August 1, 2025
ECT No. 250424-0100

Ms. Christina Martens
Crab Run Solar Project, LLC
422 Admiral Boulevard
Kansas City, Missouri 64106

Re: Phase I Environmental Site Assessment
Crab Run Solar Project
Southwest of North Loretta Road
Marion County, Kentucky

Dear Ms. Martens:

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 (E2247-23). This Phase I ESA is valid through December 9, 2025, after which time certain components of this report may need to be updated. We appreciate the opportunity to work with you. Please feel free to contact us at 630.559.2000 should you have any questions concerning this report, or if we may assist you in any other matter.

Sincerely,

Environmental Consulting & Technology, Inc.

Jessica Phlips
Technical Writer

Lindsay R. Landin, ASTM-CEP
Senior Project Manager

Phase I Environmental Site Assessment of the Crab Run Solar Project Marion County, Kentucky

August 1, 2025
ECT No. 250424-0100

Report Viability Date
December 9, 2025

for
Crab Run Solar Project, LLC
422 Admiral Boulevard
Kansas City, Missouri 64106

403 West St. Charles Road
Lombard, Illinois 60148
630.559.2000

REPORT FINDINGS SUMMARY

Crab Run Solar Project
Marion County, 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	✔					
6.0	Regulatory Database Review	✔					
7.0	Regulatory Agency Records Review	✔					
9.0	Interviews	✔					
10.2	Observed Hazardous Substances and/or Petroleum Products	✔					
10.3	Aboveground Storage Tanks	✔					
10.5	Electrical or Hydraulic Equipment Likely to Contain Fluids	✔					
10.6	Pits, Ponds, Ditches, Streams, or Lagoons	✔					
10.7	Solid Waste, Fill Materials, or Debris	✔					
10.8	Wells	✔					
10.9	Septic Systems	✔					
10.10	Other Field Observations	✔					

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Appendices

Common Acronyms and Abbreviations

AST	Aboveground Storage Tank
AUL	*Activity and Use Limitation*
AAI	*All Appropriate Inquiry*
API	American Petroleum Institute
ACM	Asbestos-Containing Material
bgs	Below Ground Surface
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes
BER	*Business Environmental Risk*
COC	Chemical of Concern
CERCLIS	Comprehensive Environmental Response Compensation and Liability Information System
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CREC	*Controlled Recognized Environmental Condition*
DMC	*De Minimis 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
NPMS	National Pipeline Mapping System
NPL	National Priority List
NWIS	National Water Information System
NRCS	Natural Resources Conservation Service
NFA/NFR	No Further Action/Remediation
NOV	Notice of Violation
PIN	Parcel Identification Number
PPB	Parts per Billion
PPM	Parts per Million
PFAS	Per- and Polyfluoroalkyl Substances
PCE	Perchloroethylene, Tetrachloroethylene, Tetrachloroethene, PERC
PFOS/PFOA	Perfluorooctane Sulfonic Acid/Perfluorooctanoic Acid
PID	Photoionization Detector
PCB	Polychlorinated Biphenyls
PAH	Polycyclic Aromatic Hydrocarbon
REC	*Recognized Environmental Condition*
RCRA	Resource Conservation and Recovery Act
SDS	Safety Data Sheet
SVOC	Semi-Volatile Organic Compound
SDG	*Significant Data Gap*
SQG	Small Quantity Generator
SWF/LF	Solid Waste Facilities/Landfill
SEMS	Superfund Enterprise Management System
TPH	Total Petroleum Hydrocarbons
TSDF	Treatment, Storage or Disposal Facility
TCE	Trichloroethylene, Trichloroethene
UST	Underground Storage Tank
USDA	United States Department of Agriculture
USGS	United States Geological Survey
VSQG	Very Small Quantity Generator
VOC	Volatile Organic Compound
	Italicized = ASTM Terms

1.0 Executive Summary

Environmental Consulting & Technology, Inc. (ECT) was retained by Crab Run Solar Project, LLC (the Client) to conduct a Phase I Environmental Site Assessment (ESA) in conformance with the scope and limitations of the ASTM International (ASTM) Standard Practice E2247-23 (Forestland or Rural Property) and the U.S. Environmental Protection Agency (EPA) Standards and Practices for All Appropriate Inquiries (40 CFR Part 312) for the property located to the southwest of North Loretta Road in Marion County, Kentucky. Any exceptions to, or deletions from, this practice are described in Section 2.5 and Section 12.1 of this report. Any references to ECT throughout this report shall mean the Environmental Professional (EP) or those under the supervision of the EP.

1.1 Property Description

The Subject Property encompasses two parcels (parcel no.'s 031-003 and 031-004), totaling approximately 412 acres developed with agricultural land, numerous agricultural structures, and a residence in Marion County, Kentucky.

A U.S. Geological Survey (USGS) Topographic Map is provided as **Figure 1** and a Subject Property Overview is provided as **Figure 2**. Photographs taken during the reconnaissance are provided in the appendices (**Photographic Documentation**).

1.2 Findings Overview

The Subject Property has been developed similar to the present since at least 1952, with additional structures added over time. During the course of this Phase I ESA, no *Recognized Environmental Conditions* (*RECs), Controlled RECs (CRECs), Historical RECs (HRECs), Significant Data Gaps (SDGs), or De Minimis Conditions (DMCs)* were identified.

In accordance with ASTM E2247-23, the EP should 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 may not be appropriate.

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 E2247-23 and the EPA Standards and Practices for All Appropriate Inquiries (40 CFR 312) for the property located to the southwest of North Loretta Road in Marion County, Kentucky.

2.1 Scope of Work

The purpose of ASTM Practice E2247-23 is to define good commercial and customary practices in the United States of America for conducting an environmental site assessment of *forestland* or *rural property* with respect to the range of contaminants within the scope of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA; 42 U.S.C. §9601) and *petroleum products*. Any exceptions to, or deletions from, this practice are described in Section 2.5 and Section 12.1 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 substances*;
- Observations of adjoining 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 practices 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 [LLPs]*). The goal of Phase I ESAs is to identify *current*, *historical*, and *controlled Recognized Environmental Conditions (RECs)* and *de minimis conditions (DMC)* in connection with the property, to the extent feasible pursuant to the processes prescribed in the ASTM E2247-23 guidelines. The terms current, historical, and controlled *RECs* and *de minimis* conditions are defined by ASTM, the definitions of which are included in the glossary.

2.2 Continued Viability of Phase I ESA

According to ASTM Standard Practice E2247-23, 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 E2247-23.

A Phase I ESA meeting or exceeding ASTM E2247-23 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	**July 3, 2025**
(ii) Searches for Recorded Environmental Liens	**June 20, 2025**
(iii) Reviews of Federal, Tribal, State, and Local Government Records	**June 12, 2025**
(iv) Visual Inspection of the Property and of Adjoining Properties	**July 9, 2025**
(v) Declaration by the EP responsible for the assessment or update	**August 1, 2025**

This Phase I ESA is valid through December 9, 2025, after which time certain components of this report may need to be updated.

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

The performance of this Phase I ESA was limited by the following:

- Dense vegetation along the northern and western portion of the Subject Property limited visual observation of the ground surface.
- Crop coverage along the western and central portion of the Subject Property limited visual observation of the ground surface.

Based on the quality of information obtained from other sources (e.g., historical documentation, interviews, regulatory sources, site reconnaissance, etc.), and the nature of the limitation(s), it is the opinion of the EP that these limitations do not impact ECT's ability to identify *RECs*.

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 Crab Run Solar Project, 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.

SUBJECT PROPERTY DETAILS	
Project Name	Crab Run Solar Project
Location	Southwest of North Loretta Road, Marion County, Kentucky
Approximate Acreage	412 Source: Google Earth, GIS
Parcels	031-003 (eastern) and 031-004 (western)
Current Use	Agricultural, cattle grazing, and residential
Proposed Use	Crab Run Solar Project
Areas of Environmental Interest	aboveground storage tanks (ASTs); drums; farm dump; cattle pen; transformers; pesticides storage shed; manure lagoon
Observed Use of Hazardous Substances	One diesel AST, numerous drums, one pesticide storage trailer with unconfirmed contents (refer to Section 10.2)
UTILITY INFORMATION	
Heating/Cooling Source	Electric and propane
Potable Water Source	Private wells
Sewage Disposal Provider	Private septic system
REGULATORY INFORMATION	
Regulatory Database Listings	None identified
Activity and Use Limitations (AULs)	None identified
Environmental Liens	None identified

The Subject Property encompasses two parcels (parcel no.'s 031-003 and 031-004), totaling 412 acres developed with agricultural land, numerous agricultural structures, and residences in Marion County, Kentucky and is being proposed for development of the Crab Run Solar Project. A USGS Topographic Map is provided as **Figure 1** and a Subject Property Overview is provided as **Figure 2**. Photographs taken during the reconnaissance are provided in the appendices (**Photographic Documentation**).

The Subject Property is situated in the northwestern portion of Marion County in an area of rural residential development and agricultural land. The city of Loretto is located approximately 2 miles to the northwest. The city of Lebanon is located approximately 5.5 miles to the southeast. Crab Run is present in the northern portion.

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)
North	Agricultural fields, rural residences, and North Loretto Road / NC 49 beyond	None identified
East	Agricultural land, rural residences	None identified
South	Arthur Mattingly Road, agricultural land, rural residences	None identified
West	Rural residences and Fogrown Road beyond	None identified

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.

TOPOGRAPHY	
USGS Topographic Quadrangle	*Raywick, Kentucky* (2022)
Approximate Elevation	680-760 feet above sea level
Nearest surface water	Crab Run on the northern portion of the Subject Property; numerous ponds scattered on the Subject Property and throughout the surrounding area
Source: USGS	
SOILS	
USDA NRCS Soil Map Unit	Lowell, Beasley, Faywood, Sandview, Newark, Tilsit-Berea, Faywood, Otwell, Crider, Lawrence, Nolin, Nicholson, and Greenbriar series
Soil Type	Silty clay loam and silt loam
Drainage Class	Somewhat poorly drained to well drained
Source: U.S. Department of Agricultural (USDA) Natural Resources Conservation Service (NRCS),	
GEOLOGY	
Physiographic Area/Region	Outer Bluegrass in the Interior Plateau
Geologic Formation	Drakes and Ashlock, and Fairview Formations
Bedrock	Ordovician-age dolostone and limestone
Source: EPA and USGS	
HYDROLOGY	
Estimated Groundwater Flow[1]	Generally southeast
Estimated Depth to Groundwater	4-20 feet below ground surface (ft bgs)
Source: Kentucky Geological Survey (KGS) and USGS	

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 Crab Run Solar Project, LLC. Mr. Sean Flannery, authorized representative of Crab Run Solar Project, LLC, completed a User Questionnaire on August 20, 2025. A copy of the completed User Questionnaire is included in the appendices (**User Provided Information**). The User's responses have been summarized in the table below.

At the direction of the User, ECT contracted AFX Research, LLC to conduct a search of *environmental liens* and *activity and use limitations* (*AULs)* for each parcel within the Subject Property boundary. A total of two Environmental Lien/AUL Reports, dated June 20, 2025, were reviewed, neither of which identified any *environmental liens* or *AULs* for the Subject Property. Copies of the Environmental Lien/AUL Reports are included in the appendices (Environmental Lien/AUL Reports).

QUESTIONS	YES	NO	COMMENTS
Did a search of *recorded land title records* (or judicial records where appropriate[2]) identify any *environmental liens* filed or recorded against the property under federal, tribal, state, or local law?	☐	✔	Date of search: June 20, 2025
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?	☐	✔	Date of search: June 20, 2025
Do you have any specialized knowledge or experience related to the property or nearby properties?	☐	✔	
Does the purchase price being paid for this property reasonably reflect the fair market value of the property?	✔	☐	Lease
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?	☐	✔	

2. In certain jurisdictions, federal, tribal, state, or local statues, 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.

QUESTIONS	YES	NO	COMMENTS
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?	☐	✔	

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.

5.0 Historical Review

5.1 Historical Sources Reviewed

ECT reviewed the following reasonably ascertainable standard historical sources, as described in ASTM E2247-23, 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 quadrangle is *Raywick, Kentucky*, which is dated 2022. Aerial photographs and topographic maps were reviewed on June 26, 2025.

