

# **Weirs Creek Solar, LLC**

**Case No. 2024-00099**

**Application – Exhibit 12  
Attachment A  
Exhibit 7**

**Phase I Environmental  
Site Assessment  
(808 Pages)**

June 2, 2023  
ECT No. 210152-0900

Mr. Brian Bartels  
Weirs Creek Solar, LLC  
700 Universe Boulevard  
Juno Beach, Florida 33408

**Re: Phase I Environmental Site Assessment  
Weirs Creek Solar Project  
Hopkins and Webster Counties, Kentucky**

Dear Mr. Bartels

Environmental Consulting & Technology, Inc. (ECT) is pleased to provide this Phase I Environmental Site Assessment (ESA) for the above-referenced property. This assessment was performed in accordance with the ASTM Standard Practice for Environmental Site Assessment: Phase I Environmental Site Assessment Process for Forestland or Rural Property (E2247-16). This Phase I ESA is valid through September 26, 2023, after which time certain components of this report may need to be updated. The date(s) of the most recent searches for environmental liens may alter this viability date. We appreciate the opportunity to work with you. Please feel free to contact us at 734.769.3004 should you have any questions concerning this report, or if we may assist you in any other matter.

Sincerely,

**Environmental Consulting & Technology, Inc.**



Jessica Philips  
Technical Writer



Nicole Rockentine  
Geologist

> **Phase I Environmental Site Assessment  
of the Weirs Creek Solar Project  
Hopkins and Webster Counties, Kentucky**

June 2, 2023  
ECT No. 210152-0900

for  
Weirs Creek Solar, LLC  
700 Universe Boulevard  
Juno Beach, Florida 33408

***ECT***

3720 Wilder Road Unit B  
Bay City, Michigan 48706  
734.769.3004

## Environmental Professional Statement

I, Nicole Rockentine, declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR §312. 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 developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312. All elements of this Phase I ESA have been completed by me or persons under my direct supervision. For the sake of brevity, any references herein to the "Environmental Professional" or "EP" shall refer directly to me. Any references to "ECT" shall refer to me and/or those persons under my direct supervision.

A copy of the EP's resume and those directed by the EP in the completion of this assessment are included in the appendices ([Resumes of Environmental Consultants](#)).



Nicole Rockentine

Geologist

Environmental Professional



## PROJECT SUMMARY TABLE

### Weirs Creek Solar Project Hopkins and Webster Counties, Kentucky

Report Section	None	REC	CREC	HREC	DMC	Comments
3.0 Subject Property and Vicinity Descriptions	✓					
4.0 User Provided Information	✓					
5.0 Historical Review		✓				REC #1: Historical oil/gas exploration on the Subject Property REC #2: Long-term farm dump containing petroleum products onsite REC #3: Underground and surface coal mining on Subject Property and surrounding area
6.0 Regulatory Database Review		✓				REC#3: See above
7.0 Regulatory Agency Records Review		✓				REC#1: See above REC #3: See above BER#1: Historical onsite biosolid application
8.0 Interviews						BER#1: See above
9.2 Observed Hazardous Substances and/or Petroleum Products		✓				REC #2: See Above
9.3 Aboveground Storage Tanks	✓					REC #2: See Above
9.4 Electrical or Hydraulic Equipment Likely to Contain Fluids	✓					
9.5 Stained Soil or Pavement		✓				REC #2: See Above
9.6 Pits, Ponds, Ditches, Streams, or Lagoons	✓					
9.7 Stained or Stressed Vegetation		✓				REC #2: See Above
9.8 Solid Waste Disposal, Fill Materials, or Debris		✓				REC #2: See Above
9.9 Wells	✓					
9.10 Other Field Observations	✓					

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## Common Acronyms and Abbreviations

AST	Aboveground Storage Tank
AAI	All Appropriate Inquiry
AUL	Activity and Use Limitation
API	American Petroleum Institute
ACM	Asbestos-Containing Material
bgs	Below Ground Surface
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes
BER	Business Environmental Risk
CESQG	Conditionally Exempt Small Quantity Generator
COC	Constituent of Concern
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS	Comprehensive Environmental Response Compensation and Liability Information System
CREC	Controlled Recognized Environmental Condition
DMC	<i>De Minimis</i> Condition
ECHO	Enforcement and Compliance History Online
ECT	Environmental Consulting & Technology, Inc.
EPA	Environmental Protection Agency
ESA	Environmental Site Assessment
FRS	Facility Registry Service
FOIA	Freedom of Information Act
HREC	Historical Recognized Environmental Condition
LLP	Landowner Liability Protection
LQG	Large Quantity Generator
LBP	Lead-Based Paint
LUST	Leaking Underground Storage Tank
MCL	Maximum Contaminant Level
MTBE	Methyl tert-butyl ether
µg/L	Micrograms per Liter
mg/kg	Milligrams per Kilogram
mg/L	Milligrams per Liter
NPL	National Priority List
NPMS	National Pipeline Mapping System
NWIS	National Water Information System
NFA/NFR	No Further Action/Remediation
NOV	Notice of Violation
NRCS	Natural Resources Conservation Service
PPB	Parts per Billion
PPM	Parts per Million
PID	Photoionization Detector
PCE	Perchloroethylene, Tetrachloroethylene, Tetrachloroethene, PERC
PIN	Parcel Identification Number
PCB	Polychlorinated Biphenyls
PAH	Polycyclic Aromatic Hydrocarbon
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Condition
SDS	Safety Data Sheet
SVOC	Semi-Volatile Organic Compound
SDG	Significant Data Gap
SQG	Small Quantity Generator
SEMS	Superfund Enterprise Management System
SWF/LF	Solid Waste Facilities/Landfill
TCE	Trichloroethylene, Trichloroethene
TPH	Total Petroleum Hydrocarbons
TSDF	Treatment, Storage or Disposal Facility
USDA	United States Department of Agriculture
USGS	United States Geological Survey
UST	Underground Storage Tank
VSQG	Very Small Quantity Generator
VOC	Volatile Organic Compound

## 1.0 Executive Summary

Environmental Consulting & Technology, Inc. (ECT) was retained by Weirs Creek Solar, LLC (the Client) to conduct a Phase I ESA in conformance with the scope and limitations of the ASTM Standard Practice E2247-16 (Forestland or Rural Properties) and the EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312) for the property located north of Nebo Road and east of US Highway 41A in Hopkins and Webster Counties in Kentucky. Any exceptions to, or deletions from, this practice are described in [Section 1.2.4](#) and [Section 2.5](#) of this report.

### 1.1 Property Description

The Subject Property encompasses 2,260 acres of primarily agricultural land in Hopkins and Webster Counties in Kentucky and is being proposed for development of the Weirs Creek Solar Project.

A USGS Topographic Map is provided as [Figure 1](#) and a Subject Property Overview is provided as [Figure 2](#). Any RECs identified as part of this assessment are depicted on [Figure 3](#) unless otherwise noted.

### 1.2 Evaluation

#### 1.2.1 Findings and Opinions

Based on the information revealed as part of this Phase I ESA, ECT has identified the following findings and offers the below opinions as part of this Phase I ESA:

- **Historical Onsite Oil and Gas Exploration (REC #1):** Information obtained from the Kentucky Geological Survey (KGS) indicated oil and gas production has been present throughout the Subject Property since at least the 1960s. Records obtained from the KGS indicate the three D&A wells were completed approximately 1-2 weeks after drilling commenced and all plugged on the same day of completion. The oil well was completed on November 5, 1986, approximately 1 week after drilling commenced. The oil well was abandoned and plugged on April 12, 1996 after producing oil. **Based on the likely presence of hazardous substances and/or petroleum products in connection with a release to the environment associated with the use of the Subject Property for oil/gas exploration and production, it is the opinion of the EP that these findings constitute a REC. In the event that these areas cannot be avoided, these areas may require additional assessment activities in an effort to confirm the absence of adverse**

**impact. This identified REC is not considered applicable to the proposed development if they can be avoided.**

- **Long-Term Farm Dump Containing Petroleum Products (REC #2):** During the site reconnaissance, multiple large farm dumps were observed on the Donaldson farmstead south of the property buildings. The farm dumps appeared to contain general household refuse, hydraulic oil buckets, waste drums, household appliances, building materials, farm equipment, and scrap metal. In addition, several sporadic scrap metal piles, tire piles, and discarded ASTs were observed throughout the Donaldson farmstead. Significant staining was observed in areas of petroleum product and hazardous substance storage. Due to the extensive volume of refuse and debris, a thorough visual observation of the ground surface was not possible. According to a review of the historical sources, the farm dump has been present since at least 1998. **Based on the volume and contents of the farm dump, observed soil staining and poor housekeeping in other storage areas on the farmstead, and length of time on the Subject Property, it is likely the subsurface has been impacted by a release from the farm dump. Therefore, it is the opinion of the EP that the farm dump is considered a REC. In the event that these areas cannot be avoided, these areas may require additional assessment activities in an effort to confirm the absence of adverse impact. This identified REC is not considered applicable to the proposed development if they can be avoided.**
- **Underground and Surface Coal Mining (REC #3):** According to the Kentucky Energy and Environment Cabinet (KY EEC), Division of Mining Permit's (DMP) online KY Surface Mining Viewer, inactive mined out areas and permitted mine boundaries for both surface and underground mines were identified on the majority of the Subject Property and the surrounding area. According to the DMP, permit numbers 917-5013, 917-5015, and 917-5023 are all underground mines associated with the Dotiki Mine and have not been reclaimed. The two active mines, 917-5016 and 854-5032, are surface mines according to the DMP. Given that underground mines extend beneath and throughout the Subject Property, there is a concern for subsidence should an underground collapse occur. In addition to subsidence concerns, potential issues with mining include the use of fill material of unknown origin, the use of heavy equipment with possible spills of oils and/or fluids over time, abandoned mine drainage, and methane gas buildup in underground mines. Since reclamation has not been achieved for three mine permits present on the Subject Property and two mine

permits are still active, necessary regulatory standards have not been reached. **Based on the extensive underground and surface coal mining on the Subject Property and the surrounding area and that five mine permits present on the Subject Property have not been reclaimed, it is the opinion of the EP that this is considered a REC.**

The following BER has been identified as part of this assessment:

- **Historical Onsite Biosolid Application (BER#1):** According to the landowner interviews, an area of approximately 20 acres in a field located to the West of FM 1089 was treated with at least one biosolid application sometime in the late 1990s or early 2000s. The former landowner stated the source of the biosolid was a wastewater treatment plant. Neither current or former landowner is aware of the type, amount, or number of applications applied. Records were requested from the Kentucky Energy and Environment Cabinet, but there were no records available for the coordinates provided. Continuous biosolid application usually results in extensive permitting and other related paperwork. As there are no available records, this application was likely minimal. This, combined with the continued use of the property for crops since this application, likely minimizes the risk of contaminants. However, due to the potential risk of contaminants such as PFAS containing compounds, this reported biosolid application represents a BER.

### 1.2.2 Conclusion

Ms. Nicole Rockentine, Environmental Professional, has performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E2247-16 and the 30 CFR 312 (All Appropriate Inquiry) of the Subject Property, located north of Nebo Road and east of US Highway 41A in Hopkins and Webster Counties in Kentucky. Any exceptions to, or deletions from, this practice are described in Section 2.5 of this report. **This assessment has revealed no evidence of RECs, CRECs, and/or SDGs, with the exception of the following:**

- **REC #1: Historical oil/gas exploration on the Subject Property**
- **REC #2: Long-term farm dump containing petroleum products onsite**
- **REC #3: Underground and surface coal mining on Subject Property and surrounding area**

### 1.2.3 Additional Investigation

In accordance with ASTM E2247-16, the EP shall provide an opinion as to whether additional investigation to detect the presence of hazardous substances or petroleum products is warranted. This opinion does not render the assessment incomplete, nor is it intended to represent a recommendation. **Based on the findings of this assessment, it is the opinion of the EP that additional investigation is warranted for the Subject Property.**

### 1.2.4 Data Failure and Data Gaps

According to ASTM E2247-16, a data failure occurs when all the standard historical sources that are reasonably ascertainable and likely to be useful have been reviewed and yet the objectives have not been met. Pursuant to ASTM E2247-16, historical sources are required to identify the use of the property at five-year intervals back to first developed use or 1940, whichever is earlier. A data failure is a type of data gap (defined below).

A data gap is defined by ASTM E2247-16 as a lack or inability to obtain information required by the practice despite good faith efforts by the Environmental Professional to gather such information. Data gaps may result from incompleteness in any of the activities required by the practice, including, but not limited to the site reconnaissance and interviews.

The following data failures and/or data gaps have been identified as part of this assessment:

- No historical coverage was available for the Subject Property between 1955 and 1982. However, based on the other available aerial photographs and topographic maps, ECT believes the Subject Property remained primarily agricultural with sparse residences and farmsteads during that time. Therefore, ECT does not believe the gaps in the historical sources are considered a significant data gap to the conclusions of this assessment.



## 2.0 Purpose and Scope of Work

This report documents the methods and findings of the Phase I ESA performed in conformance with the scope and limitations of ASTM Standard Practice E2247-16 and the EPA Standards and Practices for All Appropriate Inquiries (40 CFR 312) for the property located to the north of Nebo Road and east of US Highway 41A in Hopkins and Webster Counties in Kentucky.

### 2.1 Scope of Work

The purpose of ASTM Practice E2247-16 is to define good commercial and customary practice in the United States of America for conducting an environmental site assessment of forestland or rural properties with respect to the range of contaminants within the scope of the CERCLA (42 U.S.C. §9601) and petroleum products. Any exceptions to, or deletions from, this practice are described in Section 2.4 of this report.

The Phase I ESA conducted by ECT included, but was not limited to, the following services:

- A site visit of the Subject Property to look for evidence of a release(s) or potential release of petroleum products and hazardous materials;
- Observations of adjacent properties and the vicinity of the Subject Property;
- Interviews with individuals familiar with the Subject Property, as available;
- Review of regulatory agency and local files, as necessary;
- Review of historical documents, as available; and
- Preparation of a report presenting ECT's findings, including a summary of conclusions and recommendations, if requested.

The objective of Phase I ESAs is to provide all appropriate inquiries into the previous ownership and uses of the property consistent with good commercial and customary practice as defined at 42 U.S.C. §9601(35) (B) to permit a user to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA liability (a.k.a., landowner liability protections). The goal of Phase I ESAs is to identify current, historical, and controlled RECs and *de minimis* conditions in connection with the property, to the extent feasible pursuant to the processes prescribed in the ASTM E2247-16 guidelines. The terms current, historical, and controlled RECs and *de minimis* conditions are defined by ASTM in the following paragraphs.

A REC is the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. The term includes hazardous substances or petroleum products even under conditions in compliance with laws.

A controlled REC is a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).

A historical REC is a past release of any hazardous substances or petroleum products that has occurred in connection with the Subject Property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the Subject Property to any required controls.

A *de minimis* condition is a condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be *de minimis* conditions are not current, historical, or controlled RECs.

## **2.2 Continued Viability of Phase I ESA**

According to ASTM Standard Practice E2247-16, a Phase I ESA meeting or exceeding the standard and completed less than 180 days prior to the date of acquisition of the property or (for transactions not involving an acquisition) the date of the intended transaction is presumed to be valid. If within this period the assessment will be used by a User different than the User for whom the assessment was originally prepared, the subsequent User must also satisfy the User's Responsibilities outlined in Section 6 of ASTM Standard Practice E2247-16.

A Phase I ESA meeting or exceeding ASTM E2247-16 requirements and for which the information was collected or updated within one year prior to the date of acquisition of the property or (for transactions not involving an acquisition) the date of the intended transaction may be used provided

that the below detailed components of the inquiries were conducted or updated within 180 days of the date of purchase, or the date of the intended transaction. The initial collection or inquiry dates for each required component as applicable to this report have been detailed in the table below.

REPORT COMPONENT	INITIAL DATE OF COLLECTION OR INQUIRY
(i) Interviews with Owners, Operators, and Occupants	April 10 and 12, 2023
(ii) Searches for Recorded Environmental Liens	May 1, 2023
(iii) Reviews of Federal, Tribal, State, and Local Government Records	March 30, 2023
(iv) Visual Inspection of the Property and of Adjoining Properties	April 12, 2023
(v) Declaration by the EP responsible for the assessment or update	June 2, 2023

### 2.3 Significant Assumptions

ECT assumes that the information provided by the regulatory database electronic search report provider, the regulatory agencies, the local unit of government, and the current Subject Property owner(s) is true and reliable.

### 2.4 Limitations and Exceptions

The opinions and recommendations presented in this report are based upon the scope of services, information obtained through the performance of the services, and the schedule as agreed upon by ECT and the party for whom this report was originally prepared. This report is an instrument of professional service and was prepared in accordance with the generally accepted standards and level of skill and care under similar conditions and circumstances established by the environmental consulting industry. No representation, warranty, or guarantee, expressed or implied, is intended or given. To the extent that ECT relied upon any information prepared by other parties not under contract to ECT, ECT makes no representation as to the accuracy or completeness of such information. This report is expressly for the sole and exclusive use of the party for whom this report was originally prepared for a particular purpose. Only the party for whom this report was originally prepared and/or other specifically named parties have the right to make use of and rely upon this report. Reuse of this report or any portion thereof for other than its intended purpose, or if modified, or if used by third parties, shall be at the user's sole risk.

The findings presented in this report apply solely to site conditions existing at the time when ECT's assessment was performed. It must be recognized, however, that an ESA is intended for the purpose of determining the potential for contamination through limited research and investigative activities

and in no way represents a conclusive or complete site characterization. Conditions in other parts of the Subject Property may vary from those at the locations where data were collected. ECT's ability to interpret investigation results is related to the availability of the data and the extent of the investigation activities. As such, 100 percent confidence in ESA conclusions cannot reasonably be achieved.

ECT, therefore, does not provide any guarantees, certifications, or warranties that a property is free from environmental contamination. Furthermore, nothing contained in this document shall relieve any other party of its responsibility to abide by contract documents and applicable laws, codes, regulations, or standards.

## **2.5 Limiting Conditions and Deviations**

No limiting conditions and/or deviations were encountered as part of this Phase I ESA.

## **2.6 Special Terms and Conditions**

The scope of work for this Phase I ESA did not include testing of electrical equipment for the potential presence of PCBs, lead-based paint, or the assessment of natural hazards such as naturally occurring asbestos, radon, or methane gas, assessment of the potential presence of radionuclides, or assessment of non-chemical hazards such as the potential for damage from earthquakes or floods. This Phase I ESA also did not include an extensive assessment of the environmental compliance status of the Subject Property or of the businesses that have operated on-site, or a health-based risk assessment.

## **2.7 User Reliance**

This Phase I ESA was conducted for the use of and reliance by Weirs Creek Solar, LLC and their assignees and may be relied upon by these parties only. No use of the information contained in this report by others is permissible without receiving prior written authorization to do so from ECT. ECT is not responsible for independent conclusions, opinions, or recommendations made by others or otherwise based on the findings presented in this report.

## 3.0 Subject Property and Vicinity Descriptions

### 3.1 Subject Property Characteristics

A summary of the Subject Property is included in the table below.

<b>SUBJECT PROPERTY DETAILS</b>	
<b>Project Name</b>	Weirs Creek Solar Project
<b>Location</b>	Hopkins and Webster Counties, Kentucky
<b>Approximate Acreage</b>	2,260 Source: Client
<b>Current Use</b>	Primarily agricultural
<b>Proposed Use</b>	150-megawatt Weirs Creek Solar Project
<b>Areas of Environmental Interest</b>	Petroleum products and staining on Donaldson farmstead
<b>Observed Use of Hazardous Substances</b>	Petroleum products and herbicides on Donaldson farmstead
<b>UTILITY INFORMATION</b>	
<b>Heating/Cooling Source</b>	Electric
<b>Potable Water Source</b>	Unknown
<b>Sewage Disposal Provider</b>	Private Septic Systems
<b>REGULATORY INFORMATION</b>	
<b>Regulatory Database Listings</b>	ICIS, PCS FACILITY, ECHO, FRS, HIST PCS ENF, HIST PCS FACILITY, INACTIVE PCS, NPDES-KY, SWF/LF-KY
<b>Activity and Use Limitations (AULs)</b>	None identified
<b>Environmental Liens</b>	None identified

The Subject Property encompasses approximately 2,260 acres of primarily agricultural land in Hopkins and Webster Counties in Kentucky and is being proposed for development of the Weirs Creek Solar Project. A USGS Topographic Map is provided as [Figure 1](#) and a Subject Property Overview is provided as [Figure 2](#).

The Subject Property is comprised of approximately 2,260 acres of agricultural land situated in an area of agricultural development with sparse farmsteads and associated outbuildings between the cities of Nebo and Providence. The Webster-Hopkins county line transects the northwestern portion of the Subject Property in a southwest-northeast direction, with a majority of the property existing within Hopkins County. The home rule-class city of Nebo is located approximately 0.94 miles southeast of the eastern border of the Subject Property. The home rule-class city of Providence is

located approximately 2.89 miles west of the western border. The home rule-class city of Dixon is located approximately 5.65 miles to the north, and the city of Beulah is located approximately 7.79 miles to the south.

### 3.2 Vicinity Characteristics

A summary of the surrounding properties is included in the table below.

DIRECTION	OCCUPANT(S)/USE(S)	REGULATORY DATABASE LISTING(S)
<b>North</b>	Agricultural and sparse residences	None
<b>South</b>	South: Nebo Road/ Alt 41. Agricultural, wooded, and residential. Southwest: Island Creek Coal Co. Agricultural, wooded, and residential.	COAL MINES - KY
<b>East</b>	East: Agricultural and sparse residences Southeast: Agricultural land and the city of Nebo.	None
<b>West</b>	Agricultural and sparse residences	None

Refer to [Section 6.0](#) for a discussion of regulatory database listings.

### 3.3 Physical Setting

The physical setting of the Subject Property is described in the table below.

<b>TOPOGRAPHY</b>	
<b>USGS Topographic Quadrangle</b>	Earlington and Nebo, Kentucky
<b>Approximate Elevation</b>	368 ft. above sea level
<b>Nearest surface water</b>	Weirs Creek on the southern portion
<small>Source: Database report</small>	
<b>SOILS</b>	
<b>Soil Classification</b>	Hosmer, Bonnie, Taxadjunct, Belknap, Zanesville, Robbs, Sharon, Frondorf, and Grenada Series
<b>Soil Type</b>	Silt loam
<b>Drainage Class</b>	Poorly drained to well drained
<small>Source: Database report</small>	
<b>GEOLOGY</b>	
<b>Physiographic Area/Region</b>	Green River–Southern Wabash Lowlands in the Interior River Valleys and Hills
<b>Geologic Formation</b>	Middle to Upper Pennsylvanian age Sturgis Formation and Pleistocene to Holocene age Alluvium
<b>Bedrock</b>	Sand, sandstone, silt, and siltstone
<small>Sources: USGS and EPA</small>	
<b>HYDROLOGY</b>	
<b>Estimated Groundwater Flow<sup>1</sup></b>	Generally north
<b>Estimated Depth to Groundwater</b>	Approximately 23-55 feet below ground surface
<small>Sources: Database report and Kentucky Groundwater Data Repository</small>	

1. Groundwater flow direction can be influenced by the presence of wetland features, surface topography, recharge and discharge areas, inconsistencies in the types and location of subsurface soils, and proximity to water pumping wells.

## 4.0 User Provided Information

The User of this report is Weirs Creek Solar, LLC. Mr. Jason Andrews, Project Director for Weirs Creek Solar, LLC, provided a completed User Questionnaire as part of this assessment. The responses to the questionnaire have been summarized in the table below. A copy of the completed User Questionnaire is included in the appendices ([User Provided Information](#)).

QUESTIONS	YES	NO	COMMENTS
Did a search of recorded land title records (or judicial records where appropriate <sup>2</sup> ) identify any environmental liens filed or recorded against the property under federal, tribal, state, or local law?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Date of search: May 1, 2023
Did a search of recorded land title records (or judicial records where appropriate) identify any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the property and/or have been filed or recorded against the property under federal, tribal, state, or local law?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Date of search: May 1, 2023
Do you have any specialized knowledge or experience related to the property or nearby properties?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Does the purchase price being paid for this property reasonably reflect the fair market value of the property?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lease?: Yes
Are you aware of any commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

### 4.1 Reason for Performing Phase I ESA

The reason for performing this Phase I ESA is to satisfy CERCLA requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser LLPs.

2. In certain jurisdictions, federal, tribal, state, or local statutes, or regulations specify that environmental liens and AULs be filed in judicial records rather than land title records. In such cases, judicial records must be searched for environmental liens and AULs.



## 5.0 Historical Review

### 5.1 Historical Sources Reviewed

ECT reviewed the following reasonably ascertainable standard historical sources, as described in ASTM E2247-16, to determine the previous uses and occupancies of the Subject Property, adjoining properties, and surrounding area.

Aerial photographs were obtained from EnviroSite Corporation (EnviroSite). Additionally, ECT reviewed available aerial photographs on Google Earth™. The current USGS 7.5-minute topographic map quadrants are *Earlington and Nebo, Kentucky*, which are dated 2022. Aerial photographs and topographic maps were reviewed on April 5, 2023.

Copies of the available aerial photographs and topographic maps are provided in the appendices ([Historical Sources](#)). The table below summarizes available historical source coverage for the Subject Property.

Dates	Aerial Photographs	Topographic Maps	Other Sources
No Coverage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Prior to 1940	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1940 - 1945	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1946 - 1950	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1951 - 1955	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1956 - 1960	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1961 - 1965	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1966 - 1970	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1971 - 1975	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1976 - 1980	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1981 - 1985	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1986 - 1990	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1991 - 1995	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1996 - 2000	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2001 - 2005	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2006 - 2010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2011 - 2015	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2016 - 2020	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Current	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

## 5.2 Subject Property Historical Summary

Based upon review of the available historical sources, a chronological summary of historical data for the Subject Property is included below.

DATES	SUBJECT PROPERTY DESCRIPTION/USE	SOURCE(S)
1907 1909	The Webster-Hopkins county line is in the northern portion of the Subject Property. Several roads are located throughout the property including Nebo Road along the southern border. Small structures are shown throughout the Subject Property along or near the end of roads. Greenwood School is identified in the northeast corner of the property and additional schools or churches are located in the northwest and south along Nebo Road.	Topographic maps
1952	A majority of the property is agricultural land with sparse farmsteads and residences. A small wooded area is located in the central portion. Several roads and creeks or drainage ditches are present throughout. The land owned by Donaldson farms is obtained by the family of Mr. Tom Logan in the 1950s.	Aerial photographs Interviews
1954	Compton Cemetery is shown in the north central portion. Several ponds are shown throughout and marshland in the central area of the Subject Property. A pipeline is depicted in the small western tract, traveling from southwest to northeast, and transects the northwestern portion. Small structures are located along or at the end of roads. Several drainage ditches are present throughout the Subject Property.	Topographic maps
1963- 1965	Oil and gas exploration is initiated on the Subject Property according to Kentucky Geological Survey (KGS).	Regulatory Agency Records
1973	The land owned by Sami LLC and Townsend Farms Inc is obtained by the family of Mr. Mike Donaldson.	Interviews
1982 1983 1986 1992 1993	The property remains primarily agricultural with sparse farmsteads. Several ponds are present throughout the Subject Property. An oil well was advanced in the northern portion of the Subject Property.	Aerial photographs Regulatory Agency Records
1998 2004 2006 2008	A transmission line is shown in the northern portion of the largest tract, traveling in a primarily east-west direction. Evidence of a farm dump is observed on the Donaldson farmstead, located in the central portion of the Subject Property. The land owned by Mitchell Boys farms is worked by Mr. Micah Mitchell, who later buys the land.	Aerial photographs Interviews
2010 2012- 2014 2016 2018- 2022 2023	Another transmission line is shown throughout the central portion extending from the southwest to the northeast, intersecting the property in multiple locations. Mr. Mitchell obtains the land he had worked on for several years in 2020.	Aerial photographs Topographic maps Site Reconnaissance Interviews

Refer to [Section 7.2](#) for a discussion on onsite oil/gas exploration.

### 5.3 Surrounding Area Historical Summary

Based upon review of the available historical sources, a chronological summary of historical data for the surrounding area is included below.

DATES	SURROUNDING PROPERTY DESCRIPTION/USE	SOURCES(S)
1907 1909	Several improved and unimproved roads, small structures along those roads, and creeks are present throughout the surrounding properties.	Topographic maps
1952	The surrounding area is primarily agricultural land with residences and farmsteads located along roadways. A large wooded area in the central area and smaller wooded areas surround the Subject Property. Several creeks are present flowing to or from the Subject Property including within the large wooded area.	Aerial photographs
1954	Corinth Church is depicted to the northwest of the Subject Property, a racetrack is located to the south. A pipeline is present in Hopkins County south of the county line running southwest to northeast through the Subject Property.	Topographic maps
1969 1982 1983 1992 1993	The area remains primarily agricultural with sparse residences and farmsteads. Evidence of surface mining is depicted southwest of the Subject Property.	Aerial photographs
1998 2004 2006 2008	A transmission line is shown to the north, traveling in a primarily east-west direction.	Aerial photographs
2010 2012- 2014 2016 2018- 2021	Another transmission line is shown to the southwest, traveling through the Subject Property in a northeastern direction.	Aerial photographs Topographic maps
2022 2023	Corinth Baptist Church Cemetery is shown on the northwestern border. The surrounding area remains primarily agricultural.	Topographic maps Site reconnaissance

Refer to [Section 7.3](#) for a discussion on coal mining.

### 5.4 Prior Environmental Reports

ECT was not provided with and did not encounter any prior environmental reports completed for the Subject Property.

## 6.0 Regulatory Database Review

### 6.1 Database Finding Summary

ECT contracted EnviroSite Corporation (EnviroSite) to conduct a search of publicly available information from federal, state, tribal, and local environmental record sources in accordance with ASTM E2247-16. Data gathered during the regulatory database search is compiled by EnviroSite into a government records report (i.e., database report). This government records report, dated March 30, 2023, was reviewed by ECT on April 5, 2023.

The standard databases researched in accordance with ASTM E2247-16 requirements are listed below.

Standard Environmental Record Sources (where available)	Approximate Minimum Search Distance (miles)
<b>Federal Sources</b>	
NPL list	1.0
Delisted NPL list	0.50
CERCLIS list	0.50
CERCLIS-No Further Remedial Action Planned (NFRAP) list	0.50
RCRA Corrective Action (CORRACTS) facilities list	1.0
RCRA non-CORRACTS TSD facilities list	0.50
RCRA generators list	SP and Adjoining
Federal institutional control/engineering control registries	SP
Federal Emergency Response Notification System (ERNS) list	SP
<b>State Sources</b>	
<i>State- and tribal-equivalent NPL</i>	1.0
<i>State- and tribal-equivalent CERCLIS</i>	0.50
State and tribal landfill and/or solid waste disposal site lists	0.50
State and tribal leaking storage tank lists	0.50
State and tribal registered storage tank lists	SP and Adjoining
State and tribal institutional control/engineering control registries	SP
State and tribal voluntary cleanup sites	0.5
State and tribal Brownfield sites	0.50
SP = Subject Property	
<i>Italicized = State and tribal lists of hazardous waste sites identified for investigation or remediation</i>	

The database report, which includes a search of standard and additional record sources, identified the following hits for the Subject Property and/or surrounding area.

For full details pertaining to the databases searched, refer to the database report included in the appendices ([Regulatory Database Report](#)).

### Regulatory Report Summary

Database	Search Radius	Target Property	Within 0.12mi	0.12mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
FRS	0	3	0	0	0	0	3
HIST PCS ENF	0	1	0	0	0	0	1
HIST PCS FACILITY	0	1	0	0	0	0	1
ICIS	0	2	0	0	0	0	2
INACTIVE PCS	0	0	1	0	0	0	1
PCS FACILITY	0	1	0	0	0	0	1
ECHO	0	1	0	0	0	0	1
COAL MINES - KY	0.25	0	0	1	0	0	1
HIST NPDES - KY	0	1	0	0	0	0	1
NPDES - KY	0	1	0	0	0	0	1
SWF/LF - KY	0.5	1	0	0	0	0	1

### 6.2 Subject Property Listings

The Subject Property was listed on the following regulatory databases.

#### Subject Property Summary

Database	Site Name	Address	Dist. (mi) /		Elev. diff. (ft)	Comments
			Dir.			
ICIS, PCS FACILITY	N/R	37.41259, -87.681389, NEBO (HOPKINS), KY, 42441	0.00/-		0	See Below
ECHO, FRS, HIST PCS ENF, HIST PCS FACILITY, ICIS, INACTIVE PCS, NPDES - KY,	WEBSTER COUNTY COAL LLC (917-5015)	JCT OF KY 1089 & GRACE CARTWRIGHT, PROVIDENCE, KY, 42450	0.00/-		0.0	Refer to Section 7.3 for a discussion on mining.
FRS, HIST NPDES - KY, SWF/LF - KY	MICKEYD INC/ DONALDSON FARMS	2105 DONALDSON RD, NEBO (HOPKINS)   Nebo (Hopkins), KY, 42441	0.00/-		0.0	See Below

Database	Site Name	Address	Dist. (mi) / Dir.	Elev. diff. (ft)	Comments
FRS	WC WELDON ESTATE	HOKET NEBO RD, PROVIDENCE (WEBSTER), KY, 42450	0.00/-	0.0	Due to the nature of the listing and the lack of violations, this is not likely to be of environmental concern to the Subject Property.

**N/R, 37.41259, -87.681389, NEBO (HOPKINS), KY:** The Nebo-Providence Pole Replacement Project was issued a wastewater discharge permit in May 2021. The permit allows discharge to Weirs Creek for highway and street construction. Based on the lack of violations or releases, this discharge permit does not pose an environmental concern to the Subject Property.

**Mickey D Inc/ Donaldson Farms (2105 Donaldson Road):** Donaldson Farms had a permitted solid waste and landfill permit in relation to wastewater sludge composting, between February 24, 1997 and February 3, 2015 when it was revoked. The facility also has an inactive permit that was open between May 7 and 13, 2021. According to the landowner interview with the current and former owner of Donaldson Farms, at least one biosolid application for compost occurred between approximately 1997 and 2000. Refer to [Section 7.1](#) for a discussion on biosolids.

### 6.3 Surrounding Properties

Each surrounding property listing identified within the searched radius of the Subject Property was evaluated using the EP's judgment to determine its potential impact to the Subject Property. The distance of the listing from the Subject Property was included in ECT's evaluation, as well as the listing details, the regional topography, and the estimated groundwater flow. Based on ECT's evaluation, surrounding properties of potential environmental significance in relation to the Subject Property have been identified in the table below.

#### Surrounding Properties Summary

Database	Site Name	Address	Dist. (mi) / Dir.	Elev. diff. (ft)	Comments
COAL MINES - KY	Island Creek Coal Co - Providence 1	37.395086, -87.710604, KY	0.18/WSW	43.4	Refer to Section 7.3 for a discussion on mining.

#### **6.4 Unmappable Properties**

Envirosearch also provides an unmappable (or “orphan”) summary list which identifies properties that cannot be mapped due to poor or inadequate address information. None of the orphan sites identified by Envirosearch were determined to pose an environmental concern to the Subject Property.

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## 7.0 Regulatory Agency Records Review

### 7.1 State Environmental Agency

Based on the responses from the Subject Property owner interviews, discussed in [Section 8.1](#), ECT requested information pertaining to biosolid application on the Subject Property from the Kentucky Energy and Environment Cabinet (KY EEC) on April 12, 2023. According to the regulatory database report, Donaldson Farms had a permitted solid waste and landfill permit in relation to wastewater sludge composting, between February 24, 1997 and February 3, 2015. The KY EEC stated there were no records available for the location provided. Continuous biosolid application typically results in extensive permitting and other related paperwork. As there are no available records, this application was likely minimal. This, combined with the continued use of the property for crops since this application, likely minimizes the risk of contaminants. However, due to the potential risk of contaminants such as PFAS containing compounds, this reported biosolid application represents a BER.

### 7.2 Oil and Gas Pipelines/Wells

ECT reviewed the National Pipeline Mapping System (NPMS) to evaluate if pipelines are located at the Subject Property. One active natural gas pipeline operated by Texas Gas Transmission, LLC traverses a small section of the northern portion of the largest tract in a southwest-northeast direction. No accidents or incidents were reported on-site or within close proximity to the Subject Property.

In addition, ECT reviewed oil and gas geospatial data from the KGS on April 5, 2023. A total of four wells were installed across the Subject Property, including three dry and abandoned wells and one oil well. These well types have been defined below.

- *Dry & abandoned (D&A)* refers to wells which are not a productive well or service well. The U.S. EPA defines a *dry hole* as "Any well that does not produce oil or gas in commercial quantities. A dry hole may flow water, gas, or even oil, but not enough to justify production."
- *Oil wells* refers to wells completed as oil (including abandoned producers).

Records obtained from the KGS indicate the three D&A wells were completed approximately 1-2 weeks after drilling commenced and all plugged on the same day of completion. The oil well was completed on November 5, 1986, approximately 1 week after drilling commenced. The oil well was abandoned and plugged on April 12, 1996 after producing oil.



Oil and gas exploration and production activities typically involve multiple centralized pits which receive produced fluids (i.e., brine), and/or drilling muds (i.e., “mud”) from wells, leases, or fields. According to the U.S. EPA, these pits are known as brine disposal pits, mud disposal pits, or combined mud/brine disposal pits, and are defined as excavated or above-grade earthen impoundments located away from oil/gas operations from which they receive brine and/or mud. These impoundments may be lined or unlined. Brine generally consists of injection water, oil, and salts. Drilling mud generally consists of a water or oil base mixed with soil cuttings. Both byproducts often contain elevated concentrations of crude oil, petroleum hydrocarbons, metals, and/or chloride. For the sake of brevity, these pits are collectively referred to as “disposal pits.”

**Based on the likely presence of hazardous substances and/or petroleum products in connection with a release to the environment associated with the use of the Subject Property for oil/gas exploration and production, it is the opinion of the EP that these findings constitute a REC. In the event that these areas cannot be avoided, these areas may require additional assessment activities in an effort to confirm the absence of adverse impact. This identified REC is not considered applicable to the proposed development if they can be avoided.**

API #	LOCATION	TYPE	SOURCE	COMMENTS
R00055812	37.430364°, -87.696399°	Dry & Abandoned	EEC	Owned by Baker Heirs Farm and operated by Paul H Maier. The drilling of this oil well commenced on January 26, 1964, completed on February 10, 1964 and plugged the same day.
R00056056	37.405681°, -87.662721°	Dry & Abandoned	EEC	Owned by Grace Townsend and operated by Paul H Maeir. The drilling of this oil well commenced on April 25, 1965, completed on May 11, 1965 and plugged the same day.
R00058117	37.396042°, -87.674078°	Dry & Abandoned	EEC	Owned by Grace Townsend and operated by Preston Oil Company. The drilling of this well commenced on October 9, 1963, completed on October 18, 1963 and plugged the same day.
R00066958	37.418229° , -87.683175°	Oil	EEC	Owned by Young Estate and operated by Reynold Resources, Inc. The drilling of this oil well commenced on October 28, 1986 and completed on November 5, 1986. The well produced oil until April 12, 1996 when it was plugged.

### 7.3 **Mining and Mineral Exploration**

According to the KY EEC, Division of Mining Permit's (DMP) online KY Surface Mining Viewer, inactive mined out areas and permitted mine boundaries for both surface and underground mines were identified on the majority of the Subject Property and the surrounding area. A list of permitted mine boundaries present on the Subject Property was retrieved from publicly available data provided by the State of Kentucky. A total of six coal mine permits are located on or within the Subject Property. The status of the permits includes active mine (5) and inactive mine (1). Active mines refer to mines with a valid permit only and does not mean that the mine is actively producing coal. Inactive mines are permits that have been reclaimed, forfeited, or abandoned. The maps available through the KY EEC's KY Mine Mapping Information System do not depict any active mines on the Subject Property.

