2. Other Consideration	3. Total Consideration
4,385,000.00	+0.00	= 4,385,000.00
4. County Assessed Value	**5. Common Level Ratio Factor**	**6. Computed Value**
1,287,870.00	x 1.89	= 2,434,074.30

E. EXEMPTION DATA - Refer to instructions for exemption status.

1a. Amount of Exemption Claimed	1b. Percentage of Grantor's Interest in Real Estate	1c. Percentage of Grantor's Interest Conveyed
$ 4,385,000.00	100.00 %	100.00 %

2. Check Appropriate Box Below for Exemption Claimed.

- ☐ Will or intestate succession. _____ (Name of Decedent) _____ (Estate File Number)
- ☐ Transfer to a trust. (Attach complete copy of trust agreement identifying all beneficiaries.)
- ☐ Transfer from a trust. Date of transfer into the trust _____
  If trust was amended attach a copy of original and amended trust.
- ☐ Transfer between principal and agent/straw party. (Attach complete copy of agency/straw party agreement.)
- ☐ Transfers to the commonwealth, the U.S. and instrumentalities by gift, dedication, condemnation or in lieu of condemnation. (If condemnation or in lieu of condemnation, attach copy of resolution.)
- ☐ Transfer from mortgagor to a holder of a mortgage in default. (Attach copy of mortgage and note/assignment.)
- ☐ Corrective or confirmatory deed. (Attach complete copy of the deed to be corrected or confirmed.)
- ☐ Statutory corporate consolidation, merger or division. (Attach copy of articles.)
- ☒ Other (Please explain exemption claimed.) Exempt pursuant to 72 P.S. Sec 8102-C.3-18

Under penalties of law, I declare that I have examined this statement, including accompanying information, and to the best of my knowledge and belief, it is true, correct and complete.

Signature of Correspondent or Responsible Party	Date
The Conservation Fund By: Jodi R. O'Day, Vice President	11/17/17

FAILURE TO COMPLETE THIS FORM PROPERLY OR ATTACH REQUESTED DOCUMENTATION MAY RESULT IN THE RECORDER'S REFUSAL TO RECORD THE DEED.

EXHIBIT TO TRANSFER TAX STATEMENT OF VALUE

Grantors: George Strawbridge, Jr. and the trustees of George Strawbridge Jr. Trust
Grantee: The Conservation Fund, a Non-Profit Corporation

Tax Parcel Number	Assessed Value	Township
70-5-6	$222,130.00	Elk
70-5-7	$151,410.00	Elk
71-4-32.3	$487,710.00	New London
72-6-1	$85,870.00	Franklin
72-6-10	$340,750.00	Franklin
Total Assessed Value:	$1,287,870.00	

APPENDIX D

SITE PHOTOGRAPHS

Photo 1: General view of fields, looking north.

Photo 2: General view of fields, looking east.

Photo 3: View of remnant of house within central portion of Property.

Photo 4: View across fields, looking northeast.

Photo 5: View of Springlawn Road trail.

Photo 6: View of building ruins along Big Elk Creek.

Photo 7: Typical configuration of wire mesh fencing observed within Property.

Photo 8: View of field showing steep topographic relief.

APPENDIX E

ENVIRONMENTAL PROFESSIONAL QUALIFICATIONS

David P. Bailey
Senior Environmental Scientist

EDUCATION

B.S., Agriculture, University of Delaware, 1997
Post Graduate Coursework, University of Maryland, Graduate Studies in Environmental Management

TRAINING

Wetlands Delineation, Cook College Rutgers University, 2003
Hydrology of Wetlands, Cook College Rutgers University, 2004
Advanced Wetland Delineation, Environmental Concern, Inc. 2005
Lake Management, Cook College, Rutgers University, 2007
Introduction to Groundwater Investigations, U.S. Environmental Protection Agency, 2008
Hazardous Waste Operations and Emergency Response (HAZWOPER) 40 Hour Training
8-Hour OSHA Annual Refresher Courses

Background / Skills

Mr. Bailey has been working as a project manager / senior environmental scientist in the field of environmental consulting for over 10 years. His project experience includes Preliminary Environmental Site Assessments, Phase I and II environmental site assessments, subsurface site investigations, hydrogeologic evaluations, stormwater recharge evaluations, underground storage tank investigations, environmental health and safety monitoring, asbestos surveys, and lead-based paint surveys. Mr. Bailey's typical job responsibilities include: writing proposals, work plans, health and safety plans, and reports; coordinating, performing, and supervising field sampling; and interpreting and modeling analytical data. His field experience includes soils identification and classification, monitoring-well installations, soil and groundwater sampling, and field investigations for vapor intrusion modeling.