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	☐	☐	☐
Prior to 1940	☐	☐	☐
1940 - 1945	☐	☐	☐
1946 - 1950	☐	☐	☐
1951 - 1955	✔	✔	☐
1956 - 1960	✔	☐	☐
1961 - 1965	☐	☐	☐
1966 - 1970	☐	☐	☐
1971 - 1975	☐	☐	☐
1976 - 1980	☐	☐	☐
1981 - 1985	✔	☐	✔
1986 - 1990	✔	☐	✔
1991 - 1995	✔	☐	✔
1996 - 2000	✔	☐	✔
2001 - 2005	✔	☐	✔
2006 - 2010	✔	✔	✔
2011 - 2015	✔	✔	✔
2016 - 2020	✔	✔	✔
2021-Current	✔	✔	✔

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)
1951	The Subject Property consists of cleared agricultural fields and fenced-off areas. Natural rolling topography is evident. Agricultural structures are present in the north and southeastern (parcel 031-003), and western (parcel 031-004) portions. A residence is present in the southeast portion (parcel 031-003). Crab Run is depicted in the northern and eastern portions.	Aerial photographs
1953, 1957, 1982, 1983, 1985, 1986, 1991, 1993, 1997	The current owner, Mr. Downs, has been affiliated with the Subject Property since approximately 1990 and utilized it for agricultural purposes. Prior owners of the western parcel included Dolora Yaste (prior to 1982); Billy Joe and Lacheta Jarboe (1982-1997); Steven, Peggy, Doyle, and Doris Downs (1997-2017); Fleam Downs (2017-2910), Doris Doens (2019-2020); and is currently owned by Peggy Downs, as of 2020. Prior owners of the eastern parcel included John E. and Fidelis Mattingly (prior to 1984); William and Mary Mattingly (1980-2001); and is currently owned by Steve and Peggy Downs, as of 2001.	Aerial photographs Topographic maps Interviews AUL/Lien Search
2004, 2006, 2008-2010, 2012	A cattle barn and corral has been constructed in the western portion (parcel 031-004) by 2004; the manure lagoon is under construction by 2006 and in use by 2008. An additional corral is present in the eastern portion (parcel 031-003). A new agricultural structure is present in the south-central portion (parcel 031-003). Unpaved paths traverse throughout. Debris begins to accumulate along the southern portion of a small wooded area in the western portion of the Subject Property (parcel 031-004). An AST is present in the western portion (parcel 031-004).	Aerial photographs Topographic maps
2013	Exterior storage begins to accumulate near the agricultural structure on the western portion (parcel 031-004).	Aerial photographs
2014, 2016-2020, 2022, 2024, 2025	The Subject Property remains in agricultural and residential use.	Aerial photographs Topographic maps Site reconnaissance KGS

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)
1951, 1953, 1957, 1983, 1985, 1986, 1991, 1993, 1997	The surrounding area consists primarily of agricultural land and rural residences. Public Roads are present throughout, including Arthur Matingly Road along the southern border, North Loretto Road beyond to the north, and Frogtown Road beyond to the West. The Louisville and Nashville Railline is present along the western border, situated in a slightly northwest-southeast direction. Crab Run continues to the north and east. Numerous ponds are scattered throughout the surrounding area.	Aerial photographs Topographic maps
2004, 2006, 2008-2010, 2012-2014, 2016-2020, 2022, 2024, 2025	The area remains primarily agricultural with scattered rural residential development throughout, and a small neighborhood is present to the west.	Aerial photographs Topographic maps Site reconnaissance

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 E2247-23. 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 June 12, 2025, was reviewed by ECT on June 13, 2025.

The standard databases researched in accordance with ASTM E2247-23 requirements are listed below.

Standard Environmental Record Sources (where available)	Approximate Minimum Search Distance (miles)
Federal Sources	
National Priority List (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
State Sources	
State- and tribal-equivalent NPL	1.0
State- and tribal-equivalent CERCLIS	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	0.50
State and tribal Brownfield sites	0.50

SP = Subject Property
Italicized = State and tribal lists of hazardous waste sites identified for investigation or remediation
CERCLIS = Comprehensive Environmental Response, Compensation, and Liability Information System
RCRA = Resource Conservation and Recovery Act; TSD = Treatment, Storage, and Disposal

The database report, which includes a search of standard and additional record sources, identified the following listings 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
EPA LUST	0.5	0	0	0	1	0	1

6.2 Subject Property Listings

The Subject Property was not identified on any of the regulatory databases researched by Envirosite.

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
EPA LUST, EPA UST, UST-KY	Loretto Video	Route 2 KY 52, Loretto	0.475	0	Not a concern due to distance

6.4 Unmappable Properties

Envirosite 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 Envirosite were determined to pose an environmental concern to the Subject Property.

6.5 Supplement Database Information

ECT reviewed available information obtained from the U.S. EPA and the Kentucky Energy and Environment Cabinet (KY EEC) environmental mappers on June 26, 2025.

According to the KGS, an approximately 0.25 acre sinkhole is plotted within the eastern portion of the Subject Property. Refer to **Figure 1** for the approximate location. As discussed in Section 3.2, the Subject Property is partially located within the Drake Formation. Small sinkholes with some underground drainage are known to be present within this geological formation where thick limestone beds occur along broad upland stream valleys. ECT was unable to complete an interview with the landowner to confirm the presence of this sinkhole listed on the KGS mapper. The extent, and depth of this sinkhole are unknown, as is the material utilized to fill it. It is known that sinkholes are sometimes filled with trash, fill material, and rocks, and other materials sourced by landowners. Given the unknown details of the extent and fill materials related to this sinkhole, it is the EP's opinion that this finding represents a *Business Environmental Risk (BER)*.

7.0 Regulatory Agency Records Review

7.1 State Environmental Agency

Given that the Subject Property and/or adjoining properties were not listed on any standard environmental record sources, ECT did not submit a formal records request to the Kentucky Energy and Environment Cabinet (KY EEC) as part of this assessment.

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, as well as the KGS's online oil and gas map for the presence of current and/or historical oil/gas wells, on June 27, 2025. No pipelines or oil/gas wells were identified on or in close proximity to the Subject Property.

7.3 Mining and Mineral Exploration

ECT reviewed the Kentucky Mine Mapping Information System Coal Mine online mapper, as well as historical aerial photographs and topographical maps to determine if any mining activity has been present on the Subject Property or adjoining properties. No evidence indicative of mining activity was identified for the Subject Property or adjoining properties.

7.4 Land Application

A publicly available resource for land application in the State of Kentucky was not identified by ECT. Applicable interviews and the regulatory database report did not reveal any evidence indicative of land application of biosolids sourced from wastewater treatment plants for the Subject Property or adjoining properties.

One manure lagoon was present in the western portion; refer to Section 5.2 for additional discussion on the location and length of time present.

8.0 Vapor Migration Review

This preliminary vapor migration review is intended to assess whether a *REC* associated with vapor migration exists for the Subject Property. Based on a review of information obtained throughout this Phase I ESA, ECT has not identified a vapor migration concern for the Subject Property.

9.0 Interviews

9.1 Past and Present Owners

According to the county the Subject Property is owned by Mr. Steve Downs. ECT was provided with a completed interview via e-mail on July 3, 2025, and a follow-up interview was conducted via phone on July 14, 2025. The landowner responses have been summarized in the table below.

QUESTIONS	RESPONSE SUMMARY
How long have you owned and/or been affiliated with the property?	Approximately 35 years
What are the current uses of the property?	Agricultural beef cattle, corn, soybeans, tobacco, and hay
What are the past uses of the property?	Agricultural
What is the approximate age (or construction date) and size / square footage of current structure(s)?	2,000-square-foot house dating back to 1917; eight barns
If vacant or undeveloped, do you know of any prior improvements?	Occupied
Are you aware of any current or previous well(s) and/or septic system(s)?	Yes; at the residence
Do any utilities currently service the property?	Electric and water
Are you aware of any area of storage, used, generation or disposal of automotive, industrial, or agricultural chemicals, batteries, solvents, petroleum products, pesticides or related regulated chemicals?	Initially responded no; did clarify that pesticides are used on the fields, to include FluPro and MH-30. They rarely have to store this in the pesticide shed. They usually only buy and apply what they need.
Are you aware of any underground or aboveground storage tanks for any chemicals or petroleum products currently or historically located on the property?	Yes; diesel AST
Has the property been used as a waste landfill, dump, or disposal site?	No
Are you aware of any fill material that has been placed on the property?	No
Are you aware of any current or former oil or gas wells, or associated tanks / pipelines on the property?	No
Are you aware of any current or former (i.e., filled) pits, ponds, or lagoons located on the property?	Farm ponds and one manure lagoon
Are you aware of any past cattle dipping vats on the property?	No
Are you aware of any former or current biosolid application?	Yes; cattle manure
Are you aware of any petroleum or hazardous waste discharges or releases to the environment, or contamination impacts to the property's soil, groundwater, or surface waters?	No
Are you aware of any leases or easements on the property?	Powerlines
Are you aware of any pending, threatened, or past environmental litigation, proceedings, or notices of possible violations of environmental laws or liability, or potential environmental concerns in connection with the property?	No

QUESTIONS	RESPONSE SUMMARY
Are you aware of any past environmental assessment report(s) prepared for the property?	No

9.2 State and/or Local Government Officials

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

Agency:	Marion County Health Center Environmental Services
Contact Name:	Ms. Beth A. Ross
Title:	Executive Assistant
Method:	E-mail inquiries on June 11, 16, and 20, 2025
Comments:	ECT requested documentation (if any) on file pertaining to wells, septic systems, storage tanks, releases, landfills or dumping of materials, remediation sites, migrating contamination, and/or any other environmental sensitive records. ECT received an response via email on June 24, 2025, which indicated that the Health Department is unable to locate any records for properties that are not assigned an address.

Agency:	Loretto Volunteer Fire Department
Contact Name:	Undiscolsed recipients
Title:	Undiscolsed recipients
Method:	E-mail inquiries on June 11, 16, 20, and 24, 2025
Comments:	ECT requested documentation (if any) on file pertaining to fires, storage tanks, releases, landfills or dumping of materials, remediation sites, migrating contamination, and/or any other environmentally sensitive records. No response has been 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**).

10.0 Site Reconnaissance

RECONNAISSANCE OVERVIEW	
Site Reconnaissance Date:	July 9, 2025
ECT Assessor(s) Name & Title:	Mr. Sam Lucente, Senior Associate Scientist
Escort & Relationship to Property:	None
Methodology:	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 Section 2.5).
Access Limitations:	Dense vegetation and crop coverage. Refer to Section 2.5 for additional information.
SUBJECT PROPERTY CONDITIONS	
Weather:	Cloudy, 76°F
General Topography:	Generally rolling topography with sections of flat land
Current Use:	Agricultural, cattle grazing, and residential
Areas of Environmental Interest:	ASTs; drums; farm dump; cattle pen; transformers; pesticides storage shed; manure lagoon
Roads and Corridors:	Arthur Mattingly Road to the south and Ben Daugherty Road to the west with private access roads throughout the Subject Property.
Other Corridors and Easements:	An electrical transmission line traverses the Subject Property from northwest to southeast along the southern portion of the Subject Property.

In accordance with ASTM E2247-23, 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.

In assessing *forestland* or *rural property*, it is not expected that the interior of all structures on the property will be accessed, unless the structure has been identified as an *area of environmental interest*. Site reconnaissance of isolated areas of the property that include activities outside the definition of *forestland* or *rural property* as defined in E2247-23 should be addressed using methodologies, such as those provided in E1527-21, or documented in Section 2.5 as a limitation.

10.1 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	✔	☐
Hazardous Substances and/or Petroleum Products not in Connection with Property Use	☐	✔
Aboveground Storage Tanks (ASTs)	✔	☐
Underground Storage Tanks (USTs), vent pipes, fill pipes, or access ways indicating USTs may be present	☐	✔
Drums	✔	☐
Unidentified Substance Containers	☐	✔
Strong, Pungent, or Noxious Odors	☐	✔
Drains, Sumps, Clarifiers, or Pools of Liquid	☐	✔
Electrical or Hydraulic Equipment Likely to Contain Fluids	✔	☐
Pits, Ponds, Ditches, Streams, or Lagoons	✔	☐
Stained Soil or Pavement	☐	✔
Stressed Vegetation	☐	✔
Solid Waste, Evidence of Fill Materials or Dumping of Debris	✔	☐
Wastewater or Storm Water Discharges	☐	✔
Wells	☐	✔
Septic Systems	✔	☐
Other	✔	☐

10.2 Observed Hazardous Substances and/or Petroleum Products

10.2.1 In Connection with Property Use

One propane AST and one 500-gallon diesel AST was viewed in the eastern portion (parcel 031-004). One propane AST was viewed in the western portion (parcel 031-003). The AST's are described in further detail in Section 10.3.

Multiple 55-gallon drums and 5-gallon buckets, which contained various types of oils and lubricants, were observed in the vicinity of the farmstead structures on the western and eastern portions. No evidence indicative of a release, such as staining or stressed vegetation, was present near these containers; therefore, it is the EP's opinion that thes findings do not represent a *REC*.