The mine permits identified on the Subject Property were searched on the Surface Mining Information System (SMIS) website. The inactive mine permit, number 854-5027, was for an underground mine and was released in 2000, indicating this mine has been reclaimed. Permit numbers 917-5015 and 917-5023 are active with a status of reclamation only as of 2000 and 2010, respectively, indicating they are in the process of being reclaimed. Both permit numbers are associated with the Dotiki Mine, an extensive underground coal mine. Permit number 917-5016 and 917-5013 are also associated with the Dotiki Mine with active statuses of actively producing and active temporary cessation as of 2000, respectively. Active temporary cessation status means the mine is not actively producing and infrastructure has been disassembled; however, reclamation has not been achieved. Permit number 854-5032 is associated with the Warrior Coal-Cardinal mine, an underground coal mine. The status of this permit is active operations as of 2001.

According to the DMP, permit numbers 917-5013, 917-5015, and 917-5023 are all underground mines associated with the Dotiki Mine and have not been reclaimed. The two active mines, 917-5016 and 854-5032, are surface mines according to the DMP. The horizontal extents of the mine permits is depicted on [Figures 2 and 3](#).

Given that underground mines extend beneath and throughout the Subject Property, there is a concern for subsidence should an underground collapse occur. In addition to subsidence concerns, potential issues with mining include the use of fill material of unknown origin, the use of heavy equipment with possible spills of oils and/or fluids over time, abandoned mine drainage, and methane gas buildup in underground mines. Since reclamation has not been achieved for three mine permits present on the Subject Property and two mine permits are still active, necessary regulatory standards have not been reached.

**Based on the extensive underground and surface coal mining on the Subject Property and the surrounding area and that five mine permits present on the Subject Property have not been reclaimed, it is the opinion of the EP that this is considered a REC.**

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## 8.0 Interviews

### 8.1 Past and Present Owners

According to the county, the Subject Property is owned by five landowners, three of whom contact information was provided. ECT made reasonable attempts to interview each of the three landowners with contact information via telephone between April 10, 2023, and April 12, 2023. The responses generally indicated that the Subject Property has been used primarily for agricultural purposes dating back to at least the 1950s.

The land has been used to grow crops for multiple generations. There are a few houses and associated outbuildings with electricity and septic systems that date back to the 1980s on the Townsend Farms property. Some of the properties have grain bins. A majority of the fields have been tilled. A pipeline transverses multiple properties.

Two small cemeteries are located on the Subject Property, one off of Schmetzer Crossing Road and the other off of Donaldson Road. Both were small, family owned cemeteries that date back to the 1800s. Due to the small size and the age of these cemeteries, they are not likely to be of environmental concern to the Subject Property.

During landowner interviews, Mr. Tom Logan was identified as the former owner of a portion of Mr. Mike Donaldson's farm. According to Mr. Logan, at least one biosolid application for compost between 1997 and 2000 occurred on approximately 20 acres of land. Mr. Logan stated some of this biosolid application was sourced from a local water treatment plant. Upon multiple interviews with both parties, no documentation was found and the timeframe, amount, number of applications, and specific source was not known to either landowner. The location was confirmed to be a field located to the west of FM 1089, which is noted on [Figure 2](#). Additional records were requested regarding the biosolid application from the KY EEC, which is discussed in [Section 7.1](#).

Additional landowner interview notes and completed questionnaires are included in the appendices ([Owner Interview Documentation](#)).

## 8.2 State and/or Local Government Officials

The following state and/or local government officials were interviewed as part of this assessment:

<b>Agency:</b>	Hopkins County Health Department
<b>Contact Name:</b>	Mr. John. D. Montgomery
<b>Title:</b>	Not Specified
<b>Method:</b>	Emails on March 31 and April 5, 2023
<b>Comments:</b>	The health department does not have any records or information on the Subject Property.

<b>Agency:</b>	Webster County Health Department
<b>Contact Name:</b>	Mr. Brandon Chandler
<b>Title:</b>	Environmentalist
<b>Method:</b>	Emails on March 31 and April 4, 2023
<b>Comments:</b>	No records are available regarding the Subject Property.

<b>Agency:</b>	Providence City Fire Department
<b>Contact Name:</b>	Chief Steve Burns and Ms. Tiffany Conrad
<b>Title:</b>	Chief and Unspecified
<b>Method:</b>	Emails on March 31, April 4 and April 12, 2023, a phone call on April 12, 2023
<b>Comments:</b>	Emails were sent to Chief Steve Burns, with no reply. A phone call was made to the city which specified that records should be sent for Ms. Tiffany Conrad, so an additional email was sent. No response was received as of the date of this report.

<b>Agency:</b>	Nebo Fire & Rescue
<b>Contact Name:</b>	Mr. Steve Ashby
<b>Title:</b>	Not Specified
<b>Method:</b>	Emails on March 31 and April 4, and a voicemail on April 12, 2023
<b>Comments:</b>	Two emails were sent to Mr. Steve Ashby, and a voicemail was left at the department phone number. No response was received as of the date of this report.

Copies of state and/or local government correspondence and any provided documents are included in the appendices ([State/Local Interview Documentation](#)).

## 9.0 Site Reconnaissance

RECONNAISSANCE OVERVIEW	
<b>Site Reconnaissance Date:</b>	April 12, 2023
<b>ECT Assessor(s) Name &amp; Title:</b>	Mr. Sam Lucente, Project Manager
<b>Escort &amp; Relationship to Property:</b>	None
<b>Methodology:</b>	Automobile reconnaissance via public roadways and available access roads with closer walkovers of identified areas of environmental interest unless otherwise disclosed as a limiting condition (see below; refer to <a href="#">Section 2.5</a> ).
<b>Access Limitations:</b>	None
SUBJECT PROPERTY CONDITIONS	
<b>Weather:</b>	Sunny 60°F
<b>General Topography:</b>	Flat
<b>Current Use:</b>	Agricultural and residential
<b>Areas of Environmental Interest:</b>	Drums and totes, ASTs, significant staining, and farm dump
<b>Roads and Corridors:</b>	Nebo Rd along the southern boundary; Donaldson Rd and Greenwood Rd along the eastern boundary; Old Stanhope Rd. along the northern portion of the Subject Property; and two private access roads traversing the southern and eastern portion of the Subject Property from Nebo Rd and Donaldson Rd
<b>Other Transportation Corridors:</b>	None identified

In accordance with ASTM E2247-16, the EP conducted a review of aerial photographs, regulatory records, and information obtained from interviews prior to the completion of the reconnaissance. Based on the EP's review of these data sources, areas of environmental interest (if any) were identified and discussed with field personnel prior to the reconnaissance. The EP was in contact with field personnel, who transmitted photographs, video recordings, and/or live video feed, during the reconnaissance, and provided further guidance as necessary.

### 9.1 Subject Property Reconnaissance Summary

Field observations, as noted in the table below, are included on [Figure 2](#). Photographs taken during the reconnaissance are provided in the appendices ([Photographic Documentation](#)).

OBSERVATION	YES	NO
Hazardous Substances and/or Petroleum Products in Connection with Property Use	✓	<input type="checkbox"/>
Hazardous Substances and/or Petroleum Products not in Connection with Property Use	<input type="checkbox"/>	✓
Aboveground Storage Tanks (ASTs)	✓	<input type="checkbox"/>

OBSERVATION	YES	NO
Underground Storage Tanks (USTs), vent pipes, fill pipes, or access ways indicating USTs may be present	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Unidentified Substance Containers	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Strong, Pungent, or Noxious Odors	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Drains, Sumps, Clarifiers, or Pools of Liquid	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Electrical or Hydraulic Equipment Likely to Contain Fluids	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Stained Soil or Pavement	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pits, Ponds, Ditches, Streams, or Lagoons	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Stained or Stressed Vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Solid Waste Disposal	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Evidence of Fill Materials or Dumping of Debris	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Wastewater or Storm Water Discharges	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Wells	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Septic Systems	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other	<input checked="" type="checkbox"/>	<input type="checkbox"/>

## 9.2 Observed Hazardous Substances and/or Petroleum Products

### 9.2.1 In Connection with Property Use

During the site reconnaissance, numerous drums and poly totes were observed within the Donaldson farmstead, located in the central portion of the Subject Property. In addition to the drums and totes, large piles of refuse with commercial size containers of petroleum products or hazardous substances were observed on the Donaldson farmstead. The dumping is discussed further in [Section 9.8](#). The contents of the drums and totes are likely diesel fuel, pesticides, and/or oil lubricants associated with farming operations, according to the owner of the Donaldson farmstead. Significant oil staining and stressed vegetation was observed in drum and tote storage areas. The significant oil staining is discussed in further detail in [Section 9.5](#).

Several ASTs containing hazardous substances and/or petroleum products were observed within the Donaldson farmstead. These ASTs are described in further detail in [Section 9.3](#).

### 9.3 Aboveground Storage Tanks

Several ASTs containing water and hazardous substances or petroleum products were observed on the Donaldson farmstead. The ASTs ranged from approximately 250 to 10,000 gallons in capacity and contained fuel, oils, or water, according to the owner of the Donaldson farmstead. Only two of the ASTs were in use during the site reconnaissance, an approximately 2,000-gallon AST located within a barn and an approximately 3,000-gallon AST containing diesel located outside the same

barn. The remaining ASTs were either left in place with the contents or emptied and discarded on the farmstead. No stained soil or stressed vegetation was observed in the vicinity of the ASTs in use during the site reconnaissance.

Additionally, ASTs associated with an offsite oil/gas well was observed on the northern adjoining property. No evidence of a release was observed with these ASTs.

#### **9.4 Electrical or Hydraulic Equipment Likely to Contain Fluids**

In the United States, PCBs were commercially manufactured from 1929 until production was banned in 1979 by the Toxic Substances Control Act (TSCA). Due to their non-flammability, chemical stability, high boiling point and electrical insulating properties, PCBs were used in hundreds of industrial and commercial applications, such as electrical, heat transfer, and hydraulic equipment, such as transformers, elevators, and hydraulic lifts.

At the time of the reconnaissance, numerous pole-mounted transformers were observed along public roadways and near the residences on the Subject Property and adjoining properties. Several transformers contained labels indicating their PCB status; however, several did not. All transformers observed appeared to be in good condition with no evidence of leaks.

#### **9.5 Stained Soil or Pavement**

During the site reconnaissance, significant oil staining and stressed vegetation were observed in the vicinity of drums and totes storing petroleum products on the Donaldson farmstead. The drums were missing lids and had rusted holes in places causing contents to be released to the soil. The drums were not labeled; however, based on leaked contents and observations through rusted holes the contents appeared to be petroleum products.

In addition, significant oil staining was observed on the gravel beneath the fill port of a herbicide tote labeled as De-ester LV6. The staining near the totes and drums appeared due to poor housekeeping across the Donaldson farmstead.

#### **9.6 Pits, Ponds, Ditches, Streams, or Lagoons**

At the time of the inspection, Weirs Creek and several connected drainage ditches were observed traversing throughout the Subject Property. No staining or stressed vegetation was observed alongside the creek or drainage ditches.



## 9.7 Stained or Stressed Vegetation

As previously noted, significant oil staining and stressed vegetation were observed in the vicinity of drums and totes storing petroleum products on the Donaldson farmstead. Refer to [Section 9.5](#).

## 9.8 Solid Waste Disposal, Fill Materials, or Debris

During the site reconnaissance, multiple large farm dumps were observed on the Donaldson farmstead south of the property buildings. The farm dumps appeared to contain general household refuse, hydraulic oil buckets, waste drums, household appliances, building materials, farm equipment, and scrap metal. In addition, several sporadic scrap metal piles, tire piles, and discarded ASTs were observed throughout the Donaldson farmstead. Significant staining was observed in areas of petroleum product and hazardous substance storage, refer to [Section 9.5](#). Due to the extensive volume of refuse and debris, a thorough visual observation of the ground surface was not possible. According to a review of the historical sources, the farm dump has been present since at least 1998. **Based on the volume and contents of the farm dump, observed soil staining and poor housekeeping in other storage areas on the farmstead, and length of time on the Subject Property, it is likely the subsurface has been impacted by a release from the farm dump. Therefore, it is the opinion of the EP that the farm dump is considered a REC. In the event that these areas cannot be avoided, these areas may require additional assessment activities in an effort to confirm the absence of adverse impact. This identified REC is not considered applicable to the proposed development if they can be avoided.**

## 9.9 Wells

An oil well and pump jack were observed on the northern adjoining property. No evidence of staining or a release which could impact the Subject Property was observed during the site reconnaissance. Refer to [Section 7.2](#) for a discussion on historical oil/gas exploration on the Subject Property.

## 9.10 Other Field Observations

At the site of the site reconnaissance, two piles of material used for farm land application were observed along the northern portion of the Subject Property and northern adjoining boundary. The landowner reported this was likely chicken fertilizer. Active spreading activities of the materials were observed across several of the northern agricultural fields at the time of the inspection. No environmental concerns were noted with the application of fertilizers.

A small cemetery was observed within the the Donaldson farmstead on the Subject Property. According to Mr. Mike Donaldson, owner of the property, the cemetery has been on the property since the 1800s. Refer to Section [Section 8.1](#) for further discussion of the cemetery.

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## 10.0 Non-Scope Considerations

No non-scope considerations as defined in Appendix X5 of ASTM E2247-16 were included as part of this assessment.

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## 11.0 References

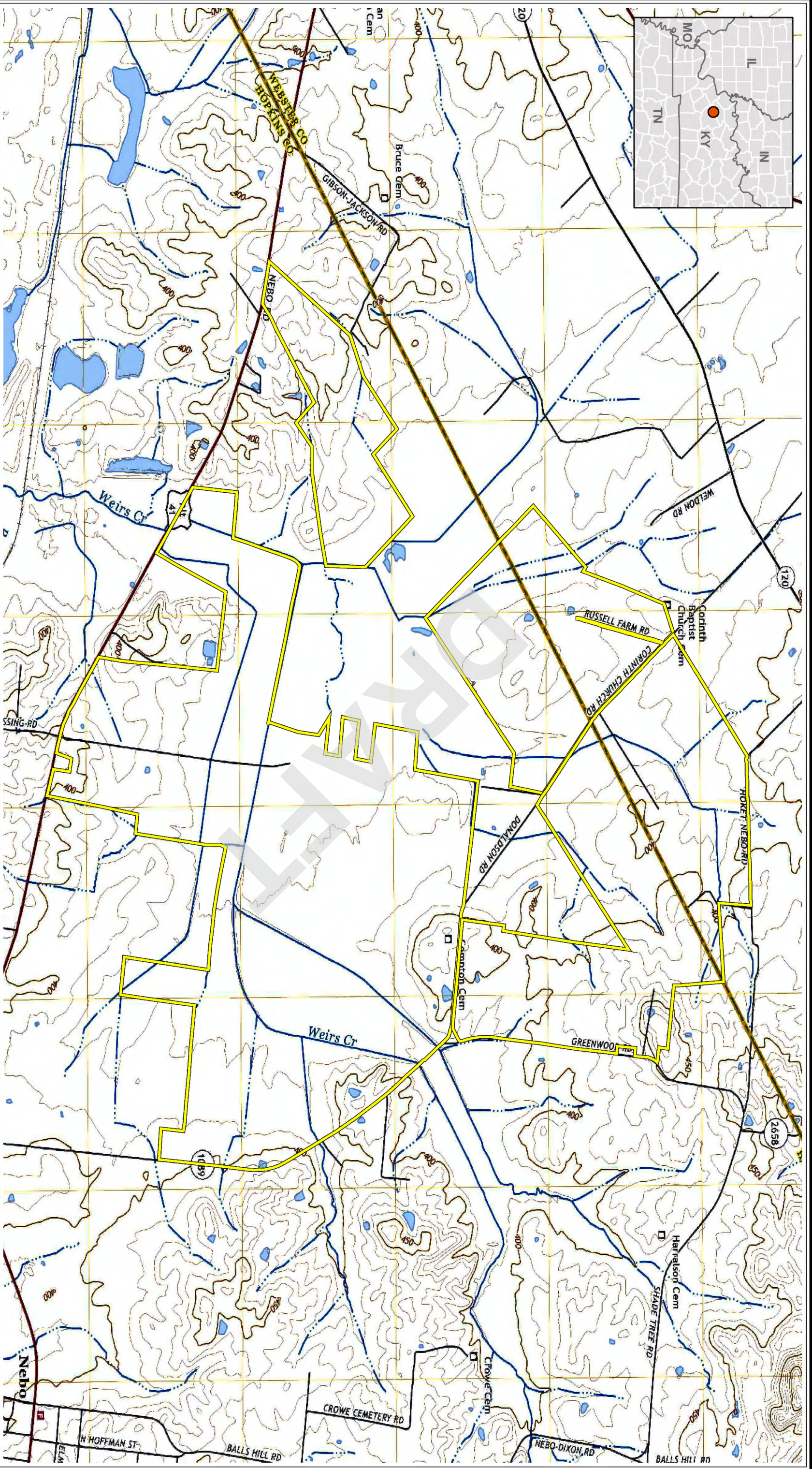
REFERENCED ITEM OR AGENCY	PUBLICATION OR INQUIRY DATE(S)	SOURCE
Aerial Photographs	March 30, 2023	Envirosite
	2021	Google Earth™
Depth to Groundwater Information	April 5, 2023	Kentucky Geological Survey
Environmental Lien/AUL Search	May 1, 2023	Not Provided
Fire Department(s)	March 31, April 4 and 12, 2023	Providence City and Nebo Fire Departments
Geology Information	April 5, 2023	EPA
Health Department(s)	March 31 and April 4, 2023	Webster County and Hopkins County Health Departments
Mining Information	April 5, 2023	Kentucky Mine Mapping Information System
Oil and Gas Authority	April 5, 2023	Kentucky Geological Survey
Owner(s), Key Site Manager(s), and/or Occupant Interviews	April 10 and 12, 2023	Various landowners; refer to <a href="#">Section 8.1</a>
Physiographic Information	April 5, 2023	USGS
Pipeline Information	April 5, 2023	National Pipeline Mapping System (NPMS)
Regulatory Database Report	March 30, 2023	Envirosite
Soils Information	April 5, 2023	USDA-NRCS Web Soil Survey
Standard Practice	2016	ASTM Standard E2247-16, <i>Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process for Forestland or Rural Property</i>
Topographic Maps	March 30, 2023	Envirosite
Topographic Map (current)	2022	USGS ( <i>Earlington and Nebo, Kentucky</i> )
User Interview	May 24, 2023	Mr. Jason Andrews, Project Director for Weirs Creek Solar, LLC

## Appendix A

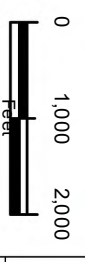
### Figures

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Project Boundary (± 2260.23 Ac.)



**Figure 1**  
USGS Topographic Map

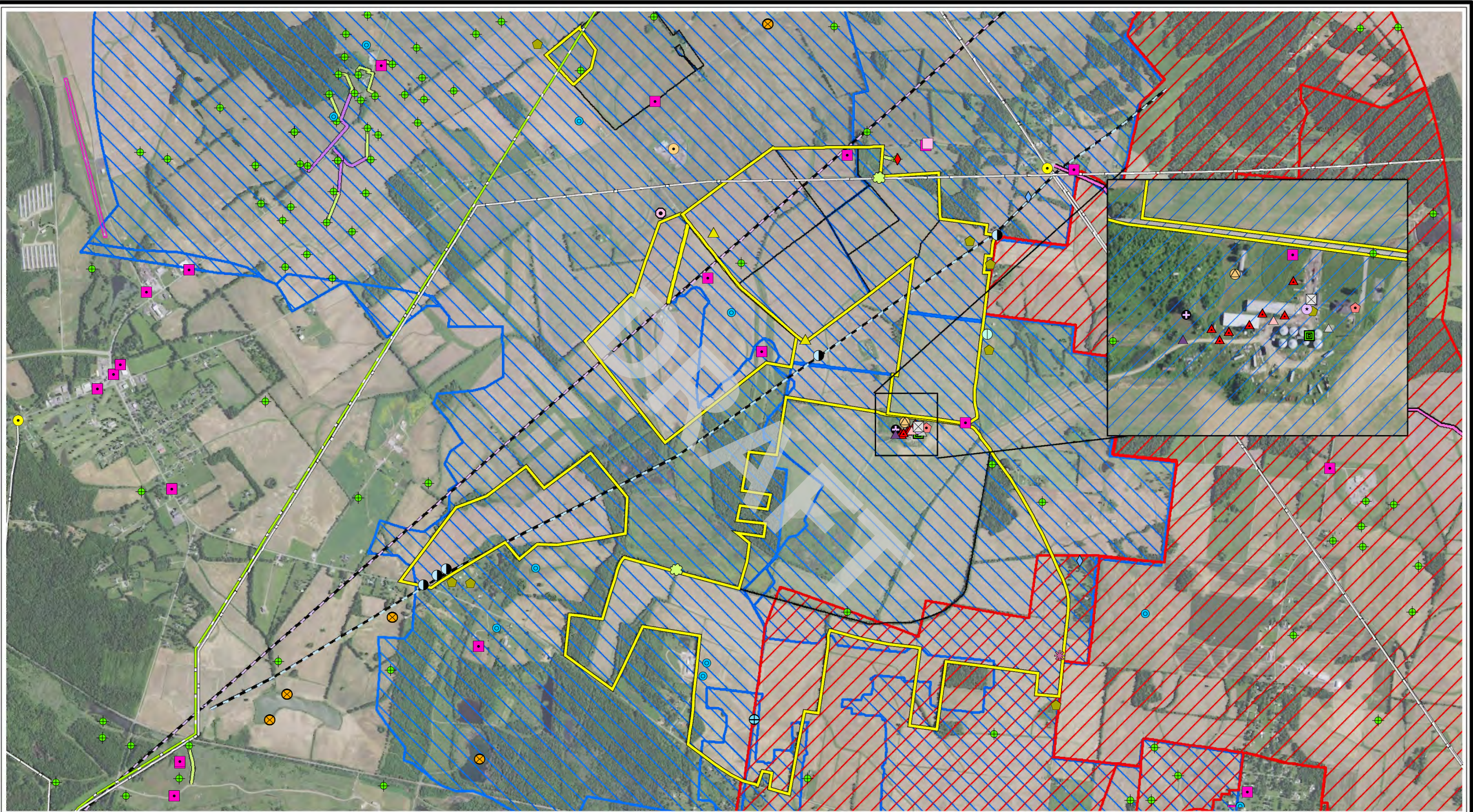
Weirs Creek Solar Project  
Webster and Hopkins Counties, Kentucky

Date: 4/28/2023

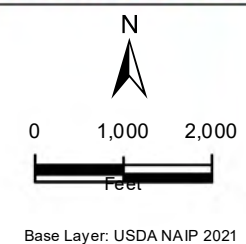
Base Layer: US Topographic Quad Nebo, KY 2022







<ul style="list-style-type: none"> <li>Project Boundary (± 2,260.23 Ac.)</li> <li>Parcel</li> <li>Airport runway</li> <li>Active Mine Permit</li> <li>Not Reclaimed Mine Permit</li> <li>Transmission Line (HIFLD) <ul style="list-style-type: none"> <li>100-161</li> <li>Under 100</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Natural Gas Pipeline</li> <li>Pipeline</li> <li><b>Oil &amp; Gas Gathering Lines (KGS)</b> <ul style="list-style-type: none"> <li>Gas Gathering</li> <li>Oil Flow</li> <li>Oil Gathering</li> <li>Water Injection</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Oil/Gas Well</li> <li>Water Well</li> <li>Water Spring</li> <li>Mine Location</li> <li>EPA Facility</li> <li>Substation</li> <li>Microwave Tower</li> </ul>	<ul style="list-style-type: none"> <li><b>Field Observation</b> <ul style="list-style-type: none"> <li>AST/Tote(s)</li> <li>Above Ground Scale</li> <li>Cemetery</li> <li>Cemetery with Church</li> <li>Drainage ditch</li> </ul> </li> <li>Dumpster</li> <li>Electrical Substation</li> <li>Gas pipeline marker(s)</li> <li>Hunting blind</li> <li>Farm Dump</li> </ul>	<ul style="list-style-type: none"> <li>Mobile trailer</li> <li>Observed oil well with pump jack</li> <li>Piles - Metal</li> <li>Piles - Scraps</li> <li>Piles - Soil/Gravel</li> <li>Piles - Tire(s)</li> </ul>	<ul style="list-style-type: none"> <li>Pond</li> <li>Residence</li> <li>Staining</li> <li>Tank Battery with ASTs</li> <li>Transformer - Pole-Mounted</li> <li><b>Historical Observation</b> <ul style="list-style-type: none"> <li>Historical Biosolid Application</li> </ul> </li> </ul>
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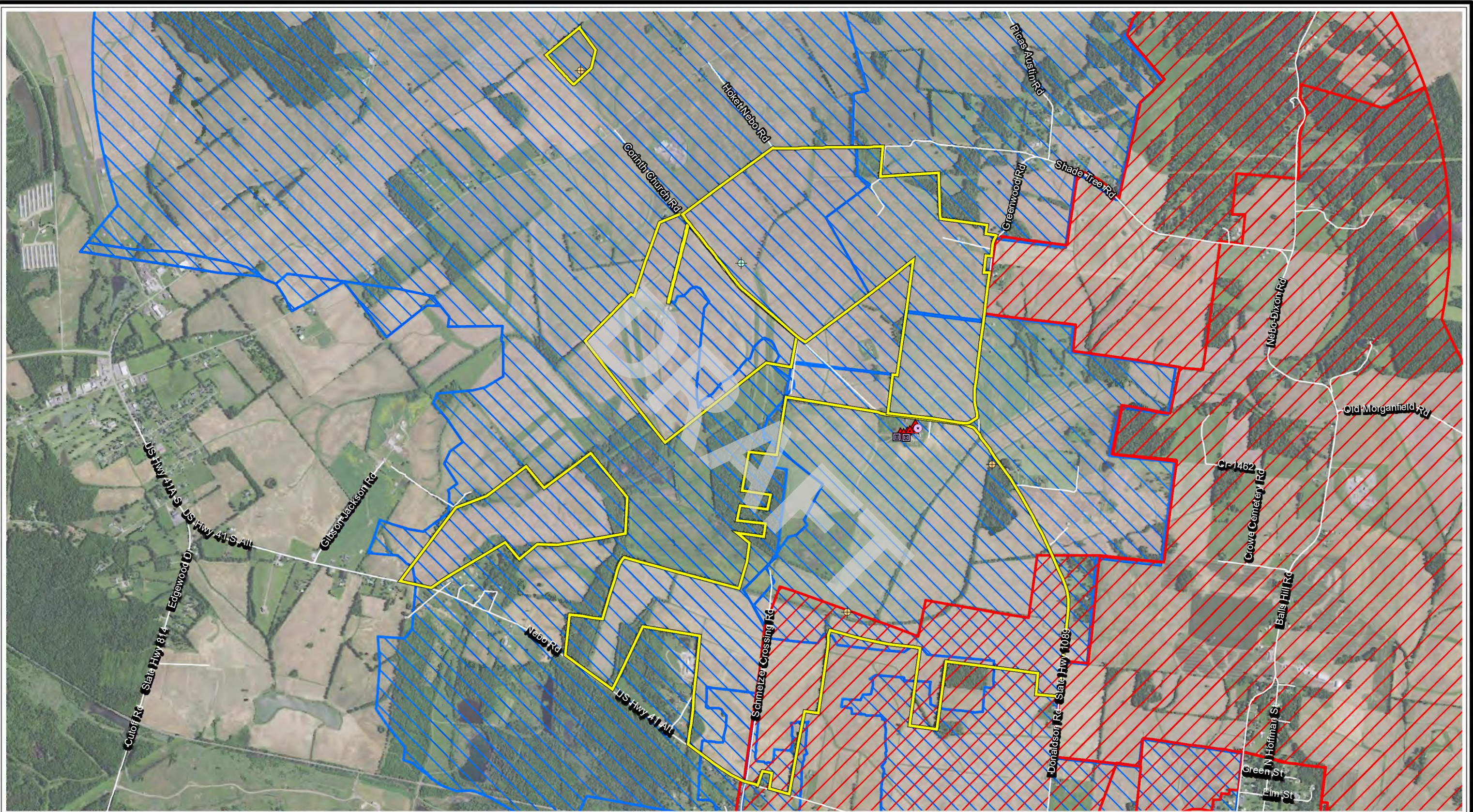
**Figure 2**  
**Subject Property Overview**

Weirs Creek Solar Project  
 Webster and Hopkins Counties, Kentucky

Date: 6/21/2023







Project Boundary (± 2,260.23 Ac.)	Active Mine Permit	<b>Oil/Gas Well (KGS)</b>	<b>Field Observation</b>
Not Reclaimed Mine Permit	Drilled & Abandoned	AST/Tote(s)	Farm Dump
	Oil Well	Staining	

N

0 1,000 2,000

Feet

Base Layer: USDA NAIP 2021

**Figure 3**  
**REC Location Map**

Weirs Creek Solar Project  
Webster and Hopkins Counties, Kentucky

Date: 6/21/2023



## Appendix B

### User Provided Information

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## USER QUESTIONNAIRE

To qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"), the user must provide the following information (if available) to the environmental professional. **Failure to provide this information could result in a determination that "all appropriate inquiry" is not complete.**

**Project Name:** \_\_\_\_\_

**County(ies) & State:** \_\_\_\_\_

### 1. ENVIRONMENTAL LIENS

Did a search of recorded land title records (or judicial records where appropriate<sup>1</sup>) identify any environmental liens filed or recorded against the property under federal, tribal, state, or local law?

**NO**                      **YES**                      **Date of Search:** \_\_\_\_\_

### 2. ACTIVITY AND USE LIMITATIONS (AULs)

Did a search of recorded land title records (or judicial records where appropriate) identify any AULs, such as engineering controls, land use restrictions, or institutional controls that are in place at the property and/or have been filed or recorded against the property under federal, tribal, state, or local law?

**NO**                      **YES**                      **Date of Search:** \_\_\_\_\_

### 3. SPECIALIZED KNOWLEDGE OR EXPERIENCE

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 the 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**                      **YES**                      **If yes, explain.** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

<sup>1</sup> In certain jurisdictions, federal, tribal, state, or local statutes, or regulations specify that environmental liens and AULs be filed in judicial records rather than in land title records. In such cases judicial records must be searched for environmental liens and AULs.



> ectinc.com

**4. PURCHASE PRICE & FAIR MARKET VALUE**

Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?

**NO**                      **YES**                      **If no, explain.** \_\_\_\_\_

**LEASE?**

**5. COMMONLY KNOWN INFORMATION**

Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? *For example, do you know the past uses of the property? Do you know if specific chemicals that are present or once were present at the property? Do you know of spills or other chemical releases that have taken place at the property? Do you know of any environmental cleanups that have taken place at the property?*

**NO**                      **YES**                      **If yes, explain.** \_\_\_\_\_

**6. DEGREE OF OBVIOUSNESS**

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**                      **YES**                      **If yes, explain.** \_\_\_\_\_

**Completed By:** \_\_\_\_\_

**Title:** \_\_\_\_\_

**Signature:** \_\_\_\_\_

**USER ENTITY:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Reason for Phase I:** \_\_\_\_\_

**Other Reliance Entities:** \_\_\_\_\_

## Appendix C

### Historical Sources

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**ENVIROSITE**  
Corporation

## Historical Topographic Map Report | 2023

Order Number: 85132

Report Generated: 03/30/2023

Project Name: Weirs Creek Solar Project

Project Number: 210152-0900

Weirs Creek Solar Project  
Approximately 2000 Acres  
Hopkins and Webster Counties, Kentucky

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Contact us at:  
(866) 211-2028  
[envirositecorp.com](http://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:**

	<u>Map Name:</u>	<u>Year:</u>	<u>Revision Year:</u>	<u>Scale:</u>
1.	<u>Earlington</u>	1907	N/R	1 : 48000
2.	<u>Earlington</u>	1909	N/R	1 : 62500
3.	<u>Nebo</u>	1954	N/R	1 : 24000
4.	<u>Earlington</u>	1954	N/R	1 : 62500
5.	<u>Nebo</u>	2010	N/R	1 : 24000
6.	<u>Nebo</u>	2013	N/R	1 : 24000
7.	<u>Nebo</u>	2016	N/R	1 : 24000
8.	<u>Nebo</u>	2019	N/R	1 : 24000
9.	<u>Nebo</u>	2022	N/R	1 : 24000

The USGS 7.5 minute series includes scales 1:24,000 / 1:25,000 / 1:31,680. The USGS 15 minute series includes scales 1:48,000 / 1:62,500 / 1:63,360. The USGS 30x60 minute series scale is 1:100,000.

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SUBJECT NAME: Weirs Creek Solar Project  
ADDRESS: Approximately 2000 Acres, Hopkins and Webster Counties,  
Kentucky  
LAT/LONG: 37.408782 / -87.683200

PREPARED FOR: Environmental Consulting & Technology, Inc Bay City  
ORDER #: 85132  
REPORT DATE: 03/30/2023

SUBJECT QUAD:

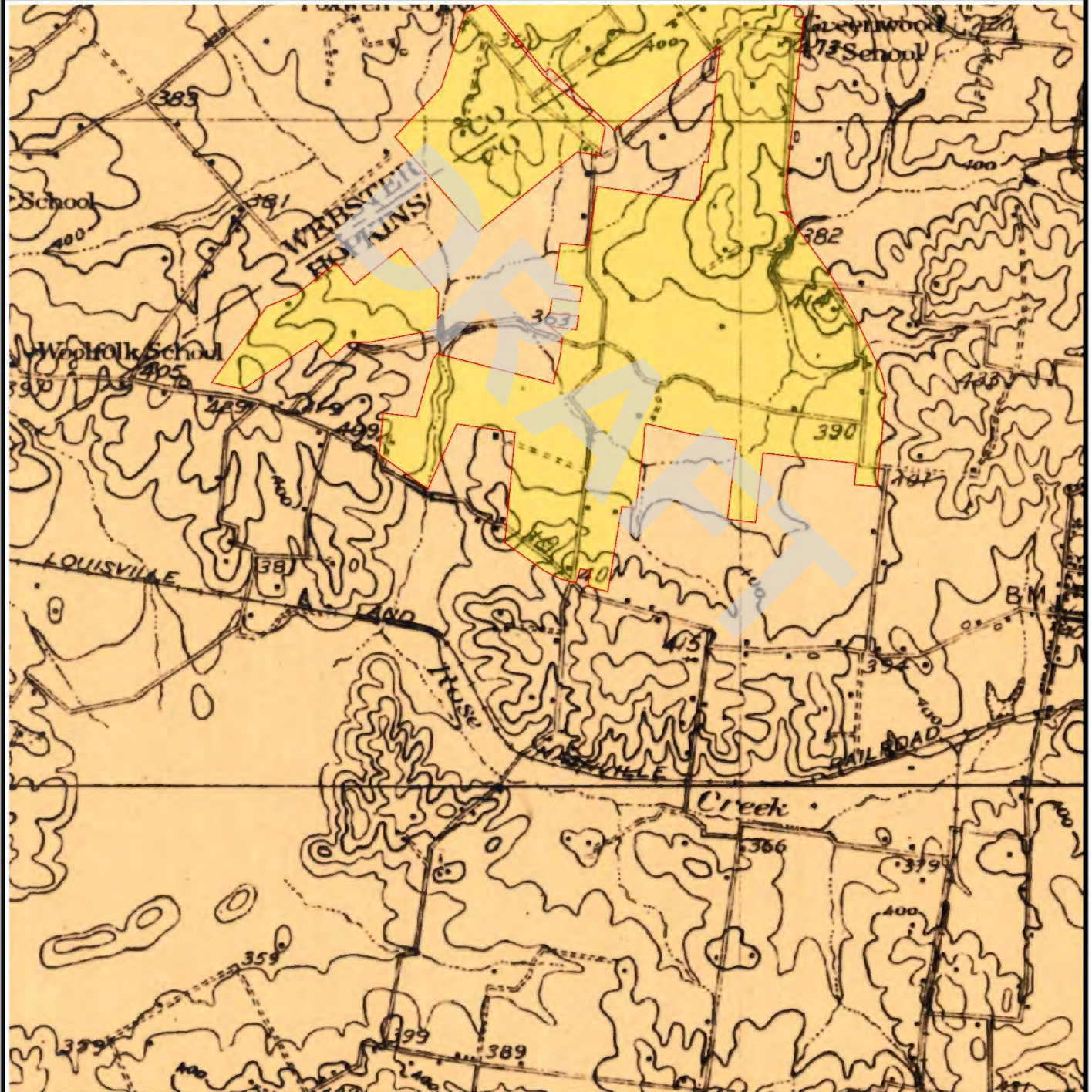
MAP NAME: Earlington

MAP YEAR: 1907

REVISION YEAR: N/R

SCALE: 1 : 48000

Part 1





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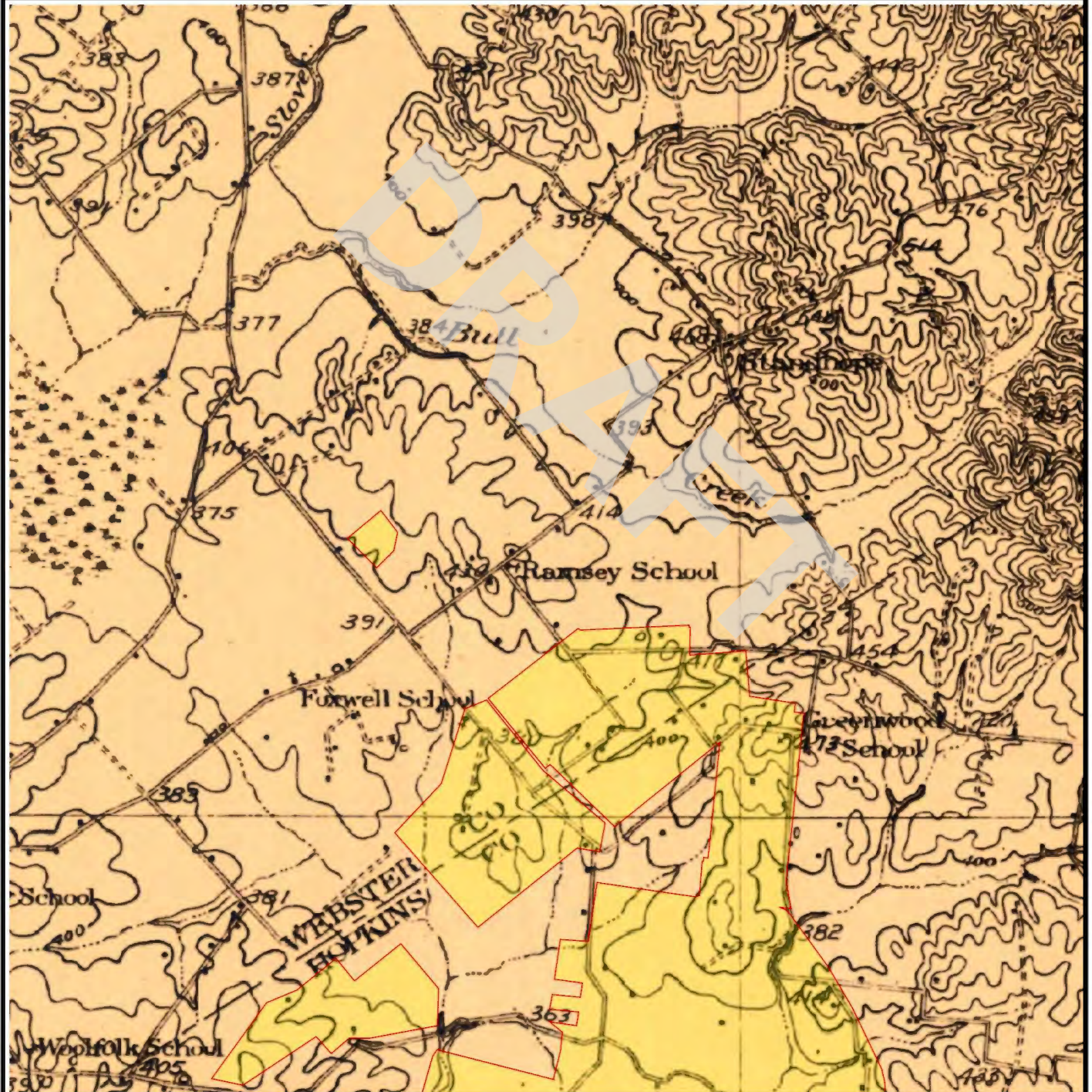
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MAP YEAR: 1907

REVISION YEAR: N/R

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Part 2





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ORDER #: 85132  
REPORT DATE: 03/30/2023