SELECTED PROJECT EXPERIENCE

Project Manager – Environmental Site Assessments, Various Sites

Mr. Bailey has served as a Project Manager and Senior Environmental Scientist for environmental site assessments of multi-family residential, commercial (retail and office), and industrial facilities in over 18-states nationwide. His work on these types of projects included aerial photographic interpretation, participation in magnetic surveys to locate subsurface features such as tanks and piping, historical research, visual site reviews, and interaction with local and state agencies.

Senior Environmental Scientist – Industrial Facility, Salisbury, Maryland

Mr. Bailey served as a Senior Environmental Scientist on a large scale Remedial Investigation (RI) of an approximately 18-acre, 400,000 square foot facility which had manufactured gasoline pumps / dispensers for approximately 65 years. His work on this project consisted of performing historical research, reviewing environmental regulatory files provided by the U.S. Environmental Protection Agency (EPA) and the State of Maryland Department of the Environment (MDE), cataloging all relevant environmental documents, reviewing soil borings collected by direct-push and hollow-stem auger methods, providing oversight during the installation of groundwater monitoring wells, collecting soil and groundwater samples, and interpreting laboratory analysis data.

Senior Environmental Scientist – 22-Acre Parcel Environmental Site Assessment, Rehoboth Beach, Delaware

Mr. Bailey completed a Phase I Environmental Site Assessment and subsequent Limited Subsurface Evaluation of an approximately 22-acre undeveloped parcel located in Rehoboth Beach, Delaware. Historically the property had been undeveloped vacant land, however, the site investigation revealed that miscellaneous solid waste and containers of unknown contents had been left on-site and presented an environmental concern. In order to evaluate these conditions, Mr. Bailey performed a limited subsurface evaluation of the property which included a magnetometer survey, test pit excavations, soil sampling and laboratory analysis, and providing an estimated cost to properly dispose of the solid waste and impacted soils identified during the assessment. Through this limited evaluation, Mr. Bailey was able to provide a basis for which the prospective purchaser was able to renegotiate the selling price of the property.

Senior Environmental Scientist – Remedial Investigation / Feasibility Study (RI/FS), Wilmington, Delaware

Mr. Bailey assisted in preparing an Addendum to an existing RI/FS for a property that had previously entered into the State of Delaware's Voluntary Cleanup Program (VCP). Mr. Bailey's work on the project consisted of analyzing laboratory data generated during the addendum to evaluate a potential human health risk associated with the migration of vapors into the building from site soils and groundwater impacted with trichloroethene (TCE) and tetrachloroethene (PCE). The evaluation was performed using the EPA approved Johnson & Ettinger Model for Subsurface Vapor Intrusion in Buildings.

Senior Environmental Scientist – Health and Safety Monitoring, Wilmington, Delaware

Mr. Bailey served as a Senior Environmental Scientist on a federally funded construction site providing environmental health and safety monitoring to document site workers exposure to constituents of concerns. Mr. Bailey's work on the project included reviewing trenching, excavation, and other soil disturbance activities, and monitoring air vapors and dust, which posed a potential health and safety risk to site workers.

Senior Environmental Scientist - Wetland Delineations and Permitting, Statewide

Mr. Bailey has performed wetland delineations, for submittal to the United States Army Corps of Engineers, on properties ranging in size from 4-acres to approximately 300-acres. Mr. Bailey's work on these projects included identifying hydric soils, hydrology, and cataloguing wetland and upland plant species. Also prepared Nationwide Permits and / or Subaqueous Lands Permits for the United States Corps of Engineers / State of Delaware Department of Natural Resources and Environmental Control associated with residential subdivisions, commercial development, and improvements to existing commercial properties. Tasks included reviewing civil engineering construction drawings specific to potential wetland impacts,

Senior Environmental Scientist – Stormwater Recharge Evaluations, Statewide

Mr. Bailey has performed stormwater recharge evaluations in support of residential and commercial development for various projects within the State of Delaware. The evaluations generally consisted of classifying soils, estimating seasonal high-water, determining the depth to groundwater when not obvious, and the suitability of site soils for subsurface recharge capability.

Senior Environmental Scientist – Pond Restoration, Residential Subdivision, St. Georges, DE

Mr. Bailey assisted with evaluating a residential stormwater pond to improve its aesthetic qualities and ensure it maintained compliance with current New Castle County stormwater pond maintenance guidelines. The evaluation consisted of monitoring water quality parameters, collecting water samples, and devising a plan of action to achieve the goals of the neighborhood association. A power point presentation was presented to the neighborhood association outlying different steps they could take to achieve one or more of their goals.