In addition, a trailer with a sign labeled "Pesticides" was observed near the western farmstead (parcel 031-004). The trailer was locked at the time of the inspection. According to the landowner, this trailer is present as a requirement for growing tobacco. Usually, they only buy what they need and do not often use this storage container. As any pesticides are stored in seconday containment, with no evidence of staining or releases in the vicinity, and there is no evidence indicative of a release, such as staining or stressed vegetation, it is the EP's opinion that this finding does not represent a *REC*.

10.3 Aboveground Storage Tanks

As previously noted, one propane AST and one 500-gallon diesel AST was viewed in the eastern portion (parcel 031-004). and one propane AST was viewed in the western portion (parcel 031-003). These ASTs were located near residential/farm structures. It is the EP's opinion that the two propane ASTs do not represent a REC.

De minimis staining was present near the diesel AST port. Given the small nature, it is the EP's opinion that this does not represent a *REC*.

10.4 Drums

Multiple empty drums labeled as "lubricants" were observed near the exterior of one of the barns along the western farmstead on the Subject Property (parcel 031-004). No evidence of staining or releases were observed near the drum storage areas.

10.5 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 farmsteads on the Subject Property. Several transformers contained NON-PCB labels; however, no labels were visible on the transformers along the roadways to indicate their PCB status. All of the transformers appeared to be in good condition with no evidence of leaks.

10.6 Pits, Ponds, Ditches, Streams, or Lagoons

Several cattle ponds were observed along the southern and central portions of the Subject Property. According to Mr. Steve Downs, owner of the Subject Property, the pond near the cattle pens is a manure lagoon. In addition, Crab Run traverses the Subject Property from northwest to southeast. No evidence of staining or stressed vegetation was observed near the ponds or lagoon. Given the nature of the manure lagoon, the current and historical use of the site primarily for agricultural purposes, and the lack of evidence of off-site sources of biosolid land application, it is the opinion of the EP that this finding does not constitute a *REC*.

10.7 Solid Waste, Fill Materials, or Debris

ECT observed a partially buried farm dump along the southern part of a tree line in the western portion of the Subject Property (parcel 031-004). The debris in this area is evident in aerial images for at least 20 years, and is obscured by overgrowth. The visible portions of the dump included wood, scrap metal, and household refuse. No evidence of staining or stressed vegetation was observed. Given the contents of the dump, it is the EP's opinion that this finding represents a BER.

Two tire piles containing approximately 100 tires was observed near a barn along the western portion of the Subject Property (parcel 031-004). The tires appeared to be staged for disposal.

10.8 Wells

No evidence of wells (i.e., monitoring, water supply, oil/gas, injection) was observed on the Subject Property during the site reconnaissance. According to Mr. Downs, the property is connected to the city municipal system.

10.9 Septic Systems

Based on observations made during the site reconnaissance and considering information provided by the landowners, ECT is aware that sewage disposal is supported by private septic systems. Although septic systems can be a recipient to a variety of materials depending on their use, the residential use of such systems is not considered to be of environmental concern. Two septic holding tank access ports were observed along the exterior of the residential structures.

10.10 Other Field Observations

Multiple hay storage and farm equipment storage buildings were observed along the western, central, and eastern portions of the Subject Property. The structures were not accessed at the time of the inspection; however no evidence of staining or releases were observed along the exterior of the buildings.

A cattle pen was observed on the western farmstead and a goat pens were observed on the eastern farmstead on the Subject Property. No evidence of staining or stressed vegetation was observed near the cattle pen.

Given the small amount of the tires, and the nature of the storage buildings and manure lagoon, it is the EP's opinion that these findings do not represent a *REC.*

11.0 Non-Scope Considerations

No non-scope considerations as defined in Appendix X5 of ASTM E2247-23 were included as part of this assessment.

12.0 Evaluation

12.1 Data Failure and Data Gaps

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

- *Historical Sources Data Failure:* Historical usage information in the form of aerial photographs was not available until 1951, and topographic maps were not available until 1953. The ASTM standard requires that all obvious uses of the property shall be identified from the present, back to the property's first developed use, or back to 1940, whichever is earlier. The 1951 aerial photograph revealed the Subject Property was primarily agricultural with a residence and agricultural land; therefore, this represents a data failure. However, given the nature of the Subject Property in 1951, it is the opinion of the EP that this does not represent a *SDG.*
- *Historical Coverage Gap(s):* No historical coverage was available for the Subject Property for a 24 year period between 1958 and 1982. However, based on the other available aerial photographs and topographic maps, ECT believes the Subject Property remained primarily agricultural and and residential during that time. Therefore, it is the opinion of the EP that this does not represent a *SDG*.
- *Lack of Local Agency Response:* ECT requested any available documentation pertaining from the Loretto Volunteer Fire Department; however, as of the publication date of this report, no response has been received. Given information available from aerial photographs, topographical maps, other local interviews, and the regulatory database report, it is the opinion of the EP that this does not represent an *SDG*.

No other *data failures* or *data gaps* were identified in this Phase I ESA.

12.2 Findings and Opinions

Based on the information revealed as part of this Phase I ESA, ECT has not identified any *RECs, CRECs, HRECs, SDGs*, and/or *DMCs* in connection with the Subject Property.

12.3 Conclusion

Ms. Lindsay R. Landin, ASTM-CEP, Environmental Professional, has performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E2247-23 and the 40 CFR 312 (*All Appropriate Inquiry*) of the Subject Property, located southwest of North Loretta Road in Marion County, 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* in connection with the Subject Property.**

In accordance with ASTM E2247-23, the EP should 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 may not be appropriate.

13.0 Environmental Professional Statement

I, Lindsay R. Landin, ASTM-CEP, 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**).

Lindsay R. Landin, ASTM-CEP
Environmental Professional

References

REFERENCED ITEM OR AGENCY	PUBLICATION OR INQUIRY DATE(S)	SOURCE
Aerial Photographs	1951, 1957, 1983, 1985, 1986, 1991, 1993, 1997, 2004, 2006, 2008, 2010, 2012, 2014, 2016, 2018, 2020, 2022	Envirosite
	1997, 2004, 2006, 2008, 2009, 2010, 2013, 2014, 2016, 2017, 2020, 2024	Google Earth™
Assessor Information	June 20, 2025	Marion County
Depth to Groundwater Information	July 1, 2025	USGS-NWIS
Environmental Lien/AUL Search	June 20, 2025	AFX
Fire Department	June 11, 16, and 20, 2025	Loretto Volunteer Fire Department
Geology Information	July 1, 2025	USGS
Health Department	June 11, 16, and 20, 2025	Marion County Health Center Environmental Services
Mining Information	June 13, 2025	Kentucky Mine Mapping Information System
Oil and Gas Authority	June 13, 2025	KGS
Owner Interviews	July 3, 2025	Refer to Section 8.1
Physiographic Information	July 1, 2025	EPA
Pipeline Information	June 13, 2025	NPMS
Regulatory Database Report	June 12, 2025	Envirosite
Soils Information	July 1, 2025	USDA-NRCS
Standard Practice	2023	ASTM Standard E2247-23, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process for Forestland or Rural Property*
State Environmental Agency	July 1, 2025	KY EEC
Supplemental Regulatory Data	June 26, 2025	U.S. EPA
Topographic Maps	1953, 2010, 2013, 2016, 2019, 2022	Envirosite
Topographic Map (current)	2022	USGS (*Raywick, Kentucky*)
User Interview	August 20, 2025	Crab Run Solar Project, LLC

Glossary – ASTM Standard E2247-23

The below definitions have been selected for inclusion in this glossary to remove unnecessary length of the report text, and to provide a quick point of reference for the most commonly used terms. This list is not exhaustive and should not be interpreted as a replacement for ASTM E2247-23. For a full list of definitions and references, please refer to ASTM E2247-23: Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process for Forestland or Rural Property.

Term	Definition
activity and use limitations (AULs), n.	Legal or physical restrictions or limitations on the use of, or access to, a site or facility: *(1)* to reduce or eliminate potential exposure to *hazardous substances* or *petroleum products* in the soil, soil vapor, ground water, or surface water on the *property*, or *(2)* to prevent activities that could interfere with the effectiveness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the *environment*. These legal or physical restrictions, which may include *institutional* and/or *engineering controls*, are intended to pre- vent adverse impacts to individuals or populations that may be exposed to *hazardous substances* and *petroleum products* in the soil, soil vapor, ground water, or surface water on a *property*.
all appropriate inquiries, n.	That inquiry constituting *all appropriate inquiries* into the previous ownership and uses of the *subject property* consistent with good commercial or customary standards and practices as defined in CERCLA, 42 U.S.C. § 9601(35)(B) and 40 C.F.R. Part 312, that will qualify a party to a *forestland* or *rural property* transaction for one of the threshold criteria for satisfying the *LLPs* to CERCLA liability (42 U.S.C. §§ 9601(A) and (B), § 9607(b)(3), § 9607(q), and § 9607(r)), assuming compliance with other elements of the defense.
area(s) of environmental interest, n.	An area or areas of the *property* with indications of activity that could have resulted in the presence of a recognized environmental condition, especially areas where *hazardous substances* or *petroleum products* may be used, handled, managed or stored or may have been used, handled, managed or stored in the past.

Term	Definition
bona fide prospective purchaser, n.	[42 U.S.C. §9607(r)]. A person may qualify as a bona fide prospective purchaser if, among other requirements, such person made "*all appropriate inquiries* into the previous ownership and uses of the facility in accordance with generally accepted good commercial and customary standards and practices." Knowledge of contamination resulting from *all appropriate inquiries* would not generally preclude this liability protection. A person must make *all appropriate inquiries* on or before the date of purchase. The facility must have been purchased after January 11, 2002. See Appendix X1 for the other necessary requirements that are beyond the scope of this Practice.
Brownfields Amendments, n.	Amendments to CERCLA pursuant to the Small Business Liability Relief and Brown- fields Revitalization Act, Pub. L. No. 107-118 (2002), 42 U.S.C. §9601 *et seq*.
business environmental risk, n.	A risk that can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of *commercial real estate*, not necessarily related to those environmental issues required to be investigated in this practice. Consideration of *business environmental risk* issues may in- volve addressing one or more non-scope considerations, some of which are identified in Section 13 [of E2247-23].
contiguous property owner, n.	[42U.S.C. §9607(q)]. A person may qualify for the *contiguous property owner liability protection* if, among other requirements, such person owns real *property* that is contiguous to, and that is or may be contaminated by *hazardous substances* from other real *property* that is not owned by that person. Furthermore, such person conducted *all appropriate inquiries* at the time of acquisition of the *subject property* and did not know or have reason to know that the *subject property* was or could be contaminated by a *release* or threatened *release* from the contiguous *property*. The *all appropriate inquiries* must not result in knowledge of contamination. If it does, then such person did "know" or "had reason to know" of contamination and would not be eligible for the *contiguous property owner* liability protection. See Appendix X1 for the other necessary requirements that are beyond the scope of this practice.
controlled recognized environmental condition, n.	A *recognized environmental condition* affecting the *subject property* that has been addressed to the satisfaction of the applicable regulatory authority or authorities with *hazardous substances* or *petroleum products* allowed to remain in place subject to implementation of required controls (for example, *activity and use limitations* or other *property use limitations*).

Term	Definition
data failure, n.	A failure to achieve the historical research objectives in 8.3.1 even after reviewing the *standard historical resources* in 8.3.4.1 through 8.3.4.3 that are *reasonably ascertainable* and likely to be useful. *Data failure* is one type of *data gap*.
data gap, n.	A lack of or inability to obtain information required by this 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 this practice, including, but not limited to *site reconnaissance* (for example, an inability to conduct the *site visit*), and *interviews* (for example, an inability to interview the *key site manager*, regulatory officials, etc.).
de minimis condition, n.	A condition related to a *release* 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. A condition determined to be a *de minimis conditions* condition is not a *recognized environmental condition* nor a *controlled recognized environmental condition*.
environmental lien, n.	A charge, security, or encumbrance upon title to a *property* to secure the payment of a cost, damage, debt, obligation, or duty arising out of response actions, cleanup, or other remediation of *hazardous substances* or *petroleum products* upon a *property*, including, but not limited to, liens imposed pursuant to CERCLA 42 U.S.C. §§9607(1) and 9607(r) and similar state or local laws.
environmental site assessment (ESA), n.	The process by which a person or entity seeks to determine if a *subject property* is subject to *recognized environmental conditions*. At the option of the *user*,an *environmental site assessment* may include more inquiry than that constituting *all appropriate inquiries* or, if the *user* is not concerned about qualifying for the *LLPs*, less inquiry than that constituting *all appropriate inquiries* (see Appendix X1).
Forestland, n.	*Property* that is either unmanaged *land* or managed *land* where forest management principles are applied to the regeneration, utilization, productivity, and conservation of forests to meet specific goals. Both managed and unmanaged *forestland* may have roads and limited areas of development.