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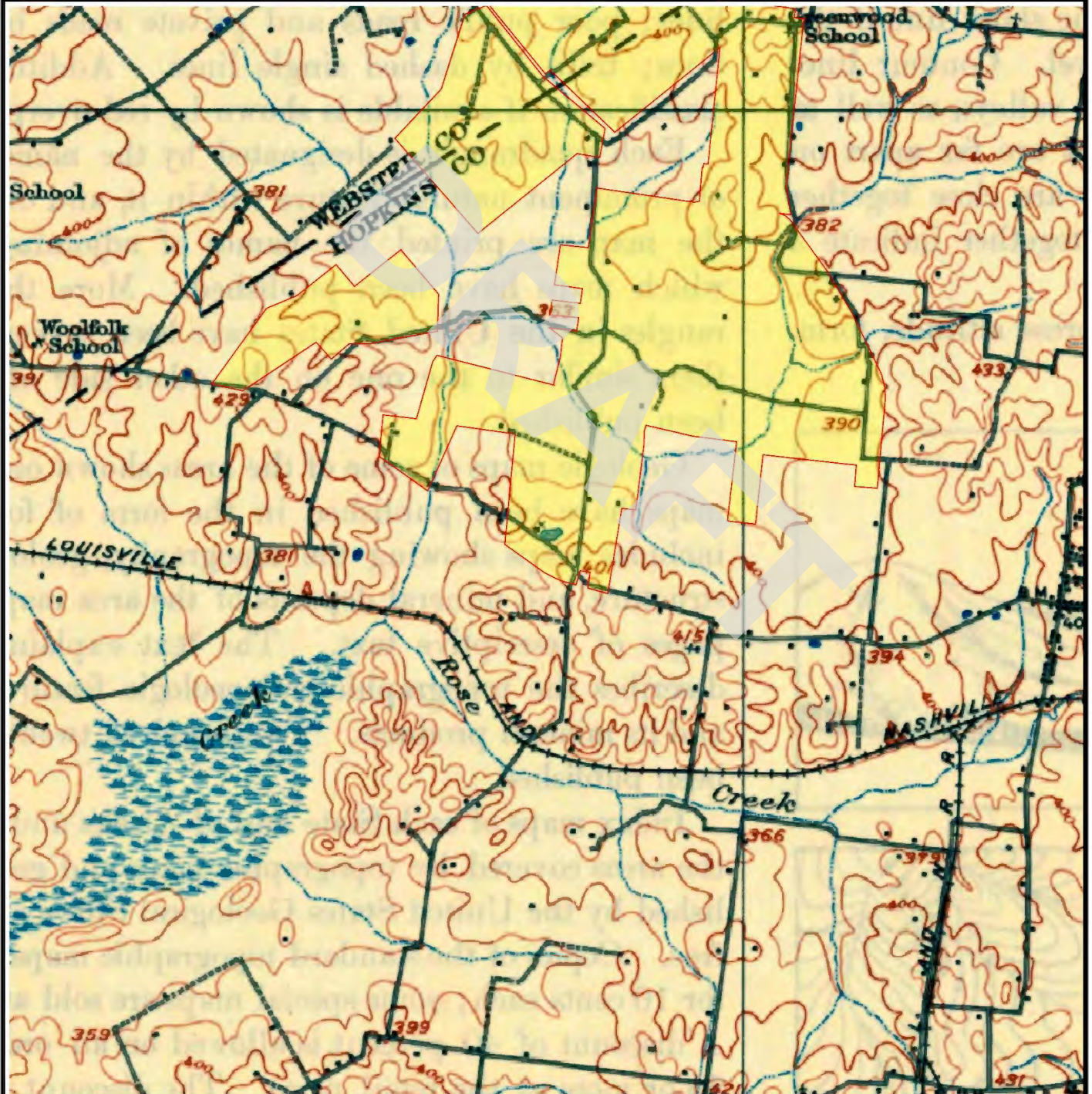
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MAP YEAR: 1909

REVISION YEAR: N/R

SCALE: 1 : 62500

Part 1





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SUBJECT QUAD:



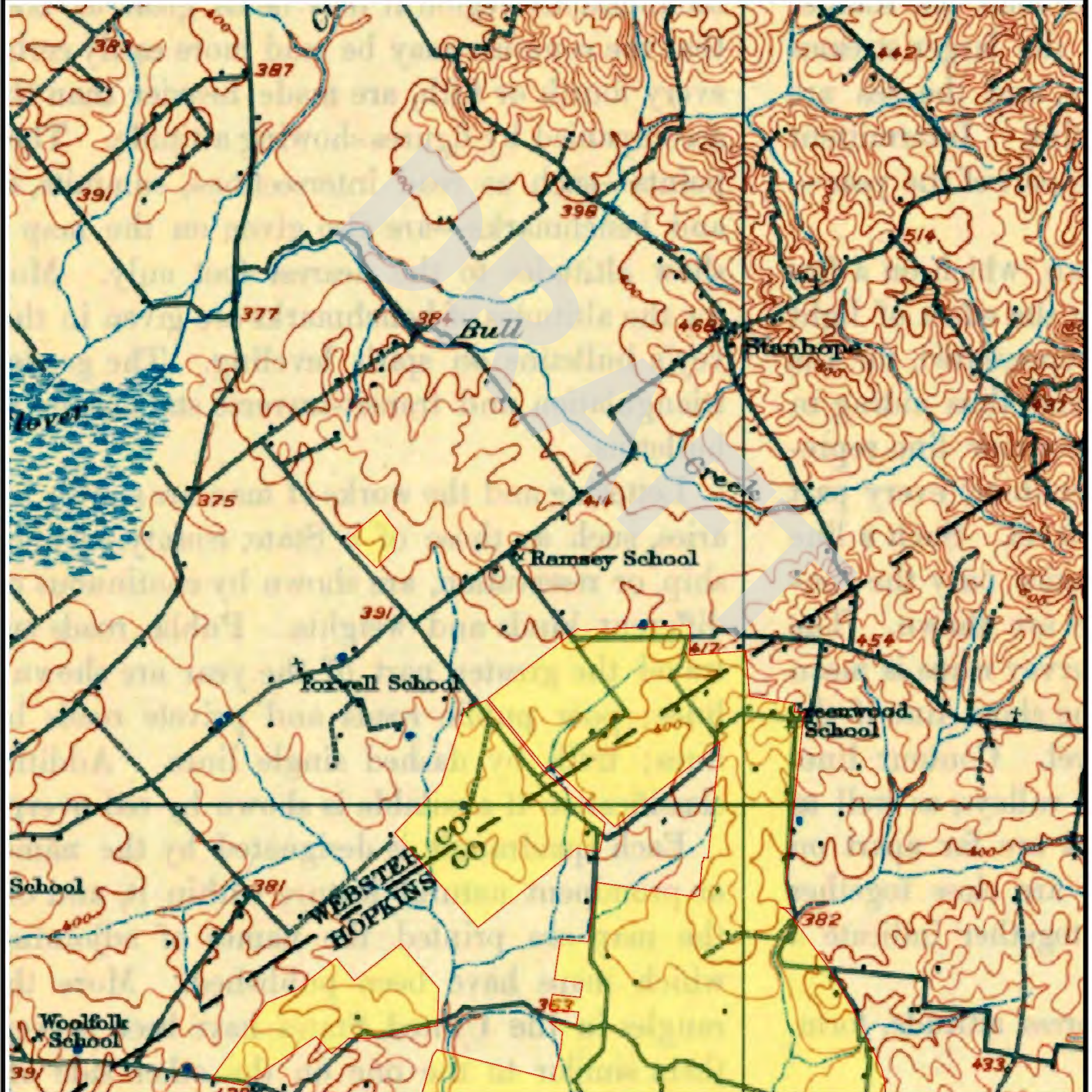
MAP NAME: Earlington

MAP YEAR: 1909

REVISION YEAR: N/R

SCALE: 1 : 62500

Part 2





SUBJECT NAME: Weirs Creek Solar Project  
ADDRESS: Approximately 2000 Acres, Hopkins and Webster Counties,  
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PREPARED FOR: Environmental Consulting & Technology, Inc Bay City  
ORDER #: 85132  
REPORT DATE: 03/30/2023

SUBJECT QUAD:

MAP NAME: Nebo

MAP YEAR: 1954

REVISION YEAR: N/R

SCALE: 1 : 24000

Part 1





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ADDRESS: Approximately 2000 Acres, Hopkins and Webster Counties,  
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PREPARED FOR: Environmental Consulting & Technology, Inc Bay City  
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REPORT DATE: 03/30/2023

SUBJECT QUAD:

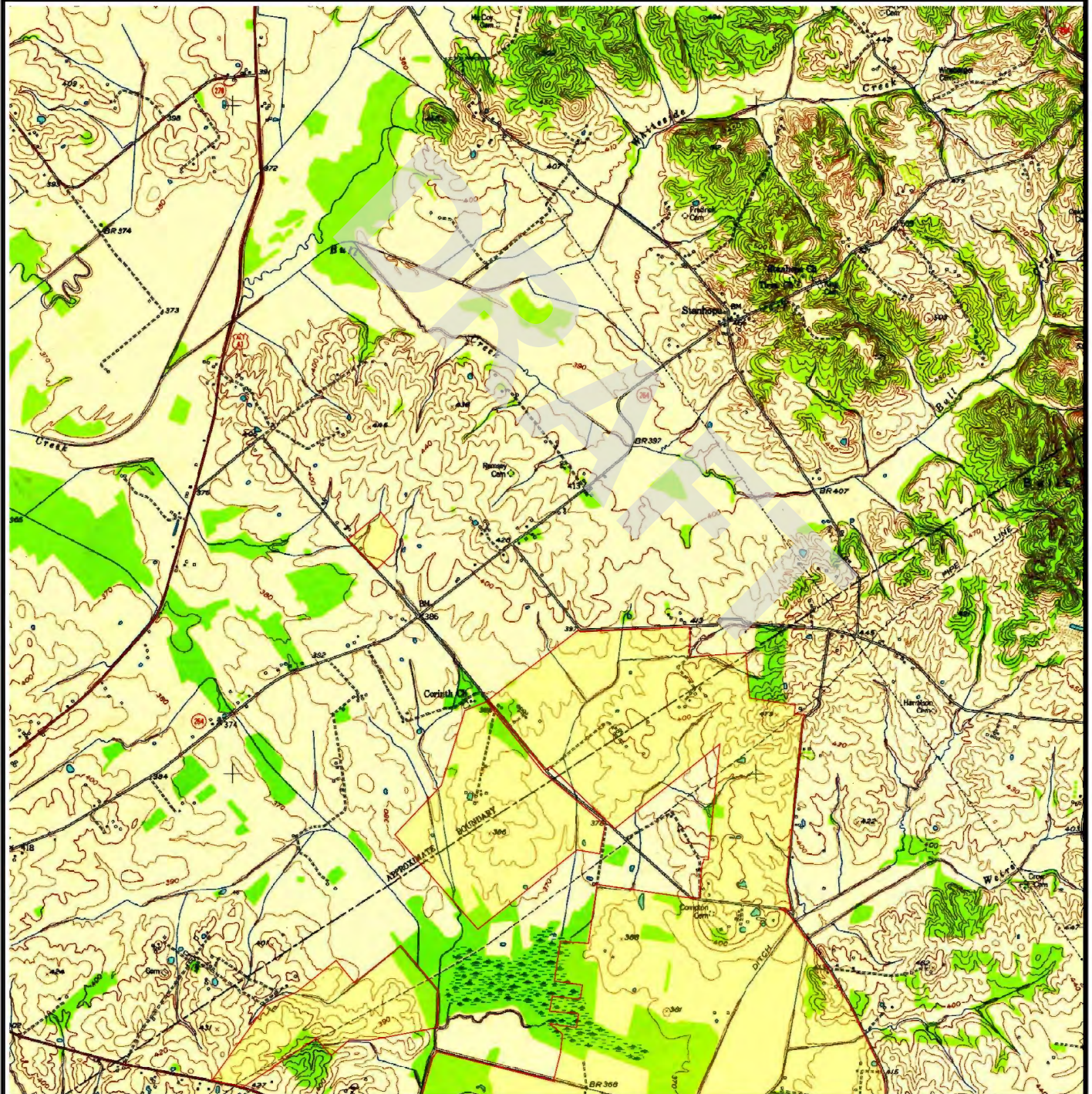
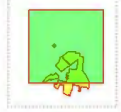
MAP NAME: Nebo

MAP YEAR: 1954

REVISION YEAR: N/R

SCALE: 1 : 24000

Part 2





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ADDRESS: Approximately 2000 Acres, Hopkins and Webster Counties,  
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PREPARED FOR: Environmental Consulting & Technology, Inc Bay City  
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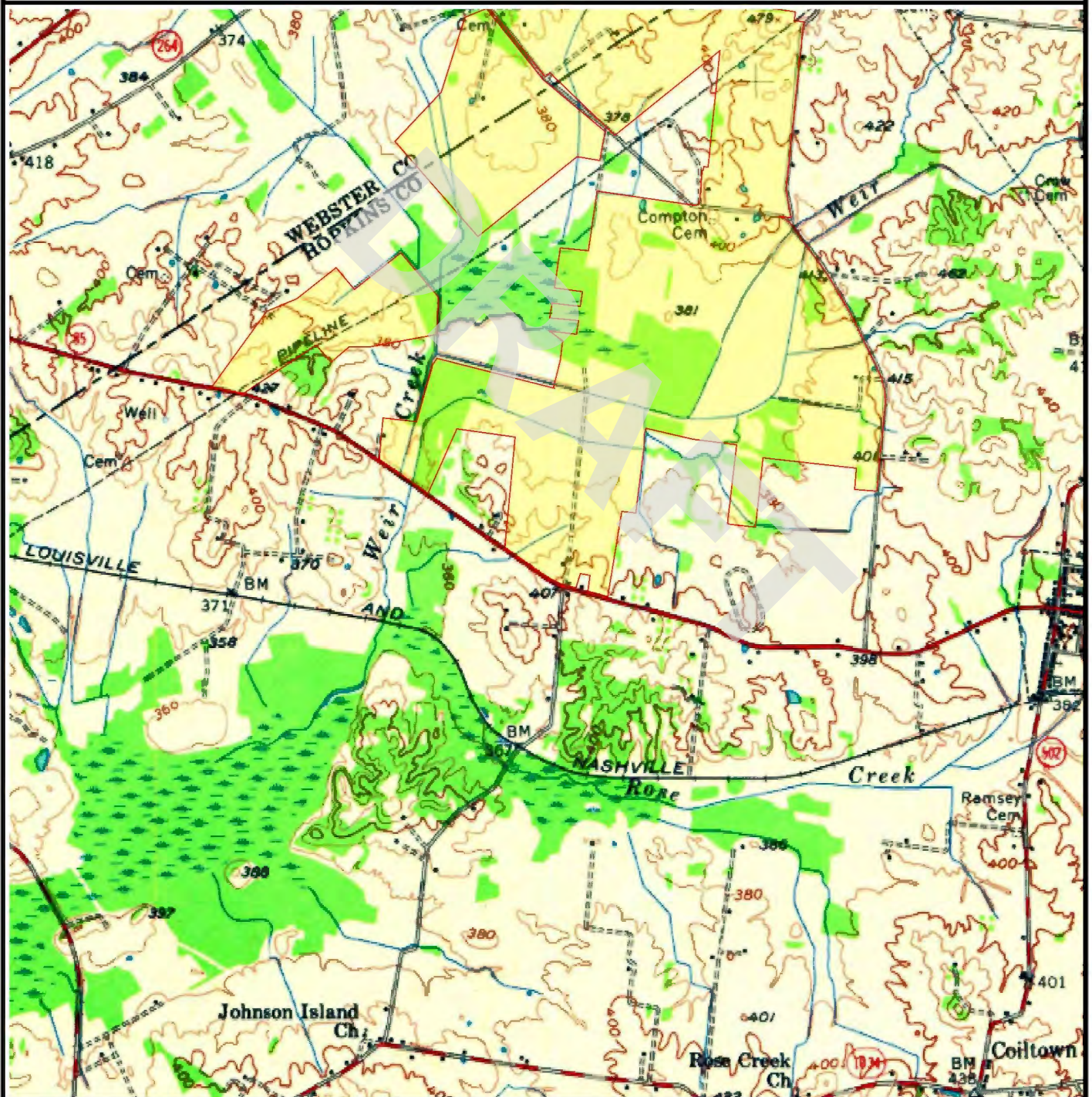
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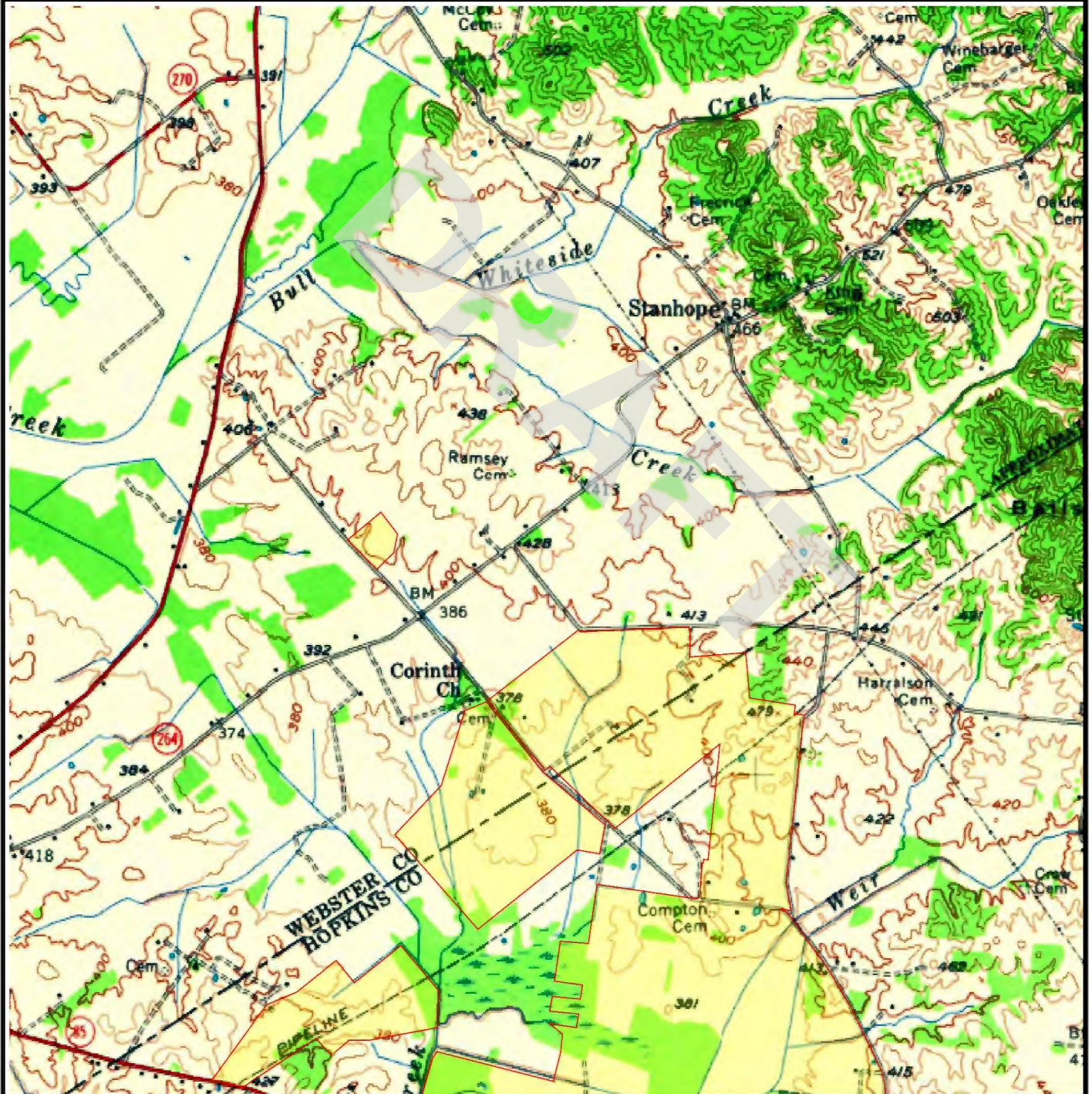
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REVISION YEAR:

N/R

SCALE: 1 : 62500

Part 2





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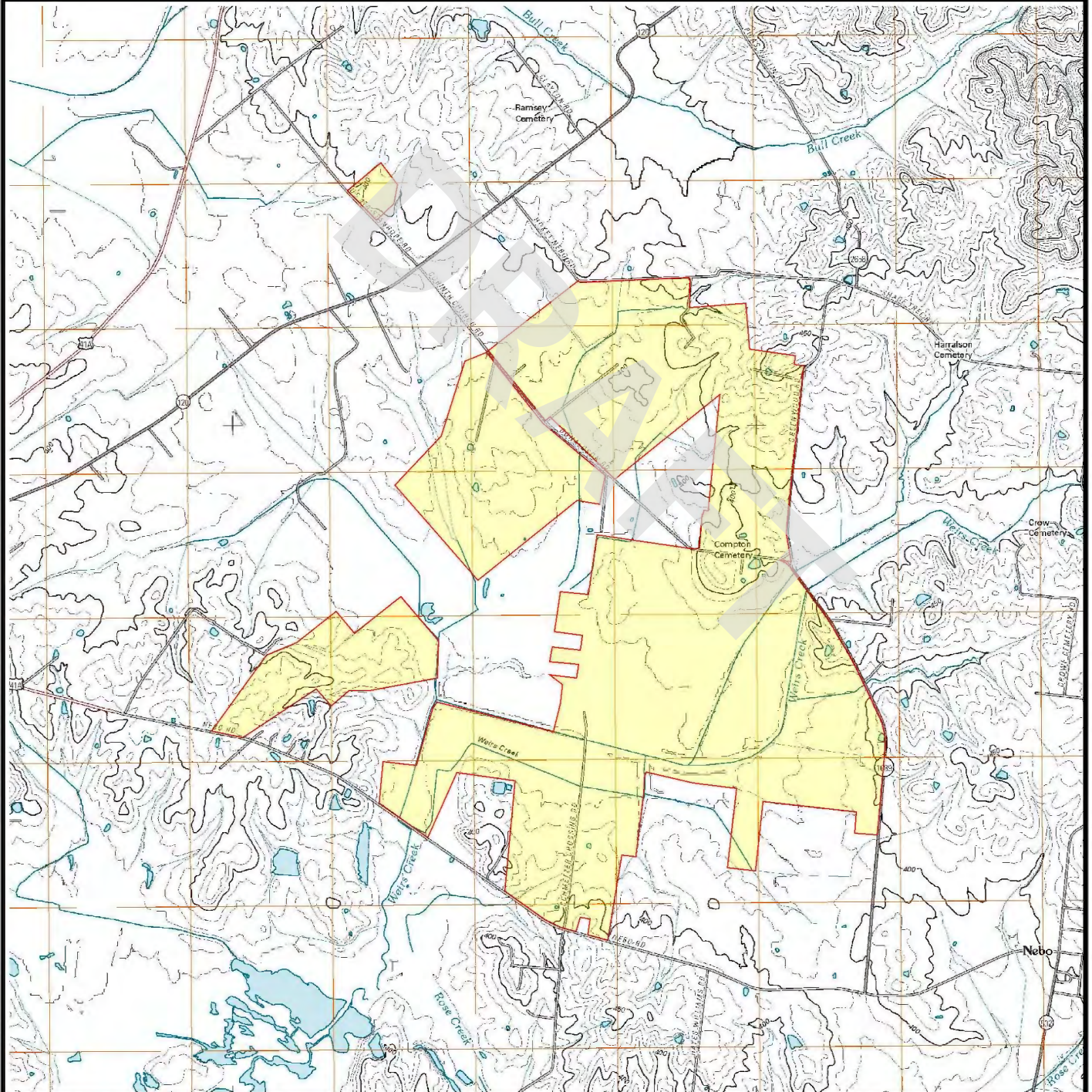
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REVISION YEAR: N/R

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Part 1





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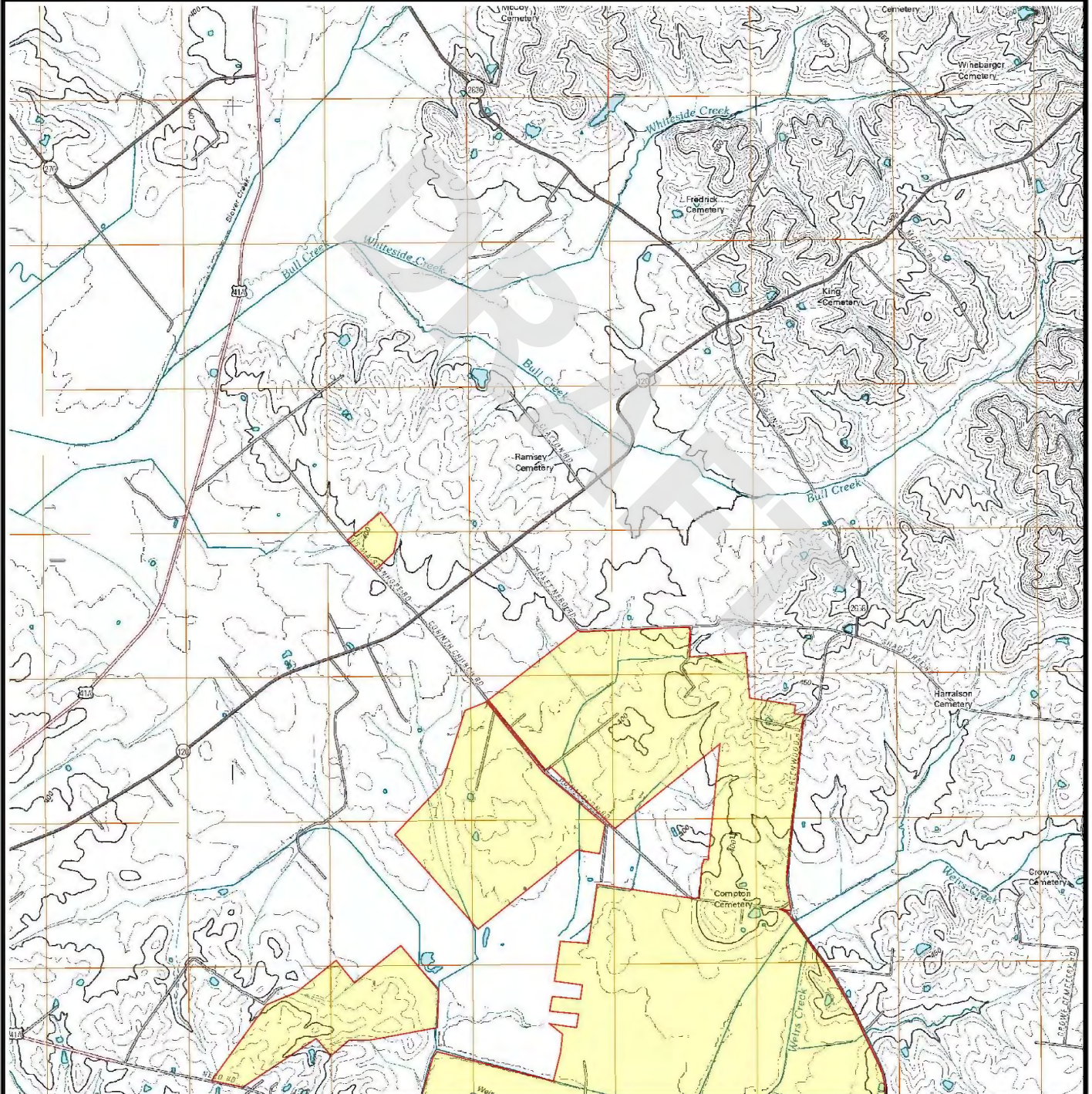
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Part 2





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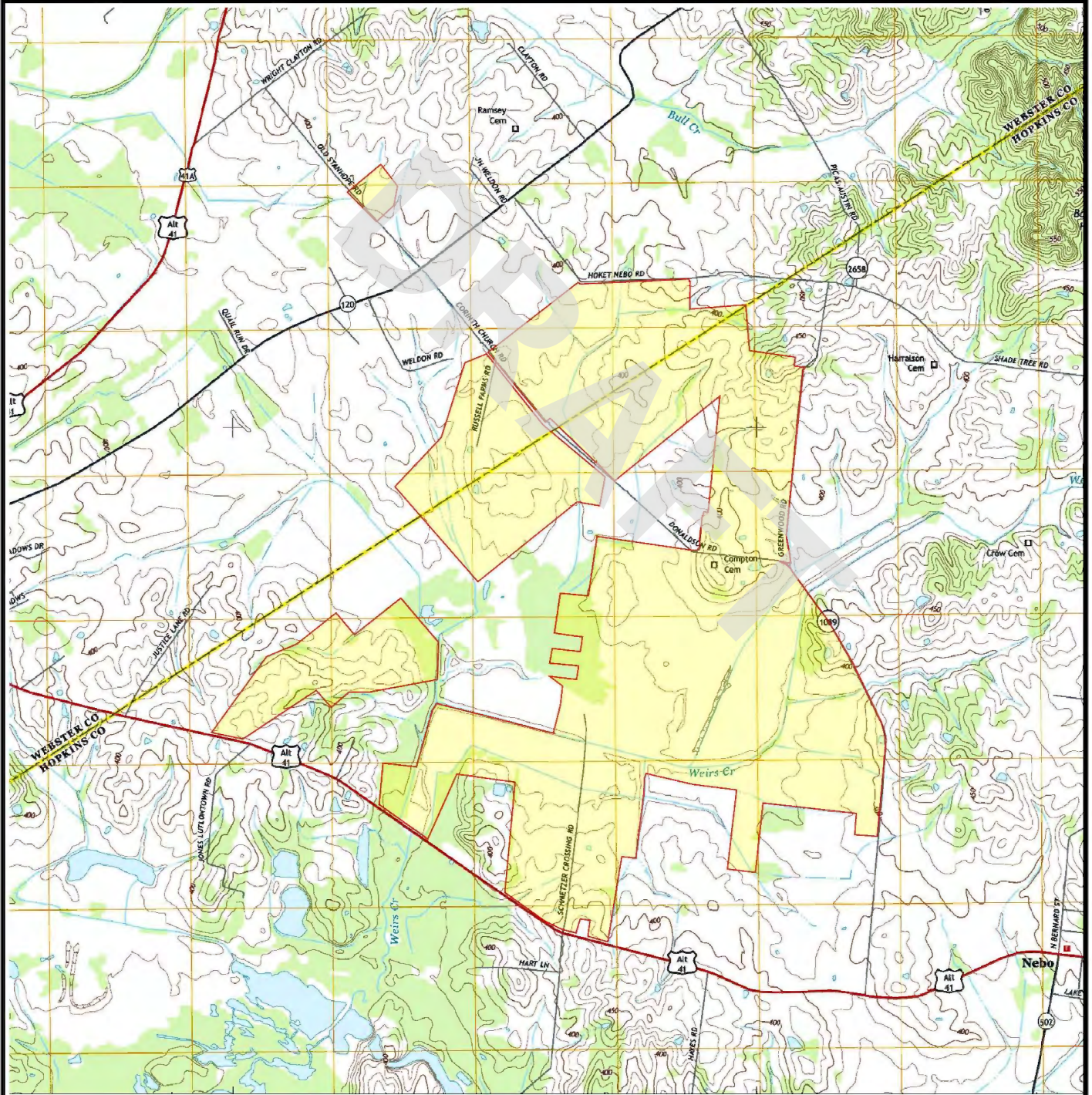
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MAP YEAR: 2013

REVISION YEAR: N/R

SCALE: 1 : 24000

Part 1





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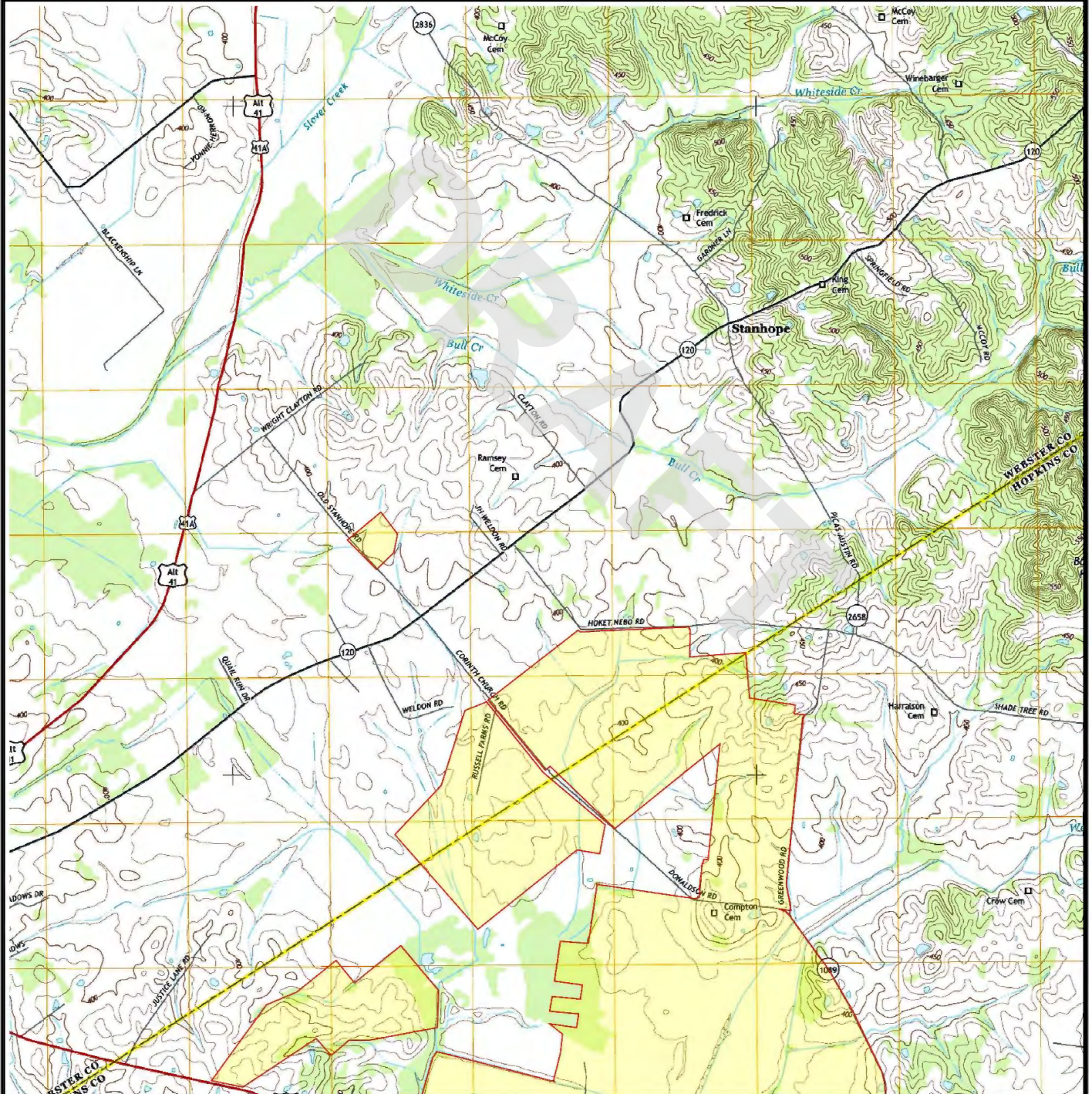
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MAP YEAR: 2013

REVISION YEAR: N/R

SCALE: 1 : 24000

Part 2





SUBJECT NAME: Weirs Creek Solar Project  
ADDRESS: Approximately 2000 Acres, Hopkins and Webster Counties,  
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LAT/LONG: 37.408782 / -87.683200

PREPARED FOR: Environmental Consulting & Technology, Inc Bay City  
ORDER #: 85132  
REPORT DATE: 03/30/2023

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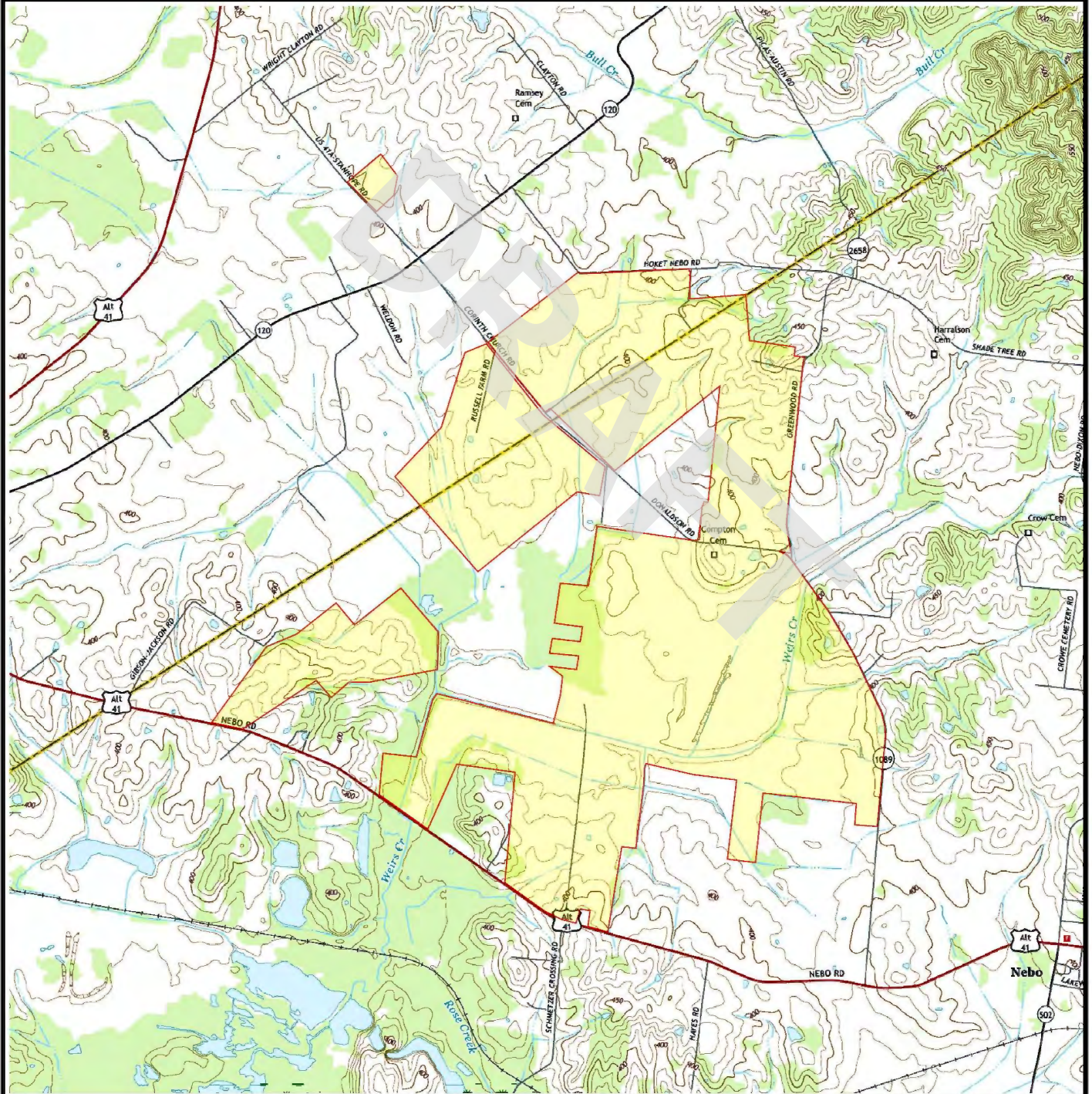
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MAP YEAR: 2016

REVISION YEAR: N/R

SCALE: 1 : 24000

Part 1





SUBJECT NAME: Weirs Creek Solar Project  
ADDRESS: Approximately 2000 Acres, Hopkins and Webster Counties,  
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LAT/LONG: 37.408782 / -87.683200