Term	Definition
hazardous substance, n.	A substance defined as a *hazardous substance* pursuant to CERCLA 42 U.S.C. § 9601(14), as interpreted by EPA regulations and the courts: "(A) any substance designated pursuant to section 1321(b)(2)(A) of Title 33, (B) any element, compound, mixture, solution, or substance designated pursuant to section 9602 of this title, (C) any *hazardous waste* having the characteristics identified under or listed pursuant to section 3001 of the Resource Conservation and Recovery Act of 1976 (RCRA), as amended, (42 U.S.C. § 6921) (but not including any waste the regulation of which under RCRA (42 U.S.C. § 6901 *et seq*.) has been suspended by Act of Congress), (D) any toxic pollutant listed under section 1317(a) of Title 33, (E) any hazardous air pollutant listed under section 112 of the Clean Air Act (42 U.S.C. §7412), and (F) any imminently hazardous chemical substance or mixture with respect to which the Administrator (of EPA) has taken action pursuant to section 2606 of Title 15. The term does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a *hazardous substance* under subparagraphs (A) through (F) of this paragraph, and the term does not include natural gas, natural gas liquids, liquefied natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas)."
hazardous waste, n.	Any *hazardous waste* having the characteristics identified under or listed pursuant to section 3001 of RCRA, as amended, (42 U.S.C. § 6921) (but not including any waste the regulation of which under RCRA (42 U.S.C. §§ 6901-6992k) has been suspended by Act of Congress). RCRA is sometimes also identified as the Solid Waste Disposal Act. RCRA defines a *hazardous waste*, at 42 U.S.C. § 6903, as: "A solid waste, or combination of solid wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may: (A) cause, or significantly contribute to, an increase in mortality or an increase in serious irreversible, or incapacitating reversible, illness, or (B) pose a substantial present or potential hazard to human health or the *environment* when improperly treated, stored, transported, or disposed of, or otherwise managed."
historical recognized environmental condition, n.	A previous *release* of *hazardous substances* or *petroleum products* affecting the *subject property* that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meeting unrestricted use criteria established by the applicable regulatory authority or authorities without subjecting the *subject property* to any controls (for example, *activity and use limitations* or *other property use limitations*). A *historical recognized environmental condition* is not a *recognized environmental condition*.

Term	Definition
innocent landowner [42 U.S.C. §§ 9601(35) & 9607(b)(3)], n.	[42 U.S.C. §§9601(35)& 9607(b)(3)]. A person may qualify as one of three types of innocent landowners: (1) a person who "did not know and had no reason to know" that contamination existed on the *subject property* at the time the purchaser acquired the *subject property*; (2) a government entity which acquired the *property* by escheat, or through any other involuntary transfer or acquisition, or through the exercise of eminent domain authority by purchase or condemnation; or (3) a person who "acquired the facility by inheritance or bequest." To qualify for the *innocent landowner defense*, such person must have made *all appropriate inquiries* on or before the date of purchase. Furthermore, the *all appropriate inquiries* must not have resulted in knowledge of the contamination. If it does, then such person did "know" or "had reason to know" of contamination and would not be eligible for the *innocent landowner defense*. See Appendix X1 for the other necessary requirements that are beyond the scope of this practice.
institutional controls (IC), n.	A legal or administrative restriction (for example, "deed restrictions", restrictive covenants, easements, or zoning) on the use of, or access to, a site or facility to *(1)* reduce or eliminate potential exposure to *hazardous substances* or *petroleum products* in the soil or ground water on the *property*, or *(2)* to prevent activities that could interfere with the effectiveness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the *environment*. An institutional control is a type of *activity and use limitation* (AUL).
Landowner Liability Protections (LLPs), n.	*A defense to CERCLA available to bona fide prospective purchasers, contiguous property owners, and innocent landowners. See 42 U.S.C. §§ 9601(35)(A), 9601(40), 9607(q), and 9607(r).*
material threat, n.	An *obvious* threat which is likely to lead to a *release and* that, in the opinion of the *environmental professional*, would likely result in impact to public health or the *environment*. An example might include an aboveground storage tank system that contains a *hazardous substance,* and which shows evidenceof damage. The damage would represent a *material threat* if it is deemed serious enough that it may cause or contribute to tank integrity failure with a *release* of contents to the *environment*.

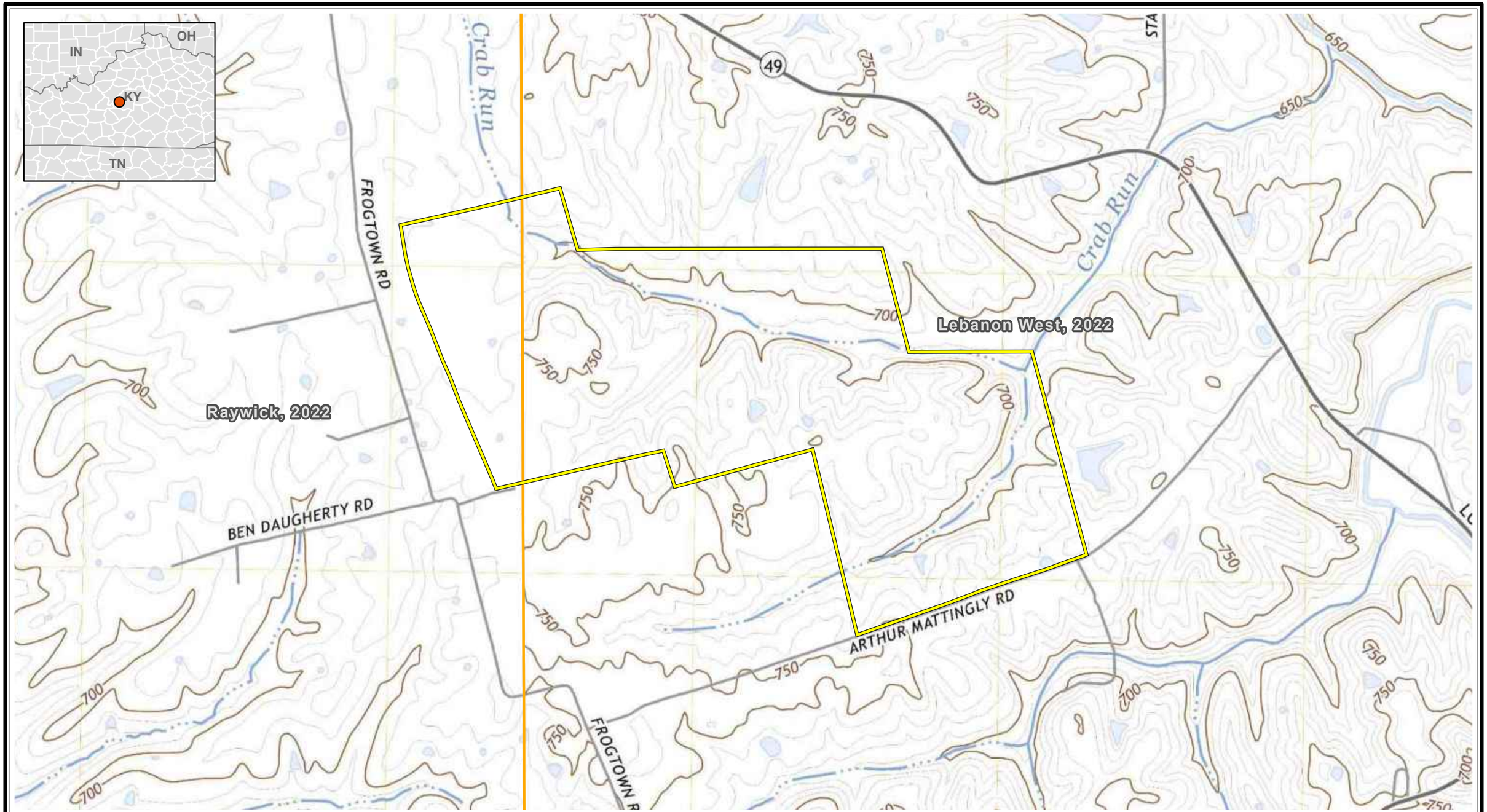
Term	Definition
petroleum products, n.	Those substances included within the meaning of the *petroleum exclusion* to CERCLA, 42 U.S.C. § 9601(14), as interpreted by the courts and EPA, that is: petroleum, including crude oil or any fraction thereof, which is not otherwise specifically listed or designated as a *hazardous substance* under Subparagraphs (A) through (F) of 42 U.S.C. § 9601(14), natural gas, natural gas liquids, liquefied natural gas, and synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas). The word fraction refers to certain distillates of crude oil, including gasoline, kerosene, diesel oil, jet fuels, and fuel oil, pursuant to *Standard Definitions of Petroleum Statistics*.[1]
pits, ponds, or lagoons, n.	Manmade or natural depressions in a ground surface that are likely to hold liquids or sludge containing *hazardous substances* or *petroleum products*. The likelihood of such liquids or sludge being present is determined by evidence of factors associated with the pit, pond, or lagoon, including, but not limited to, discolored water, distressed vegetation, or the presence of an *obvious wastewater* discharge.
recognized environmental condition, n.	The presence of *hazardous substances* or *petroleum products* in, on, or at the *subject property* due to *release* to the *environment*; *(2)* the likely presence of *hazardous substances* or *petroleum products* in, on, or at the *subject property* due to a *release* or likely *release* to the *environment*; or *(3)* the presence of *hazardous substances* or *petroleum products* in, on, or at the *subject property* under conditions that pose a *material threat* of a future *release* to the *environment*.
release, n/v	A *release* of any *hazardous substance* or *petroleum product* shall have the same meaning as the definition of "*release*" in CERCLA 42 U.S.C. § 9601(22)). There are a number of statutory exclusions from the definition of *release* that may impact the *environmental professional's* opinions and conclusions, such as, the normal application of fertilizer.
rural property, n.	*Property* that has a low human population density and is undeveloped or has limited areas of development.
user, n.	The party seeking to use E2247 to complete an *environmental site assessment* of the *subject property*.

Source: ASTM International Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process for Forestland or Rural Property (E2247-23)

[1] *Standard Definitions of Petroleum Statistics*, American Petroleum Institute, Fifth Edition, 1995.

Appendix A

Figures



Project Boundary (± 412.1 ac.)

USGS 24k Topo Boundary

N

0 500 1,000

Feet

Base Layer: USGS Topographic Quadrangle; Lebanon West & Raywick, 2022

Figure 1
USGS Topographic Map

Crab Sun Solar
Marion County, Kentucky

Date: 7/11/2025

ECT

Project Boundary (± 412.1 ac.)
Parcel Boundary
Sinkhole (Approximate Location, KGS)
Water Well (KGS)
Closed UST(s) (EPA)
EPA Facility

Field Observation

AST(s)
AST(s), Propane
Buckets, 5-gal
Cattle Pen
Drum(s)
Lagoon/Settling Pond
Farm Dump
Pesticides Shed
Piles - Debris
Septic - Tank
Storage, Farm Equipment
Storage, Hay
Tire Pile
Transformer - Pole-Mounted

N

0 375 750

Feet

Base Layer: USDA NAIP Imagery, 2022

Figure 2
Subject Property Overview

Crab Sun Solar
Marion County, Kentucky

Date: 7/11/2025

ECT

Appendix B

Photographic Documentation

Client Name:

Crab Run Solar Project, LLC

Project No:

250424-0100

View of the northern portion of the Subject Property

View of the eastern portion of the Subject Property

Client Name:

Crab Run Solar Project, LLC

Project No:

250424-0100

View of the southern portion of the Subject Property

View of the western portion of the Subject Property

Site Reconnaissance Date: July 9, 2025

Client Name:

Crab Run Solar Project, LLC

Project No:

250424-0100

View of the residence, storage structures and agricultural structures in the eastern portion of the Subject Property

View of the residence, storage structures and agricultural structures in the western portion of the Subject Property

Site Reconnaissance Date: July 9, 2025

Client Name:

Crab Run Solar Project, LLC

Project No:

250424-0100

View of the equipment storage structure on the western portion of theSubject Property (parcel 031-004)

View of the fuel AST with de minimis staining on the western portion of the Subject Property (parcel 031-004)

Client Name:

Crab Run Solar Project, LLC

Project No:

250424-0100

View of the residence on the western portion of the Subject Property

Typical view of the pole-mounted transformer on the Subject Property

Client Name:

Crab Run Solar Project, LLC

Project No:

250424-0100

View of the pesticide trailer on the western portion of the Subject Property (parcel 031-004)

View of the drum storage area on the Subject Property (parcel 031-004)

Client Name:

Crab Run Solar Project, LLC

Project No:

250424-0100

View of the 5-gallon containers observed near the farmstead on the western portion of the Subject Property (parcel 031-004)

View of the farm dump on the western portion of the Subject Property (parcel 031-004)

Client Name:

Crab Run Solar Project, LLC

Project No:

250424-0100

View of a barn in the south-central portion of the Subject Property

View of agricultural structures in the eastern portion of the Subject Property

Client Name:

Crab Run Solar Project, LLC

Project No:

250424-0100

View of the barn in the south-central portion of the Subject Property

View of the cattle pen on the western portion of the Subject Property (parcel 031-004)

Client Name:

Crab Run Solar Project, LLC

Project No:

250424-0100

View of the manure lagoon on the western portion of the Subject Property (parcel 031-004)

Typical view of the septic holding tanks for the residences on the Subject Property (parcel 031-003)

Client Name:

Crab Run Solar Project, LLC

Project No:

250424-0100

Typical view of the propane tanks situated on the Subject Property

View of the electrical transmission line traversing the Subject Property onto the adjoining properties

Site Reconnaissance Date: July 9, 2025

Client Name:

Crab Run Solar Project, LLC

Project No:

250424-0100

Typical view of the crop coverage across the western portion of the Subject Property (parcel 031-004)

View of the northern adjoining property to the Subject Property

Site Reconnaissance Date: July 9, 2025

Client Name:

Crab Run Solar Project, LLC

Project No:

250424-0100

View of the eastern adjoining property to the Subject Property

View of the southern adjoining property to the Subject Property

Client Name:

Crab Run Solar Project, LLC

Project No:

250424-0100

View of the western adjoining properties to the Subject Property

Appendix C

User Provided Information

Please Return Completed Form to: LLandin@ectinc.com

USER QUESTIONNAIRE

In order 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 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[1]) 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.** _____

_____

_____

[1] 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.