PREPARED FOR: Environmental Consulting & Technology, Inc Bay City  
ORDER #: 85132  
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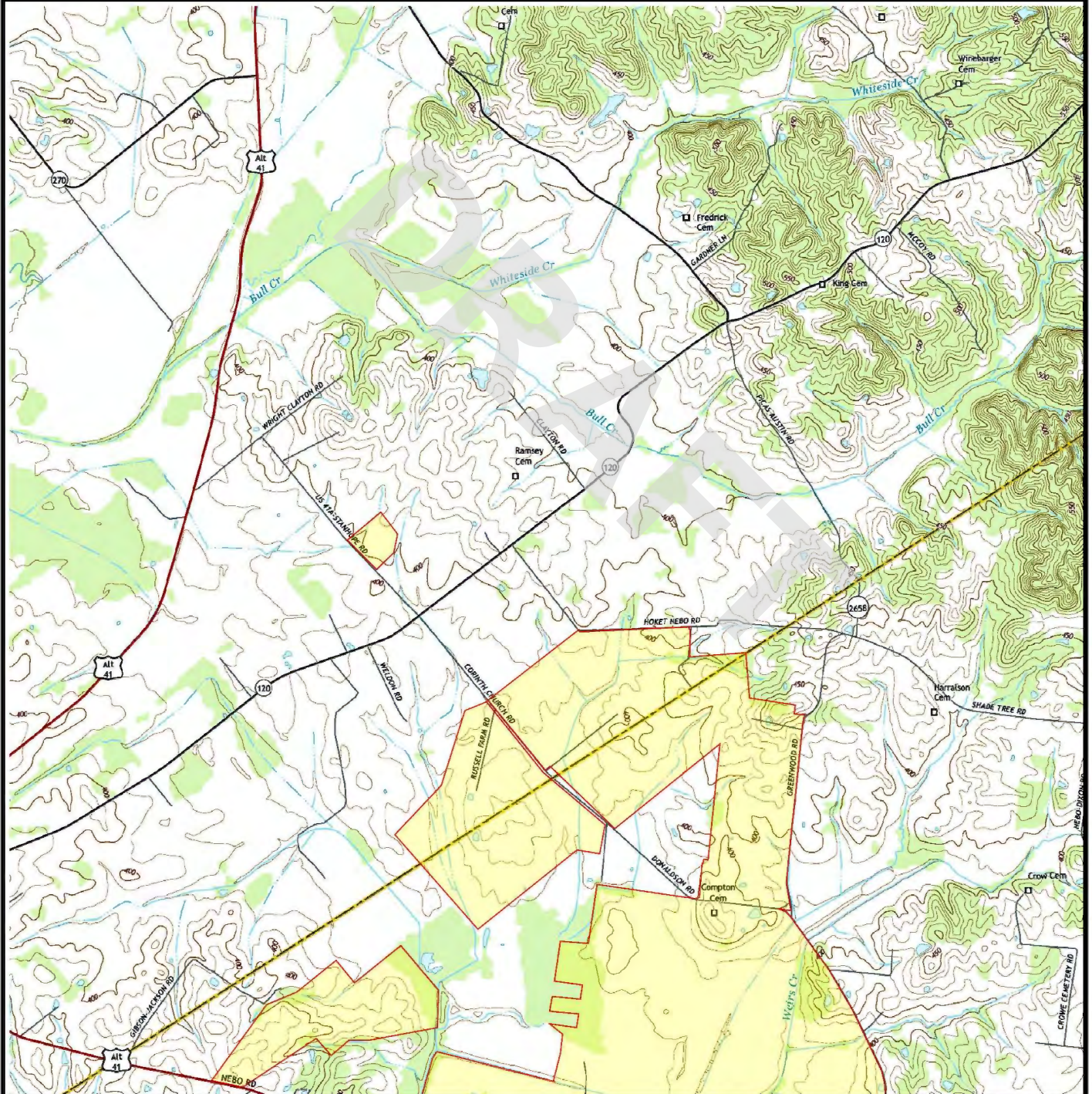
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MAP YEAR: 2016

REVISION YEAR: N/R

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Part 2





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ADDRESS: Approximately 2000 Acres, Hopkins and Webster Counties,  
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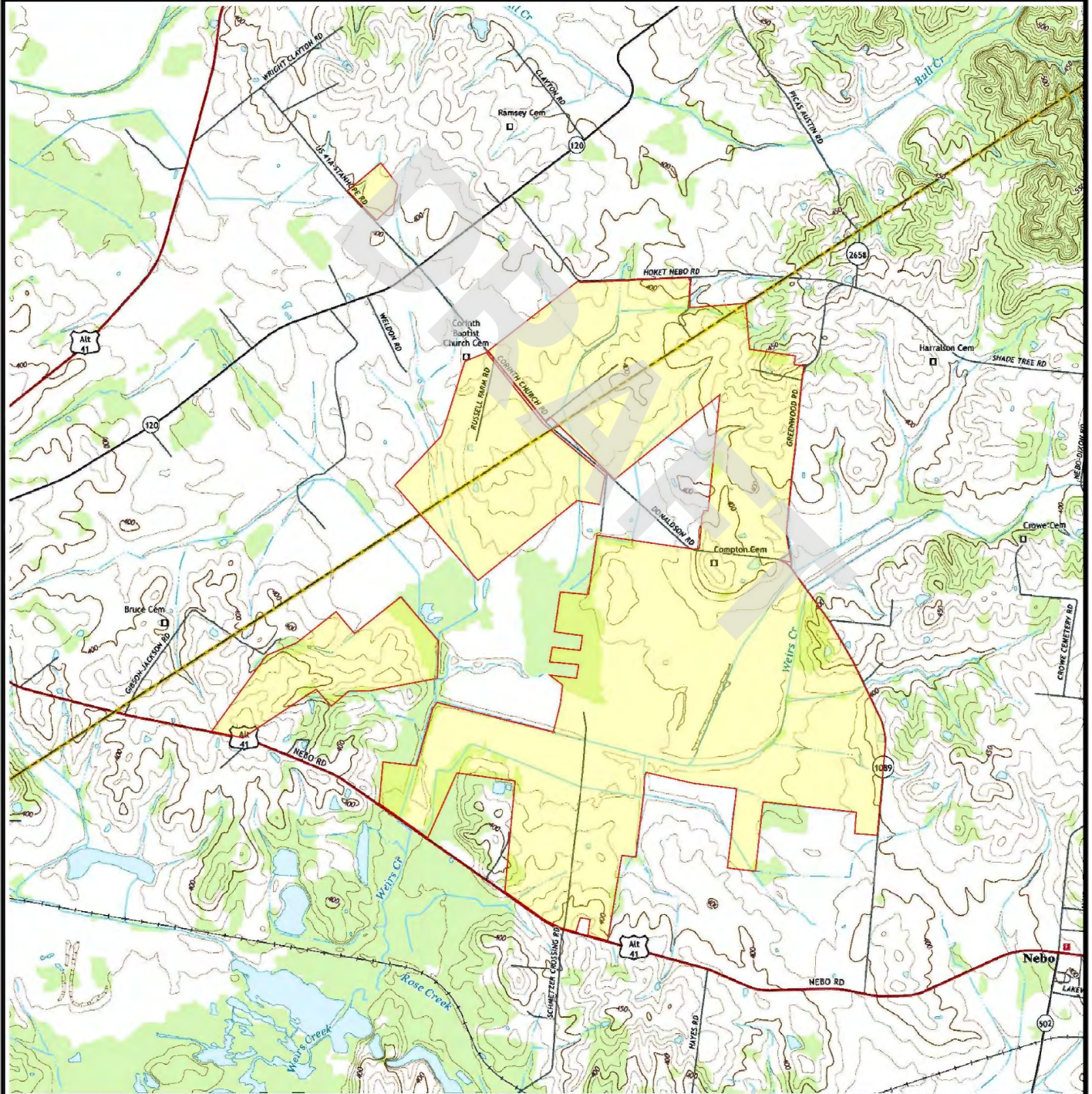
MAP NAME: Nebo

MAP YEAR: 2019

REVISION YEAR: N/R

SCALE: 1 : 24000

Part 1





SUBJECT NAME: Weirs Creek Solar Project  
ADDRESS: Approximately 2000 Acres, Hopkins and Webster Counties,  
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LAT/LONG: 37.408782 / -87.683200

PREPARED FOR: Environmental Consulting & Technology, Inc Bay City  
ORDER #: 85132  
REPORT DATE: 03/30/2023

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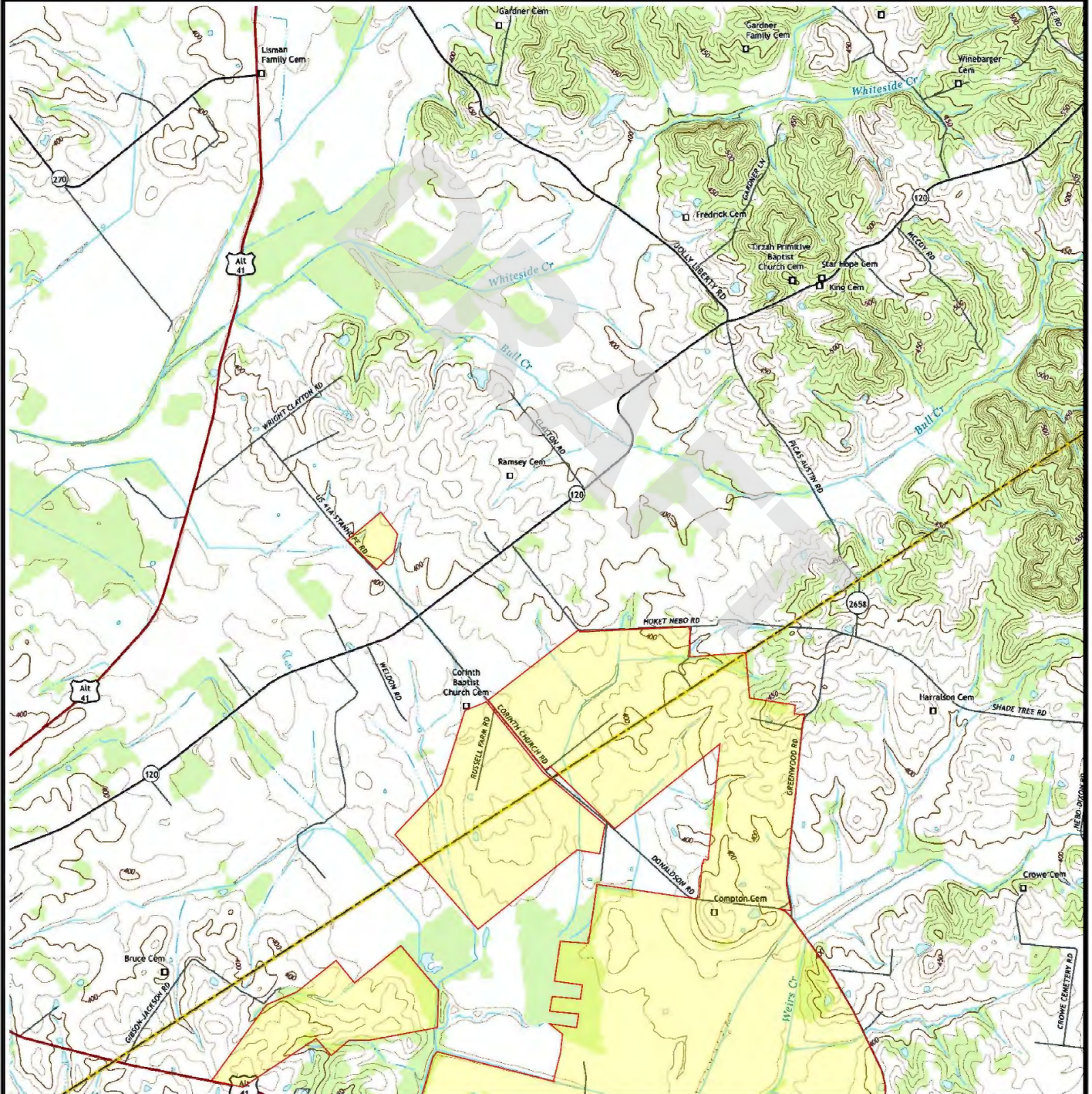
MAP NAME: Nebo

MAP YEAR: 2019

REVISION YEAR: N/R

SCALE: 1 : 24000

Part 2





SUBJECT NAME: Weirs Creek Solar Project  
ADDRESS: Approximately 2000 Acres, Hopkins and Webster Counties,  
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PREPARED FOR: Environmental Consulting & Technology, Inc Bay City  
ORDER #: 85132  
REPORT DATE: 03/30/2023

SUBJECT QUAD:

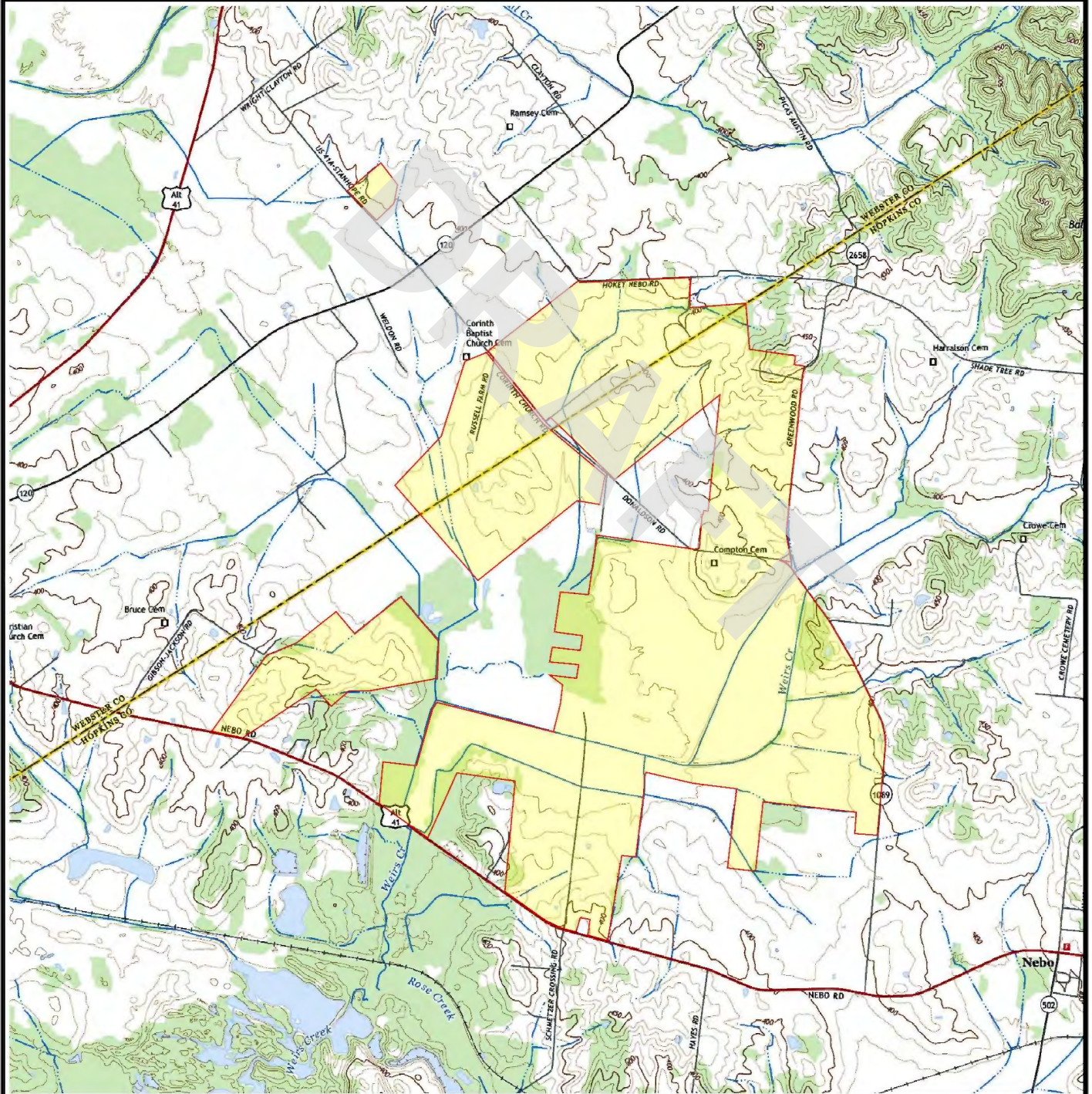
MAP NAME: Nebo

MAP YEAR: 2022

REVISION YEAR: N/R

SCALE: 1 : 24000

Part 1





SUBJECT NAME: Weirs Creek Solar Project  
ADDRESS: Approximately 2000 Acres, Hopkins and Webster Counties,  
Kentucky  
LAT/LONG: 37.408782 / -87.683200

PREPARED FOR: Environmental Consulting & Technology, Inc Bay City  
ORDER #: 85132  
REPORT DATE: 03/30/2023

SUBJECT QUAD:

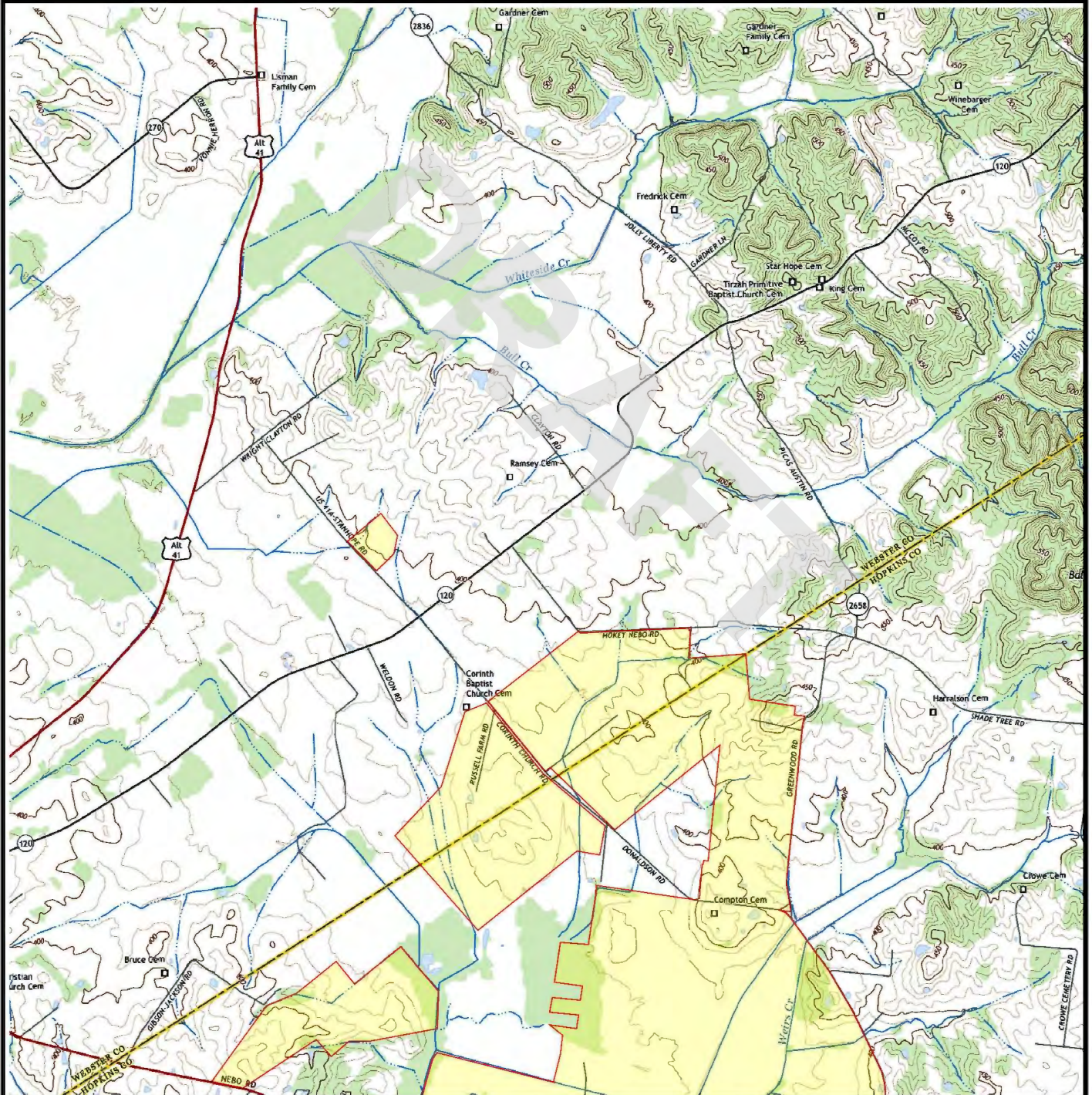
MAP NAME: Nebo

MAP YEAR: 2022

REVISION YEAR: N/R

SCALE: 1 : 24000

Part 2







**ENVIROSITE**  
Corporation

# Historical Aerial Photo Report | 2023

DRAFT

Order Number: 85132

Report Generated: 04/04/2023

Project Name: Weirs Creek Solar Project

Project Number: 210152-0900

Weirs Creek Solar Project  
Approximately 2000 Acres  
Hopkins and Webster Counties, Kentucky

---

Contact us at:  
(866) 211-2028  
[envirositecorp.com](http://envirositecorp.com)

Envirosite's Historical Aerial Photo Report is designed to assist in evaluating a subject property resulting from past activities. EnviroSite's Historical Aerial Photo Report includes a search of available historical aerial photographs, dating back to the 1930s, or earliest available photographs.

## **ENVIROSITE SEARCHED SOURCES**

### **SUBJECT PROPERTY:**

Weirs Creek Solar Project  
Approximately 2000 Acres  
Hopkins and Webster Counties, Kentucky

### **YEAR:**

1952  
1982  
1983  
1992  
1993  
1998  
2008  
2010  
2012  
2014  
2016  
2018  
2020

### **SCALE:**

1" = 1,500'  
1" = 1,500'  
1" = 1,500'  
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1" = 1,500'  
1" = 1,500'

### **SOURCE:**

U.S.G.S  
NHAP  
NHAP  
NAPP  
NAPP  
DOQ  
NAIP  
NAIP  
NAIP  
NAIP  
NAIP  
NAIP  
NAIP  
NAIP

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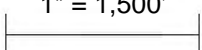
*Historical Aerial Photo Grid*

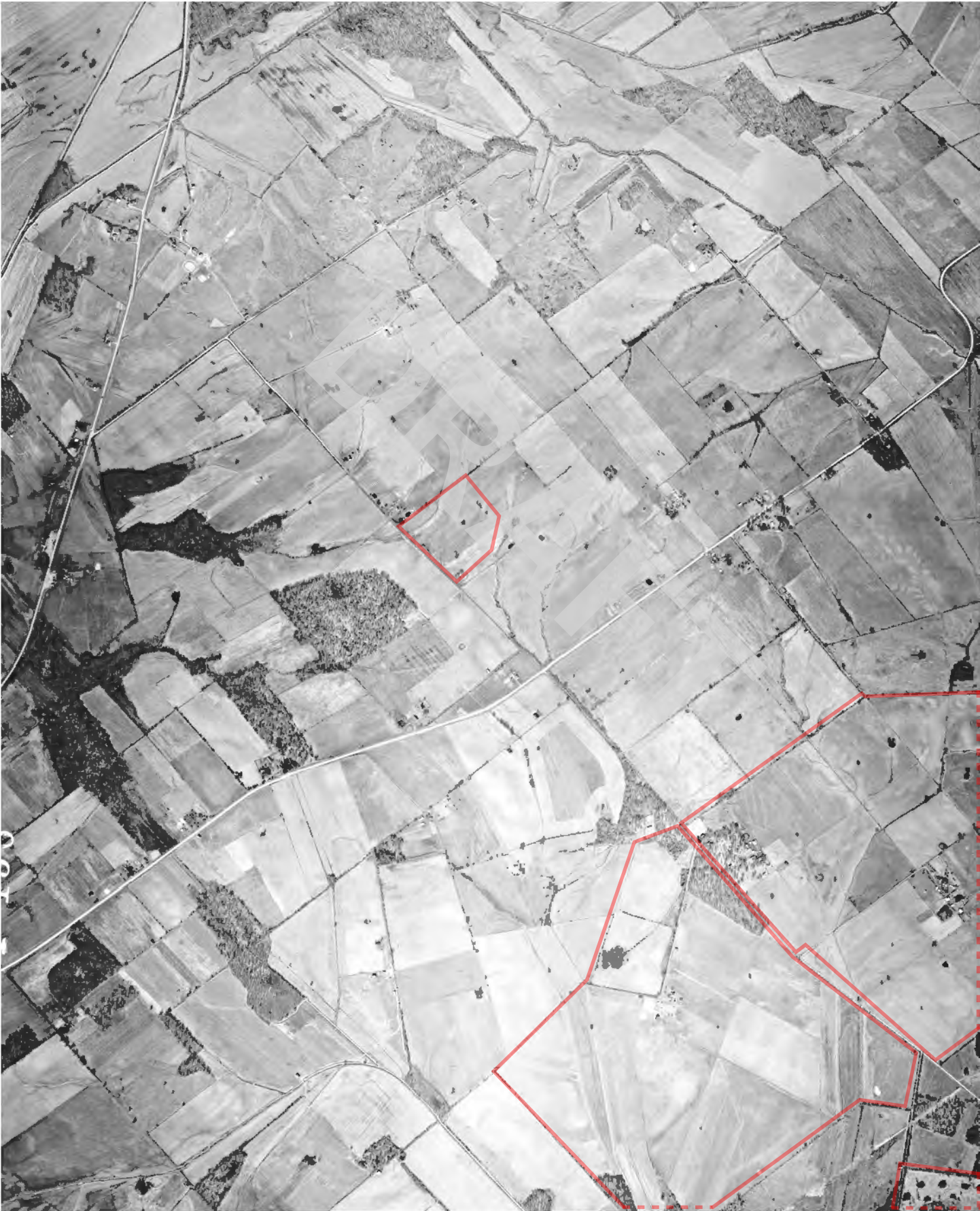




**FLIGHT YEAR:**  
1952

**Photo 1**

 **Scale:**  1" = 1,500'





**FLIGHT YEAR:**  
1952

**Photo 2**

**Scale:**  1" = 1,500'





**FLIGHT YEAR:**  
1952

**Photo 3**



**Scale:** 1" = 1,500'





**FLIGHT YEAR:**  
1982

**Photo 1**



**Scale:** 1" = 1,500'





**FLIGHT YEAR:**  
1982

**Photo 2**



**Scale:** 1" = 1,500'





**FLIGHT YEAR:**  
1982

**Photo 3**




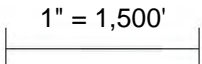
**Scale:** 1" = 1,500'





**FLIGHT YEAR:**  
1983

**Photo 1**

 **Scale:**  1" = 1,500'





**FLIGHT YEAR:**  
1983

**Photo 2**



**Scale:** 1" = 1,500'





**FLIGHT YEAR:**  
1983

**Photo 3**




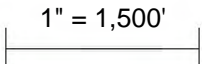
**Scale:** 1" = 1,500'





**FLIGHT YEAR:**  
1992

**Photo 1**

 **Scale:**  1" = 1,500'





**FLIGHT YEAR:**  
1992

**Photo 2**



**Scale:** |-----|  
1" = 1,500'





**FLIGHT YEAR:**  
1992

**Photo 3**



**Scale:** 1" = 1,500'





**FLIGHT YEAR:**  
1993

**Photo 1**



**Scale:** 1" = 1,500'



**FLIGHT YEAR:**  
1993

**Photo 2**



**Scale:** 1" = 1,500'





**FLIGHT YEAR:**  
1993

**Photo 3**



**Scale:** 1" = 1,500'





**FLIGHT YEAR:**  
1998

**Photo 1**



**Scale:** 1" = 1,500'





**FLIGHT YEAR:**  
1998

**Photo 2**



**Scale:** 1" = 1,500'



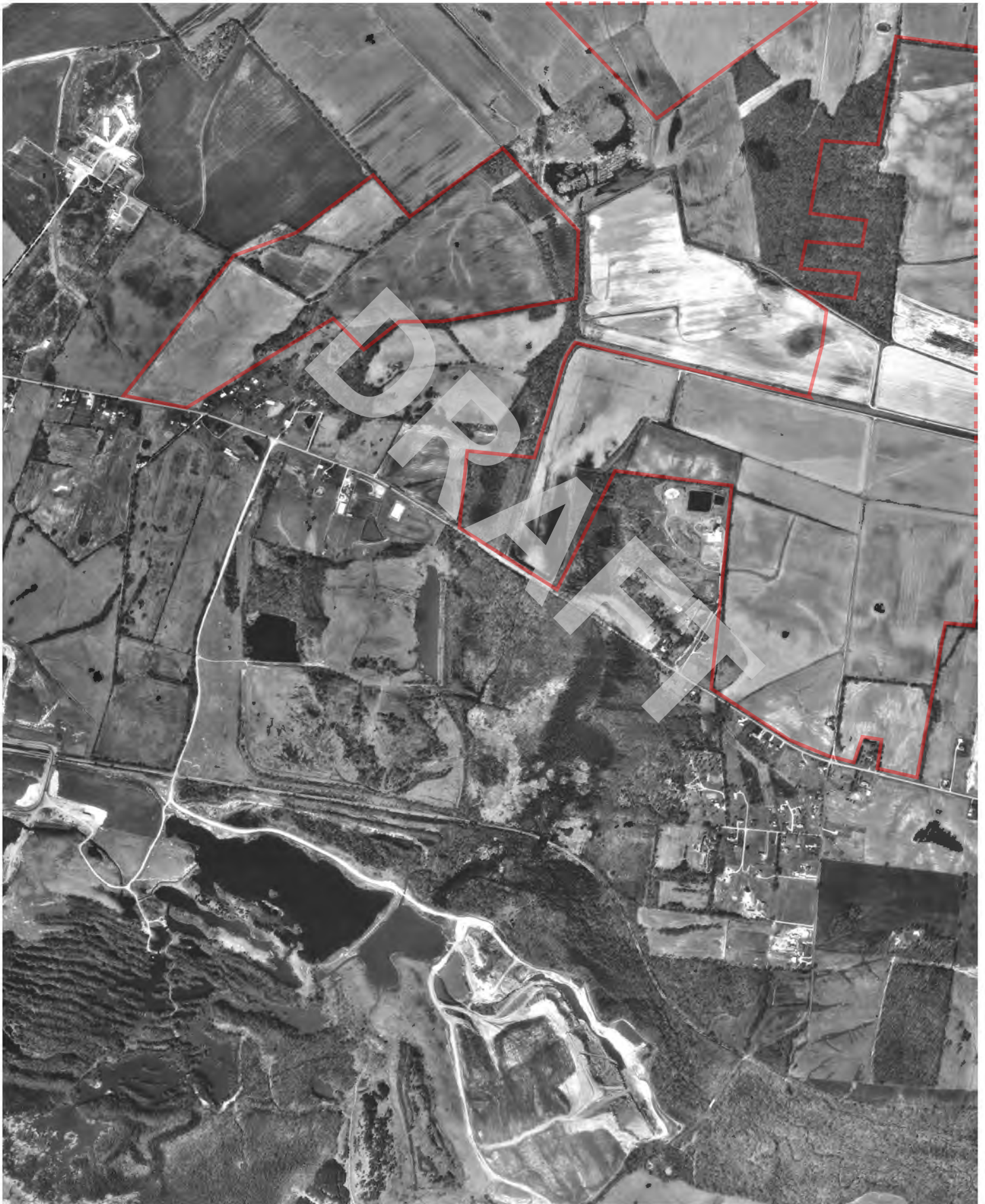


**FLIGHT YEAR:**  
1998

**Photo 3**



**Scale:** 1" = 1,500'





FLIGHT YEAR:  
2008

Photo 1



Scale: |-----|  
1" = 1,500'





**FLIGHT YEAR:**  
2008

**Photo 2**

N  
W —+— E  
S

**Scale:** |—————| 1" = 1,500'





FLIGHT YEAR:  
2008

Photo 3



Scale: |-----|  
1" = 1,500'





**FLIGHT YEAR:**  
2010

**Photo 1**



**Scale:** 1" = 1,500'





**FLIGHT YEAR:**  
2010

**Photo 2**



**Scale:** 1" = 1,500'





**FLIGHT YEAR:**  
2010

**Photo 3**



**Scale:** 1" = 1,500'





**FLIGHT YEAR:**  
2012

**Photo 1**



**Scale:** 1" = 1,500'





**FLIGHT YEAR:**  
2012

**Photo 2**



**Scale:** 1" = 1,500'





**FLIGHT YEAR:**  
2012

**Photo 3**



**Scale:** 1" = 1,500'





**FLIGHT YEAR:**  
2014

**Photo 1**



**Scale:** 1" = 1,500'





**FLIGHT YEAR:**  
2014

**Photo 2**



**Scale:** |-----|  
1" = 1,500'





**FLIGHT YEAR:**  
2014

**Photo 3**



**Scale:** 1" = 1,500'





**FLIGHT YEAR:**  
2016

**Photo 1**



**Scale:** 1" = 1,500'





**FLIGHT YEAR:**  
2016

**Photo 2**



**Scale:** 1" = 1,500'





**FLIGHT YEAR:**  
2016

**Photo 3**



**Scale:** 1" = 1,500'





FLIGHT YEAR:  
2018

Photo 1



Scale: |-----|  
1" = 1,500'





**FLIGHT YEAR:**  
2018

**Photo 2**



**Scale:** 1" = 1,500'





**FLIGHT YEAR:**  
2018

**Photo 3**



**Scale:** 1" = 1,500'





**FLIGHT YEAR:**  
2020

**Photo 1**

N  
W —+— E  
S

**Scale:** |—————| 1" = 1,500'





**FLIGHT YEAR:**  
2020

**Photo 2**



**Scale:** 1" = 1,500'



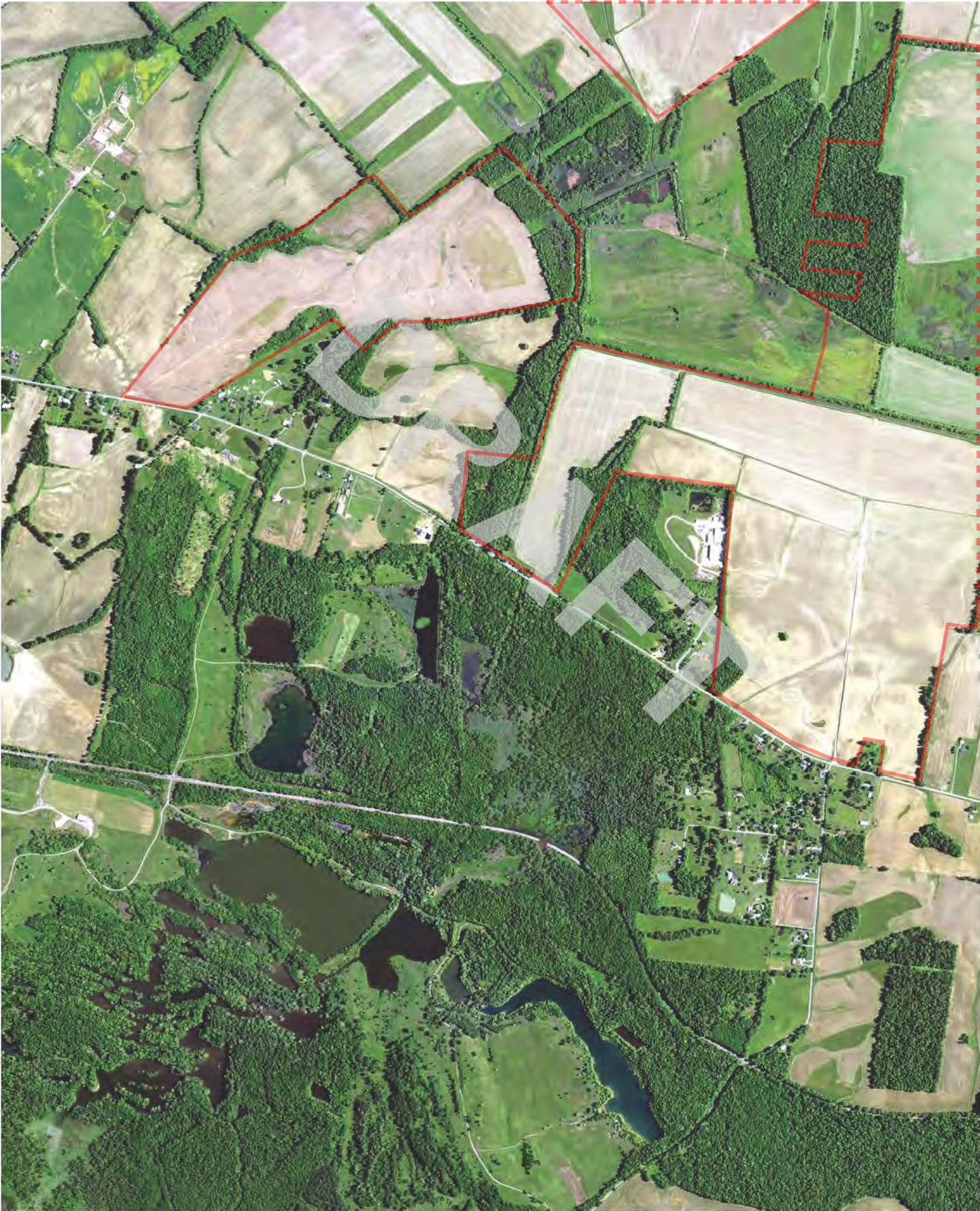


**FLIGHT YEAR:**  
2020

**Photo 3**



**Scale:** 1" = 1,500'





## Appendix D

### Regulatory Database Report

DRAFT





**ENVIROSITE**  
Corporation

## Government Records Report | 2023

Order Number: 85132

Report Generated: 03/30/2023

Project Name: Weirs Creek Solar Project

Project Number: 210152-0900

Weirs Creek Solar Project  
Approximately 2000 Acres  
Hopkins and Webster Counties, Kentucky

with [Envirosite Atlas](#)

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[envirositecorp.com](http://envirositecorp.com)



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<u>Property Proximity Map</u> .....	<u>8</u>
<u>Area Map</u> .....	<u>9</u>
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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-1527-21 Environmental Site Assessments standard.

**SUBJECT PROPERTY INFORMATION:**

**ADDRESS:**

Weirs Creek Solar Project  
Approximately 2000 Acres  
Hopkins and Webster Counties, Kentucky

**COORDINATES:**

Latitude (North):	37.408782 - 37°24'31.6"
Longitude (West):	-87.683200 - -87°40'59.5"
Universal Transverse Mercator:	Zone 16N
UTM X (Meters):	439538.14
UTM Y (Meters):	4140440.50
State Plane Coordinates:	1602 - Kentucky South (US Survey Feet)
X Coordinate (Feet):	1078965.509 E
Y Coordinate (Feet):	2037719.833 N

**ELEVATION:**

Elevation: 368 ft. above sea level

**USGS TOPOGRAPHIC MAP ASSOCIATED WITH SUBJECT PROPERTY:**

Subject Property Map: 37087-D6 Nebo, KY  
Most Recent Revision: 2019



<u>MAP ID</u>	<u>SITE NAME</u>	<u>ADDRESS</u>	<u>DATABASE(S)</u>	<u>RELATIVE ELEVATION</u>	<u>DIRECTION / DISTANCE</u>
1	N/R	37.41259, -87.681389	ICIS, PCS FACILITY		SP
2	WEBSTER COUNTY COAL LLC (917-5...	JCT OF KY 1089 & GRACE CA...	ECHO, FRS, HIST PCS ENF, HIST PCS FACILITY,...		SP
3	MICKEYD INC   DONALDSON FARMS	2105 DONALDSON RD	FRS, HIST NPDES - KY, SWF LF - KY		SP
4	WC WELDON ESTATE	HOKET NEBO RD	FRS		SP
5	Island Creek Coal Co - Provide...	37.395086, -87.710604	COAL MINES - KY	Higher	WSW / 0.176 mi., 927 ft.

DRAFT



**SUBJECT PROPERTY SEARCH RESULTS:**

The subject property was identified in the following records. For more information on this property, see Map Findings section on page 16.