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 D

Environmental Lien/AUL Reports

ENVIRONMENTAL LIEN AND AUL REPORT TO 1980

Order Number:
79-410441-47

Project Number:
250424-0100-COTEL1

Subject Property:
CRAB RUN SOLAR PROJECT
830 ARTHUR MATTINGLY RD
LEBANON, KY 40033

Effective:
06/20/2025

Completed:
06/23/2025

AFX RESEARCH, LLC

A Quarter-Century of Title Document Research Expertise

999 Monterey St. Suite 380, San Luis Obispo, CA 93401

(877) 848-5337 / www.afxllc.com

Order #: 79-410441-47 | Project #: 250424-0100-COTEL1 | Completed: 06/23/2025 | Effective: 06/20/2025

SOURCES SEARCHED

Source 1:	MARION COUNTY RECORDER'S OFFICE
Source 2:	MARION COUNTY ASSESSOR'S OFFICE
Source 3:	KENTUCKY DEPARTMENT FOR ENVIRONMENTAL PROTECTION
Source 4:	UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Examiner Notes:	PUBLIC RECORDS OF MARION COUNTY, KY WERE SEARCHED FROM JANUARY 1, 1980 TO JUNE 20, 2025, AND NO OTHER DEEDS VESTING TITLE IN THE SUBJECT PROPERTY WERE FOUND OF RECORD DURING THE PERIOD SEARCHED. **NOTICE:** JUDICIAL RECORDS NOT SEARCHED. BASED ON AVAILABLE INFORMATION EVALUATED BY THE TITLE SEARCH PROFESSIONAL, THE JURISDICTION DOES NOT REQUIRE A SEARCH OF JUDICIAL RECORDS IN ORDER TO IDENTIFY ENVIRONMENTAL LIENS.

TARGET PROPERTY

Site Name:	CRAB RUN SOLAR PROJECT
Current Owner(s):	STEVE B. DOWNS AND PEGGY S. DOWNS, HUSBAND AND WIFE
Street Address:	830 ARTHUR MATTINGLY RD
City, State Zip Code:	LEBANON, KY 40033
APN/Parcel/PIN:	031-003
County:	MARION
Legal Description:	830 ARTHUR MATTINGLY RD

ENVIRONMENTAL LIENS

NO ENVIRONMENTAL LIENS FOUND.

ACTIVITY AND USE LIMITATIONS (AUL)

NO AUL FOUND.

DEED CHAIN

Instrument 1. **DEED**

Date Recorded: 06/08/2001 Book/Page: 221/547

Dated: 06/08/2001

Grantor(s): MARY D. MATTINGLY, WIDOW

Grantee(s): STEVE B. DOWNS AND PEGGY S. DOWNS, HUSBAND AND WIFE

Instrument 2. **QUIT CLAIM DEED**

Date Recorded: 06/05/1987 Instrument:

Dated: 03/14/1984

Grantor(s): JOHN E. MATTINGLY, FIDELIS MATTINGLY

Grantee(s): WILLIAM S. MATTINGLY, MARY D. MATTINGLY

Notes: THIS IS THE OLDEST DEED OF RECORD FOUND WITHIN SCOPE OF SEARCH.

MISCELLANEOUS INSTRUMENTS

Instrument: **MEMORANDUM OF OPTION AND SOLAR ENERGY LEASE**

Date Recorded: 03/24/2021 Book/Page: L14/359

Dated: 03/24/2021

1st Party: STEVEN B. DOWNS AND PEGGY S. DOWNS

2nd Party: CRAB RUN SOLAR PROJECT, LLC

THANK YOU FOR YOUR ORDER

For questions, please contact our office at 1-877-848-5337.

Order Number:
79-410441-47

Project Number:
250424-0100-COTEL1

Our Environmental Lien and AUL report to 1980 provides a summary of recorded information on a specific property from January 1st, 1980 to present time. The report is intended to assist in the search for environmental liens filed in land title records. The report will verify property ownership, links the recorded transactions which pass title from one person (and/or entity) to another, and provide information on recorded environmental liens and/or Activity and Use Limitations that have been recorded from January 1st, 1980 forward. The scope of this search is compliant with ASTM 1527-21 standards.

Our professional network of trained researchers follow established industry protocols and use client-supplied property information to complete this Environmental Lien and AUL report. The research is conducted at all appropriate government offices based on the location of the subject property. This would include City, County, State, Federal and Tribal offices as needed. The report includes:

- Current deed information (i.e. grantor, grantee, recording dates)
- Historical property transfer information from 1980 forward (i.e. grantor, grantee, recording dates)
- Legal Description
- Environmental Lien information
- Activity and Use Limitation information
- Any Environmental Liens and/or documents referencing AULs that are listed within our summary report

DEEDS EXHIBIT

DB 221

547

#30

AT FILED 3:08 P.M.

JUN 08 2001 $12.-

MARION COUNTY
EDDIE LEE, COUNTY CLERK

DEED TAX $ 150.- PAID 6-8-01

EDDIE LEE, MARION CO. CLERK By

DEED OF CONVEYANCE

THIS DEED OF CONVEYANCE, made and entered into on this the 8th day of June, 2001, by and between

MARY D. MATTINGLY, WIDOW, hereinafter referred to as the Grantor, whose address is 8034 North Watterson Trail, Louisville, Kentucky, 40291; and

STEVE B. DOWNS and PEGGY S. DOWNS, HUSBAND AND WIFE, hereinafter referred to as the Grantees, whose address is 830 Arthur Mattingly Road, Lebanon, Kentucky, 40033.

WITNESSETH: That for and in consideration of the sum of **ONE HUNDRED FIFTY THOUSAND DOLLARS AND 00/100 ($150,000.00),** cash in hand paid, pursuant to a Contract dated August 31, 1992, the receipt of which is hereby acknowledged, the Grantor does hereby bargain, sell, alien, grant and convey to the Grantees, for their joint lives, and with the remainder unto the survivor thereof, his or her heirs and assigns forever (subject to a right of first refusal referred to hereinafter), that certain real property located in **Marion** County, Kentucky, more particularly described as follows, to wit:

A certain tract or parcel of land situate, lying and being on the Springfield and Raywick Road about 1-1/2 miles north of St. Mary's, Kentucky, bounded and described as follows:

BEGINNING at a stone on said road, corner to Thomas G. Elder; thence with said road north 66-1/2 deg. east 155 poles to a stone on said road, corner to the tracts allotted to Nicholas Mattingly, Simeon Mattingly and John A. Mattingly; thence north 19-1/2 deg. west 136 poles to a stone near Crab Run, corner to Burdet A. Van Cleave land; thence up said creek south 73 deg. west 10 poles; north 86-1/2 deg. west 28 poles; north 30 deg. west 8 poles; south 79 deg. west 40 poles to a stone on the north bank of Crab Run; thence North 17 deg. west 65 poles to a stone corner to Lum Montgomery; thence south 85-1/2 deg. west 198-1/2 poles to a stake on the south bank of Crab Run corner to Richard Smith in Milburn Mattingly's line; thence south 18-1/2 deg. east 120 poles to a stone, corner to said Mattingly in Mrs. Matilda Thompson's line; thence with his line north 76 deg. east 17 poles to a stone; thence south 17 deg. east 24 poles to a stake; corner to Thomas G. Elder; thence with this line north 72 deg. east 93 poles to a stake, corner to said Elder thence with his line south 18-1/2 deg. east 123 poles to the beginning, containing 282 acres, more or less.

548

THIS BEING THE SAME PROPERTY in which an undivided one-half (1/2) interest in said property was conveyed to William S. Mattingly and Mary D. Mattingly, husband and wife, by virtue of a Quitclaim Deed dated March 14, 1984, from John E. Mattingly and Fidelis Mattingly, his wife, as appears of record in Deed Book 144, Page 372, Marion County Court Clerk's Office. FURTHER, THIS BEING THE SAME PROPERTY in which an undivided one-half (1/2) interest in said property was conveyed to William S. Mattingly and Mary D. Mattingly, his wife, and an undivided one-half (1/2) interest in said property was conveyed to John E. Mattingly and Fidelis Mattingly, his wife, by virtue of a General Warranty Deed dated February 10, 1974, from Mary Teresa Mattingly, widow, as appears of record in Deed Book 96, Page 323, Marion County Court Clerk's Office. Mary D. Mattingly acquired a 100% interest in said property under the survivorship clause of said Deeds upon the death of her husband, William S. Mattingly, who passed away on the 13th day of July, 1987, a resident of Jefferson County, Kentucky.

TO HAVE AND TO HOLD the above property, together with all the improvements thereon and all of the appurtenances thereto, belonging unto the Grantees for their joint lives, and with the remainder belonging unto the survivor thereof, his or her heirs and assigns forever, with Covenant of General Warranty of Title, it being the intention of the parties hereto that the Grantor conveys the herein-described property to the Grantees in such a manner as shall pass under this Deed the interest of the Grantee first dying in its entirety unto the surviving Grantee in fee simple absolute, subject to a right of first refusal in favor of Mary D. Mattingly to match any written bonafide offer to purchase the property from the Grantees within 15 days after written notice of the written bonafide offer on the same terms and conditions contained in the offer is delivered to Mary D. Mattingly. If Mary D. Mattingly does not execute her right of first refusal, then the right passes to Stacey Neal, Shannon Schoeder and/or Susan Buckner, under the same terms and conditions as set forth above. The rights of first refusal shall terminate upon the death of each person named herein as recipient of said right.

This conveyance is made subject to all existing easements for public roads and public utilities; all applicable Planning and Zoning laws, rules and regulations; and any covenants and restrictions of record in the Marion County Court Clerk's Office.

All applicable 2001 real estate taxes shall be paid by the Grantees. The Grantees shall receive possession of the above-described property upon execution and delivery of this Deed. The parties hereto certify that the consideration reflected in this Deed is the true, correct and full consideration paid for the property herein conveyed. The parties hereto further certify their understanding that falsification of the stated consideration or sale price of the property is a Class D felony, subject to one to five years imprisonment and fines up to $10,000. The Grantees joined this deed for the sole purpose of certifying the consideration pursuant to KRS 382.

IN TESTIMONY WHEREOF, witness the hands of the Grantor and the Grantees on the day and date first above written.

549

MARY D. MATTINGLY, Grantor

STEVE B. DOWNS, Grantee

PEGGY S. DOWNS, Grantee

COMMONWEALTH OF KENTUCKY
COUNTY OF MARION

This is to certify that the foregoing Deed and Consideration Certificate were acknowledged and sworn to before me this 8th day of June, 2001, by MARY D. MATTINGLY, WIDOW, the Grantor herein, to be her free and voluntary act.

NOTARY PUBLIC
STATE AT LARGE
My Commission Expires: 3-7-2003

COMMONWEALTH OF KENTUCKY
COUNTY OF MARION

This is to certify that the foregoing Consideration Certificate was acknowledged and sworn to before me this 8th day of June, 2001, by STEVE B. DOWNS and PEGGY S. DOWNS, HUSBAND AND WIFE, the Grantees herein.