<u>SITE</u>	<u>DATABASE(S)</u>	<u>EPA ID</u>
N/R 37.41259, -87.681389 NEBO (HOPKINS), KY 42441	ICIS, PCS FACILITY	N/R
WEBSTER COUNTY COAL LLC (917-5015)   WEBSTER CO COAL LLC JCT OF KY 1089 & GRACE CARTWRIGHT   ST RT 1089 & GRACE CARTWRIGHT PROVIDENCE, KY 42450	ECHO, FRS, HIST PCS ENF, HIST PCS FACILITY, ICIS, INACTIVE PCS, NPDES - KY	N/R
MICKEYD INC   DONALDSON FARMS 2105 DONALDSON RD NEBO (HOPKINS)   Nebo (Hopkins), KY 42441  SWF/LF - KY - ID: Agency Interest ID 38554 - ID: SI ID ACTV0000000001 - ID: SI ID ACTV0000000002 - ID: SI ID ACTV0000000003	FRS, HIST NPDES - KY, SWF/LF - KY  Status: N/A Status: Revoked Status: Revoked Status: Revoked	N/R  Date: N/A Date: Permit Expiration Date 2015-02-03 Date: Permit Expiration Date N/R Date: Permit Expiration Date N/R
WC WELDON ESTATE HOKET NEBO RD PROVIDENCE (WEBSTER), KY 42450	FRS	N/R

**SEARCH RESULTS:**

**OTHER ASCERTAINABLE RECORDS**

COAL MINES - KY: MMIS Coal Mine Data and Locations **1 SITE FOUND WITHIN .25 MILE**

**EQUAL/HIGHER ELEVATION**

<u>MAP ID</u>	<u>SITE NAME</u>	<u>SITE ADDRESS</u>	<u>DIRECTION/DISTANCE</u>	<u>PAGE</u>
5	Island Creek Coal Co - Providence 1   Island Creek Coal Co W Ky Div - Providence 1   Island Creek Coal West Ky Div - Providence 1	37.395086, -87.710604	WSW / 0.176 mi., 927 ft.	29

Following sites were unable to be mapped.

<u>SITE NAME:</u>	<u>ADDRESS, CITY, ZIP:</u>	<u>DATABASE(S):</u>
Hamby Landfill	KY 814, Nebo (Hopkins) 42441	SWF/LF - KY
TEXAS GAS - HOPKINS CO	UNKNOWN, UNKNOWN	VCP - KY

**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, STATE, AND TRIBAL REGISTERED STORAGE TANK LISTS**

AST PBS	ASTs at Bulk Petroleum Terminals
EPA UST	EPA UST Finder database



**FEDERAL, STATE, AND TRIBAL REGISTERED STORAGE TANK LISTS (cont.)**

FEMA UST	FEMA Underground Storage Tanks
HIST INDIAN UST R6	Historical Underground Storage Tanks on Indian Land in EPA Region 6
HIST INDIAN UST R7	Historical Underground Storage Tanks on Indian Land in EPA Region 7
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
UST - KY	Underground Storage Tanks

**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
EPA SAA	EPA Superfund Alternative Approach
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
HIST CORRACTS 2	Historical 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 LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS**

EPA LF MOP	EPA Landfill Methane Outreach Project Database
------------	--

**FEDERAL, STATE, AND TRIBAL LEAKING STORAGE TANK LISTS**

EPA LUST	EPA LUST
HIST INDIAN LUST R4	Historical Leaking Underground Storage Tanks on Indian Land in EPA Region 4
HIST INDIAN LUST R8	Historical Leaking Underground Storage Tanks on Indian Land in EPA Region 8
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
LUST - KY	Leaking Underground Storage Tanks

**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



**FEDERAL RCRA GENERATORS LIST**

HIST RCRA_CESQG	Historical Resource Conservation and Recovery Act_Conditionally Exempt Small Quantity Generators
HIST RCRA_LQG	Historical Resource Conservation and Recovery Act_ Large Quantity Generators
HIST RCRA_NONGEN	Historical Resource Conservation and Recovery Act_Non Generators
HIST RCRA_SQG	Historical Resource Conservation and Recovery Act_Small Quantity Generators
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
RCRA_VSQG	Resource Conservation and Recovery Act_Very Small Quantity Generator

**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

**STATE AND TRIBAL BROWNFIELD SITES**

TRIBAL BROWNFIELDS	Tribal Brownfields
BROWNFIELDS - KY	Brownfields
HIST BROWNFIELDS - KY	Historical Brownfields

**STATE INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES**

E C - KY	Engineering Controls
I C - KY	Institutional Controls

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

HIST LF - KY	Historical Land Fills
--------------	-----------------------

**STATE RCRA GENERATORS LIST**

HWF - KY	Hazardous Waste
----------	-----------------

**STATE- AND TRIBAL - EQUIVALENT CERCLIS**

SHWS - KY	State Hazardous Waste Sites
-----------	-----------------------------

**STATE AND TRIBAL VOLUNTARY CLEANUP SITES**

VCP - KY	Voluntary Cleanup Program
----------	---------------------------

**LOCAL BROWNFIELD LISTS**

BROWNFIELDS-ACRES	EPA ACRES Brownfields
FED BROWNFIELDS	Federal Brownfields

**LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES**

FED CDL	DOJ Clandestine Drug Labs
US HIST CDL	Historical Clandestine Drug Labs
CDL - KY	Clandestine Drug Labs
CDL LOUISVILLE - KY	Louisville Clandestine Drug Labs

**LOCAL LISTS OF LANDFILL / SOLID WASTE DISPOSAL SITES**

HIST INDIAN ODI R8	Historical Open Dump Inventory
INDIAN ODI R8	Open Dump Inventory
ODI	Open Dump Inventory
TRIBAL ODI	Indian Open Dump Inventory Sites



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

SWRCY - KY Solid Waste Recycling

**RECORDS OF EMERGENCY RELEASE REPORTS**

HMIRS (DOT) Hazardous Materials Information Reporting Systems

**LOCAL LAND RECORDS**

LIENS 2 CERCLA Lien Information

**OTHER ASCERTAINABLE RECORDS**

AFS	Air Facility Systems
ALT FUELING	Alternative Fueling Stations
ARENAS	ARENAS
ARENAS 2	ARENAS (additional)
BRS	Biennial Reporting Systems
CDC HAZDAT	Hazardous Substance Release and Health Effects Information
CHURCHES	CHURCHES
COAL ASH DOE	Coal Ash: Department of Energy
COAL ASH EPA	Coal Ash: Environmental Protection Agency
COAL GAS	Coal Gas Plants
COLLEGES	COLLEGES
COLLEGES 2	COLLEGES 2
CONSENT (DECREES)	Superfund Consent Decree
CORRECTIVE ACTIONS_2020	Wastes - Hazardous Waste - Corrective Action
DAYCARE	DAYCARE
DEBRIS EPA LF	EPA Disaster Debris Landfill Sites
DEBRIS EPA SWRCY	EPA Disaster Debris Recovery Sites
DOD	Department of Defense
DOT OPS	Department of Transportation Office of Pipeline Safety
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
FTTS	FIFRA/TSCA Tracking System
FTTS INSP	FIFRA/TSCA Tracking System: Inspections
FUDS	Formerly Used Defense Sites
GOV MANSIONS	Governors Mansions
HIST AFS	Historical Air Facility Systems
HIST AFS 2	Historical Air Facility Systems
HIST DOD	Department of Defense historical sites
HIST LEAD_SMELTER	Historical Lead Smelter Sites
HIST MLTS	Historical Material Licensing Tracking Systems
HIST PCB TRANS	Historical Polychlorinated Biphenyl (PCB) Facilities
HIST SSTS	Historical Section 7 Tracking Systems
HOSPITALS	HOSPITALS
HWC DOCKET	Hazardous Waste Compliance Docket
INDIAN RESERVATION	American Indian Lands
LUCIS	Land Use Control Information Systems
LUCIS 2	Land Use Control Information Systems 2
MANIFEST EPA	EPA Hazardous Waste Manifests
MINE OPERATIONS	Mines list from USGS
MINES	Mines
MINES USGS	Mines list from USGS
MLTS	Material Licensing Tracking Systems
NPL AOC	Areas related to NPL remediation sites
NPL LIENS	National Priority List Liens
NURSING HOMES	NURSING HOMES
OSHA	Occupational Safety & Health Administration

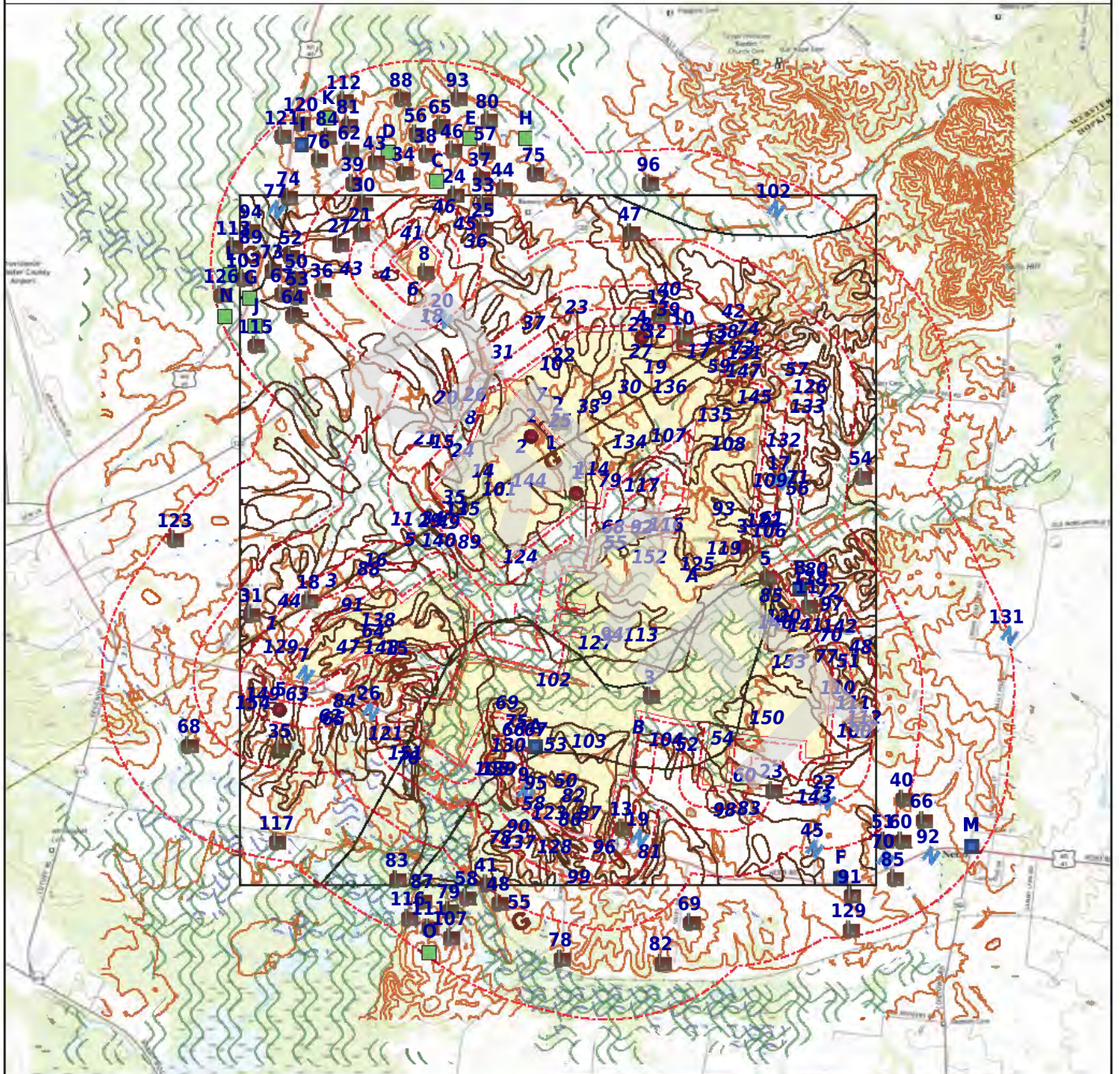
**OTHER ASCERTAINABLE RECORDS (cont.)**

PADS	PCB Activity Database Systems
PCB TRANSFORMER	Polychlorinated Biphenyl (PCB) Waste
PCS ENF	Enforced Permit Compliance Facilities
PFAS NPL	PFAS NPL Sites
PFAS TRIS	PFAS TRIS Sites
PFAS UCMR3	PFAS UCMR Samples
PRISONS	PRISONS
RAATS	RCRA Administrative Action Tracking Systems
RADINFO	Radiation Information Systems
RMP	Risk Management Plans
ROD	Record of Decision
SCHOOLS PRIVATE	SCHOOLS PRIVATE
SCHOOLS PUBLIC	SCHOOLS PUBLIC
SCRD DRYCLEANERS	SCRD Drycleaners
SEMS_SMELTER	Sites on SEMS Potential Smelter Activity
SSTS	Section 7 Tracking Systems
STORMWATER	Storm Water Permits
TOSCA-PLANT	Toxic Substance Control Act: Plants
TRIS	Toxic Release Inventory Systems
UMTRA	Uranium Mill Tailing Sites
VAPOR	EPA Vapor Intrusion
AIRS - KY	Air Permits
DAYCARE - KY	Daycare Facilities
DRYCLEANERS - KY	Drycleaners
FA 2 - KY	Financial Assurance for Solid Waste Facilities
FA 3 - KY	Financial Assurance for Hazardous Waste Facilities
HIST AIRS - KY	Historical Air Permits
HIST DRYCLEANERS - KY	Historical Drycleaners
LEAD - KY	LEAD Report Tracking Database
PFAS - KY	PFAS Site Listing
RANKING LIST - KY	SB193 Branch Site Inventory/FA 1 is now the Ranking List
SECONDARY SITES - KY	List of secondary categorized sites
UIC - KY	Underground Injection Control



SUBJECT NAME: Weirs Creek Solar Project  
 ADDRESS: Approximately 2000 Acres, Hopkins and Webs...  
 LAT/LONG: 37.408782 / -87.683200

PREPARED FOR: Environmental Consulting & Technology...  
 ORDER #: 85132  
 REPORT DATE: March 30, 2023

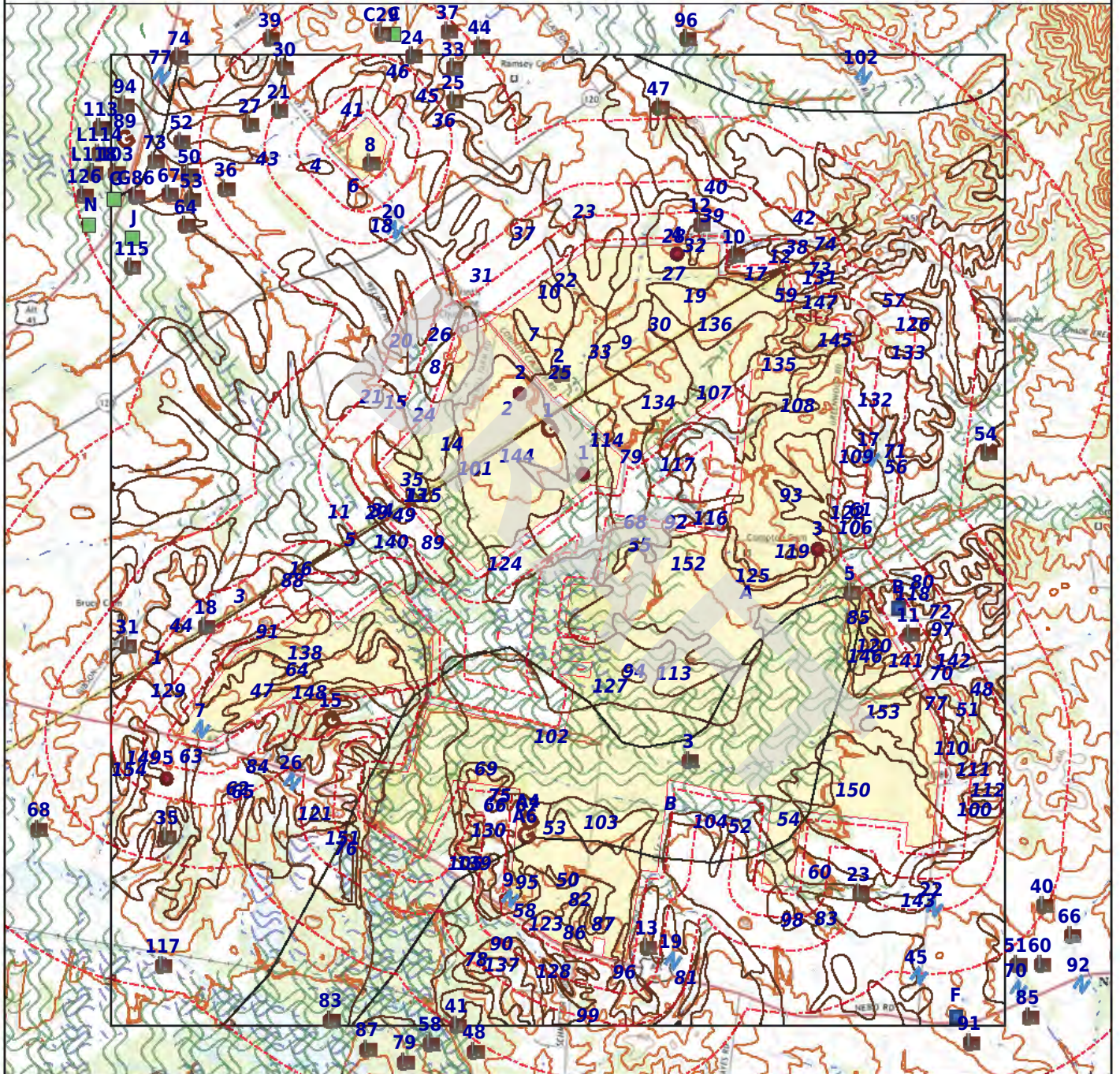


- |   |  |  |   |
|---|--|--|---|
| <ul style="list-style-type: none"> <li>◆ Subject Property</li> <li>□ Department of Defense (No Data)</li> <li>△ FEMA FloodZone 100</li> <li>⊠ National Priority List (No Data)</li> </ul> | <ul style="list-style-type: none"> <li>● Equal/Higher Elevation</li> <li>▽ DFIRM FloodZone 100</li> <li>⊠ FEMA FloodZone 100 (No Data)</li> <li>⊠ FEMA FloodZone 500 (No Data)</li> <li>▽ NWI</li> </ul> | <ul style="list-style-type: none"> <li>◆ Lower Elevation</li> <li>▽ DFIRM FloodZone 500 (No Data)</li> <li>○ Historical DOD (No Data)</li> </ul> | <ul style="list-style-type: none"> <li>⊠ CDC HAZDAT (No Data)</li> <li>⊠ Federal Lands (No Data)</li> <li>⊠ Indian Reservation (No Data)</li> </ul> |
|---|--|--|---|



SUBJECT NAME: Weirs Creek Solar Project  
 ADDRESS: Approximately 2000 Acres, Hopkins and Webs...  
 LAT/LONG: 37.408782 / -87.683200

PREPARED FOR: Environmental Consulting & Technology...  
 ORDER #: 85132  
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- ▼ Subject Property
 ● Equal/Higher Elevation
● Lower Elevation
● CDC HAZDAT (No Data)
- ▼ Department of Defense (No Data)
 ● DFIRM FloodZone 100
● DFIRM FloodZone 500 (No Data)
● Federal Lands (No Data)
- FEMA FloodZone 100
 - FEMA FloodZone 500 (No Data)
- Historical DOD (No Data)
- Indian Reservation (No Data)
- National Priority List (No Data)
 - NWI



<u>DATABASE</u>	<u>SUBJECT PROPERTY</u>	<u>SEARCH DISTANCE (MILES)</u>	<u>&lt;1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>&gt;1</u>	<u>TOTAL MAPPED</u>
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**FEDERAL RCRA NON-CORRACTS TSD FACILITIES LIST**

ARCHIVED RCRA TSD		0.500	0	0	0	--	--	0
RCRA_TSD		0.500	0	0	0	--	--	0

**FEDERAL, STATE, AND TRIBAL REGISTERED STORAGE TANK LISTS**

AST PBS		0.250	0	0	--	--	--	0
EPA UST		0.250	0	0	--	--	--	0
FEMA UST		0.250	0	0	--	--	--	0
HIST INDIAN UST R6		0.250	0	0	--	--	--	0
HIST INDIAN UST R7		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
UST - KY		0.250	0	0	--	--	--	0

**FEDERAL CERCLIS LIST**

CERCLIS NFRAP		0.500	0	0	0	--	--	0
CERCLIS-HIST		0.500	0	0	0	--	--	0
EPA SAA		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
HIST CORRACTS 2		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 LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS**

EPA LF MOP		0.500	0	0	0	--	--	0
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<u>DATABASE</u>	<u>SUBJECT PROPERTY</u>	<u>SEARCH DISTANCE (MILES)</u>	<u>&lt;1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>&gt;1</u>	<u>TOTAL MAPPED</u>
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**FEDERAL, STATE, AND TRIBAL LEAKING STORAGE TANK LISTS**

EPA LUST		0.500	0	0	0	--	--	0
HIST INDIAN LUST R4		0.500	0	0	0	--	--	0
HIST INDIAN LUST R8		0.500	0	0	0	--	--	0
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
LUST - KY		0.500	0	0	0	--	--	0

**FEDERAL ERNS LIST**

ERNS		SP	0	--	--	--	--	0
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**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

**FEDERAL RCRA GENERATORS LIST**

HIST RCRA_CESQG		0.250	0	0	--	--	--	0
HIST RCRA_LQG		0.250	0	0	--	--	--	0
HIST RCRA_NONGEN		0.250	0	0	--	--	--	0
HIST RCRA_SQG		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
RCRA_VSQG		0.250	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



<u>DATABASE</u>	<u>SUBJECT PROPERTY</u>	<u>SEARCH DISTANCE (MILES)</u>	<u>&lt;1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>&gt;1</u>	<u>TOTAL MAPPED</u>
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**FEDERAL NPL SITE LIST (cont.)**

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

**STATE AND TRIBAL BROWNFIELD SITES**

TRIBAL BROWNFIELDS		0.500	0	0	0	--	--	0
BROWNFIELDS - KY		0.500	0	0	0	--	--	0
HIST BROWNFIELDS - KY		0.500	0	0	0	--	--	0

**STATE INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES**

E C - KY		0.500	0	0	0	--	--	0
I C - KY		0.500	0	0	0	--	--	0

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

HIST LF - KY		0.500	0	0	0	--	--	0
SWF/LF - KY	X	0.500	0	0	0	--	--	1

**STATE RCRA GENERATORS LIST**

HWF - KY		0.250	0	0	--	--	--	0
----------	--	-------	---	---	----	----	----	---

**STATE- AND TRIBAL - EQUIVALENT CERCLIS**

SHWS - KY		1.000	0	0	0	0	--	0
-----------	--	-------	---	---	---	---	----	---

**STATE AND TRIBAL VOLUNTARY CLEANUP SITES**

VCP - KY		0.500	0	0	0	--	--	0
----------	--	-------	---	---	---	----	----	---

**LOCAL BROWNFIELD LISTS**

BROWNFIELDS-ACRES		0.500	0	0	0	--	--	0
FED BROWNFIELDS		0.500	0	0	0	--	--	0

**LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES**

FED CDL		SP	0	--	--	--	--	0
US HIST CDL		SP	0	--	--	--	--	0
CDL - KY		SP	0	--	--	--	--	0
CDL LOUISVILLE - KY		SP	0	--	--	--	--	0

**LOCAL LISTS OF LANDFILL / SOLID WASTE DISPOSAL SITES**

HIST INDIAN ODI R8		0.500	0	0	0	--	--	0
INDIAN ODI R8		0.500	0	0	0	--	--	0

<u>DATABASE</u>	<u>SUBJECT PROPERTY</u>	<u>SEARCH DISTANCE (MILES)</u>	<u>&lt;1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>&gt;1</u>	<u>TOTAL MAPPED</u>
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**LOCAL LISTS OF LANDFILL / SOLID WASTE DISPOSAL SITES (cont.)**

ODI		0.500	0	0	0	--	--	0
TRIBAL ODI		0.500	0	0	0	--	--	0
SWRCY - KY		0.500	0	0	0	--	--	0

**RECORDS OF EMERGENCY RELEASE REPORTS**

HMIRS (DOT)		SP	0	--	--	--	--	0
-------------	--	----	---	----	----	----	----	---

**LOCAL LAND RECORDS**

LIENS 2		SP	0	--	--	--	--	0
---------	--	----	---	----	----	----	----	---

**OTHER ASCERTAINABLE RECORDS**

AFS		SP	0	--	--	--	--	0
ALT FUELING		0.250	0	0	--	--	--	0
ARENAS		SP	0	--	--	--	--	0
ARENAS 2		SP	0	--	--	--	--	0
BRS		SP	0	--	--	--	--	0
CDC HAZDAT		1.000	0	0	0	0	--	0
CHURCHES		SP	0	--	--	--	--	0
COAL ASH DOE		0.500	0	0	0	--	--	0
COAL ASH EPA		0.500	0	0	0	--	--	0
COAL GAS		1.000	0	0	0	0	--	0
COLLEGES		SP	0	--	--	--	--	0
COLLEGES 2		SP	0	--	--	--	--	0
CONSENT (DECREES)		1.000	0	0	0	0	--	0
CORRECTIVE ACTIONS_2020		0.500	0	0	0	--	--	0
DAYCARE		SP	0	--	--	--	--	0
DEBRIS EPA LF		0.500	0	0	0	--	--	0
DEBRIS EPA SWRCY		0.500	0	0	0	--	--	0
DOD		1.000	0	0	0	0	--	0
DOT OPS		SP	0	--	--	--	--	0
ECHO	X	SP	--	--	--	--	--	1
ENOI		SP	0	--	--	--	--	0
EPA FUELS		SP	0	--	--	--	--	0
EPA OSC		0.125	0	--	--	--	--	0
EPA WATCH		SP	0	--	--	--	--	0
FA HWF		SP	0	--	--	--	--	0
FEDLAND		1.000	0	0	0	0	--	0
FRS	X	SP	--	--	--	--	--	3



<u>DATABASE</u>	<u>SUBJECT PROPERTY</u>	<u>SEARCH DISTANCE (MILES)</u>	<u>&lt;1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>&gt;1</u>	<u>TOTAL MAPPED</u>
<b>OTHER ASCERTAINABLE RECORDS (cont.)</b>								
FTTS		SP	0	--	--	--	--	0
FTTS INSP		SP	0	--	--	--	--	0
FUDS		1.000	0	0	0	0	--	0
GOV MANSIONS		SP	0	--	--	--	--	0
HIST AFS		SP	0	--	--	--	--	0
HIST AFS 2		SP	0	--	--	--	--	0
HIST DOD		1.000	0	0	0	0	--	0
HIST LEAD_SMELTER		SP	0	--	--	--	--	0
HIST MLTS		SP	0	--	--	--	--	0
HIST PCB TRANS		SP	0	--	--	--	--	0
HIST PCS ENF	X	SP	--	--	--	--	--	1
HIST PCS FACILITY	X	SP	--	--	--	--	--	1
HIST SSTS		SP	0	--	--	--	--	0
HOSPITALS		SP	0	--	--	--	--	0
HWC DOCKET		SP	0	--	--	--	--	0
ICIS	X	SP	--	--	--	--	--	2
INACTIVE PCS	X	SP	--	--	--	--	--	1
INDIAN RESERVATION		1.000	0	0	0	0	--	0
LUCIS		0.500	0	0	0	--	--	0
LUCIS 2		0.500	0	0	0	--	--	0
MANIFEST EPA		0.250	0	0	--	--	--	0
MINE OPERATIONS		0.250	0	0	--	--	--	0
MINES		0.250	0	0	--	--	--	0
MINES USGS		0.250	0	0	--	--	--	0
MLTS		SP	0	--	--	--	--	0
NPL AOC		1.000	0	0	0	0	--	0
NPL LIENS		SP	0	--	--	--	--	0
NURSING HOMES		SP	0	--	--	--	--	0
OSHA		SP	0	--	--	--	--	0
PADS		SP	0	--	--	--	--	0
PCB TRANSFORMER		SP	0	--	--	--	--	0
PCS ENF		SP	0	--	--	--	--	0
PCS FACILITY	X	SP	--	--	--	--	--	1
PFAS NPL		0.500	0	0	0	--	--	0
PFAS TRIS		0.500	0	0	0	--	--	0
PFAS UCMR3		0.500	0	0	0	--	--	0

<u>DATABASE</u>	<u>SUBJECT PROPERTY</u>	<u>SEARCH DISTANCE (MILES)</u>	<u>&lt;1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>&gt;1</u>	<u>TOTAL MAPPED</u>
<b>OTHER ASCERTAINABLE RECORDS (cont.)</b>								
PRISONS		SP	0	--	--	--	--	0
RAATS		SP	0	--	--	--	--	0
RADINFO		SP	0	--	--	--	--	0
RMP		0.250	0	0	--	--	--	0
ROD		1.000	0	0	0	0	--	0
SCHOOLS PRIVATE		SP	0	--	--	--	--	0
SCHOOLS PUBLIC		SP	0	--	--	--	--	0
SCRD DRYCLEANERS		0.250	0	0	--	--	--	0
SEMS_SMELTER		SP	0	--	--	--	--	0
SSTS		SP	0	--	--	--	--	0
STORMWATER		SP	0	--	--	--	--	0
TOSCA-PLANT		SP	0	--	--	--	--	0
TRIS		SP	0	--	--	--	--	0
UMTRA		0.500	0	0	0	--	--	0
VAPOR		0.500	0	0	0	--	--	0
AIRS - KY		SP	0	--	--	--	--	0
COAL MINES - KY		0.250	0	1	--	--	--	1
DAYCARE - KY		SP	0	--	--	--	--	0
DRYCLEANERS - KY		0.250	0	0	--	--	--	0
FA 2 - KY		SP	0	--	--	--	--	0
FA 3 - KY		SP	0	--	--	--	--	0
HIST AIRS - KY		SP	0	--	--	--	--	0
HIST DRYCLEANERS - KY		0.250	0	0	--	--	--	0
HIST NPDES - KY	X	SP	--	--	--	--	--	1
LEAD - KY		SP	0	--	--	--	--	0
NPDES - KY	X	SP	--	--	--	--	--	1
PFAS - KY		0.500	0	0	0	--	--	0
RANKING LIST - KY		SP	0	--	--	--	--	0
SECONDARY SITES - KY		0.500	0	0	0	--	--	0
UIC - KY		SP	0	--	--	--	--	0



Map Id: 1  
 Direction:  
 Distance:  
 Elevation:  
 Relative:

**Site Name :** N/R  
 37.41259, -87.681389  
 NEBO (HOPKINS), KY 42441  
**Database(s) :** [ICIS, PCS FACILITY]

Envirosite ID: 42310333  
 EPA ID: N/R

ICIS

Facility Name : NEBO-PROVIDENCE POLE REPLACEMENT PROJECT  
 Facility Address : VARIOUS, NEBO (HOPKINS), KY 42441

Site Details

NPDES ID : KYR10P419  
 ICIS Facility Interest ID : 3601299432  
 Facility UIN : 110070949052  
 Facility Type Code : N/R  
 Impaired Waters : N/R  
 Latitude : 37.41259  
 Longitude : -87.681389  
 Last Date in Agency List : 2021-08-17

Facility SIC

SIC Code : 1611  
 SIC Description : Highway And Street Construction

PCS FACILITY

Issue Date : 2021-05-24  
 Original Issue Date : 2021-05-24  
 Effective Date : 2021-05-24  
 Expiration Date : 2024-11-30  
 Retirement Date : N/R  
 Termination Date : N/R  
 Issuing Agency : KY DEP  
 Agency Type : State  
 Activity ID : 3602719890  
 External Permit Number : N/R  
 Facility Type Indicator : NON-POTW  
 Permit Type : General Permit Covered Facility-NPDES)  
 Major Minor Status : N  
 Permit Status : Effective  
 Total Design Flow Number : N/R  
 Actual Average Flow Number : N/R  
 State Water Body : N/R  
 State Water Body Name : Weirs Creek  
 Permit Name : Nebo-Providence Pole Replacement Project  
 Permit Comp Status : Y  
 RNC Tracking : Y  
 Master External Permit Number : KYR100000  
 TMDL Interface : N/R  
 EDMR Authorization : N  
 Pretreatment Indicator : N/R  
 Last Date in Agency List : 2021-08-19

Map Id: 2  
 Direction:  
 Distance:  
 Elevation:  
 Relative:

**Site Name :** WEBSTER COUNTY COAL LLC (917-5015)  
 | WEBSTER CO COAL LLC  
 JCT OF KY 1089 & GRACE CARTWRIGHT |  
 ST RT 1089 & GRACE CARTWRIGHT  
 PROVIDENCE, KY 42450

**Database(s) :** [ECHO, FRS, HIST PCS ENF, HIST PCS  
 FACILITY, ICIS, INACTIVE PCS, NPDES - KY]

EnviroSite ID: 2576006  
 EPA ID: N/R

ECHO

Facility Name : WEBSTER CO COAL LLC  
 Facility Address : ST RT 1089 & GRACE CARTWRIGHT, PROVIDENCE, KY 42450  
 County : WEBSTER

Last Inspection Date : 2015-04-06  
 Registry ID : 110009964949  
 FIPS Code : KY233  
 EPA Region : 04  
 Inspection Count : 1  
 Last Inspection Days : 280  
 Informal Count : 0  
 Last Informal Action Date : N/R  
 Formal Action Count : 0  
 Last Formal Action Date : N/R  
 Total Penalties : 0  
 Penalty Count : 0  
 Last Penalty Date : N/R  
 Last Penalty Amount : N/R  
 QTRS IN NC : 1  
 Programs IN SNC : 0  
 Current Compliance Status : Unknown  
 Three-Year Compliance Status :          VU  
 Collection Method : INTERPOLATION-MAP  
 Reference Point : CENTER OF A FACILITY OR STATION  
 Accuracy Meters : 99999999  
 Derived Tribes : N/R  
 Derived HUC : 05140205  
 Derived WBD : 051402050203  
 Derived STCTY FIPS : 21233  
 Derived Zip : 42450  
 Derived CD113 : 01  
 Derived CB2010 : 212339604001030  
 MYRTK Universe : NNN  
 NPDES IDs : KYG045559  
 CWA Permit Types : Minor  
 CWA Compliance Tracking : Off  
 CWA NAICS : N/R  
 CWA SICS : 1221  
 CWA Inspection Count : 1  
 CWA Last Inspection Days : 279  
 CWA Informal Count : N/R  
 CWA Formal Action Count : N/R  
 CWA Last Formal Action Date : N/R  
 CWA Penalties : N/R  
 CWA Last Penalty Date : N/R  
 CWA Last Penalty Amount : N/R  
 CWA Quarters IN NC : 1  
 CWA Current Compliance Status : Unknown  
 CWA Current SNC Flag : N  
 CWA 13 Quarters Compliance Status :          VU  
 CWA 13 Quarters Effluent Exceedances: N/R  
 CWA Three-Year QNCR Codes : N/R



Map Id: 2  
 Direction:  
 Distance:  
 Elevation:  
 Relative:

**Site Name :** WEBSTER COUNTY COAL LLC (917-5015)  
 | WEBSTER CO COAL LLC  
 JCT OF KY 1089 & GRACE CARTWRIGHT |  
 ST RT 1089 & GRACE CARTWRIGHT  
 PROVIDENCE, KY 42450

**Database(s) :** [ECHO, FRS, HIST PCS ENF, HIST PCS  
 FACILITY, ICIS, INACTIVE PCS, NPDES - KY]  
**(cont.)**

EnviroSite ID: 2576006  
 EPA ID: N/R

ECHO (cont.)

DFR URL :	<a href="#">Click here for hyperlink provided by the agency.</a>
Facility SIC :	1221
Facility NAICS :	N/R
Facility Last Inspection EPA Date :	N/R
Facility Last Inspection State Date :	2015-04-06
Facility Last Formal Act EPA Date :	N/R
Facility Last Formal Act State Date :	N/R
Facility Last Informal Act EPA Date :	N/R
Facility Last Informal Act State Date:	N/R
Facility Federal Agency :	N/R
TRI Reporter :	N/R
Facility Imp Water Flag :	N/R
Current SNC Flag :	N
Indian County Flag :	N
Federal Flag :	N
US Mexico Border Flag :	N/R
Chesapeake Bay Flag :	N/R
AIR Flag :	N
NPDES Flag :	Y
SDWIS Flag :	N
RCRA Flag :	N
TRI Flag :	N
GHG Flag :	N
Major Flag :	N/R
Active Flag :	N/R
NAA Flag :	N/R
Latitude :	37.417222
Longitude :	-87.685833
Last Date in Agency List :	2016-01-19

Facility Name :	WEBSTER COUNTY COAL LLC (917-5015)
Facility Address :	JCT OF KY 1089 & GRACE CARTWRIGHT, PROVIDENCE, KY 42450
County :	WEBSTER

Last Inspection Date :	2015-04-06
Registry ID :	110009964949
FIPS Code :	21233
EPA Region :	04
Inspection Count :	0
Last Inspection Days :	2799
Informal Count :	0
Last Informal Action Date :	N/R
Formal Action Count :	0
Last Formal Action Date :	N/R
Total Penalties :	0
Penalty Count :	N/R
Last Penalty Date :	N/R
Last Penalty Amount :	N/R
QTRS IN NC :	0
Programs IN SNC :	0
Current Compliance Status :	N/R

Map Id: 2  
 Direction:  
 Distance:  
 Elevation:  
 Relative:

**Site Name :** WEBSTER COUNTY COAL LLC (917-5015)  
 | WEBSTER CO COAL LLC  
 JCT OF KY 1089 & GRACE CARTWRIGHT |  
 ST RT 1089 & GRACE CARTWRIGHT  
 PROVIDENCE, KY 42450

**Database(s) :** [ECHO, FRS, HIST PCS ENF, HIST PCS  
 FACILITY, ICIS, INACTIVE PCS, NPDES - KY]  
**(cont.)**

EnviroSite ID: 2576006  
 EPA ID: N/R

ECHO (cont.)

Three-Year Compliance Status :	N/R
Collection Method :	INTERPOLATION-MAP
Reference Point :	CENTER OF A FACILITY OR STATION
Accuracy Meters :	50
Derived Tribes :	N/R
Derived HUC :	05140205
Derived WBD :	051402050203
Derived STCTY FIPS :	21233
Derived Zip :	42450
Derived CD113 :	01
Derived CB2010 :	212339604001030
MYRTK Universe :	NNN
NPDES IDs :	KYG045559
CWA Permit Types :	Minor
CWA Compliance Tracking :	Off
CWA NAICS :	212111
CWA SICs :	1221
CWA Inspection Count :	N/R
CWA Last Inspection Days :	2798
CWA Informal Count :	N/R
CWA Formal Action Count :	N/R
CWA Last Formal Action Date :	N/R
CWA Penalties :	N/R
CWA Last Penalty Date :	N/R
CWA Last Penalty Amount :	N/R
CWA Quarters IN NC :	0
CWA Current Compliance Status :	Terminated Permit
CWA Current SNC Flag :	N
CWA 13 Quarters Compliance Status :	N/R
CWA 13 Quarters Effluent Exceedances:	N/R
CWA Three-Year QNCR Codes :	N/R
DFR URL :	<a href="#">Click here for hyperlink provided by the agency.</a>
Facility SIC :	1221
Facility NAICS :	212111 - Bituminous Coal and Lignite Surface Mining
Facility Last Inspection EPA Date :	N/R
Facility Last Inspection State Date :	2015-04-06
Facility Last Formal Act EPA Date :	N/R
Facility Last Formal Act State Date :	N/R
Facility Last Informal Act EPA Date :	N/R
Facility Last Informal Act State Date:	N/R
Facility Federal Agency :	N/R
TRI Reporter :	N/R
Facility Imp Water Flag :	N/R
Current SNC Flag :	N
Indian County Flag :	N
Federal Flag :	N/R
US Mexico Border Flag :	N/R
Chesapeake Bay Flag :	N/R
AIR Flag :	N
NPDES Flag :	Y
SDWIS Flag :	N
RCRA Flag :	N
TRI Flag :	N



Map Id: 2  
 Direction:  
 Distance:  
 Elevation:  
 Relative:

**Site Name :** WEBSTER COUNTY COAL LLC (917-5015)  
 | WEBSTER CO COAL LLC  
 JCT OF KY 1089 & GRACE CARTWRIGHT |  
 ST RT 1089 & GRACE CARTWRIGHT  
 PROVIDENCE, KY 42450

**Database(s) :** [ECHO, FRS, HIST PCS ENF, HIST PCS  
 FACILITY, ICIS, INACTIVE PCS, NPDES - KY]  
**(cont.)**

**EnviroSite ID:** 2576006  
**EPA ID:** N/R

ECHO (cont.)