NOTARY PUBLIC
STATE AT LARGE
My Commission Expires: 3-7-2003

Prepared By:

E. GREGORY GOATLEY
Attorney at Law
225 East Main Street
Springfield, Kentucky 40069
(859) 336-3536
(859) 336-5044 (FAX)

State of Kentucky, County of Marion, Sct. 1
EDDIE LEE, Clerk of Marion County, do certify that
the foregoing Deed was, on the 8 day
of June 2001 at 3:08 P. M. lodged in my
office for record, and that it has been duly recorded
in my said office, Deed Book 221 Page 547
Given under my hand this 11 day of June 2001
EDDIE LEE, Clerk
By Jennifer Courtwright D.C.

LS\M:\public\myfiles\DEEDS\Mattingly, Mary D. to Downs, Steve B. and Peggy S. (282 acres) (Marion Co.).wpd

MISCELLANEOUS INSTRUMENTS EXHIBIT

MARION COUNTY
L14 PG359

Book: 14 Pages: 359-367 (9)
Name: L
CHAD MATTINGLY
MARION COUNTY
3/24/2021
D.C: Janice.Richerson
Deed Tax: $0.00
208352

PREPARED BY AND
AFTER RECORDING, RETURN TO:

KKH

Kris Hanzlicek
Crab Run Solar Project, LLC
422 Admiral Blvd
Kansas City MO 64106

FILED $62.00
AT 10:59AM ECM
MAR 24 2021
MARION COUNTY
CHAD G. MATTINGLY, COUNTY CLERK

MEMORANDUM OF OPTION AND SOLAR ENERGY LEASE

THIS MEMORANDUM OF OPTION AND SOLAR ENERGY LEASE (this "***Memorandum***") is dated effective as of the date of execution hereby by the final party to sign this Memorandum (the "***Effective Date***") by and between Steven B. Downs and Peggy S. Downs, husband and wife ("***Lessor***"), whose address is 830 Arthur Mattingly Road, Lebanon, Kentucky 40033, and Crab Run Solar Project, LLC, a Delaware limited liability company ("***Lessee***"), whose address is 422 Admiral Blvd, Kansas City MO 64106 with reference to the following recitals:

A. Lessor owns that certain real property (including all air space thereof) described on Exhibit "A" attached hereto (the "***Property***"), which Property is located in the County of Marion, in the Commonwealth of Kentucky.

B. Lessor and Lessee (together, the "***Parties***" and each a "***Party***") have entered into that certain unrecorded Option and Solar Energy Lease dated of even date herewith (the "***Lease***"), which affects the Property.

C. The Parties have executed and acknowledged this Memorandum and are recording the same for the purpose of providing constructive notice of the Lease and Lessee's rights thereunder. Capitalized terms used and not defined herein have the meaning given the same in the Lease.

NOW, THEREFORE, for and in consideration the promises, covenants and agreements of the Parties contained in the Lease and herein, and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Parties hereby agree as follows:

1. **Purpose of Lease.** Lessee shall have a right of access during the Development Term (defined in the Lease) for performing certain due diligence, as set forth below, and possession of the Property during the Extended Term (defined in the Lease) for the exclusive right for solar energy conversion and energy storage, for the collection and transmission of electric power, and for related and incidental purposes and activities (collectively, "***Solar Operations***"), to be conducted in such locations on the Property as Lessee may determine, and whether accomplished by Lessee or a third party authorized by Lessee, including, without limitation:

1.1 During the Development Term, determining the feasibility of solar energy conversion and energy storage on the Property or on neighboring lands, including conducting studies of solar radiation, soils, and other meteorological and geotechnical data, and installing temporary meteorological masts and solar energy measurement equipment;

1.2 During the Extended Term, developing, constructing, reconstructing, erecting, enlarging, installing, improving, replacing, relocating and removing from time to time, and maintaining, using, monitoring and operating, existing, additional or new (i) individual units or arrays of solar energy collection cells/panels and related facilities necessary to harness sunlight for photovoltaic energy generation, storage, and collection, including without limitation, existing and/or future technologies used or useful in connection with the generation of electricity from sunlight and storing the same, and associated support structure, braces, wiring, plumbing, and related equipment, and necessary storage buildings ("***Solar Energy Facilities***"), (ii) facilities for the storage, collection, distribution, step-up, step-down, wheeling, transmission and sale of electricity and for communications in connection with the Solar Energy Facilities, including, without limitation, the following, at such locations as Lessee shall determine that are developed, constructed and/or operated on the Property and/or on property to be acquired by leasehold or by fee purchase, by or on behalf of Lessee: underground and/or overhead distribution, collection and transmission lines; underground and/or overhead control, communications and radio relay systems and telecommunications equipment; energy storage facilities; interconnection and/or switching facilities, circuit breakers, transformers; cables, wires, fiber, conduit, footings, foundations, towers, poles, crossarms, guy lines and anchors, and any related or associated improvements, fixtures, facilities, appliances, machinery and equipment (collectively, the "***Transmission Facilities***"), (iii) meteorological masts and solar energy measurement equipment, (iv) control buildings, control boxes and computer monitoring hardware, (v) utility lines and installations, (vi) safety protection facilities, (vii) laydown areas and maintenance yards, (viii) roads, bridges, culverts, and erosion control facilities, (ix) signs, fences, and gates, (x) maintenance, operations and administration buildings, and (xi) other improvements, fixtures, facilities, machinery and equipment associated or connected with the generation, conversion, storage, switching, metering, step-up, step-down, transmission, distribution, conducting, wheeling, sale or other use or conveyance of electricity (all of the foregoing, including the Solar Energy Facilities and Transmission Facilities, collectively a "***Solar Energy System***");

1.3 During the Extended Term, using any existing hydrant or water well or drilling, digging and excavating one or more wells on the Property, all at Lessee's sole cost and expense, for use during construction activities and routine maintenance operations, including, but not limited to, washing solar panels and spraying down dusty roads in connection with construction, servicing, operating and maintaining the Solar

Energy System that is located on the Property, including the right to tap into (at Lessee's sole cost and expense under a separate meter) any municipal, township, county, or other public water service;

1.4 During the Extended Term, removing, trimming, pruning, topping, clearing, or otherwise controlling the growth of any tree, shrub, plant or other vegetation; dismantling, demolishing, and removing any improvement, structure, embankment, impediment, berm, wall, fence, engineering works, or other object, on or that intrudes (or upon maturity could intrude) into the Property that could obstruct, interfere with or impair the Solar Energy System or the use of the Property intended by Lessee hereunder, provided, however, that the overall drainage off the property remain materially unaffected if any portion of the Property is utilized for agricultural purposes, and provided further that, Lessee's removal of any such improvements or structures having salvage value (as reasonably determined by Lessee) shall be coordinated with Lessor, and if so elected by Lessor within ten (10) days after notice from Lessee that any such improvement or structure must be removed, Lessor shall have a fifteen (15) day period to remove any such improvement at Lessor's expense. In the event Lessor fails to respond in writing to Lessee in such ten (10) day period, or Lessor elects not to remove or fails to remove any such improvements or structures within such fifteen (15) day period, Lessee may remove and dispose of such improvements or structures at Lessee's expense, and Lessee shall have no liability to Lessor relating to the removal and disposal thereof;

1.5 A non-exclusive easement for vehicular and pedestrian access, ingress and egress to, from and over the Property, at such locations as Lessee shall determine, for purposes related to or associated with the Solar Energy System installed or to be installed on the Property or adjacent property, which, without limiting the generality of the foregoing, shall entitle Lessee to use, improve and widen any existing and future roads and access routes or construct such roads as Lessee may determine necessary from time to time located on or providing access to the Property, across any other adjacent property owned by Lessor and across any access routes over which Lessor has the right to travel;

1.6 Undertaking any other lawful activities, whether accomplished by Lessee or a third party authorized by Lessee, that Lessee determines are necessary, helpful, appropriate, convenient or cost-effective in connection with, incidental to or to accomplish any of the foregoing purposes, including conducting surveys and soils, environmental, biological, cultural and other tests and studies.

Notwithstanding the foregoing in this Section 1, during the Development Term (defined in the Lease), Lessee's rights with respect to the Property are limited to those rights necessary for Lessee to conduct feasibility and other due diligence analysis and studies with respect to the Property, including access to the Property for purposes thereof, and Lessee shall not be permitted to commence construction of any Solar Energy System on any portion of the Property (other than meteorological and solar and radiation measurement, monitoring and recording equipment and facilities) unless and until Lessee has exercised the Lease Extension Option (defined in the Lease) with respect to such portion of the Property. Lessee's exercise of the Lease Extension Option shall memorialize the end of the Development Term and the execution of the Option to enter into the commencement of the Extended Term (as defined in the Lease), upon which Lessee shall be conferred the right, but not the obligation, for Lessee to construct and operate the Solar Energy System.

2. Among other things, this Lease includes the exclusive right and easement on, over and across the Property for the free and unobstructed flow of sunlight resources, together with the exclusive right to (i) develop, use, convert, maintain and capture such sunlight, (ii) convert solar energy into electrical energy and (iii) derive and keep all credits and income therefrom (subject to the payment of Rent to Lessor, as set forth below).

3. The Lease shall initially be for a term of five (5) years commencing on the Effective Date and ending on FEB. 26th, 2026. Lessee shall have the right and option to extend the term of the Lease for one additional period of thirty (30) years, upon the terms set forth in the Lease. Additionally, Lessee shall have the right to renew the Extended Term for two (2) additional five (5) year periods.

4. Any Solar Energy System constructed on the Property shall at all times remain the property of Lessee and shall not be deemed to be fixtures and (ii) Lessor shall have no ownership, lien, security or other interest (including any lien that might otherwise be implied by law) in any Solar Energy System installed on the Property, or in any profits or income derived therefrom.

5. Neither Lessor nor any of its tenants, licensees, contractors, invitees, agents, assigns or anyone else obtaining rights from Lessor shall, currently or prospectively, interfere with, impair, delay or materially increase the cost of any of Lessee's Solar Operations (whether conducted on the Property or elsewhere), or the undertaking of any other activities or the free enjoyment or exercise of any other rights or benefits given to or permitted Lessee hereunder. Without limiting the generality of the foregoing, neither Lessor nor anyone obtaining rights from or acting with the permission of Lessor shall (a) interfere with or impair the free, unobstructed and natural availability of sunlight over or across the Property (whether by planting trees, constructing structures, or otherwise), or the lateral or subjacent support for the Solar Energy System or (b) engage in any other activity on the Property or elsewhere that might cause a decrease in the output, efficiency or longevity of the Solar Energy System.

6. The Lease is for the additional purposes, is of the nature, and is subject to the requirements and limitations, set forth therein. The Lease also contains various other covenants, obligations and rights of the Parties, including, without limitation, provisions relating to Rent, termination of the Lease, quiet enjoyment, restoration of the Property, assignment and lender protections.

7. The terms, conditions and covenants of the Lease are incorporated herein by reference as though fully set forth herein. This Memorandum does not supersede, modify, amend or otherwise change the terms, conditions or covenants of the Lease, and this Memorandum shall not be used in interpreting the terms, conditions or covenants of the Lease. In the event of any conflict between this Memorandum and the Lease, the Lease shall control.

8. The Property shall be held, conveyed, hypothecated, encumbered, leased, used and occupied subject to the covenants, terms and provisions set forth in the Lease and herein, which shall run with the Property and each portion thereof and interest therein as equitable servitudes, and shall be binding upon and inure to the benefit of the Parties and each sublessee and any other person and entity having any interest therein during their ownership thereof, and their respective sublessees, grantees, heirs, executors, administrators, successors and assigns, and all persons claiming under them.

9. This Memorandum may be executed with counterpart signature pages and in duplicate originals, each of which shall be deemed an original, and all of which shall collectively constitute a single instrument.

[REST OF PAGE LEFT BLANK; SIGNATURES ON SEPARATE SHEETS]

IN WITNESS WHEREOF, Lessee has executed and delivered this Memorandum as of FEBRUARY 26th, 2021.

LESSEE:

CRAB RUN SOLAR PROJECT, LLC,
a Delaware limited liability company

By: _____

Name: Aaron Lipscomb

Title: Authorized Person

STATE OF MO)
) ss.
COUNTY OF Jackson)

Be it remembered that on this 26 day of February, 2021, before me, the undersigned, a Notary Public in and for the County and State aforesaid, came Aaron Lipscomb, to me personally known, who being by me duly sworn did say that he is an Authorized Person of Crab Run Solar Project, LLC, a Delaware limited liability company, and that the within instrument was signed and sealed on behalf of said Crab Run Solar Project, LLC by authority thereof, and acknowledged said instrument to be the free act and deed of said limited liability company for the purposes therein expressed.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Notarial Seal in the date herein last above written.