GHG Flag : N  
 Major Flag : N/R  
 Active Flag : N/R  
 NAA Flag : N  
 Latitude : 37.417222  
 Longitude : -87.685833  
 Last Date in Agency List : 2023-01-16

FRS

Facility Name : WEBSTER COUNTY COAL LLC (917-5015)  
 Facility Address : JCT OF KY 1089 & GRACE CARTWRIGHT, PROVIDENCE, KY 42450  
 County : WEBSTER

Site Details

Registry ID : 110009964949  
 FRS Facility URL : [Click here for hyperlink provided by the agency.](#)  
 Last Date in Agency List : 2023-02-13

Source Description

Source Description :

The NPDES module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

FRS Environmental Interest

Source and System ID : ICIS - KYG045559

HIST PCS ENF

Facility Name : WEBSTER CO COAL LLC  
 Facility Address : ST RT 1089 & GRACE CARTWRIGHT, PROVIDENCE, KY 42450

Effective Date : 2009-08-01  
 Expiration Date : 2014-07-31  
 NPDES ID : KYG045559  
 FRS Facility Site ID : 1178425  
 Primary Facility SIC Code : N/R  
 Primary Facility SIC Description : N/R  
 Current Major/Minor Status : Minor  
 Facility Type Description : Privately Owned Facility

Map Id: 2  
 Direction:  
 Distance:  
 Elevation:  
 Relative:

**Site Name :** WEBSTER COUNTY COAL LLC (917-5015)  
 | WEBSTER CO COAL LLC  
 JCT OF KY 1089 & GRACE CARTWRIGHT |  
 ST RT 1089 & GRACE CARTWRIGHT  
 PROVIDENCE, KY 42450

**Database(s) :** [ECHO, FRS, HIST PCS ENF, HIST PCS  
 FACILITY, ICIS, INACTIVE PCS, NPDES - KY]  
**(cont.)**

EnviroSite ID: 2576006  
 EPA ID: N/R

HIST PCS ENF (cont.)

Facility Non-Government Contact Name: N/R  
 Facility Non-Gov Addresses : 2668 ST RT 120 E, PROVIDENCE, KY 42450  
 Total Actual Average Flow (MGD) : N/R  
 Total App. Design Flow (MGD) : N/R  
 Pretreat Program Required Indicator : N/R  
 State Water Body : 05140205  
 State Water Body Name : WEIRS CRK  
 Tribal Land Code : N/R  
 Tribal Land Name : N/R  
 Contact Office Telephone Number : N/R  
 Permit Non-Gov Addresses : ST RT 1089 & GRACE CARTWRIGHT  
 Permit Non-Government Contact Name : N/R  
 Permit Type Description : General Permit Covered Facility  
 Last Date in Agency List : 2015-01-15

Effective Date : 2009-08-01  
 Expiration Date : 2014-07-31  
 NPDES ID : KYG045559  
 FRS Facility Site ID : 1178425  
 Primary Facility SIC Code : N/R  
 Primary Facility SIC Description : N/R  
 Current Major/Minor Status : Minor  
 Facility Type Description : Privately Owned Facility  
 Facility Non-Government Contact Name: N/R  
 Facility Non-Gov Addresses : 2668 ST RT 120 E, PROVIDENCE, KY 42450  
 Total Actual Average Flow (MGD) : N/R  
 Total App. Design Flow (MGD) : N/R  
 Pretreat Program Required Indicator : N/R  
 State Water Body : 05140205  
 State Water Body Name : WEIRS CRK  
 Tribal Land Code : N/R  
 Tribal Land Name : N/R  
 Contact Office Telephone Number : N/R  
 Permit Non-Gov Addresses : C/O ROSEDALE SERVICES INC  
 Permit Non-Government Contact Name : N/R  
 Permit Type Description : General Permit Covered Facility  
 Last Date in Agency List : 2015-01-15

HIST PCS FACILITY

Facility Name : WEBSTER CO COAL LLC  
 Facility Address : ST RT 1089 & GRACE CARTWRIGHT, PROVIDENCE, KY 42450  
 County : N/R

FRS Facility Site ID : 1178425  
 NPDES ID : KYG045559  
 Current Major/Minor Status : Minor  
 Facility Type Description : Privately Owned Facility  
 Permit Type : General Permit Covered Facility  
 Primary Facility SIC Code : N/R  
 Primary Facility SIC Description : N/R



Map Id: 2  
 Direction:  
 Distance:  
 Elevation:  
 Relative:

**Site Name :** WEBSTER COUNTY COAL LLC (917-5015)  
 | WEBSTER CO COAL LLC  
 JCT OF KY 1089 & GRACE CARTWRIGHT |  
 ST RT 1089 & GRACE CARTWRIGHT  
 PROVIDENCE, KY 42450

**Database(s) :** [ECHO, FRS, HIST PCS ENF, HIST PCS  
 FACILITY, ICIS, INACTIVE PCS, NPDES - KY]  
**(cont.)**

EnviroSite ID: 2576006  
 EPA ID: N/R

HIST PCS FACILITY (cont.)

Total Actual Average Flow (MGD) : N/R  
 Total App. Design Flow (MGD) : N/R  
 Pretreat Prog Req'd Indicator  
 Description: N/R  
 State Water Body Number : 05140205  
 State Water Body Name : WEIRS CRK  
 Effective Date : 2009-08-01 00:00:00  
 Expiration Date : 2014-07-31 00:00:00  
 Tribal Land Code : N/R  
 Tribal Land Name : N/R  
 Facility Contact Name : N/R  
 Contact Number : N/R  
 Contact Address : 2668 ST RT 120 E, PROVIDENCE, KY 42450  
 Permit Contact Name : N/R  
 Permit Contact Address : C/O ROSEDALE SERVICES INC, BOONVILLE, IN 47601  
 Latitude : 37.417222  
 Longitude : -87.685833  
 Last Date in Agency list : 2014-12-10

FRS Facility Site ID : 1178425  
 NPDES ID : KYG045559  
 Current Major/Minor Status : Minor  
 Facility Type Description : Privately Owned Facility  
 Permit Type : General Permit Covered Facility  
 Primary Facility SIC Code : N/R  
 Primary Facility SIC Description : N/R  
 Total Actual Average Flow (MGD) : N/R  
 Total App. Design Flow (MGD) : N/R  
 Pretreat Prog Req'd Indicator  
 Description: N/R  
 State Water Body Number : 05140205  
 State Water Body Name : WEIRS CRK  
 Effective Date : 2009-08-01 00:00:00  
 Expiration Date : 2014-07-31 00:00:00  
 Tribal Land Code : N/R  
 Tribal Land Name : N/R  
 Facility Contact Name : N/R  
 Contact Number : N/R  
 Contact Address : 2668 ST RT 120 E, PROVIDENCE, KY 42450  
 Permit Contact Name : N/R  
 Permit Contact Address : ST RT 1089 & GRACE CARTWRIGHT, PROVIDENCE, KY 42450  
 Latitude : 37.417222  
 Longitude : -87.685833  
 Last Date in Agency list : 2014-12-10

ICIS

Facility Name : WEBSTER CO COAL LLC  
 Facility Address : ST RT 1089 & GRACE CARTWRIGHT, PROVIDENCE, KY 42450

Map Id: 2  
Direction:  
Distance:  
Elevation:  
Relative:

<b>Site Name :</b>	WEBSTER COUNTY COAL LLC (917-5015)   WEBSTER CO COAL LLC JCT OF KY 1089 & GRACE CARTWRIGHT   ST RT 1089 & GRACE CARTWRIGHT PROVIDENCE, KY 42450
<b>Database(s) :</b>	[ECHO, FRS, HIST PCS ENF, HIST PCS FACILITY, ICIS, INACTIVE PCS, NPDES - KY] <b>(cont.)</b>

Envirosite ID: 2576006  
EPA ID: N/R

ICIS (cont.)

Site Details

NPDES ID :	KYG045559
ICIS Facility Interest ID :	2400060167
Facility UIN :	110009964949
Facility Type Code :	Privately Owned Facility
Impaired Waters :	N/R
Latitude :	37.4172
Longitude :	-87.6858
Last Date in Agency List :	2016-01-15

Facility NAICS

NAICS Code :	212111
NAICS Description :	Bituminous Coal and Lignite Surface Mining

Facility SIC

SIC Code :	1221
SIC Description :	Bituminous Coal And Lignite - Surface

Facility Name :	WEBSTER COUNTY COAL LLC (917-5015)
Facility Address :	JCT OF KY 1089 & GRACE CARTWRIGHT, PROVIDENCE, KY 42450

Site Details

NPDES ID :	KYG045559
ICIS Facility Interest ID :	2400060167
Facility UIN :	110009964949
Facility Type Code :	Corporation
Impaired Waters :	N/R
Latitude :	37.417222
Longitude :	-87.685833
Last Date in Agency List :	2022-12-28

Facility NAICS

NAICS Code :	212111
NAICS Description :	Bituminous Coal and Lignite Surface Mining

Facility SIC

SIC Code :	1221
SIC Description :	Bituminous Coal And Lignite - Surface



Map Id: 2  
 Direction:  
 Distance:  
 Elevation:  
 Relative:

**Site Name :** WEBSTER COUNTY COAL LLC (917-5015)  
 | WEBSTER CO COAL LLC  
 JCT OF KY 1089 & GRACE CARTWRIGHT |  
 ST RT 1089 & GRACE CARTWRIGHT  
 PROVIDENCE, KY 42450

**Database(s) :** [ECHO, FRS, HIST PCS ENF, HIST PCS  
 FACILITY, ICIS, INACTIVE PCS, NPDES - KY]  
**(cont.)**

EnviroSite ID: 2576006  
 EPA ID: N/R

INACTIVE PCS

Issue Date :	2009-07-01
Original Issue Date :	1999-11-19
Effective Date :	2009-08-01
Expiration Date :	2014-07-31
Retirement Date :	N/R
Termination Date :	2015-06-01
Issuing Agency :	N/R
Agency Type :	State
Activity ID :	2400143490
External Permit Number :	KYG045559
Facility Type Indicator :	NON-POTW
Permit Type :	General Permit Covered Facility-NPDES)
Major Minor Status :	N
Permit Status :	Terminated
Total Design Flow Number :	N/R
Actual Average Flow Number :	N/R
State Water Body :	05140205
State Water Body Name :	WEIRS CRK
Permit Name :	Webster County Coal LLC (917-5015)
Permit Comp Status :	Y
RNC Tracking :	Y
Master External Permit Number :	KYG040000
TMDL Interface :	N/R
EDMR Authorization :	N
Pretreatment Indicator :	N/R
Last Date in Agency List :	2022-12-28

NPDES - KY

Facility Name :	WEBSTER COUNTY COAL LLC (917-5015)
Facility Address :	JCT OF KY 1089 & GRACE CARTWRIGHT, PROVIDENCE, KY 42450
County :	Webster

Site Details

Issued Date :	2009-07-01
Original Issued Date :	1999-11-19
Effective Date :	2009-08-01
Expiration Date :	2014-07-31
Termination Date :	2015-06-01
NPDES ID :	KYG045559
State Facility ID :	15367
Major/Minor Status :	Minor
Primary Permit SIC Code :	1221
Primary Permit SIC Description :	Bituminous Coal And Lignite - Surface
DMR Cognizant Official :	Brad Damron
DMR Cognizant Telephone :	N/R
Total App Design Flow Mgd :	N/R
Total Actual Average Flow Mgd :	N/R
Permit Type Description :	General Permit Covered Facility
Identifying Descriptive Info Permit Status:	Terminated

Map Id: 2  
Direction:  
Distance:  
Elevation:  
Relative:

<b>Site Name :</b>	WEBSTER COUNTY COAL LLC (917-5015)   WEBSTER CO COAL LLC JCT OF KY 1089 & GRACE CARTWRIGHT   ST RT 1089 & GRACE CARTWRIGHT PROVIDENCE, KY 42450
<b>Database(s) :</b>	[ECHO, FRS, HIST PCS ENF, HIST PCS FACILITY, ICIS, INACTIVE PCS, NPDES - KY] <b>(cont.)</b>

Envirosite ID: 2576006  
EPA ID: N/R

NPDES - KY (cont.)

Approved For Electronic DMR Submission:	No
State Water Body :	05140205
State Water Body Name :	WEIRS CRK
Federal Facility ID :	N/R
Facility Type Indicator :	NON-POTW
UDF1 :	N/R
UDF2 :	N/R
UDF3 :	SW Industrial-Coal
UDF4 :	MIN
UDF5 :	No NetDMR Requirement
Facility UDF1 :	N/R
Facility UDF2 :	N/R
Facility UDF3 :	N/R
Facility UDF4 :	N/R
Facility UDF5 :	N/R
Affiliation Type Code :	PMA
Organization Formal Name :	Webster County Coal LLC (917-5015)
Organization Address :	1146 Monarch St, Lexington, KY 40513 018
Horizontal Collect Method :	
Identifying and Descriptive Info Facility Type:	Corporation
Latitude :	37.417222
Longitude :	-87.685833
Last Date in Agency List :	2023-03-07

Map Id: 3  
Direction:  
Distance:  
Elevation:  
Relative:

<b>Site Name :</b>	MICKEYD INC   DONALDSON FARMS 2105 DONALDSON RD NEBO (HOPKINS)   Nebo (Hopkins), KY 42441
<b>Database(s) :</b>	[FRS, HIST NPDES - KY, SWF/LF - KY]

Envirosite ID: 2549374  
EPA ID: N/R

FRS

Facility Name :	DONALDSON FARMS
Facility Address :	2105 DONALDSON RD, NEBO (HOPKINS), KY 42441
County :	HOPKINS

Site Details

Registry ID :	110045020936
FRS Facility URL :	<a href="#">Click here for hyperlink provided by the agency.</a>
Last Date in Agency List :	2023-02-13



Map Id: 3  
 Direction:  
 Distance:  
 Elevation:  
 Relative:

**Site Name :** MICKEYD INC | DONALDSON FARMS  
 2105 DONALDSON RD  
 NEBO (HOPKINS) | Nebo (Hopkins), KY  
 42441

**Database(s) :** [FRS, HIST NPDES - KY, SWF/LF - KY]  
**(cont.)**

**EnviroSite ID:** 2549374  
**EPA ID:** N/R

**FRS (cont.)**

Source Description

Source Description :

KENTUCKY- Tools for Environmental Management and Protection Organizations (KY-TEMPO) is Kentucky's central repository for facility data and includes permits, surveillance, enforcement, and remediation information.

FRS Environmental Interest

Source and System ID : KY-TEMPO - 10059

Facility Name : MICKEYD INC  
 Facility Address : 2105 DONALDSON RD, NEBO (HOPKINS), KY 42441  
 County : HOPKINS

Site Details

Registry ID : 110045085322  
 FRS Facility URL : [Click here for hyperlink provided by the agency.](#)  
 Last Date in Agency List : 2023-02-13

Source Description

Source Description :

KENTUCKY- Tools for Environmental Management and Protection Organizations (KY-TEMPO) is Kentucky's central repository for facility data and includes permits, surveillance, enforcement, and remediation information.

FRS Environmental Interest

Source and System ID : KY-TEMPO - 38554

HIST NPDES - KY

Facility Name : Mickeyd Inc  
 Facility Address : 2105 Donaldson Rd, Nebo (Hopkins), KY 42441  
 County : Hopkins

Site Details

Milestone Date : 2021-05-13  
 Issued Date : 2021-05-07  
 Agency ID : 38554  
 AI Type : WASTE-Other Solid Waste Trt & Disposal (562219)  
 Program : Wastewater  
 Activity Type : Inactivation of Permit  
 Current Milestone : Authorization Inactivated

Map Id: 3  
 Direction:  
 Distance:  
 Elevation:  
 Relative:

**Site Name :** MICKEYD INC | DONALDSON FARMS  
 2105 DONALDSON RD  
 NEBO (HOPKINS) | Nebo (Hopkins), KY  
 42441

**Database(s) :** [FRS, HIST NPDES - KY, SWF/LF - KY]  
**(cont.)**

EnviroSite ID: 2549374  
 EPA ID: N/R

HIST NPDES - KY **(cont.)**

Regulatory Status : Active  
 Last Date in Agency List : 2021-10-01

Licensed Operators

Relationship Start Date : N/R  
 Licensee Name : N/R

Alternative Identifiers

Start Date : 2005-04-21  
 End Date : N/R  
 Data Value : 211070DOR  
 Alternate Name : Donaldson Farms  
 Data Label : DAQTSB- General

Start Date : 2003-06-19  
 End Date : 2019-12-06  
 Data Value : SW05400050  
 Alternate Name : Mickeyd, Inc.  
 Data Label : DWMSWB- General

Start Date : 2002-06-19  
 End Date : 2021-05-12  
 Data Value : 10008028  
 Alternate Name : Mickeyd Inc  
 Data Label : KNDOP Number

SWF/LF - KY

Facility Name : Mickeyd Inc  
 Facility Address : 2105 Donaldson Rd, Nebo (Hopkins), KY 42441  
 County : Hopkins

Agency Interest ID : 38554  
 AI Name : Mickeyd Inc  
 Permit Number : 05400050  
 Status : Revoked  
 Permit Expiration Date : 2015-02-03  
 SI ID : ACTV0000000001  
 SI Type : Composting-Solid Waste-RPBR  
 SI Designation : Composting  
 SI Description : Revoked Solid Waste Composting (originally approved 02-24-1997)  
 Related Entity ID : N/R  
 Related Entity Type : N/R  
 Related Entity Code : N/R  
 Related Entity Name : N/R  
 Rel Entity Address 1 : N/R  
 Rel Entity Address 2 : N/R  
 AI Latitude : 37.407972



Map Id: 3  
Direction:  
Distance:  
Elevation:  
Relative:

**Site Name :** MICKEYD INC | DONALDSON FARMS  
2105 DONALDSON RD  
NEBO (HOPKINS) | Nebo (Hopkins), KY  
42441  
**Database(s) :** [FRS, HIST NPDES - KY, SWF/LF - KY]  
**(cont.)**

**Envirosite ID:** 2549374  
**EPA ID:** N/R

SWF/LF - KY **(cont.)**

AI Longitude : -87.668694  
Last Date in Agency List : 2022-10-17

Agency Interest ID : 38554  
AI Name : Mickeyd Inc  
Permit Number : 05400050  
Status : Revoked  
Permit Expiration Date : N/R  
SI ID : ACTV0000000003  
SI Type : Landfarm Type B-SpW  
SI Designation : Landfarm Type B-SpW  
SI Description : Revoked Landfarm Type B-SpW  
Related Entity ID : N/R  
Related Entity Type : N/R  
Related Entity Code : N/R  
Related Entity Name : N/R  
Rel Entity Address 1 : N/R  
Rel Entity Address 2 : N/R  
AI Latitude : 37.407972  
AI Longitude : -87.668694  
Last Date in Agency List : 2022-10-17

Agency Interest ID : 38554  
AI Name : Mickeyd Inc  
Permit Number : 05400050  
Status : Revoked  
Permit Expiration Date : N/R  
SI ID : ACTV0000000002  
SI Type : Composting-Type B Special Waste  
SI Designation : Composting SpW  
SI Description : Revoked wastewater sludge composting  
Related Entity ID : N/R  
Related Entity Type : N/R  
Related Entity Code : N/R  
Related Entity Name : N/R  
Rel Entity Address 1 : N/R  
Rel Entity Address 2 : N/R  
AI Latitude : 37.407972  
AI Longitude : -87.668694  
Last Date in Agency List : 2022-10-17

Map Id: 4  
Direction:  
Distance:  
Elevation:  
Relative:

**Site Name :** WC WELDON ESTATE  
HOKET NEBO RD  
PROVIDENCE (WEBSTER), KY 42450  
**Database(s) :** [FRS]

**Envirosite ID:** 2549523  
**EPA ID:** N/R

FRS

Facility Name : WC WELDON ESTATE  
Facility Address : HOKET NEBO RD, PROVIDENCE (WEBSTER), KY 42450  
County : WEBSTER

Site Details

Registry ID : 110045050804  
FRS Facility URL : [Click here for hyperlink provided by the agency.](#)  
Last Date in Agency List : 2023-02-13

Source Description

Source Description :

KENTUCKY- Tools for Environmental Management and Protection Organizations (KY-TEMPO) is Kentucky's central repository for facility data and includes permits, surveillance, enforcement, and remediation information.

FRS Environmental Interest

Source and System ID : KY-TEMPO - 49152

Map Id: 5  
Direction: WSW  
Distance: 0.176 mi., 927 ft.  
Elevation: 412 ft.  
Relative: Higher

**Site Name :** Island Creek Coal Co - Providence 1 |  
Island Creek Coal Co W Ky Div -  
Providence 1 | Island Creek Coal West Ky  
Div - Providence 1  
37.395086, -87.710604  
KY  
**Database(s) :** [COAL MINES - KY]

**Envirosite ID:** 42265538  
**EPA ID:** N/R

COAL MINES - KY

State File Name : 08983-1  
Federal ID : N/R  
Permit Number : N/R  
License Number : N/R  
License Date : N/R  
Mine Status : Inactive  
Mine Type : URC  
Mine Name : Providence 1  
Company 2 : N/R  
Operator : James Hunter  
Region : West  
Nearest Town : Providence  
District : Madisonville  
Branch : N/R  
Railroad : N/R



Map Id: 5  
 Direction: WSW  
 Distance: 0.176 mi., 927 ft.  
 Elevation: 412 ft.  
 Relative: Higher

**Site Name :** Island Creek Coal Co - Providence 1 |  
 Island Creek Coal Co W Ky Div -  
 Providence 1 | Island Creek Coal West Ky  
 Div - Providence 1  
 37.395086, -87.710604  
 KY

**Database(s) :** [COAL MINES - KY] (cont.)

Envirosite ID: 42265538  
 EPA ID: N/R

COAL MINES - KY (cont.)

Seam Name : Wky No 9  
 Seam Code : 434005  
 Seam Elevation : N/R  
 Seam Thick : 60  
 Nearest Seam : 600  
 Annual Report Year : 1981  
 Annual Report Days : 223  
 Annual Report Employees : 323  
 Annual Report Fatalaties : 1  
 Annual Report Accidents : 3  
 Annual Report Tonnage : 919478  
 Annual Report Measured : Actual

Old Comments : Sc1 Assigned 05-04-90/jkh Days Worked= 223 Men Employed= 323  
 Fatal Accidents= 1 Nonfatal Accidents= 3

Source : mmis  
 Latitude : 37.3950859  
 Longitude : -87.71060419  
 Last Date in Agency List : 2023-02-20

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your EnviroSite account representative for a complimentary site report containing all of the details available.

State File Name : 08983-1  
 Federal ID : N/R  
 Permit Number : N/R  
 License Number : N/R  
 License Date : N/R  
 Mine Status : Inactive  
 Mine Type : URC  
 Mine Name : Providence 1  
 Company 2 : N/R  
 Operator : Richard Herron  
 Region : West  
 Nearest Town : Providence  
 District : N/R  
 Branch : N/R  
 Railroad : N/R  
 Seam Name : No. 9  
 Seam Code : N/R  
 Seam Elevation : N/R  
 Seam Thick : N/R  
 Nearest Seam : 600  
 Annual Report Year : 1971  
 Annual Report Days : 231  
 Annual Report Employees : 205  
 Annual Report Fatalaties : 0  
 Annual Report Accidents : 0  
 Annual Report Tonnage : 1249723  
 Annual Report Measured : Actual

Map Id: 5  
 Direction: WSW  
 Distance: 0.176 mi., 927 ft.  
 Elevation: 412 ft.  
 Relative: Higher

**Site Name :** Island Creek Coal Co - Providence 1 |  
 Island Creek Coal Co W Ky Div -  
 Providence 1 | Island Creek Coal West Ky  
 Div - Providence 1  
 37.395086, -87.710604  
 KY

**Database(s) :** [COAL MINES - KY] (cont.)

Envirosite ID: 42265538  
 EPA ID: N/R

COAL MINES - KY (cont.)

Old Comments : N/R  
 Source : mmis  
 Latitude : 37.3950859  
 Longitude : -87.71060419  
 Last Date in Agency List : 2023-02-20

State File Name : 08983-1  
 Federal ID : N/R  
 Permit Number : N/R  
 License Number : N/R  
 License Date : N/R  
 Mine Status : Inactive  
 Mine Type : URC  
 Mine Name : Providence 1  
 Company 2 : West Ky Division  
 Operator : A W Petzold  
 Region : West  
 Nearest Town : Providence  
 District : N/R  
 Branch : N/R  
 Railroad : N/R  
 Seam Name : Wky No 9  
 Seam Code : 434005  
 Seam Elevation : N/R  
 Seam Thick : N/R  
 Nearest Seam : 600  
 Annual Report Year : 1977  
 Annual Report Days : 240  
 Annual Report Employees : 269  
 Annual Report Fatalities : 1  
 Annual Report Accidents : 5  
 Annual Report Tonnage : 1155586  
 Annual Report Measured : Actual

Old Comments : Sc1 Assigned 05-04-90/jkh Days Worked= 240 Men Employed= 269  
 Fatal Accidents= 1 Nonfatal Accidents= 5

Source : mmis  
 Latitude : 37.3950859  
 Longitude : -87.71060419  
 Last Date in Agency List : 2023-02-20

State File Name : 08983-1  
 Federal ID : N/R  
 Permit Number : N/R  
 License Number : N/R  
 License Date : N/R  
 Mine Status : Inactive  
 Mine Type : URC  
 Mine Name : Providence 1  
 Company 2 : West Ky Div  
 Operator : A W Petzold



Map Id: 5  
 Direction: WSW  
 Distance: 0.176 mi., 927 ft.  
 Elevation: 412 ft.  
 Relative: Higher

**Site Name :** Island Creek Coal Co - Providence 1 |  
 Island Creek Coal Co W Ky Div -  
 Providence 1 | Island Creek Coal West Ky  
 Div - Providence 1  
 37.395086, -87.710604  
 KY

**Database(s) :** [COAL MINES - KY] **(cont.)**

**Envirosite ID:** 42265538  
**EPA ID:** N/R

COAL MINES - KY **(cont.)**

Region :	West
Nearest Town :	Providence
District :	N/R
Branch :	N/R
Railroad :	N/R
Seam Name :	Wky No 9
Seam Code :	434005
Seam Elevation :	N/R
Seam Thick :	N/R
Nearest Seam :	600
Annual Report Year :	1979
Annual Report Days :	239
Annual Report Employees :	282
Annual Report Fatalaties :	0
Annual Report Accidents :	6
Annual Report Tonnage :	1068953
Annual Report Measured :	Actual
Old Comments :	Sc1 Assigned 05-04-90/jkh Days Worked= 239 Men Employed= 282 Fatal Accidents= 0 Nonfatal Accidents= 6
Source :	mmis
Latitude :	37.3950859
Longitude :	-87.71060419
Last Date in Agency List :	2023-02-20
State File Name :	08983-1
Federal ID :	N/R
Permit Number :	N/R
License Number :	N/R
License Date :	N/R
Mine Status :	Inactive
Mine Type :	URC
Mine Name :	Providence 1
Company 2 :	West Ky Division
Operator :	A W Petzold
Region :	West
Nearest Town :	Providence
District :	N/R
Branch :	N/R
Railroad :	N/R
Seam Name :	Wky No 9
Seam Code :	434005
Seam Elevation :	N/R
Seam Thick :	N/R
Nearest Seam :	600
Annual Report Year :	1978
Annual Report Days :	189
Annual Report Employees :	275
Annual Report Fatalaties :	0
Annual Report Accidents :	6
Annual Report Tonnage :	981008
Annual Report Measured :	Actual

Map Id: 5  
 Direction: WSW  
 Distance: 0.176 mi., 927 ft.  
 Elevation: 412 ft.  
 Relative: Higher

**Site Name :** Island Creek Coal Co - Providence 1 |  
 Island Creek Coal Co W Ky Div -  
 Providence 1 | Island Creek Coal West Ky  
 Div - Providence 1  
 37.395086, -87.710604  
 KY  
**Database(s) :** [COAL MINES - KY] **(cont.)**

**Envirosite ID:** 42265538  
**EPA ID:** N/R

COAL MINES - KY **(cont.)**

Old Comments : Sc1 Assigned 05-04-90/jkh Days Worked= 189 Men Employed= 275  
 Fatal Accidents= 0 Nonfatal Accidents= 6

Source : mmis  
 Latitude : 37.3950859  
 Longitude : -87.71060419  
 Last Date in Agency List : 2023-02-20

State File Name : 08983-1  
 Federal ID : N/R  
 Permit Number : N/R  
 License Number : N/R  
 License Date : N/R  
 Mine Status : Inactive  
 Mine Type : URC  
 Mine Name : Providence 1  
 Company 2 : West Ky Div  
 Operator : A W Petzold  
 Region : West  
 Nearest Town : Providence  
 District : Madisonville  
 Branch : N/R  
 Railroad : N/R  
 Seam Name : Wky No 9  
 Seam Code : 434005  
 Seam Elevation : N/R  
 Seam Thick : N/R  
 Nearest Seam : 600  
 Annual Report Year : 1976  
 Annual Report Days : 265  
 Annual Report Employees : 254  
 Annual Report Fatalities : 0  
 Annual Report Accidents : 9  
 Annual Report Tonnage : 1192446  
 Annual Report Measured : Actual

Old Comments : Sc1 Assigned 05-04-90/jkh Days Worked= 265 Men Employed= 254  
 Fatal Accidents= 0 Nonfatal Accidents= 9

Source : mmis  
 Latitude : 37.3950859  
 Longitude : -87.71060419  
 Last Date in Agency List : 2023-02-20

State File Name : 08983-1  
 Federal ID : N/R  
 Permit Number : N/R  
 License Number : N/R  
 License Date : N/R  
 Mine Status : Inactive  
 Mine Type : URC  
 Mine Name : Providence 1



Map Id: 5  
Direction: WSW  
Distance: 0.176 mi., 927 ft.  
Elevation: 412 ft.  
Relative: Higher

**Site Name :** Island Creek Coal Co - Providence 1 |  
Island Creek Coal Co W Ky Div -  
Providence 1 | Island Creek Coal West Ky  
Div - Providence 1  
37.395086, -87.710604  
KY  
**Database(s) :** [COAL MINES - KY] (cont.)

**Envirosite ID:** 42265538  
**EPA ID:** N/R

COAL MINES - KY (cont.)

Company 2 : N/R  
Operator : A W Petzold  
Region : West  
Nearest Town : Providence  
District : Madisonville  
Branch : N/R  
Railroad : N/R  
Seam Name : Wky No 9  
Seam Code : 434005  
Seam Elevation : N/R  
Seam Thick : 60  
Nearest Seam : 600  
Annual Report Year : 1980  
Annual Report Days : 249  
Annual Report Employees : 303  
Annual Report Fatalities : 0  
Annual Report Accidents : 1  
Annual Report Tonnage : 1075307  
Annual Report Measured : Actual

Old Comments : Sc1 Assigned 05-04-90/jkh Days Worked= 249 Men Employed= 303  
Fatal Accidents= 0 Nonfatal Accidents= 1

Source : mmis  
Latitude : 37.3950859  
Longitude : -87.71060419  
Last Date in Agency List : 2023-02-20

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<u>ENVIOSITE ID</u>	<u>NAME</u>	<u>ADDRESS</u>	<u>CITY</u>	<u>ZIP</u>	<u>DATABASE(S)</u>
<u>18343246</u>	Hamby Landfill	KY 814	Nebo (Hopkins)	42441	SWF/LF - KY
<u>35366312</u>	TEXAS GAS - HOPKINS CO	UNKNOWN	UNKNOWN		VCP - KY

DRAFT



**FEDERAL RCRA NON-CORRACTS TSD FACILITIES LIST**

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

Agency Version Date: 12/15/2022	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: 215-814-2469
Planned Next Contact: 06/07/2023	Most Recent Contact: 03/13/2023

RCRA\_TSD: Resource Conservation and Recovery Act hazardous waste transportation storage disposal and treatment facilities

Agency Version Date: 12/15/2022	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: 215-814-2469
Planned Next Contact: 06/07/2023	Most Recent Contact: 03/13/2023

**FEDERAL, STATE, AND TRIBAL REGISTERED STORAGE TANK LISTS**

AST PBS: Bulk petroleum terminals with a total bulk storage capacity of 50,000 barrels or more.

Agency Version Date: 02/02/2023	Agency: Department of Homeland Security
Agency Update Frequency: Quarterly	Agency Contact: 202-853-5361
Planned Next Contact: 05/01/2023	Most Recent Contact: 02/02/2023

EPA UST: Facilities listed in the EPA UST Finder database

Agency Version Date: 01/17/2023	Agency: EPA
Agency Update Frequency: Quarterly	Agency Contact: (202) 566-1667
Planned Next Contact: 04/14/2023	Most Recent Contact: 01/17/2023

FEMA UST: FEMA underground storage tank listing

Agency Version Date: 09/16/2022	Agency: FEMA
Agency Update Frequency: Varies	Agency Contact: 202-212-5283
Planned Next Contact: 06/07/2023	Most Recent Contact: 03/09/2023

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

Agency Version Date: 12/03/2021	Agency: U.S. Environmental Protection Agency Region 6
Agency Update Frequency: Semi Annually	Agency Contact: 855-246-3642
Planned Next Contact: 05/09/2023	Most Recent Contact: 02/10/2023

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

Agency Version Date: 08/10/2021	Agency: U.S. Environmental Protection Agency Region 7
Agency Update Frequency: Quarterly	Agency Contact: 855-246-3642
Planned Next Contact: 04/26/2023	Most Recent Contact: 01/30/2023

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

Agency Version Date: 01/05/2023	Agency: U.S. Environmental Protection Agency Region 1
Agency Update Frequency: Quarterly	Agency Contact: 855-246-3642
Planned Next Contact: 04/03/2023	Most Recent Contact: 01/05/2023

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

Agency Version Date: 01/30/2023	Agency: U.S. Environmental Protection Agency Region 10
Agency Update Frequency: Quarterly	Agency Contact: 855-246-3642
Planned Next Contact: 04/27/2023	Most Recent Contact: 01/30/2023

**FEDERAL, 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: U.S. Environmental Protection Agency Region 2
Agency Update Frequency: Quarterly	Agency Contact: 855-246-3642
Planned Next Contact: 04/04/2023	Most Recent Contact: 01/06/2023

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

Agency Version Date: 01/30/2023	Agency: U.S. Environmental Protection Agency Region 4
Agency Update Frequency: Semi Annually	Agency Contact: 855-246-3642
Planned Next Contact: 04/27/2023	Most Recent Contact: 01/30/2023

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

Agency Version Date: 01/17/2023	Agency: U.S. Environmental Protection Agency Region 5
Agency Update Frequency: Varies	Agency Contact: 855-246-3642
Planned Next Contact: 04/14/2023	Most Recent Contact: 01/17/2023

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

Agency Version Date: 02/13/2023	Agency: U.S. Environmental Protection Agency Region 6
Agency Update Frequency: Semi Annually	Agency Contact: 855-246-3642
Planned Next Contact: 05/11/2023	Most Recent Contact: 02/13/2023

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

Agency Version Date: 01/17/2023	Agency: U.S. Environmental Protection Agency Region 7
Agency Update Frequency: Varies	Agency Contact: 855-246-3642
Planned Next Contact: 04/14/2023	Most Recent Contact: 01/17/2023

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

Agency Version Date: 01/02/2023	Agency: U.S. Environmental Protection Agency Region 8
Agency Update Frequency: Quarterly	Agency Contact: 855-246-3642
Planned Next Contact: 06/26/2023	Most Recent Contact: 03/30/2023

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

Agency Version Date: 01/02/2023	Agency: U.S. Environmental Protection Agency Region 9
Agency Update Frequency: Quarterly	Agency Contact: 855-246-3642
Planned Next Contact: 06/26/2023	Most Recent Contact: 03/30/2023

UST - KY: Underground storage tank listing

Agency Version Date: 01/16/2023	Agency: Kentucky Department of Environmental Protection
Agency Update Frequency: Quarterly	Agency Contact: 502-564-5981
Planned Next Contact: 04/13/2023	Most Recent Contact: 01/16/2023

**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: 01/13/2023	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: 800-424-9346
Planned Next Contact: 04/11/2023	Most Recent Contact: 01/13/2023



**FEDERAL CERCLIS LIST (cont.)**

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: 01/13/2023  
 Agency Update Frequency: Quarterly  
 Planned Next Contact: 04/11/2023

Agency: U.S. Environmental Protection Agency  
 Agency Contact: 800-424-9346  
 Most Recent Contact: 01/13/2023

EPA SAA: Listing of Sites with Superfund Alternative Approach Agreements.

Agency Version Date: 11/01/2022  
 Agency Update Frequency: Quarterly  
 Planned Next Contact: 04/13/2023

Agency: U.S. Environmental Protection Agency  
 Agency Contact: 800-424-9346  
 Most Recent Contact: 01/17/2023

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: 01/13/2023  
 Agency Update Frequency: Varies  
 Planned Next Contact: 04/11/2023

Agency: U.S. Environmental Protection Agency  
 Agency Contact: 703-603-8712  
 Most Recent Contact: 01/13/2023

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: 01/13/2023  
 Agency Update Frequency: Quarterly  
 Planned Next Contact: 04/11/2023

Agency: U.S. Environmental Protection Agency  
 Agency Contact: 703-603-8867  
 Most Recent Contact: 01/13/2023

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: 01/13/2023  
 Agency Update Frequency: Quarterly  
 Planned Next Contact: 04/11/2023

Agency: U.S. Environmental Protection Agency  
 Agency Contact: 703-603-8867  
 Most Recent Contact: 01/13/2023

**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: 12/15/2022  
 Agency Update Frequency: Quarterly  
 Planned Next Contact: 06/07/2023

Agency: U.S. Environmental Protection Agency  
 Agency Contact: 202-566-1667  
 Most Recent Contact: 03/13/2023

HIST CORRACTS 2: List of facilities where Resource Conservation and Recovery Act Corrective Action Program used to investigate and remediate hazardous releases that are no longer in current agency list.