My Commission Expires:

5.28.2024
[SEAL]

_____
Notary Public in and for said County and State

Print Name: KYLE SMITH

KYLE SMITH
NOTARY SEAL
NOTARY PUBLIC
Commission #20377790
STATE OF MISSOURI

LESSEE: CRAB RUN SOLAR PROJECT, LLC,
a Delaware limited liability company

By: _____

Name: Scott Zeimetz

Title: Authorized Person

Address: 422 Admiral Boulevard
Kansas City, MO 64106

STATE OF MO)
) ss.
COUNTY OF Jackson)

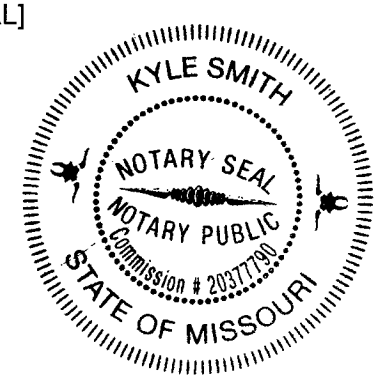
Be it remembered that on this 26 day of February, 2021, before me, the undersigned, a Notary Public in and for the County and State aforesaid, came Scott Zeimetz, to me personally known, who being by me duly sworn did say that he/she is Authorized Person of Crab Run Solar Project, LLC, a Delaware limited liability company, and that the within instrument was signed and sealed on behalf of said Crab Run Solar Project, LLC by authority thereof, and acknowledged said instrument to be the free act and deed of said limited liability company for the purposes therein expressed.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Notarial Seal in the date herein last above written.

My Commission Expires:

5.28.2024

[SEAL]



_____
Notary Public in and for said County and State

Print Name: KYLE SMITH

LESSOR:

Steven B. Downs

Peggy S. Downs

IN WITNESS WHEREOF, Lessor has executed and delivered this Memorandum as of February, 2021.

STATE OF Kentucky)
) ss.
COUNTY OF Marion)

BE IT REMEMBERED, that on this 11th day of February, 2021, before me, the undersigned, a Notary Public in and for said County and State aforesaid, came Steven B. Downs and Peggy S. Downs, husband and wife, to me known to be the persons who executed the foregoing instrument, and acknowledged that they executed the same as their free act and deed and for the purposes therein stated.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Notarial Seal in the date herein last above written.

My Commission Expires:
05-23-2024
[SEAL] KYNP53564

Notary Public in and for said County and State KYNP53564

Print Name: Kendra Eagle-Gray

EXHIBIT "A"

DESCRIPTION OF THE PROPERTY

THE FOLLOWING REAL PROPERTY LOCATED IN THE COUNTY OF MARION, COMMONWEALTH OF KENTUCKY:

A certain tract or parcel of land situate, lying and being on the Springfield and Raywick Road about 1-1/2 miles north of St. Mary's, Kentucky, bounded and described as follows:

BEGINNING at a stone on said road, corner to Thomas G. Elder; thence with said road north 66-1/2 deg. east 155 poles to a stone on said road, corner to the tracts allotted to Nicholas Mattingly, Simeon Mattingly and John A. Mattingly; thence north 19-1/2 deg. west 136 poles to a stone near Crab Run, corner to Burdet A. Van Cleave land; thence up said creek south 73 deg. west 10 poles; north 86-1/2 deg. west 28 poles; north 30 deg. west 8 poles; south 79 deg. west 40 poles to a stone on the north bank of Crab Run; thence North 17 deg. west 65 poles to a stone corner to Lum Montgomery; thence south 85-1/2 deg. west 198-1/2 poles to a stake on the south bank of Crab Run corner to Richard Smith in Milburn Mattingly's line; thence south 18-1/2 deg. east 120 poles to a stone, corner to said Mattingly in Mrs. Matilda Thompson's line; thence with his line north 76 deg. east 17 poles to a stone; thence south 17 deg. east 24 poles to a stake; corner to Thomas G. Elder; thence with this line north 72 deg. east 93 poles to a stake, corner to said Elder thence with his line south 18-1/2 deg. east 123 poles to the beginning, containing 282 acres, more or less.

AND

A certain tract of land situated in Marion County, Kentucky, and lying 2½ miles northwest of St. Mary, Kentucky, and more particularly described as follows:

BEGINNING at a post on the east side of the Louisville & Nashville Railroad right-of-way, and corner to George Northcraft; thence with his line North 75 1/4 degrees east 105.21 poles to a stone, corner to Northcraft and Mattingly; thence with Mattingly's line south 18 ½ degrees east 182.3 poles to a stone, corner to Mattingly; thence south 76 degrees west 96.72 poles to a post on the east side of the aforesaid railroad right-of-way; thence with the line of the east edge of said railroad right-of-way; it being the line as it meanders north 24 degrees west 133 poles; thence north 18 ½ degrees west 20.6 poles; thence north 11 degrees west 28.42 poles to the beginning, containing 117.9 acres of land, according to survey made August 16, 1923, by Fred Faulkner, surveyor.

LESS AND EXCEPT

A certain tract of land located in Marion County, Kentucky, and being approximately 3 miles northwest of St. Mary, Kentucky, on Frogtown Road, and more particularly described as follows:

Beginning at a point in the east right of way of Frogtown Road and being 30 feet south of the corner with Yaste; thence North 75 degrees 51 minutes 00 seconds East 363.93 feet to a point in the old railroad right of way; thence with the railroad right of way South 8 degrees 54 minutes 00 seconds East 79.17 feet; thence South 11 degrees 35 minutes 00 seconds East, 92.20 feet; thence leaving the railroad right of way South 76 degrees 00 minutes 15 seconds West, 353.05 feet to a point in the east right of way of Frogtown Road; thence with the right of way of Frogtown Road North 13 degrees 59 minutes 00 seconds West, 170.00 feet to the point of beginning, containing 1.40 acres.

STATE OF KENTUCKY
COUNTY OF MARION
I, CHAD MATTINGLY, County Clerk for the County and State aforesaid, certify that the foregoing LEASE was on March 24, 2021
lodged for record, whereupon the same with the foregoing and this certificate have been duly recorded in my office.
WITNESS my hand this March 24, 2021
CHAD MATTINGLY, CLERK
By Janice Richerson D.C.

Q#4953800

ENVIRONMENTAL LIEN AND AUL REPORT TO 1980

Order Number:
79-410442-47

Project Number:
250424-0100-COTEL2

Subject Property:
CRAB RUN SOLAR PROJECT
FROGTOWN RD
MARION COUNTY, KY

Effective:
06/20/2025

Completed:
06/23/2025

AFX RESEARCH, LLC

A Quarter-Century of Title Document Research Expertise

999 Monterey St. Suite 380, San Luis Obispo, CA 93401

(877) 848-5337 / www.afxllc.com

Order #: 79-410442-47 | Project #: 250424-0100-COTEL2 | Completed: 06/23/2025 | Effective: 06/20/2025

SOURCES SEARCHED

Source 1:	MARION COUNTY RECORDER'S OFFICE
Source 2:	MARION COUNTY ASSESSOR'S OFFICE
Source 3:	KENTUCKY DEPARTMENT FOR ENVIRONMENTAL PROTECTION
Source 4:	UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Examiner Notes:	PUBLIC RECORDS OF MARION COUNTY, KY WERE SEARCHED FROM JANUARY 1, 1980 TO JUNE 20, 2025, AND NO OTHER DEEDS VESTING TITLE IN THE SUBJECT PROPERTY WERE FOUND OF RECORD DURING THE PERIOD SEARCHED. **NOTICE:** JUDICIAL RECORDS NOT SEARCHED. BASED ON AVAILABLE INFORMATION EVALUATED BY THE TITLE SEARCH PROFESSIONAL, THE JURISDICTION DOES NOT REQUIRE A SEARCH OF JUDICIAL RECORDS IN ORDER TO IDENTIFY ENVIRONMENTAL LIENS.

TARGET PROPERTY

Site Name:	CRAB RUN SOLAR PROJECT		
Current Owner(s):	STEVEN BLAINE DOWNS, PEGGY SUE DOWNS		
Property Description:	FROGTOWN RD		
County, State:	MARION COUNTY, KY		
APN/Parcel/PIN:	031-004	County:	MARION
Legal Description:	FROGTOWN RD		

ENVIRONMENTAL LIENS

NO ENVIRONMENTAL LIENS FOUND.

ACTIVITY AND USE LIMITATIONS (AUL)

NO AUL FOUND.

DEED CHAIN

Instrument 1. **DEED**

Date Recorded: 02/20/2020 Book/Page: D334/541
Dated: 02/17/2020
Grantor(s): DORIS ANN DOWNS
Grantee(s): STEVEN BLAINE DOWNS, PEGGY SUE DOWNS

Instrument 2. **ORDER**

Date Recorded: 09/17/2019 Book/Page: W93/580
Grantor(s): ESTATE OF FLEM DOYLE DOWNS
Grantee(s): DORIS ANN DOWNS

Instrument 3. **QUIT CLAIM DEED**

Date Recorded: 10/23/2017 Book/Page: D321/19
Dated: 10/18/2017
Grantor(s): DORIS ANN DOWNS
Grantee(s): FLEM DOYLE DOWNS (S/P/A DOYLE DOWNS)

Instrument 4. **DEED**

Date Recorded: 04/14/1997 Book/Page: D191/793
Dated: 04/11/1997
Grantor(s): BILLY JOE JARBOE, LACHETA Y. JARBOE
Grantee(s): STEVEN BLAINE DOWNS, PEGGY SUE DOWNS, DOYLE DOWNS, DORIS ANN DOWNS

Instrument 5. **DEED**

Date Recorded: 01/06/1982 Book/Page: 128/258
Dated: 01/06/1982
Grantor(s): DOLORA YASTE, INDIVIDUALLY AND AS EXECUTRIX UNDER THE WILL OF THE LATE GOEBEL YASTE, DECEASED
Grantee(s): BILLY JOE JARBOE AND LACHETA JARBOE, HIS WIFE
Notes: THIS IS THE OLDEST DEED OF RECORD FOUND WITHIN SCOPE OF SEARCH.

MISCELLANEOUS INSTRUMENTS

Instrument: **MEMORANDUM OF OPTION AND SOLAR ENERGY LEASE**

Date Recorded: 03/24/2021 Book/Page: L14/359
Dated: 03/24/2021
1st Party: STEVEN B. DOWNS, PEGGY S. DOWNS
2nd Party: CRAB RUN SOLAR PROJECT, LLC

THANK YOU FOR YOUR ORDER

For questions, please contact our office at 1-877-848-5337.

Order Number:
79-410442-47

Project Number:
250424-0100-COTEL2

Our Environmental Lien and AUL report to 1980 provides a summary of recorded information on a specific property from January 1st, 1980 to present time. The report is intended to assist in the search for environmental liens filed in land title records. The report will verify property ownership, links the recorded transactions which pass title from one person (and/or entity) to another, and provide information on recorded environmental liens and/or Activity and Use Limitations that have been recorded from January 1st, 1980 forward. The scope of this search is compliant with ASTM 1527-21 standards.

Our professional network of trained researchers follow established industry protocols and use client-supplied property information to complete this Environmental Lien and AUL report. The research is conducted at all appropriate government offices based on the location of the subject property. This would include City, County, State, Federal and Tribal offices as needed. The report includes:

- Current deed information (i.e. grantor, grantee, recording dates)
- Historical property transfer information from 1980 forward (i.e. grantor, grantee, recording dates)
- Legal Description
- Environmental Lien information
- Activity and Use Limitation information
- Any Environmental Liens and/or documents referencing AULs that are listed within our summary report

DEEDS EXHIBIT

FILED PD
AT 9:21am rec fee 50.00
FEB 20 2020 PVR

MARION COUNTY
CHAD G. MATTINGLY, COUNTY CLERK

MARION COUNTY
D334 PG541

DEED TAX $ 177.00 PAID 2-20-2020
CHAD G. MATTINGLY, MARION CO CLERK By PVR

DEED OF CONVEYANCE

THIS DEED OF CONVEYANCE, made and entered into on this the 17th day of February, 2020, by and between

Doris Ann Downs, single, hereinafter referred to as the Grantor, whose address is 2255 Wimsett Road, Loretto, Kentucky, 40037; and

Steven Blaine Downs and Peggy Sue Downs, husband and wife, hereinafter referred to as the Grantees, whose address is 830 Arthur Mattingly Road, Lebanon, Kentucky, 40033.

The -in-care-of address to which the property tax bill for the current year may be sent is Steven Blaine Downs and Peggy Sue Downs, 830 Arthur Mattingly Road, Lebanon, Kentucky, 40033.