Agency Version Date: 10/12/2018  
 Agency Update Frequency: Annually  
 Planned Next Contact: 05/05/2023

Agency: U.S. Environmental Protection Agency  
 Agency Contact: 202-566-1667  
 Most Recent Contact: 02/08/2023

**FEDERAL DELISTED NPL SITE LIST**

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

Agency Version Date: 01/13/2023  
 Agency Update Frequency: Quarterly  
 Planned Next Contact: 04/11/2023

Agency: U.S. Environmental Protection Agency  
 Agency Contact: 703-603-8867  
 Most Recent Contact: 01/13/2023

**FEDERAL DELISTED NPL SITE LIST (cont.)**

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

Agency Version Date: 01/13/2023	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: 703-603-8867
Planned Next Contact: 04/11/2023	Most Recent Contact: 01/13/2023

SEMS\_DELETED NPL: All Deleted National Priority List Sties

Agency Version Date: 01/13/2023	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: 703-603-8867
Planned Next Contact: 04/11/2023	Most Recent Contact: 01/13/2023

**FEDERAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS**

EPA LF MOP: Sites in the EPA Landfill Methane Outreach Program

Agency Version Date: 12/13/2022	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: 703-603-8867
Planned Next Contact: 06/06/2023	Most Recent Contact: 03/10/2023

**FEDERAL, STATE, AND TRIBAL LEAKING STORAGE TANK LISTS**

EPA LUST: Releases listed in the EPA UST Finder database

Agency Version Date: 01/17/2023	Agency: EPA
Agency Update Frequency: Quarterly	Agency Contact: (202) 566-1667
Planned Next Contact: 04/14/2023	Most Recent Contact: 01/17/2023

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

Agency Version Date: 08/23/2021	Agency: U.S. Environmental Protection Agency Region 4
Agency Update Frequency: Quarterly	Agency Contact: 855-246-3642
Planned Next Contact: 04/26/2023	Most Recent Contact: 01/30/2023

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

Agency Version Date: 08/16/2021	Agency: U.S. Environmental Protection Agency Region 8
Agency Update Frequency: Quarterly	Agency Contact: 855-246-3642
Planned Next Contact: 04/18/2023	Most Recent Contact: 01/20/2023

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

Agency Version Date: 01/05/2023	Agency: U.S. Environmental Protection Agency Region 1
Agency Update Frequency: Quarterly	Agency Contact: 855-246-3642
Planned Next Contact: 04/03/2023	Most Recent Contact: 01/05/2023

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

Agency Version Date: 01/30/2023	Agency: U.S. Environmental Protection Agency Region 10
Agency Update Frequency: Quarterly	Agency Contact: 855-246-3642
Planned Next Contact: 04/27/2023	Most Recent Contact: 01/30/2023

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

Agency Version Date: 12/07/2016	Agency: U.S. Environmental Protection Agency Region 2
Agency Update Frequency: Quarterly	Agency Contact: 855-246-3642
Planned Next Contact: 04/04/2023	Most Recent Contact: 01/06/2023



**FEDERAL, STATE, AND TRIBAL LEAKING STORAGE TANK LISTS (cont.)**

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

Agency Version Date: 01/30/2023	Agency: U.S. Environmental Protection Agency Region 4
Agency Update Frequency: Semi Annually	Agency Contact: 855-246-3642
Planned Next Contact: 04/27/2023	Most Recent Contact: 01/30/2023

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

Agency Version Date: 01/17/2023	Agency: U.S. Environmental Protection Agency Region 5
Agency Update Frequency: Varies	Agency Contact: 855-246-3642
Planned Next Contact: 04/14/2023	Most Recent Contact: 01/17/2023

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

Agency Version Date: 01/19/2023	Agency: U.S. Environmental Protection Agency Region 6
Agency Update Frequency: Quarterly	Agency Contact: 855-246-3642
Planned Next Contact: 04/17/2023	Most Recent Contact: 01/19/2023

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

Agency Version Date: 01/17/2023	Agency: U.S. Environmental Protection Agency Region 7
Agency Update Frequency: Varies	Agency Contact: 855-246-3642
Planned Next Contact: 04/14/2023	Most Recent Contact: 01/17/2023

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

Agency Version Date: 01/20/2023	Agency: U.S. Environmental Protection Agency Region 8
Agency Update Frequency: Quarterly	Agency Contact: 855-246-3642
Planned Next Contact: 04/18/2023	Most Recent Contact: 01/20/2023

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

Agency Version Date: 01/02/2023	Agency: U.S. Environmental Protection Agency Region 9
Agency Update Frequency: Quarterly	Agency Contact: 855-246-3642
Planned Next Contact: 06/26/2023	Most Recent Contact: 03/30/2023

LUST - KY: Leaking Underground Storage Tank Listing

Agency Version Date: 01/17/2023	Agency: Department of Environmental Protection
Agency Update Frequency: Varies	Agency Contact: (502) 564-6716
Planned Next Contact: 04/14/2023	Most Recent Contact: 01/17/2023

**FEDERAL ERNS LIST**

ERNS: Emergency Response Notification System records of reported spills

Agency Version Date: 01/09/2023	Agency: National Response Center United States Coast Guard
Agency Update Frequency: Annually	Agency Contact: N/R
Planned Next Contact: 04/06/2023	Most Recent Contact: 01/09/2023

**FEDERAL INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES**

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

Agency Version Date: 02/06/2023	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Varies	Agency Contact: 800-424-9346
Planned Next Contact: 05/04/2023	Most Recent Contact: 02/06/2023

**FEDERAL INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES (cont.)**

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

Agency Version Date: 02/06/2023	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Varies	Agency Contact: 800-424-9346
Planned Next Contact: 05/04/2023	Most Recent Contact: 02/06/2023

RCRA IC\_EC: Sites with institutional or engineering controls related to Resource Conservation and Recovery Act

Agency Version Date: 01/20/2023	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Varies	Agency Contact: 215-814-2469
Planned Next Contact: 04/18/2023	Most Recent Contact: 01/20/2023

**FEDERAL RCRA GENERATORS LIST**

HIST RCRA\_CESQG: List of Resource Conservation and Recovery Act licensed conditionally exempt small quantity generators that are no longer in current agency list.

Agency Version Date: 10/12/2018	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Annually	Agency Contact: 215-814-2469
Planned Next Contact: 05/05/2023	Most Recent Contact: 02/08/2023

HIST RCRA\_LQG: List of Resource Conservation and Recovery Act licensed large quantity generators that are no longer in current agency list.

Agency Version Date: 10/12/2018	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Annually	Agency Contact: 215-814-2469
Planned Next Contact: 05/05/2023	Most Recent Contact: 02/08/2023

HIST RCRA\_NONGEN: List of Resource Conservation and Recovery Act licensed non-generators that are no longer in current agency list.

Agency Version Date: 10/12/2018	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Annually	Agency Contact: 215-814-2469
Planned Next Contact: 05/05/2023	Most Recent Contact: 02/08/2023

HIST RCRA\_SQG: List of Resource Conservation and Recovery Act licensed small quantity generators that are no longer in current agency list.

Agency Version Date: 10/12/2018	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Annually	Agency Contact: 215-814-2469
Planned Next Contact: 05/05/2023	Most Recent Contact: 02/08/2023

RCRA\_LQG: Resource Conservation and Recovery Act listing of licensed large quantity generators

Agency Version Date: 12/15/2022	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: 215-814-2469
Planned Next Contact: 06/07/2023	Most Recent Contact: 03/13/2023

RCRA\_NONGEN: Resource Conservation and Recovery Act listing of licensed non-generators

Agency Version Date: 12/15/2022	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Varies	Agency Contact: 215-814-2469
Planned Next Contact: 06/07/2023	Most Recent Contact: 03/13/2023

RCRA\_SQG: Resource Conservation and Recovery Act listing of licensed small quantity generators

Agency Version Date: 12/15/2022	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: 215-814-2469
Planned Next Contact: 06/07/2023	Most Recent Contact: 03/13/2023



**FEDERAL RCRA GENERATORS LIST (cont.)**

RCRA\_VSQG: Resource Conservation and Recovery Act listing of licensed very small quantity generators.

Agency Version Date: 12/15/2022	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Varies	Agency Contact: 215-814-2469
Planned Next Contact: 06/07/2023	Most Recent Contact: 03/13/2023

**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: 01/13/2023	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: 703-603-8867
Planned Next Contact: 04/11/2023	Most Recent Contact: 01/13/2023

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

Agency Version Date: 01/13/2023	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: 202-566-2132
Planned Next Contact: 04/11/2023	Most Recent Contact: 01/13/2023

NPL EPA R3 GIS: Geospatial data for the Environmental Protection Agency Region 3 National Priority List subject to environmental regulation

Agency Version Date: 01/13/2023	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: 202-566-2132
Planned Next Contact: 04/11/2023	Most Recent Contact: 01/13/2023

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

Agency Version Date: 01/13/2023	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: 202-566-2132
Planned Next Contact: 04/11/2023	Most Recent Contact: 01/13/2023

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

Agency Version Date: 01/13/2023	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: 202-566-2132
Planned Next Contact: 04/11/2023	Most Recent Contact: 01/13/2023

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

Agency Version Date: 01/13/2023	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: 202-566-2132
Planned Next Contact: 04/11/2023	Most Recent Contact: 01/13/2023

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

Agency Version Date: 01/13/2023	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: 703-603-8867
Planned Next Contact: 04/11/2023	Most Recent Contact: 01/13/2023

**FEDERAL NPL SITE LIST (cont.)**

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

Agency Version Date: 01/13/2023	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: 703-603-8867
Planned Next Contact: 04/11/2023	Most Recent Contact: 01/13/2023

SEMS\_FINAL NPL: All Included National Priority List Sites

Agency Version Date: 01/13/2023	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: 703-603-8867
Planned Next Contact: 04/11/2023	Most Recent Contact: 01/13/2023

SEMS\_PROPOSED NPL: All Proposed National Priority List Sites

Agency Version Date: 01/13/2023	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: 703-603-8867
Planned Next Contact: 04/11/2023	Most Recent Contact: 01/13/2023

**STATE AND TRIBAL BROWNFIELD SITES**

TRIBAL BROWNFIELDS: Tribal brownfield remediation site listing

Agency Version Date: 02/10/2017	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: No Longer Maintained	Agency Contact: 855-246-3642
Planned Next Contact: 05/26/2023	Most Recent Contact: 02/28/2023

BROWNFIELDS - KY: Potential Brownfields Inventory Listing

Agency Version Date: 01/27/2023	Agency: Department of Environmental Protection
Agency Update Frequency: Varies	Agency Contact: (502) 564-6716
Planned Next Contact: 04/25/2023	Most Recent Contact: 01/27/2023

HIST BROWNFIELDS - KY: List of potential Brownfields Inventory that are no longer in current agency list.

Agency Version Date: 03/20/2018	Agency: Department of Environmental Protection
Agency Update Frequency: No Longer Maintained	Agency Contact: (502) 564-6716
Planned Next Contact: 04/28/2023	Most Recent Contact: 02/01/2023

**STATE INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES**

E C - KY: Sites with Engineering Controls

Agency Version Date: 02/03/2023	Agency: Department of Environmental Protection
Agency Update Frequency: Varies	Agency Contact: (502) 564-6716
Planned Next Contact: 05/01/2023	Most Recent Contact: 02/03/2023

I C - KY: Superfund sites with a Contained or Managed status

Agency Version Date: 02/03/2023	Agency: Department of Environmental Protection
Agency Update Frequency: Varies	Agency Contact: (502) 564-6716
Planned Next Contact: 05/01/2023	Most Recent Contact: 02/03/2023

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

HIST LF - KY: Historical Landfills

Agency Version Date: 08/20/2019	Agency: Department of Environmental Protection
Agency Update Frequency: No Longer Maintained	Agency Contact: (502) 564-6716
Planned Next Contact: 05/26/2023	Most Recent Contact: 02/28/2023



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

SWF/LF - KY: Solid waste facility and landfill listing

Agency Version Date: 01/09/2023  
 Agency Update Frequency: Varies  
 Planned Next Contact: 04/06/2023

Agency: Kentucky Department of Environmental Protection  
 Agency Contact: 502-564-4049  
 Most Recent Contact: 01/09/2023

**STATE RCRA GENERATORS LIST**

HWF - KY: Listing of facilities with hazardous waste permits

Agency Version Date: 01/06/2023  
 Agency Update Frequency: Quarterly  
 Planned Next Contact: 04/04/2023

Agency: Kentucky Department of Environmental Protection  
 Agency Contact: 502-564-6716  
 Most Recent Contact: 01/06/2023

**STATE- AND TRIBAL - EQUIVALENT CERCLIS**

SHWS - KY: State Leads list: Superfund KORA sites

Agency Version Date: 01/06/2023  
 Agency Update Frequency: Varies  
 Planned Next Contact: 04/04/2023

Agency: Department of Environmental Protection  
 Agency Contact: (502) 564-6716  
 Most Recent Contact: 01/06/2023

**STATE AND TRIBAL VOLUNTARY CLEANUP SITES**

VCP - KY: Sites involved in the Voluntary Cleanup Program

Agency Version Date: 02/15/2023  
 Agency Update Frequency: Semi Annually  
 Planned Next Contact: 05/11/2023

Agency: Department of Environmental Protection  
 Agency Contact: (502) 564-6716  
 Most Recent Contact: 02/15/2023

**LOCAL BROWNFIELD LISTS**

BROWNFIELDS-ACRES: EPA Brownfields Assessment, Cleanup and Redevelopment Exchange System.

Agency Version Date: 11/28/2022  
 Agency Update Frequency: Quarterly  
 Planned Next Contact: 05/22/2023

Agency: U.S. Environmental Protection Agency  
 Agency Contact: 855-246-3642  
 Most Recent Contact: 02/23/2023

FED BROWNFIELDS: Federal brownfield remediation sites

Agency Version Date: 10/13/2022  
 Agency Update Frequency: Semi Annually  
 Planned Next Contact: 04/06/2023

Agency: U.S. Environmental Protection Agency  
 Agency Contact: 855-246-3642  
 Most Recent Contact: 01/09/2023

**LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES**

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

Agency Version Date: 12/29/2022  
 Agency Update Frequency: Quarterly  
 Planned Next Contact: 06/22/2023

Agency: U.S. Department of Justice  
 Agency Contact: 202-307-7610  
 Most Recent Contact: 03/27/2023

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

Agency Version Date: 08/05/2019  
 Agency Update Frequency: Quarterly  
 Planned Next Contact: 04/28/2023

Agency: U.S. Department of Justice  
 Agency Contact: 202-307-7610  
 Most Recent Contact: 02/01/2023

**LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES (cont.)**

CDL - KY: Methamphetamine Contaminated Properties

Agency Version Date: 03/01/2023  
 Agency Update Frequency: Varies  
 Planned Next Contact: 05/25/2023

Agency: Department of Environmental Protection  
 Agency Contact: (502) 564-6716  
 Most Recent Contact: 03/01/2023

CDL LOUISVILLE - KY: Listing of clandestine drug lab locations

Agency Version Date: 10/02/2018  
 Agency Update Frequency: Varies  
 Planned Next Contact: 06/26/2023

Agency: Kentucky Department of Environmental Protection  
 Agency Contact: 502-574-7111  
 Most Recent Contact: 03/30/2023

**LOCAL LISTS OF LANDFILL / SOLID WASTE DISPOSAL SITES**

HIST INDIAN ODI R8: List of Region 8 Indian land open dump inventory sites maintained within the STARS program that is no longer in current agency list.

Agency Version Date: 11/12/2018  
 Agency Update Frequency: Annually  
 Planned Next Contact: 06/15/2023

Agency: Indian Health Service  
 Agency Contact: 855-246-3642  
 Most Recent Contact: 03/21/2023

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

Agency Version Date: 07/21/2022  
 Agency Update Frequency: Varies  
 Planned Next Contact: 05/30/2023

Agency: Indian Health Service  
 Agency Contact: 855-246-3642  
 Most Recent Contact: 03/03/2023

ODI: Open dump inventory sites

Agency Version Date: 10/03/2017  
 Agency Update Frequency: No Update  
 Planned Next Contact: 04/25/2023

Agency: U.S. Environmental Protection Agency  
 Agency Contact: 855-246-3642  
 Most Recent Contact: 01/27/2023

TRIBAL ODI: Indian land open dump inventory for all regions

Agency Version Date: 02/07/2023  
 Agency Update Frequency: Varies  
 Planned Next Contact: 05/05/2023

Agency: Indian Health Service  
 Agency Contact: 301-443-3593  
 Most Recent Contact: 02/07/2023

SWRCY - KY: Recycling Facilities

Agency Version Date: 07/19/2021  
 Agency Update Frequency: Varies  
 Planned Next Contact: 06/16/2023

Agency: Department of Environmental Protection  
 Agency Contact: (502) 564-6716  
 Most Recent Contact: 03/21/2023

**RECORDS OF EMERGENCY RELEASE REPORTS**

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

Agency Version Date: 12/06/2022  
 Agency Update Frequency: Varies  
 Planned Next Contact: 05/30/2023

Agency: U.S. Department of Transportation  
 Agency Contact: (202) 366-4996  
 Most Recent Contact: 03/03/2023

**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: 05/29/2023

Agency: U.S. Environmental Protection Agency  
 Agency Contact: 800-424-9346  
 Most Recent Contact: 03/02/2023



**OTHER ASCERTAINABLE RECORDS**

AFS: Air Facility Systems Quarterly Extract

Agency Version Date: 01/16/2023  
 Agency Update Frequency: Quarterly  
 Planned Next Contact: 04/13/2023

Agency: Environmental Protection Agency  
 Agency Contact: (202) 566-1667  
 Most Recent Contact: 01/16/2023

ALT FUELING: Alternative Fueling Stations by fuel type.

Agency Version Date: 12/13/2022  
 Agency Update Frequency: Quarterly  
 Planned Next Contact: 06/06/2023

Agency: U.S. Department of Energy  
 Agency Contact: N/R  
 Most Recent Contact: 03/10/2023

ARENAS: List of Arenas and Sport Venues

Agency Version Date: 01/31/2023  
 Agency Update Frequency: Varies  
 Planned Next Contact: 04/28/2023

Agency: DHS Homeland Infrastructure Foundation  
 Agency Contact: N/R  
 Most Recent Contact: 01/31/2023

ARENAS 2: List of Convention Centers and Fairgrounds

Agency Version Date: 11/04/2022  
 Agency Update Frequency: Varies  
 Planned Next Contact: 04/27/2023

Agency: DHS Homeland Infrastructure Foundation  
 Agency Contact: N/R  
 Most Recent Contact: 01/31/2023

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

Agency Version Date: 12/15/2022  
 Agency Update Frequency: Biennial  
 Planned Next Contact: 06/07/2023

Agency: Environmental Protection Agency  
 Agency Contact: (202) 566-1667  
 Most Recent Contact: 03/13/2023

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

Agency Version Date: 01/13/2023  
 Agency Update Frequency: Varies  
 Planned Next Contact: 04/11/2023

Agency: Agency for Toxic Substances and Disease Registry  
 Agency Contact: 770-488-6399  
 Most Recent Contact: 01/13/2023

CHURCHES: List of places of worship

Agency Version Date: 02/02/2023  
 Agency Update Frequency: Varies  
 Planned Next Contact: 05/01/2023

Agency: DHS Homeland Infrastructure Foundation  
 Agency Contact: N/R  
 Most Recent Contact: 02/02/2023

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: 02/27/2023  
 Agency Update Frequency: Varies  
 Planned Next Contact: 05/25/2023

Agency: Department of Energy  
 Agency Contact: (202) 586-8800  
 Most Recent Contact: 02/27/2023

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

Agency Version Date: 02/18/2021  
 Agency Update Frequency: Varies  
 Planned Next Contact: 04/17/2023

Agency: Environmental Protection Agency  
 Agency Contact: (202) 566-1667  
 Most Recent Contact: 01/19/2023

COAL GAS: Manufactured Gas Plant locations

Agency Version Date: 12/23/2022  
 Agency Update Frequency: Quarterly  
 Planned Next Contact: 06/13/2023

Agency: U.S. Environmental Protection Agency  
 Agency Contact: 855-246-3642  
 Most Recent Contact: 03/17/2023

**OTHER ASCERTAINABLE RECORDS (cont.)**

COLLEGES: List of major Universities & Colleges

Agency Version Date: 01/05/2023  
 Agency Update Frequency: Varies  
 Planned Next Contact: 04/03/2023

Agency: DHS Homeland Infrastructure Foundation  
 Agency Contact: N/R  
 Most Recent Contact: 01/05/2023

COLLEGES 2: List of Universities & Colleges

Agency Version Date: 01/06/2023  
 Agency Update Frequency: Varies  
 Planned Next Contact: 04/06/2023

Agency: DHS Homeland Infrastructure Foundation  
 Agency Contact: N/R  
 Most Recent Contact: 01/06/2023

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

Agency Version Date: 01/13/2023  
 Agency Update Frequency: Varies  
 Planned Next Contact: 04/11/2023

Agency: Environmental Protection Agency  
 Agency Contact: (800) 424-9346  
 Most Recent Contact: 01/13/2023

CORRECTIVE ACTIONS\_2020: In 2009 the EPA created the 2020 Corrective Action Baseline list of contaminated or potentially contaminated sites with a cleanup goal to complete 95% by the year 2020. The names on the list indicate the facility owners who may or may not have caused the contamination.

Agency Version Date: 12/21/2018  
 Agency Update Frequency: No Longer Maintained  
 Planned Next Contact: 04/04/2023

Agency: U.S. Environmental Protection Agency  
 Agency Contact: N/R  
 Most Recent Contact: 01/06/2023

DAYCARE: List of Daycare facilities

Agency Version Date: 01/03/2023  
 Agency Update Frequency: Varies  
 Planned Next Contact: 03/31/2023

Agency: DHS Homeland Infrastructure Foundation  
 Agency Contact: N/R  
 Most Recent Contact: 01/03/2023

DEBRIS EPA LF: EPA list of designated landfill facilities for the safe disposal of disaster debris.

Agency Version Date: 12/29/2022  
 Agency Update Frequency: Quarterly  
 Planned Next Contact: 06/22/2023

Agency: U.S. Environmental Protection Agency  
 Agency Contact: 855-246-3642  
 Most Recent Contact: 03/27/2023

DEBRIS EPA SWRCY: EPA list of facilities for the safe recovery, recycling, and disposal of disaster debris.

Agency Version Date: 12/29/2022  
 Agency Update Frequency: Quarterly  
 Planned Next Contact: 06/22/2023

Agency: U.S. Environmental Protection Agency  
 Agency Contact: 855-246-3642  
 Most Recent Contact: 03/27/2023

DOD: Department of Defense sites from the Protected Areas Database (PAD-US)

Agency Version Date: 01/13/2023  
 Agency Update Frequency: Varies  
 Planned Next Contact: 04/11/2023

Agency: United States Geologic Survey (USGS)  
 Agency Contact: 1-888-275-8747  
 Most Recent Contact: 01/13/2023

DOT OPS: Incident Data Report

Agency Version Date: 01/30/2023  
 Agency Update Frequency: Varies  
 Planned Next Contact: 04/27/2023

Agency: U.S. Department of Transportation  
 Agency Contact: (202) 366-4996  
 Most Recent Contact: 01/30/2023



**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: 12/09/2022	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: 202-566-1667
Planned Next Contact: 06/02/2023	Most Recent Contact: 03/07/2023

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: 03/19/2021	Agency: Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: (202) 566-1667
Planned Next Contact: 05/18/2023	Most Recent Contact: 02/20/2023

EPA FUELS: List of companies and facilities registered to participate in EPA Fuel Programs under Title 40 CFR Part 80.

Agency Version Date: 01/19/2023	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: (202) 564-2307
Planned Next Contact: 04/17/2023	Most Recent Contact: 01/19/2023

EPA OSC: Listing of oil spills and hazardous substance release sites requiring EPA On-Site Coordinators.

Agency Version Date: 02/28/2023	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: (202) 564-2307
Planned Next Contact: 05/26/2023	Most Recent Contact: 02/28/2023

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: U.S. Environmental Protection Agency
Agency Update Frequency: No Longer Maintained	Agency Contact: (202) 564-2307
Planned Next Contact: 05/26/2023	Most Recent Contact: 03/01/2023

FA HWF: Hazardous Waste Facilities with Financial Assurance

Agency Version Date: 12/22/2022	Agency: Environmental Protection Agency
Agency Update Frequency: Varies	Agency Contact: (800) 424-9346
Planned Next Contact: 06/16/2023	Most Recent Contact: 03/20/2023

FEDLAND: Federal Lands from the Protected Areas Database (PAD-US)

Agency Version Date: 01/13/2023	Agency: United States Geologic Survey (USGS)
Agency Update Frequency: Varies	Agency Contact: 1-888-275-8747
Planned Next Contact: 04/11/2023	Most Recent Contact: 01/13/2023

FRS: Facility Registry Systems

Agency Version Date: 01/24/2023	Agency: Environmental Protection Agency
Agency Update Frequency: Varies	Agency Contact: (202) 566-1667
Planned Next Contact: 04/20/2023	Most Recent Contact: 01/24/2023

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

Agency Version Date: 04/06/2013	Agency: Environmental Protection Agency
Agency Update Frequency: No Longer Maintained	Agency Contact: (202) 564-2280
Planned Next Contact: 06/09/2023	Most Recent Contact: 03/15/2023

**OTHER ASCERTAINABLE RECORDS (cont.)**

FTTS INSP: Tracking of inspections related to FIFRA/TSCA

Agency Version Date: 05/08/2017  
 Agency Update Frequency: No Longer Maintained  
 Planned Next Contact: 06/02/2023

Agency: Environmental Protection Agency  
 Agency Contact: (202) 564-2280  
 Most Recent Contact: 03/07/2023

FUDS: Defense sites that require cleanup

Agency Version Date: 01/24/2023  
 Agency Update Frequency: Varies  
 Planned Next Contact: 04/21/2023

Agency: US Army Corps of Engineering  
 Agency Contact: (202) 761-0011  
 Most Recent Contact: 01/24/2023

GOV MANSIONS: List of Governors Mansions

Agency Version Date: 01/31/2023  
 Agency Update Frequency: Varies  
 Planned Next Contact: 04/27/2023

Agency: DHS Homeland Infrastructure Foundation  
 Agency Contact: N/R  
 Most Recent Contact: 01/31/2023

HIST AFS: List of Air Facility Systems Quarterly Extract that are no longer in current agency list.

Agency Version Date: 06/14/2019  
 Agency Update Frequency: Quarterly  
 Planned Next Contact: 05/26/2023

Agency: Environmental Protection Agency  
 Agency Contact: (202) 566-1667  
 Most Recent Contact: 02/28/2023

HIST AFS 2: List of Air Facility Systems Quarterly Extract that are no longer in current agency list.

Agency Version Date: 11/26/2018  
 Agency Update Frequency: Quarterly  
 Planned Next Contact: 06/26/2023

Agency: Environmental Protection Agency  
 Agency Contact: (202) 566-1667  
 Most Recent Contact: 03/30/2023

HIST DOD: Department of Defense historical sites

Agency Version Date: 01/13/2023  
 Agency Update Frequency: No Longer Maintained  
 Planned Next Contact: 04/11/2023

Agency: Environmental Protection Agency  
 Agency Contact: (800) 424-9346  
 Most Recent Contact: 01/13/2023

HIST LEAD\_SMELTER: List of former lead smelter sites that is no longer in current agency list.

Agency Version Date: 12/12/2018  
 Agency Update Frequency: Annually  
 Planned Next Contact: 06/09/2023

Agency: Environmental Protection Agency  
 Agency Contact: (202) 566-1667  
 Most Recent Contact: 03/15/2023

HIST MLTS: List of sites in possession/use of radioactive materials regulated by NRC that is no longer in current agency list.

Agency Version Date: 07/13/2016  
 Agency Update Frequency: Annually  
 Planned Next Contact: 06/20/2023

Agency: Nuclear Regulatory Commission  
 Agency Contact: (800) 397-4209  
 Most Recent Contact: 03/24/2023

HIST PCB TRANS: List of PCB Disposal Facilities that are no longer in current agency list.

Agency Version Date: 01/18/2018  
 Agency Update Frequency: No Update  
 Planned Next Contact: 04/14/2023

Agency: Environmental Protection Agency  
 Agency Contact: (703) 308-8404  
 Most Recent Contact: 01/18/2023

HIST PCS ENF: List of permitted facilities to discharge wastewater (Federal equivalent to NPDES) that are no longer in current agency list.

Agency Version Date: 12/08/2018  
 Agency Update Frequency: Annually  
 Planned Next Contact: 04/27/2023

Agency: Environmental Protection Agency  
 Agency Contact: (202) 564-6582  
 Most Recent Contact: 01/31/2023



**OTHER ASCERTAINABLE RECORDS (cont.)**

HIST PCS FACILITY: List of Permitted facilities to discharge wastewater (Federal equivalent to NPDES) that are no longer in current agency list.

Agency Version Date: 12/18/2018	Agency: Environmental Protection Agency
Agency Update Frequency: Annually	Agency Contact: (202) 564-6582
Planned Next Contact: 04/27/2023	Most Recent Contact: 01/31/2023

HIST SSTS: List of tracking of facilities who produce pesticides and their quantity that are no longer in current agency list.

Agency Version Date: 02/13/2019	Agency: Environmental Protection Agency
Agency Update Frequency: Annually	Agency Contact: (202) 566-1667
Planned Next Contact: 04/17/2023	Most Recent Contact: 01/19/2023

HOSPITALS: List of major Hospitals

Agency Version Date: 01/05/2023	Agency: DHS Homeland Infrastructure Foundation
Agency Update Frequency: Varies	Agency Contact: N/R
Planned Next Contact: 04/03/2023	Most Recent Contact: 01/05/2023

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: 10/25/2022	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: (202) 564-2307
Planned Next Contact: 04/18/2023	Most Recent Contact: 01/20/2023

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: 12/13/2022	Agency: Environmental Protection Agency
Agency Update Frequency: Varies	Agency Contact: (202) 566-1667
Planned Next Contact: 06/06/2023	Most Recent Contact: 03/10/2023

INACTIVE PCS: Inactive Permitted facilities to discharge wastewater

Agency Version Date: 12/13/2022	Agency: Environmental Protection Agency
Agency Update Frequency: Varies	Agency Contact: (202) 564-6582
Planned Next Contact: 06/06/2023	Most Recent Contact: 03/10/2023

INDIAN RESERVATION: American Indian Lands from the Protected Areas Database (PAD-US)

Agency Version Date: 01/13/2023	Agency: United States Geologic Survey (USGS)
Agency Update Frequency: Varies	Agency Contact: 1-888-275-8747
Planned Next Contact: 04/11/2023	Most Recent Contact: 01/13/2023

LUCIS: Land Use Control Information Systems

Agency Version Date: 03/08/2023	Agency: Department of the Navy: BRAC PMO
Agency Update Frequency: Quarterly	Agency Contact: (619) 532-0900
Planned Next Contact: 06/06/2023	Most Recent Contact: 03/08/2023

LUCIS 2: Land Use Control Information Systems

Agency Version Date: 01/17/2018	Agency: Department of the Navy: BRAC PMO
Agency Update Frequency: No Longer Maintained	Agency Contact: (619) 532-0900
Planned Next Contact: 04/14/2023	Most Recent Contact: 01/18/2023

**OTHER ASCERTAINABLE RECORDS (cont.)**

MANIFEST EPA: EPA Hazardous Waste Electronic Manifest System (e-Manifest)

Agency Version Date: 01/24/2023	Agency: Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: (202) 566-1667
Planned Next Contact: 04/21/2023	Most Recent Contact: 01/24/2023

MINE OPERATIONS: Mine plants and operations for commodities monitored by the National Minerals Information Center of the USGS

Agency Version Date: 01/27/2023	Agency: USGS Mineral Resources Program
Agency Update Frequency: Varies	Agency Contact: (703) 648-5953
Planned Next Contact: 04/25/2023	Most Recent Contact: 01/27/2023

MINES: Mines Master Index Files

Agency Version Date: 12/15/2022	Agency: Department of Labor
Agency Update Frequency: Varies	Agency Contact: (202) 693-9400
Planned Next Contact: 06/07/2023	Most Recent Contact: 03/13/2023

MINES USGS: Listing of all active mines and mineral plants in 2003

Agency Version Date: 01/27/2023	Agency: USGS Mineral Resources Program
Agency Update Frequency: Varies	Agency Contact: (703) 648-5953
Planned Next Contact: 04/25/2023	Most Recent Contact: 01/27/2023

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

Agency Version Date: 07/15/2022	Agency: Nuclear Regulatory Commission
Agency Update Frequency: Varies	Agency Contact: (800) 397-4209
Planned Next Contact: 04/07/2023	Most Recent Contact: 01/11/2023

NPL AOC: Areas of Concern related to NPL remediation sites

Agency Version Date: 01/13/2023	Agency: Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: N/R
Planned Next Contact: 04/11/2023	Most Recent Contact: 01/13/2023

NPL LIENS: National Priority List of sites with Liens

Agency Version Date: 01/13/2023	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Varies	Agency Contact: 703-603-8867
Planned Next Contact: 04/11/2023	Most Recent Contact: 01/13/2023

NURSING HOMES: List of Nursing Homes

Agency Version Date: 01/02/2023	Agency: DHS Homeland Infrastructure Foundation
Agency Update Frequency: Varies	Agency Contact: N/R
Planned Next Contact: 03/31/2023	Most Recent Contact: 01/02/2023

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

Agency Version Date: 12/12/2022	Agency: Occupational Safety & Health Administration
Agency Update Frequency: Varies	Agency Contact: 800-321-6742
Planned Next Contact: 06/05/2023	Most Recent Contact: 03/09/2023

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

Agency Version Date: 01/13/2023	Agency: Environmental Protection Agency
Agency Update Frequency: Varies	Agency Contact: (703) 308-8404
Planned Next Contact: 04/11/2023	Most Recent Contact: 01/13/2023



**OTHER ASCERTAINABLE RECORDS (cont.)**

PCB TRANSFORMER: Disposal and Storage of Polychlorinated Biphenyl (PCB) Waste

Agency Version Date: 01/27/2023	Agency: Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: (703) 308-8404
Planned Next Contact: 04/25/2023	Most Recent Contact: 01/27/2023

PCS ENF: Permitted facilities to discharge wastewater (Federal equivalent to NPDES)

Agency Version Date: 12/13/2022	Agency: Environmental Protection Agency
Agency Update Frequency: Varies	Agency Contact: (202) 564-6582
Planned Next Contact: 06/06/2023	Most Recent Contact: 03/10/2023

PCS FACILITY: Permitted facilities to discharge wastewater (Federal equivalent to NPDES)

Agency Version Date: 12/13/2022	Agency: Environmental Protection Agency
Agency Update Frequency: Varies	Agency Contact: (202) 564-6582
Planned Next Contact: 06/06/2023	Most Recent Contact: 03/10/2023

PFAS NPL: List of NPL sites with PFAS or PFOA contamination

Agency Version Date: 01/09/2023	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: 703-603-8867
Planned Next Contact: 04/06/2023	Most Recent Contact: 01/09/2023

PFAS TRIS: List of TRIS sites where PFAS or PFOA are used/manufactured/ treated/ transported/released.

Agency Version Date: 12/13/2022	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Varies	Agency Contact: (202) 566-1667
Planned Next Contact: 06/06/2023	Most Recent Contact: 03/10/2023

PFAS UCMR3: List of PWS wells sampled for Unregulated Contaminant Monitoring Rule (UCMR)

Agency Version Date: 06/02/2022	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: 703-603-8867
Planned Next Contact: 05/18/2023	Most Recent Contact: 02/20/2023

PRISONS: List of Prison facilities

Agency Version Date: 02/24/2023	Agency: DHS Homeland Infrastructure Foundation
Agency Update Frequency: Varies	Agency Contact: N/R
Planned Next Contact: 05/23/2023	Most Recent Contact: 02/24/2023

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: 09/23/2019	Agency: Environmental Protection Agency
Agency Update Frequency: Varies	Agency Contact: (202) 566-1667
Planned Next Contact: 03/31/2023	Most Recent Contact: 01/04/2023

RADINFO: EPA regulated facilities with radiation and radioactive materials

Agency Version Date: 08/01/2019	Agency: Environmental Protection Agency
Agency Update Frequency: Varies	Agency Contact: (202) 566-1667
Planned Next Contact: 06/15/2023	Most Recent Contact: 03/20/2023

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

Agency Version Date: 04/01/2022	Agency: Environmental Protection Agency
Agency Update Frequency: Monthly	Agency Contact: (202) 564-2534
Planned Next Contact: 06/15/2023	Most Recent Contact: 03/17/2023

**OTHER ASCERTAINABLE RECORDS (cont.)**

ROD: Permanent remedy at an NPL site

Agency Version Date: 01/13/2023  
 Agency Update Frequency: Varies  
 Planned Next Contact: 04/11/2023

Agency: Environmental Protection Agency  
 Agency Contact: (800) 424-9346  
 Most Recent Contact: 01/13/2023

SCHOOLS PRIVATE: List of Private Schools

Agency Version Date: 01/05/2023  
 Agency Update Frequency: Varies  
 Planned Next Contact: 04/03/2023

Agency: DHS Homeland Infrastructure Foundation  
 Agency Contact: N/R  
 Most Recent Contact: 01/05/2023

SCHOOLS PUBLIC: List of Public Schools

Agency Version Date: 01/05/2023  
 Agency Update Frequency: Varies  
 Planned Next Contact: 04/03/2023

Agency: DHS Homeland Infrastructure Foundation  
 Agency Contact: N/R  
 Most Recent Contact: 01/05/2023

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners

Agency Version Date: 02/14/2023  
 Agency Update Frequency: No Update  
 Planned Next Contact: 05/11/2023

Agency: Environmental Protection Agency  
 Agency Contact: (202) 566-1667  
 Most Recent Contact: 02/14/2023

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: 01/13/2023  
 Agency Update Frequency: Quarterly  
 Planned Next Contact: 04/11/2023

Agency: U.S. Environmental Protection Agency  
 Agency Contact: 703-603-8867  
 Most Recent Contact: 01/13/2023

SSTS: Tracking of facilities who produce pesticides and their quantity

Agency Version Date: 02/20/2023  
 Agency Update Frequency: Annually  
 Planned Next Contact: 05/18/2023

Agency: Environmental Protection Agency  
 Agency Contact: (202) 566-1667  
 Most Recent Contact: 02/20/2023

STORMWATER: Permitted storm water sites

Agency Version Date: 12/06/2022  
 Agency Update Frequency: Varies  
 Planned Next Contact: 05/30/2023

Agency: Environmental Protection Agency  
 Agency Contact: (202) 566-1667  
 Most Recent Contact: 03/03/2023

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

Agency Version Date: 09/05/2022  
 Agency Update Frequency: Varies  
 Planned Next Contact: 05/26/2023

Agency: Environmental Protection Agency  
 Agency Contact: (202) 566-1667  
 Most Recent Contact: 02/27/2023

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

Agency Version Date: 12/13/2022  
 Agency Update Frequency: Varies  
 Planned Next Contact: 06/06/2023

Agency: Environmental Protection Agency  
 Agency Contact: (202) 566-1667  
 Most Recent Contact: 03/10/2023



**OTHER ASCERTAINABLE RECORDS (cont.)**

UMTRA: Uranium Recovery Sites

Agency Version Date: 06/21/2022  
 Agency Update Frequency: Varies  
 Planned Next Contact: 06/06/2023

Agency: United States Nuclear Regulatory Commission  
 Agency Contact: (301) 415-8200  
 Most Recent Contact: 03/10/2023

VAPOR: EPA Vapor Intrusion Database

Agency Version Date: 03/19/2021  
 Agency Update Frequency: Varies  
 Planned Next Contact: 05/19/2023

Agency: U.S. Environmental Protection Agency  
 Agency Contact: 855-246-3642  
 Most Recent Contact: 02/21/2023

AIRS - KY: Listing of facilities with air permits

Agency Version Date: 01/17/2023  
 Agency Update Frequency: Quarterly  
 Planned Next Contact: 04/14/2023

Agency: Kentucky Department of Environmental Protection  
 Agency Contact: 502-564-3999  
 Most Recent Contact: 01/17/2023

COAL MINES - KY: MMIS Coal Mine Data and Locations

Agency Version Date: 02/17/2023  
 Agency Update Frequency: Quarterly  
 Planned Next Contact: 05/18/2023

Agency: Kentucky Mine Mapping Information System  
 Agency Contact: N/R  
 Most Recent Contact: 02/17/2023

DAYCARE - KY: Child Care Facilities

Agency Version Date: 01/12/2023  
 Agency Update Frequency: Varies  
 Planned Next Contact: 04/10/2023

Agency: Cabinet for Health and Family Services  
 Agency Contact: (502) 564-2524  
 Most Recent Contact: 01/12/2023

DRYCLEANERS - KY: Drycleaner listings

Agency Version Date: 03/02/2023  
 Agency Update Frequency: Quarterly  
 Planned Next Contact: 05/26/2023

Agency: Department of Environmental Protection  
 Agency Contact: (502) 564-6716  
 Most Recent Contact: 03/02/2023

FA 2 - KY: Solid Waste Facilities eligible for Financial Assurance

Agency Version Date: 02/03/2023  
 Agency Update Frequency: Varies  
 Planned Next Contact: 05/01/2023

Agency: Department of Environmental Protection  
 Agency Contact: (502) 564-6716  
 Most Recent Contact: 02/03/2023

FA 3 - KY: Hazardous Waste Facilities eligible for Financial Assurance

Agency Version Date: 01/10/2023  
 Agency Update Frequency: Varies  
 Planned Next Contact: 04/06/2023

Agency: Department of Environmental Protection  
 Agency Contact: (502) 564-6716  
 Most Recent Contact: 01/10/2023

HIST AIRS - KY: Historical listing of facilities with air permits

Agency Version Date: 12/16/2022  
 Agency Update Frequency: Quarterly  
 Planned Next Contact: 06/09/2023

Agency: Kentucky Department of Environmental Protection  
 Agency Contact: 502-564-3999  
 Most Recent Contact: 03/14/2023

HIST DRYCLEANERS - KY: List of drycleaning facilities that are no longer in current agency list.

Agency Version Date: 12/17/2018  
 Agency Update Frequency: Annually  
 Planned Next Contact: 05/26/2023

Agency: Department of Environmental Protection  
 Agency Contact: (502) 564-6716  
 Most Recent Contact: 02/28/2023

## OTHER ASCERTAINABLE RECORDS (cont.)

HIST NPDES - KY: Historical listing of facilities with wastewater and NPDES permits

Agency Version Date: 02/09/2023  
Agency Update Frequency: Quarterly  
Planned Next Contact: 05/08/2023

Agency: Department of Environmental Protection  
Agency Contact: 502-564-3410  
Most Recent Contact: 02/09/2023

LEAD - KY: Lead Program Report

Agency Version Date: 06/18/2021  
Agency Update Frequency: Varies  
Planned Next Contact: 05/22/2023

Agency: Kentucky Environmental Lead Program  
Agency Contact: (502) 564-4537  
Most Recent Contact: 02/24/2023

NPDES - KY: Listing of facilities with wastewater and NPDES permits

Agency Version Date: 02/09/2023  
Agency Update Frequency: Quarterly  
Planned Next Contact: 05/08/2023

Agency: Department of Environmental Protection  
Agency Contact: 502-564-3410  
Most Recent Contact: 02/09/2023

PFAS - KY: List of PFAS sites and areas of interest

Agency Version Date: 09/10/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 05/29/2023

Agency: Energy and Environment Cabinet  
Agency Contact: N/R  
Most Recent Contact: 03/03/2023

RANKING LIST - KY: UST sites eligible for reimbursement from the Financial Responsibility Account & Petroleum Storage Tank Account

Agency Version Date: 01/09/2023  
Agency Update Frequency: Monthly  
Planned Next Contact: 04/06/2023

Agency: Department of Environmental Protection  
Agency Contact: (502) 564-5981  
Most Recent Contact: 01/09/2023

SECONDARY SITES - KY: The sites are categorized as secondary sites by the Kentucky Cabinet for Economic Development

Agency Version Date: 01/10/2023  
Agency Update Frequency: Varies  
Planned Next Contact: 04/06/2023

Agency: Kentucky Cabinet for Economic Development  
Agency Contact: 502-564-0323  
Most Recent Contact: 01/10/2023

UIC - KY: Underground injection control listing

Agency Version Date: 02/17/2023  
Agency Update Frequency: Quarterly  
Planned Next Contact: 05/16/2023

Agency: Kentucky Geological Survey  
Agency Contact: N/R  
Most Recent Contact: 02/17/2023



**SUBJECT PROPERTY ADDRESS:**

Weirs Creek Solar Project  
 Approximately 2000 Acres  
 Hopkins and Webster Counties, Kentucky

**SUBJECT PROPERTY COORDINATES:**

Latitude(North): 37.408782 - 37°24'31.6"  
 Longitude(West): -87.683200 - -87°40'59.5"  
 Universal Transverse Mercator: Zone 16N  
 UTM X (Meters): 439538.14  
 UTM Y (Meters): 4140440.50  
 State Plane Coordinates: 1602 - Kentucky South (US Survey Feet)  
 X Coordinate (Feet): 1078965.509 E  
 Y Coordinate (Feet): 2037719.833 N

**ELEVATION:**

Elevation: 368 ft. above sea level

**USGS TOPOGRAPHIC MAP:**

Subject Property Map: 37087-D6 Nebo, KY  
 Most Recent Revision: 2019

**GEOHYDROLOGY DATA:**

**SUBJECT PROPERTY TOPOGRAPHY:**

Topographic Gradient: North

**DFIRM FLOOD ZONE:**

	DFIRM Flood
Subject Property County:	Electronic Data:
HOPKINS	Yes - refer to the PROPERTY PROXIMITY MAP and AREA MAP
Flood Plain Panel at Subject Property:	21107C0100D (Eff. date 5/16/2008) 21233C0275C (Eff. date 12/17/2013)
Additional Panels in search area:	21107C0225D (Eff. date 5/16/2008)

**FEMA FLOOD ZONE:**

	FEMA Flood
Subject Property County:	Electronic Data:
HOPKINS	Yes - refer to the PROPERTY PROXIMITY MAP and AREA MAP
Flood Plain Panel at Subject Property:	2101120050B
Additional Panels in search area:	2101120175B 2102230001A 2102230002A

**NATIONAL WETLAND INVENTORY:**

	NWI Electronic
<u>NWI Quad at Subject Property:</u>	<u>Data Coverage:</u>
Nebo	Yes - refer to the Geological Findings Map

**LITHOSTRATIGRAPHIC INFORMATION:**

**ROCK STRATIGRAPHIC UNIT:**

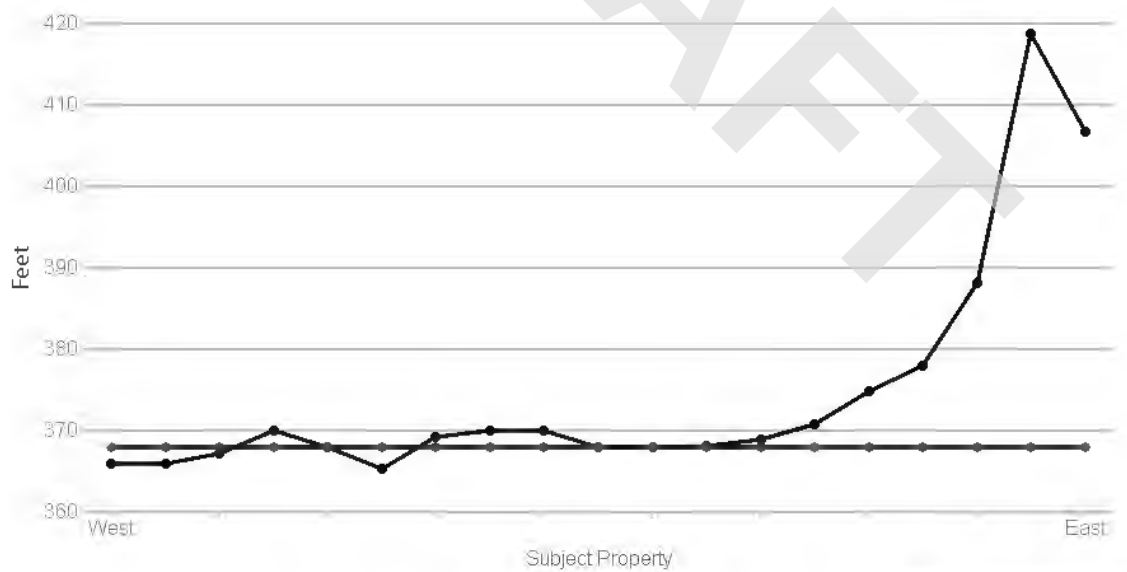
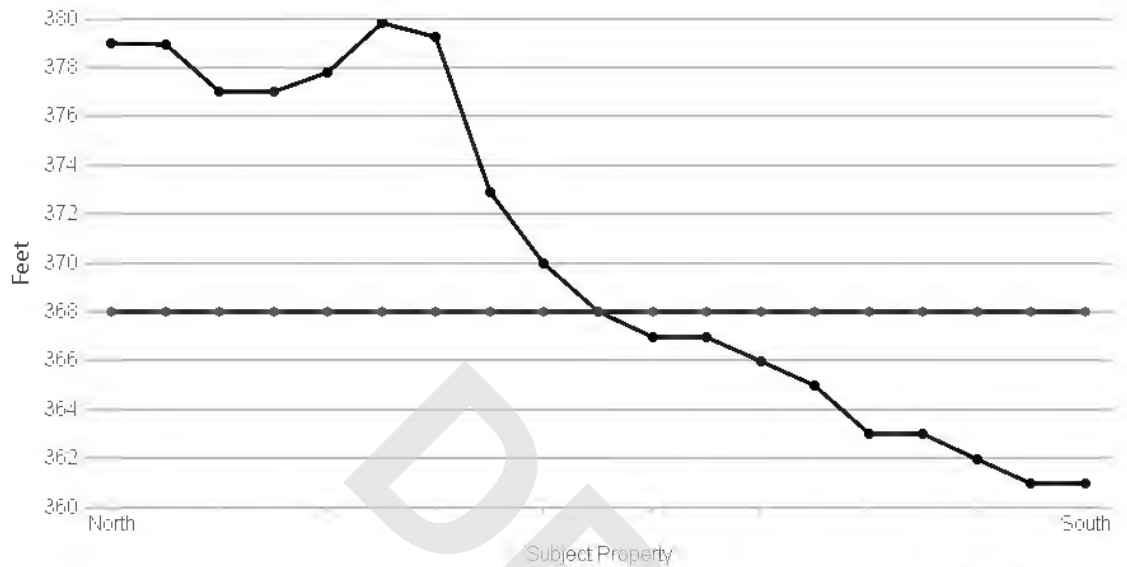
**GEOLOGIC AGE IDENTIFICATION**

Era:	Paleozoic	Category: 85 PP3 Missourian Series
System:	Pennsylvanian	
Series:	Missourian Series	
Code:	PP3	

DRAFT

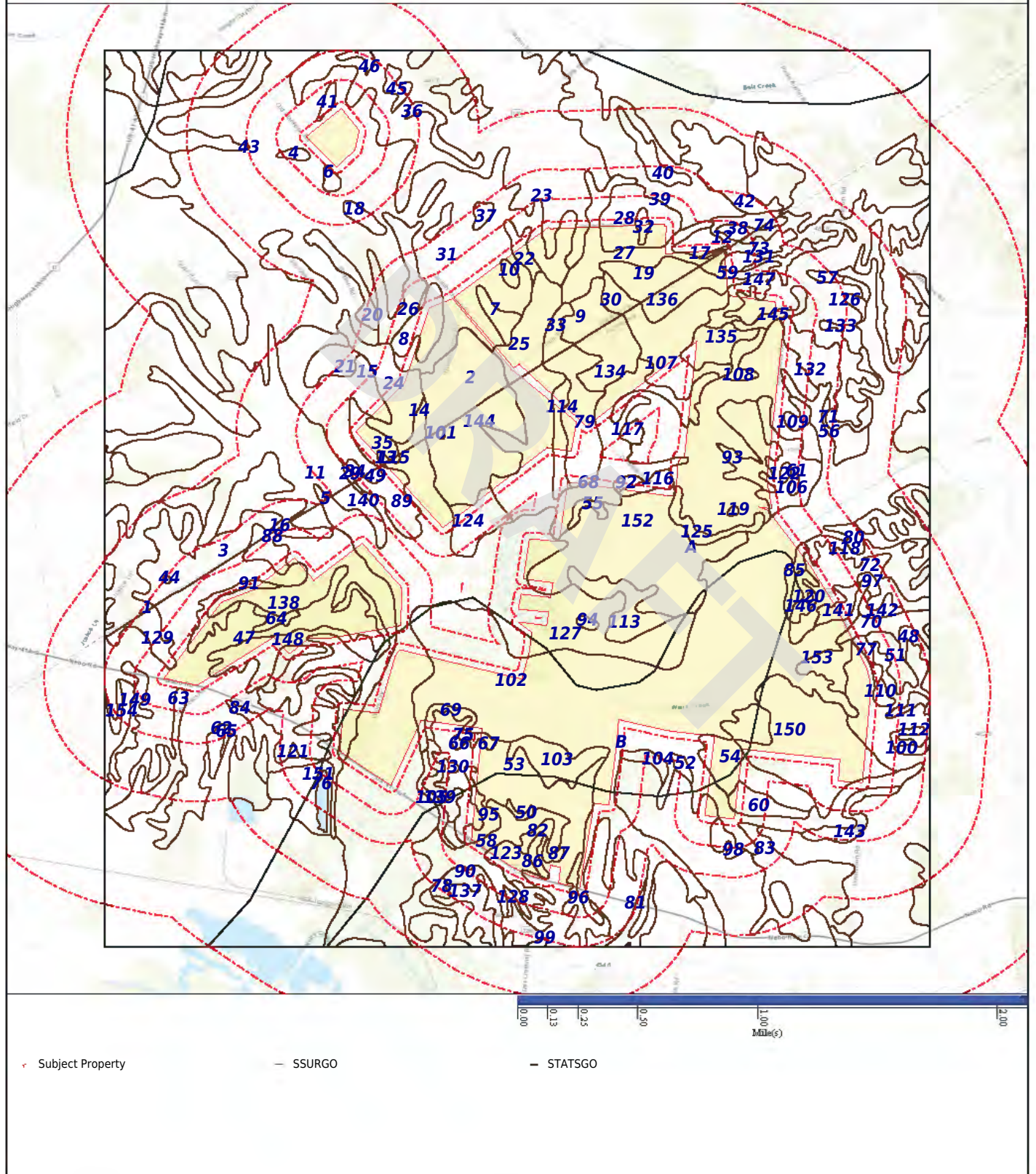


**SURROUNDING ELEVATION PROFILES:**



SUBJECT NAME: Weirs Creek Solar Project  
ADDRESS: Approximately 2000 Acres, Hopkins and Webs...  
LAT/LONG: 37.408782 / -87.683200

PREPARED FOR: Environmental Consulting & Technology...  
ORDER #: 85132  
REPORT DATE: March 30, 2023





**SOIL COMPOSITION IN GENERAL AREA OF SUBJECT PROPERTY:**

Agency source: Soil Conservation Service, US Department of Agriculture

**SOIL MAP ID 1**

**SSURGO**

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	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	0-15	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	4.5-6.5
2	15-56	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	4.5-5.5
3	56-203	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,	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and	0.42-1.41	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	56-203	Silt loam	1984.	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	4.5-6

**SOIL MAP ID 2**

**SSURGO**

USDA Soil Name	Hosmer, 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	0-23	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	4.5-6.5
2	23-64	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	4.23-14.11	4.5-5.5



Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	23-64	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.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	64-203	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	4.5-6

**SOIL MAP ID 3**

**SSURGO**

USDA Soil Name	Hosmer, 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	0-23	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,	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification 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	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt 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	4.5-6.5
2	23-64	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	4.5-5.5
3	64-203	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	4.5-6

**SOIL MAP ID 4**

**SSURGO**

USDA Soil Name	Hosmer, 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	0-23	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	4.5-6.5
2	23-64	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	4.5-5.5
3	64-203	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	4.5-6

**SOIL MAP ID 5**

**SSURGO**

USDA Soil Name	Bonnie,Taxadjunct
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Poorly drained
Hydric Classification	91
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) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid 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	20-97	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).	1.41-4.23	4.5-5.5
3	97-203	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	1.41-4.23	4.5-6.5



Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	97-203	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).	1.41-4.23	4.5-6.5

**SOIL MAP ID 6**

**SSURGO**

USDA Soil Name	Hosmer, 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	0-23	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	4.5-6.5
2	23-64	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.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less 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	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	23-64	Silt 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	4.5-5.5
3	64-203	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	4.5-6

**SOIL MAP ID 7**

**SSURGO**

USDA Soil Name	Hosmer, 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	0-23	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	4.23-14.11	4.5-6.5



Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	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).	4.23-14.11	4.5-6.5
2	23-64	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	4.5-5.5
3	64-203	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	4.5-6

**SOIL MAP ID 8**

**SSURGO**

USDA Soil Name	Hosmer, 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	0-23	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	4.5-6.5
2	23-64	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	4.5-5.5
3	64-203	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	0.42-1.41	4.5-6



Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	64-203	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).	0.42-1.41	4.5-6

**SOIL MAP ID 9**

**SSURGO**

USDA Soil Name	Hosmer, 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	0-23	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	4.5-6.5
2	23-64	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.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less 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	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	23-64	Silt 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	4.5-5.5
3	64-203	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	4.5-6

**SOIL MAP ID 10**

**SSURGO**

USDA Soil Name	Hosmer, 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	0-23	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	4.23-14.11	4.5-6.5



Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	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).	4.23-14.11	4.5-6.5
2	23-64	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	4.5-5.5
3	64-203	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	4.5-6

**SOIL MAP ID 11**

**SSURGO**

USDA Soil Name	Belknap, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	6
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	0-8	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).	4.23-14.11	4.5-7.3
2	8-24	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).	4.23-14.11	4.5-5.5
3	24-195	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	4.23-14.11	4.5-5.5



Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	24-195	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	4.5-5.5
4	195-255	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	4.5-6.5

**SOIL MAP ID 12**

**SSURGO**

USDA Soil Name	Zanesville, 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	0-10	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.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less 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	4.5-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt 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	4.5-7.3
2	10-59	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	4.5-5.5
3	59-87	Silty 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).	0.42-4.23	4.5-5.5
4	87-142	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).	1.41-14.11	4.5-5.5



Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	142-167		No data	No data	0-0.92	0-0

**SOIL MAP ID 13**

**SSURGO**

USDA Soil Name	Bonnie,Taxadjunct
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Poorly drained
Hydric Classification	91
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) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid 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	20-97	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).	1.41-4.23	4.5-5.5
3	97-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for	1.41-4.23	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	97-203	Silt loam	and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	4.5-6.5

**SOIL MAP ID 14**

**SSURGO**

USDA Soil Name	Bonnie,Taxadjunct
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Poorly drained
Hydric Classification	91
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) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid 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	20-97	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	1.41-4.23	4.5-5.5



Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	20-97	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.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	4.5-5.5
3	97-203	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).	1.41-4.23	4.5-6.5

**SOIL MAP ID 15**

**SSURGO**

USDA Soil Name	Hosmer, 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	0-23	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,	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification 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	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt 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	4.5-6.5
2	23-64	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	4.5-5.5
3	64-203	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	4.5-6

**SOIL MAP ID 16**

**SSURGO**

USDA Soil Name	Robbs, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	2
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) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid 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	20-56	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).	1.41-4.23	4.5-6
3	56-203	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	4.5-5.5

**SOIL MAP ID 17**

**SSURGO**

USDA Soil Name	Hosmer, 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	0-23	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	4.5-6.5
2	23-64	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	4.5-5.5
3	64-203	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	0.42-1.41	4.5-6



Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	64-203	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).	0.42-1.41	4.5-6

**SOIL MAP ID 18**

**SSURGO**

USDA Soil Name	Hosmer, 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	0-23	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	4.5-6.5
2	23-64	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.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less 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	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	23-64	Silt 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	4.5-5.5
3	64-203	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	4.5-6

**SOIL MAP ID 19**

**SSURGO**

USDA Soil Name	Hosmer, 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	0-23	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	4.23-14.11	4.5-6.5



Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	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).	4.23-14.11	4.5-6.5
2	23-64	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	4.5-5.5
3	64-203	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	4.5-6

**SOIL MAP ID 20**

**SSURGO**

USDA Soil Name	Hosmer, 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	0-23	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	4.5-6.5
2	23-64	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	4.5-5.5
3	64-203	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	0.42-1.41	4.5-6



Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	64-203	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).	0.42-1.41	4.5-6

**SOIL MAP ID 21**

**SSURGO**

USDA Soil Name	Robbs, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	2
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) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984).	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid 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	20-56	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.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	1.41-4.23	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	20-56	Silt 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).	1.41-4.23	4.5-6
3	56-203	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	4.5-5.5

**SOIL MAP ID 22**

**SSURGO**

USDA Soil Name	Sharon, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	2
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	0-18	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	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	0-18	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	4.5-7.3
2	18-203	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).	4.23-14.11	4.5-5.5

**SOIL MAP ID 23**

**SSURGO**

USDA Soil Name	Hosmer, 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	0-23	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.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less 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	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt 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	4.5-6.5
2	23-64	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	4.5-5.5
3	64-203	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	4.5-6

**SOIL MAP ID 24**

**SSURGO**

USDA Soil Name	Belknap, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	6
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	0-8	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).	4.23-14.11	4.5-7.3
2	8-24	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).	4.23-14.11	4.5-5.5
3	24-195	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).	4.23-14.11	4.5-5.5
4	195-255	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	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	195-255	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	4.5-6.5

**SOIL MAP ID 25**

**SSURGO**

USDA Soil Name	Belknap, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	6
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	0-8	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).	4.23-14.11	4.5-7.3
2	8-24	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	4.23-14.11	4.5-5.5



Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	8-24	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	4.5-5.5
3	24-195	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).	4.23-14.11	4.5-5.5
4	195-255	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	4.5-6.5

**SOIL MAP ID 26**

**SSURGO**

USDA Soil Name	Sharon, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	2
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	0-18	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).	4.23-14.11	4.5-7.3
2	18-203	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).	4.23-14.11	4.5-5.5

**SOIL MAP ID 27**

**SSURGO**

USDA Soil Name	Sharon, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	2
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	0-18	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).	4.23-14.11	4.5-7.3
2	18-203	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).	4.23-14.11	4.5-5.5

**SOIL MAP ID 28**

**SSURGO**

USDA Soil Name	Hosmer, 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	0-23	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	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction	4.23-14.11	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	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	4.5-6.5
2	23-64	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	4.5-5.5
3	64-203	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	4.5-6

**SOIL MAP ID 29**

**SSURGO**

USDA Soil Name	Bonnie,Taxadjunct
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Poorly drained
Hydric Classification	91
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) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid 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	20-97	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).	1.41-4.23	4.5-5.5
3	97-203	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).	1.41-4.23	4.5-6.5

**SOIL MAP ID 30**

**SSURGO**

USDA Soil Name	Robbs, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	2
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) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid 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	20-56	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).	1.41-4.23	4.5-6
3	56-203	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	0.42-1.41	4.5-5.5



Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	56-203	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).	0.42-1.41	4.5-5.5

**SOIL MAP ID 31**

**SSURGO**

USDA Soil Name	Robbs, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	2
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) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid 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	20-56	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.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	1.41-4.23	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	20-56	Silt 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).	1.41-4.23	4.5-6
3	56-203	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	4.5-5.5

**SOIL MAP ID 32**

**SSURGO**

USDA Soil Name	Robbs, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	2
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) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size 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
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.	test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
2	20-56	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).	1.41-4.23	4.5-6
3	56-203	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	4.5-5.5

**SOIL MAP ID 33**

**SSURGO**

USDA Soil Name	Robbs, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	2
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) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid 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	20-56	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).	1.41-4.23	4.5-6
3	56-203	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	0.42-1.41	4.5-5.5



Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	56-203	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).	0.42-1.41	4.5-5.5

**SOIL MAP ID 34**

**SSURGO**

USDA Soil Name	Robbs, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	2
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) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid 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	20-56	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.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	1.41-4.23	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	20-56	Silt 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).	1.41-4.23	4.5-6
3	56-203	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	4.5-5.5

**SOIL MAP ID 35**

**SSURGO**

USDA Soil Name	Robbs, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	2
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) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size 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
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.	test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
2	20-56	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).	1.41-4.23	4.5-6
3	56-203	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	4.5-5.5



**SOIL MAP ID 36**

**SSURGO**

USDA Soil Name	Zanesville, 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	0-10	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	4.5-7.3
2	10-59	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	4.5-5.5
3	59-87	Silty 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	0.42-4.23	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	59-87	Silty 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).	0.42-4.23	4.5-5.5
4	87-142	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).	1.41-14.11	4.5-5.5
5	142-167		No data	No data	0-0.92	0-0

**SOIL MAP ID 37**

**SSURGO**

USDA Soil Name	Hosmer, 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	0-23	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	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction	4.23-14.11	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	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	4.5-6.5
2	23-64	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	4.5-5.5
3	64-203	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	4.5-6

**SOIL MAP ID 38**

**SSURGO**

USDA Soil Name	Hosmer, 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	0-23	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	4.5-6.5
2	23-64	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	4.5-5.5
3	64-203	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	4.5-6

**SOIL MAP ID 39**

**SSURGO**

USDA Soil Name	Robbs, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	2
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) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid 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	20-56	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).	1.41-4.23	4.5-6
3	56-203	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	0.42-1.41	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	56-203	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).	0.42-1.41	4.5-5.5

**SOIL MAP ID 40**

**SSURGO**

USDA Soil Name	Hosmer, 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	0-23	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	4.5-6.5
2	23-64	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.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less 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	4.5-5.5



Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	23-64	Silt 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	4.5-5.5
3	64-203	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	4.5-6

**SOIL MAP ID 41**

**SSURGO**

USDA Soil Name	Hosmer, 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	0-23	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	4.23-14.11	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	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).	4.23-14.11	4.5-6.5
2	23-64	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	4.5-5.5
3	64-203	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	4.5-6

**SOIL MAP ID 42**

**SSURGO**

USDA Soil Name	Hosmer, 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	0-23	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	4.5-6.5
2	23-64	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	4.5-5.5
3	64-203	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	0.42-1.41	4.5-6



Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	64-203	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).	0.42-1.41	4.5-6

**SOIL MAP ID 43**

**SSURGO**

USDA Soil Name	Belknap, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	6
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	0-8	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).	4.23-14.11	4.5-7.3
2	8-24	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.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less 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	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	8-24	Silt 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	4.5-5.5
3	24-195	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).	4.23-14.11	4.5-5.5
4	195-255	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	4.5-6.5

**SOIL MAP ID 44**

**SSURGO**

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 45**

**SSURGO**

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	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	0-15	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	4.5-6.5
2	15-56	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	4.5-5.5
3	56-203	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	0.42-1.41	4.5-6



Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	56-203	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).	0.42-1.41	4.5-6

**SOIL MAP ID 46**

**SSURGO**

USDA Soil Name	Zanesville, 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	0-10	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	4.5-7.3
2	10-59	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.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less 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	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	10-59	Silt 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	4.5-5.5
3	59-87	Silty 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).	0.42-4.23	4.5-5.5
4	87-142	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).	1.41-14.11	4.5-5.5
5	142-167		No data	No data	0-0.92	0-0

**SOIL MAP ID 47**

**SSURGO**

USDA Soil Name	Hosmer, 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	0-23	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	4.5-6.5
2	23-64	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	4.5-5.5
3	64-203	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	4.5-6



**SOIL MAP ID 48**

**SSURGO**

USDA Soil Name	Zanesville, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
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	0-20	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	4.5-7.3
2	20-76	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).	4.23-14.11	4.5-5.5
3	76-127	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	0.42-1.41	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	76-127	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).	0.42-1.41	4.5-5.5
4	127-178	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).	1.41-14.11	4.5-5.5
5	178-203		No data	No data	0-0.92	0-0

**SOIL MAP ID 49**

**SSURGO**

USDA Soil Name	Hosmer, 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	0-23	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	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction	4.23-14.11	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	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	4.5-6.5
2	23-64	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	4.5-5.5
3	64-203	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	4.5-6

**SOIL MAP ID 50**

**SSURGO**

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	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	0-15	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	4.5-6.5
2	15-56	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	4.5-5.5
3	56-203	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	4.5-6

**SOIL MAP ID 51**

**SSURGO**

USDA Soil Name	Frondorf, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
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	0-13	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	4.5-5.5
2	13-38	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	4.5-5.5
3	38-64	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	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	38-64	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	4.5-5.5
4	64-76	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of 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, gravel with fines, Clayey 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).	4.23-14.11	4.5-5.5
5	76-101		No data	No data	0.001-0.92	0-0

**SOIL MAP ID 52**

**SSURGO**

USDA Soil Name	Robbs, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	2
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) 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	4.23-14.11	4.5-6



Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	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
2	20-56	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).	1.41-4.23	4.5-6
3	56-203	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	4.5-5.5

**SOIL MAP ID 53**

**SSURGO**

USDA Soil Name	Hosmer, 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	0-23	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	4.5-6.5
2	23-64	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	4.5-5.5
3	64-203	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	4.5-6

**SOIL MAP ID 54**

**SSURGO**

USDA Soil Name	Hosmer, 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	0-23	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	4.5-6.5
2	23-64	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	4.5-5.5
3	64-203	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	0.42-1.41	4.5-6



Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	64-203	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).	0.42-1.41	4.5-6

**SOIL MAP ID 55**

**SSURGO**

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	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	0-10	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	4.5-7.3
2	10-51	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.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less 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	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	10-51	Silt 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	4.5-6
3	51-175	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).	0.071-1.41	4.5-6
4	175-203	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).	0.07-1.41	4.5-6

**SOIL MAP ID 56**

**SSURGO**

USDA Soil Name	Hosmer, 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	0-23	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	4.5-6.5
2	23-64	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	4.5-5.5
3	64-203	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	4.5-6



**SOIL MAP ID 57**

**SSURGO**

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	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	0-15	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	4.5-6.5
2	15-56	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	4.5-5.5
3	56-203	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	0.42-1.41	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	56-203	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).	0.42-1.41	4.5-6

**SOIL MAP ID 58**

**SSURGO**

USDA Soil Name	Belknap, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	6
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	0-8	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).	4.23-14.11	4.5-7.3
2	8-24	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.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less 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	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	8-24	Silt 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	4.5-5.5
3	24-195	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).	4.23-14.11	4.5-5.5
4	195-255	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	4.5-6.5

**SOIL MAP ID 59**

**SSURGO**

USDA Soil Name	Sharon, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	2
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	0-18	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).	4.23-14.11	4.5-7.3
2	18-203	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).	4.23-14.11	4.5-5.5

**SOIL MAP ID 60**

**SSURGO**

USDA Soil Name	Robbs, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	2
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) 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	4.23-14.11	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	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
2	20-56	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).	1.41-4.23	4.5-6
3	56-203	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	4.5-5.5

**SOIL MAP ID 61**

**SSURGO**

USDA Soil Name	Robbs, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	2
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) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid 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	20-56	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).	1.41-4.23	4.5-6
3	56-203	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	4.5-5.5



**SOIL MAP ID 62**

**SSURGO**

USDA Soil Name	Belknap, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	6
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	0-8	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).	4.23-14.11	4.5-7.3
2	8-24	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).	4.23-14.11	4.5-5.5
3	24-195	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	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	24-195	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	4.5-5.5
4	195-255	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	4.5-6.5

**SOIL MAP ID 63**

**SSURGO**

USDA Soil Name	Belknap, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	6
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	0-8	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.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less 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	4.5-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-8	Silt 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	4.5-7.3
2	8-24	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).	4.23-14.11	4.5-5.5
3	24-195	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).	4.23-14.11	4.5-5.5
4	195-255	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	4.5-6.5



**SOIL MAP ID 64**

**SSURGO**

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	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	0-10	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	4.5-7.3
2	10-51	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).	4.23-14.11	4.5-6
3	51-175	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	0.071-1.41	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	51-175	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).	0.071-1.41	4.5-6
4	175-203	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).	0.07-1.41	4.5-6

**SOIL MAP ID 65**

**SSURGO**

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	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	0-15	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.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less 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	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt 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	4.5-6.5
2	15-56	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	4.5-5.5
3	56-203	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	4.5-6

**SOIL MAP ID 66**

**SSURGO**

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	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	0-15	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	4.5-6.5
2	15-56	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	4.5-5.5
3	56-203	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	4.5-6

**SOIL MAP ID 67**

**SSURGO**

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	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	0-15	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	4.5-6.5
2	15-56	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	4.5-5.5
3	56-203	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	0.42-1.41	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	56-203	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).	0.42-1.41	4.5-6

**SOIL MAP ID 68**

**SSURGO**

USDA Soil Name	Belknap, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	6
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	0-8	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).	4.23-14.11	4.5-7.3
2	8-24	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.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less 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	4.5-5.5



Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	8-24	Silt 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	4.5-5.5
3	24-195	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).	4.23-14.11	4.5-5.5
4	195-255	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	4.5-6.5

**SOIL MAP ID 69**

**SSURGO**

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	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	0-15	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	4.5-6.5
2	15-56	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	4.5-5.5
3	56-203	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	4.5-6

**SOIL MAP ID 70**

**SSURGO**

USDA Soil Name	Sharon, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	2
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	0-18	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).	4.23-14.11	4.5-7.3
2	18-203	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).	4.23-14.11	4.5-5.5

**SOIL MAP ID 71**

**SSURGO**

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	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	0-10	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	4.5-7.3
2	10-51	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).	4.23-14.11	4.5-6
3	51-175	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).	0.071-1.41	4.5-6
4	175-203	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	0.07-1.41	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	175-203	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).	0.07-1.41	4.5-6

**SOIL MAP ID 72**

**SSURGO**

USDA Soil Name	Hosmer, 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	0-23	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	4.5-6.5
2	23-64	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	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	23-64	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).	4.23-14.11	4.5-5.5
3	64-203	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	4.5-6

**SOIL MAP ID 73**

**SSURGO**

USDA Soil Name	Zanesville, 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	0-10	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	4.5-7.3



Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	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	10-59	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	4.5-5.5
3	59-87	Silty 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).	0.42-4.23	4.5-5.5
4	87-142	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).	1.41-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	142-167		No data	No data	0-0.92	0-0

**SOIL MAP ID 74**

**SSURGO**

USDA Soil Name	Zanesville, 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	0-10	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	4.5-7.3
2	10-59	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	4.5-5.5
3	59-87	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for	0.42-4.23	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	59-87	Silty clay loam	and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	4.5-5.5
4	87-142	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).	1.41-14.11	4.5-5.5
5	142-167		No data	No data	0-0.92	0-0

**SOIL MAP ID 75**

**SSURGO**

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 76**

**SSURGO**

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 77**

**SSURGO**

USDA Soil Name	Zanesville, 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	0-10	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	4.5-7.3
2	10-59	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	4.5-5.5
3	59-87	Silty 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	0.42-4.23	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	59-87	Silty 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).	0.42-4.23	4.5-5.5
4	87-142	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).	1.41-14.11	4.5-5.5
5	142-167		No data	No data	0-0.92	0-0

**SOIL MAP ID 78**

**SSURGO**

USDA Soil Name	Gullied 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

**SOIL MAP ID 79**

**SSURGO**

USDA Soil Name	Robbs, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	2
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) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid 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	20-56	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).	1.41-4.23	4.5-6
3	56-203	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	0.42-1.41	4.5-5.5



Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	56-203	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).	0.42-1.41	4.5-5.5

**SOIL MAP ID 80**

**SSURGO**

USDA Soil Name	Hosmer, 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	0-23	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	4.5-6.5
2	23-64	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.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less 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	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	23-64	Silt 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	4.5-5.5
3	64-203	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	4.5-6

**SOIL MAP ID 81**

**SSURGO**

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	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	0-15	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	4.23-14.11	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	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).	4.23-14.11	4.5-6.5
2	15-56	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	4.5-5.5
3	56-203	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	4.5-6



**SOIL MAP ID 82**

**SSURGO**

USDA Soil Name	Robbs, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	2
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) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid 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	20-56	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).	1.41-4.23	4.5-6
3	56-203	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	0.42-1.41	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	56-203	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).	0.42-1.41	4.5-5.5

**SOIL MAP ID 83**

**SSURGO**

USDA Soil Name	Robbs, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	2
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) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid 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	20-56	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.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	1.41-4.23	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	20-56	Silt 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).	1.41-4.23	4.5-6
3	56-203	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	4.5-5.5

**SOIL MAP ID 84**

**SSURGO**

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	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	0-10	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	4.23-14.11	4.5-7.3



Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	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).	4.23-14.11	4.5-7.3
2	10-51	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).	4.23-14.11	4.5-6
3	51-175	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).	0.071-1.41	4.5-6
4	175-203	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	0.07-1.41	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	175-203	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.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.07-1.41	4.5-6

**SOIL MAP ID 85**

**SSURGO**

USDA Soil Name	Frondorf, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
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	0-13	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	4.5-5.5
2	13-38	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	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	13-38	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.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	38-64	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	4.5-5.5
4	64-76	Loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of 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, gravel with fines, Clayey 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).	4.23-14.11	4.5-5.5
5	76-101		No data	No data	0.001-0.92	0-0



**SOIL MAP ID 86**

**SSURGO**

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	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	0-10	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	4.5-7.3
2	10-51	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).	4.23-14.11	4.5-6
3	51-175	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	0.071-1.41	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	51-175	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).	0.071-1.41	4.5-6
4	175-203	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).	0.07-1.41	4.5-6

**SOIL MAP ID 87**

**SSURGO**

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	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	0-10	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.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less 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	4.5-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt 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	4.5-7.3
2	10-51	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).	4.23-14.11	4.5-6
3	51-175	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).	0.071-1.41	4.5-6
4	175-203	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).	0.07-1.41	4.5-6



**SOIL MAP ID 88**

**SSURGO**

USDA Soil Name	Robbs, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	2
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) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid 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	20-56	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).	1.41-4.23	4.5-6
3	56-203	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	0.42-1.41	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	56-203	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).	0.42-1.41	4.5-5.5

**SOIL MAP ID 89**

**SSURGO**

USDA Soil Name	Robbs, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	2
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) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984).	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid 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	20-56	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.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	1.41-4.23	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	20-56	Silt 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).	1.41-4.23	4.5-6
3	56-203	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	4.5-5.5

**SOIL MAP ID 90**

**SSURGO**

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	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	0-10	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	4.23-14.11	4.5-7.3



Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	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).	4.23-14.11	4.5-7.3
2	10-51	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).	4.23-14.11	4.5-6
3	51-175	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).	0.071-1.41	4.5-6
4	175-203	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	0.07-1.41	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	175-203	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.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.07-1.41	4.5-6

**SOIL MAP ID 91**

**SSURGO**

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	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	0-15	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	4.5-6.5
2	15-56	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	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	15-56	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.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	56-203	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	4.5-6

**SOIL MAP ID 92**

**SSURGO**

USDA Soil Name	Hosmer, 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	0-23	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	4.23-14.11	4.5-6.5



Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	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.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	23-64	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	4.5-5.5
3	64-203	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	4.5-6

**SOIL MAP ID 93**

**SSURGO**

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
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	0-15	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	5-6.5
2	15-85	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	4.5-5.5
3	85-203	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	5-6

**SOIL MAP ID 94**

**SSURGO**

USDA Soil Name	Hosmer, 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	0-23	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	4.5-6.5
2	23-64	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	4.5-5.5
3	64-203	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	0.42-1.41	4.5-6



Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	64-203	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).	0.42-1.41	4.5-6

**SOIL MAP ID 95**

**SSURGO**

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	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	0-10	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	4.5-7.3
2	10-51	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.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less 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	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	10-51	Silt 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	4.5-6
3	51-175	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).	0.071-1.41	4.5-6
4	175-203	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).	0.07-1.41	4.5-6

**SOIL MAP ID 96**

**SSURGO**

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	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	0-10	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	4.5-7.3
2	10-51	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).	4.23-14.11	4.5-6
3	51-175	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).	0.071-1.41	4.5-6
4	175-203	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	0.07-1.41	4.5-6



Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	175-203	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).	0.07-1.41	4.5-6

**SOIL MAP ID 97**

**SSURGO**

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
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	0-15	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	5-6.5
2	15-85	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	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	15-85	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).	4.23-14.11	4.5-5.5
3	85-203	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	5-6

**SOIL MAP ID 98**

**SSURGO**

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
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	0-15	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	5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	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	5-6.5
2	15-85	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	4.5-5.5
3	85-203	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	5-6

**SOIL MAP ID 99**

**SSURGO**

USDA Soil Name	Zanesville, 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	0-10	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	4.5-7.3
2	10-59	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	4.5-5.5
3	59-87	Silty 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).	0.42-4.23	4.5-5.5
4	87-142	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	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	1.41-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	87-142	Clay 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).	1.41-14.11	4.5-5.5
5	142-167		No data	No data	0-0.92	0-0

**SOIL MAP ID 100**

**SSURGO**

USDA Soil Name	Zanesville, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
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	0-20	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	4.5-7.3
2	20-76	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	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	20-76	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.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	76-127	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	4.5-5.5
4	127-178	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).	1.41-14.11	4.5-5.5
5	178-203		No data	No data	0-0.92	0-0



**SOIL MAP ID 101**

**SSURGO**

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 102**

**SSURGO**

USDA Soil Name	Belknap,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	6
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	0-8	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).	4.23-14.11	4.5-7.3
2	8-24	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).	4.23-14.11	4.5-5.5
3	24-195	Silt loam	Silt-Clay materials (more than 35%	FINE-GRAINED SOILS, Silts and clays (liquid	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	24-195	Silt loam	passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid 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	4.5-5.5
4	195-255	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	4.5-6.5

**SOIL MAP ID 103**

**SSURGO**

USDA Soil Name	Robbs, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	2
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) 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	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt 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	4.5-6
2	20-56	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).	1.41-4.23	4.5-6
3	56-203	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	4.5-5.5

**SOIL MAP ID 104**

**SSURGO**

USDA Soil Name	Robbs, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	2
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) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid 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	20-56	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).	1.41-4.23	4.5-6
3	56-203	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	4.5-5.5

**SOIL MAP ID 105**

**SSURGO**

USDA Soil Name	Sharon, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	2
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	0-18	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).	4.23-14.11	4.5-7.3
2	18-203	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).	4.23-14.11	4.5-5.5

**SOIL MAP ID 106**

**SSURGO**

USDA Soil Name	Hosmer, 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	0-23	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	4.5-6.5
2	23-64	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	4.5-5.5
3	64-203	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	4.5-6