WITNESSETH: That for and in consideration of a one-half undivided interest in Parcel I (the Jimmy Downs property valued at $111,265) and Parcel II (Tracts 1 and 3 of the Steven Downs-Hazy Downs Road Plat valued at $56,820) recorded in Deed Book 334 Page 537 of the Marion County Court Clerk's Office and $8,915 cash, the receipt and sufficiency of which is hereby acknowledged, the Grantor does hereby bargain, sell, alien, grant and convey to the Grantees, for their joint lives, and with the remainder unto the survivor thereof, his or her heirs and assigns forever, that certain real property located in **Marion** County, Kentucky, more particularly described as follows, to wit:

TRACT I:

A certain tract of land situated in Marion County, Kentucky, and lying 2 ½ miles northwest of St. Mary, Kentucky, and more particularly described as follows:

BEGINNING at a post on the east side of the Louisville & Nashville Railroad right-of-way, and corner to George Northcraft; thence with his line North 75 1/4 degrees east 105.21 poles to stone, corner to Northcraft and Mattingly; thence with Mattingly's line south 18 ½ degrees east 182.3 poles to a stone, corner to Mattingly; thence south 76 degrees west 96.72 poles to a post on the east side of the aforesaid railroad right-of-way; thence with the line of the east edge of said railroad right-of-way; it being the line as it meanders north 24 degrees west 133 poles; thence north 18 ½ degrees west 20.6 poles; thence north 11 degrees west 28.42 poles to the beginning, containing 117.9 acres of land, according to survey made August 16, 1923, by Fred Faulkner, surveyor.
ALSO a roadway from the above described tract to the St. Mary-Loretto Pike and

ALSO a roadway from the above described tract to the St. Mary-Loretto Pike and bounded as follows: BEGINNING in the center of the Louisville & Nashville right-of-way in the line with the south side of the farm above described; thence with same course of said line south 76 degrees west 394 feet to the aforesaid pike; thence with said pike north 17 feet; thence north 76 degrees east 394 feet to the center of the aforesaid right-of-way; thence with center of same south 17 feet to the beginning, containing .153 of an acre, more or less.

Tract II:

Lot 1 of the Goebel Yaste, Sr., Subdivision consisting of 1.65 acres as described on the plat of said subdivision as recorded in Deed Book 161, Page 477, in the office of the Marion County Court Clerk.

LESS AND EXCEPTED from the above-described property is the following which was conveyed to Kevin G. Peterson, single, and Melinda K. Kays, single, by virtue of a General Warranty Deed dated December 27, 1988, from Steven Blaine Downs and Peggy Sue Downs, his wife, and Doyle Downs and Doris Ann Downs, his wife, as appears of record in Deed Book 204, Page 5, Marion County Clerk's Office, and being more particularly described as follows, to-wit:

Parcel No. 1b

A certain tract of land located in Marion County, Kentucky, and being approximately 3 miles northwest of St. Mary, Kentucky, on Frogtown Road, and more particularly described as follows:

Beginning at a point in the east right of way of Frogtown Road and being 30 feet south of the corner with Yaste; thence North 75 degrees 51 minutes 00 seconds East 363.93 feet to a point in the old railroad right of way; thence with the railroad right of way South 8 degrees 54 minutes 00 seconds East 79.17 feet; thence South 11 degrees 35 minutes 00 seconds East, 92.20 feet; thence leaving the railroad right of way South 76 degrees 00 minutes 15 seconds West, 353.05 feet to a point in the east right of way of Frogtown Road; thence with the right of way of Frogtown Road North 13 degrees 59 minutes 00 seconds West, 170.00 feet to the point of beginning, containing 1.40 acres.

THIS BEING A PORTION OF THE SAME PROPERTY which was conveyed to Steven Blaine Downs and Peggy Sue Downs, husband and wife (an undivided one-half interest) and Doyle Downs and Doris Ann Downs, husband and wife (an undivided one-half interest) by virtue of a General Warranty Deed dated April 11, 1997, from Joe Jarboe and Lacheta Y. Jarboe, his wife, said Deed appears of record in Deed Book 191, Page 793, Marion County Clerk's Office. Doris Downs conveyed her interest in said property to Doyle Downs by quitclaim deed dated October 18, 2017, which appears of record in Deed Book 321, Page 019, Marion County Court Clerk's Office. Doris Downs acquired the interest of Doyle Downs by virtue of the Will of Flem Doyle Downs which

appears of record in Will Book 43, Page 580, Marion County Court Clerk's Office. By virtue of this Deed, Steven Blaine Downs and Peggy Sue Downs own a 100% interest in said property.

TO HAVE AND TO HOLD the above property, together with all the improvements thereon and all of the appurtenances thereto, belonging unto the Grantees for their joint lives, and with the remainder belonging unto the survivor thereof, his or her heirs and assigns forever, with Covenant of General Warranty of Title, it being the intention of the parties hereto that the Grantor conveys the herein-described property to the Grantees in such a manner as shall pass under this Deed the interest of the Grantee first dying in its entirety unto the surviving Grantee in fee simple.

This conveyance is made subject to all existing easements for public roads and public utilities; all applicable Planning and Zoning laws, rules and regulations; and any covenants and restrictions of record in the Marion County Court Clerk's Office.

All applicable 2020 real estate taxes shall be paid by the Grantees. The Grantees shall receive possession of the above-described property upon execution and delivery of this Deed. The parties hereto certify that the consideration reflected in this Deed is the true, correct and full consideration paid for the property herein conveyed. The parties hereto further certify their understanding that falsification of the stated consideration or sale price of the property is a Class D felony, subject to one to five years imprisonment and fines up to $10,000. The Grantees joined this deed for the sole purpose of certifying the consideration pursuant to KRS 382.

THe fair marketvaluue of said property is $177,000.00.

IN TESTIMONY WHEREOF, witness the hands of the Grantor and the Grantees on the day and date first above written.

Doris Ann Downs
DORIS ANN DOWNS, Grantor

Steven Blaine Downs
STEVEN BLAINE DOWNS, Grantee

Peggy Sue Downs
PEGGY SUE DOWNS, Grantee

COMMONWEALTH OF KENTUCKY
COUNTY OF WASHINGTON

I HEREBY CERTIFY that DORIS ANN DOWNS, single, the Grantor herein, appeared before me and subscribed, swore, and acknowledged that she executed this Deed and Consideration Certificate as her free act and deed and that she is known to me, or if not known to me, presented satisfactory evidence to me that she is the person described in and who executed this document this 17th day of February, 2020.

NOTARY PUBLIC
STATE AT LARGE
My Commission Expires: 6/28/23

COMMONWEALTH OF KENTUCKY
COUNTY OF WASHINGTON

I HEREBY CERTIFY that STEVEN BLAINE DOWNS and PEGGY SUE DOWNS, husband and wife, the Grantees herein, appeared before me and subscribed, swore, and acknowledged that they executed this Consideration Certificate as their free act and deed and that they are known to me, or if not known to me, presented satisfactory evidence to me that they are the persons described in and who executed this document this 17th day of February, 2020.

NOTARY PUBLIC
STATE AT LARGE
My Commission Expires: 6/28/23

Prepared By:

E. GREGORY GOATLEY
Attorney at Law
106 North Cross Main Street
Springfield, Kentucky 40069
(859) 336-3536
(859) 336-5044 (FAX)

(NOTE: This Deed was prepared without the benefit of a title search by this attorney and only upon information provided by the Seller.)

State of Kentucky, County of Marion, Sct. 1
CHAD G. MATTINGLY, Clerk of Marion County, do certify that the foregoing Deed was, on the 20 day of 2020 at 9:21 a m, lodged in my office for record, and that it has been duly recorded in my said office. Deed Book 334 Page 541
Given under my hand this 21 day of Feb 2020
CHAD G. MATTINGLY, Clerk
By Janice Richerson D.C.

MISCELLANEOUS INSTRUMENTS EXHIBIT

MARION COUNTY
L14 PG359

Book: 14 Pages: 359-367 (9)
Name: L
CHAD MATTINGLY
MARION COUNTY
3/24/2021
D.C: Janice.Richerson
Deed Tax: $0.00
208352

PREPARED BY AND
AFTER RECORDING, RETURN TO:

KKH

Kris Hanzlicek
Crab Run Solar Project, LLC
422 Admiral Blvd
Kansas City MO 64106

FILED $62.00
AT 10:59AM ECM
MAR 24 2021
MARION COUNTY
CHAD G. MATTINGLY, COUNTY CLERK

MEMORANDUM OF OPTION AND SOLAR ENERGY LEASE

THIS MEMORANDUM OF OPTION AND SOLAR ENERGY LEASE (this "***Memorandum***") is dated effective as of the date of execution hereby by the final party to sign this Memorandum (the "***Effective Date***") by and between Steven B. Downs and Peggy S. Downs, husband and wife ("***Lessor***"), whose address is 830 Arthur Mattingly Road, Lebanon, Kentucky 40033, and Crab Run Solar Project, LLC, a Delaware limited liability company ("***Lessee***"), whose address is 422 Admiral Blvd, Kansas City MO 64106 with reference to the following recitals:

A. Lessor owns that certain real property (including all air space thereof) described on Exhibit "A" attached hereto (the "***Property***"), which Property is located in the County of Marion, in the Commonwealth of Kentucky.

B. Lessor and Lessee (together, the "***Parties***" and each a "***Party***") have entered into that certain unrecorded Option and Solar Energy Lease dated of even date herewith (the "***Lease***"), which affects the Property.

C. The Parties have executed and acknowledged this Memorandum and are recording the same for the purpose of providing constructive notice of the Lease and Lessee's rights thereunder. Capitalized terms used and not defined herein have the meaning given the same in the Lease.

NOW, THEREFORE, for and in consideration the promises, covenants and agreements of the Parties contained in the Lease and herein, and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Parties hereby agree as follows:

1. **Purpose of Lease.** Lessee shall have a right of access during the Development Term (defined in the Lease) for performing certain due diligence, as set forth below, and possession of the Property during the Extended Term (defined in the Lease) for the exclusive right for solar energy conversion and energy storage, for the collection and transmission of electric power, and for related and incidental purposes and activities (collectively, "***Solar Operations***"), to be conducted in such locations on the Property as Lessee may determine, and whether accomplished by Lessee or a third party authorized by Lessee, including, without limitation:

1.1 During the Development Term, determining the feasibility of solar energy conversion and energy storage on the Property or on neighboring lands, including conducting studies of solar radiation, soils, and other meteorological and geotechnical data, and installing temporary meteorological masts and solar energy measurement equipment;

1.2 During the Extended Term, developing, constructing, reconstructing, erecting, enlarging, installing, improving, replacing, relocating and removing from time to time, and maintaining, using, monitoring and operating, existing, additional or new (i) individual units or arrays of solar energy collection cells/panels and related facilities necessary to harness sunlight for photovoltaic energy generation, storage, and collection, including without limitation, existing and/or future technologies used or useful in connection with the generation of electricity from sunlight and storing the same, and associated support structure, braces, wiring, plumbing, and related equipment, and necessary storage buildings ("***Solar Energy Facilities***"), (ii) facilities for the storage, collection, distribution, step-up, step-down, wheeling, transmission and sale of electricity and for communications in connection with the Solar Energy Facilities, including, without limitation, the following, at such locations as Lessee shall determine that are developed, constructed and/or operated on the Property and/or on property to be acquired by leasehold or by fee purchase, by or on behalf of Lessee: underground and/or overhead distribution, collection and transmission lines; underground and/or overhead control, communications and radio relay systems and telecommunications equipment; energy storage facilities; interconnection and/or switching facilities, circuit breakers, transformers; cables, wires, fiber, conduit, footings, foundations, towers, poles, crossarms, guy lines and anchors, and any related or associated improvements, fixtures, facilities, appliances, machinery and equipment (collectively, the "***Transmission Facilities***"), (iii) meteorological masts and solar energy measurement equipment, (iv) control buildings, control boxes and computer monitoring hardware, (v) utility lines and installations, (vi) safety protection facilities, (vii) laydown areas and maintenance yards, (viii) roads, bridges, culverts, and erosion control facilities, (ix) signs, fences, and gates, (x) maintenance, operations and administration buildings, and (xi) other improvements, fixtures, facilities, machinery and equipment associated or connected with the generation, conversion, storage, switching, metering, step-up, step-down, transmission, distribution, conducting, wheeling, sale or other use or conveyance of electricity (all of the foregoing, including the Solar Energy Facilities and Transmission Facilities, collectively a "***Solar Energy System***");

1.3 During the Extended Term, using any existing hydrant or water well or drilling, digging and excavating one or more wells on the Property, all at Lessee's sole cost and expense, for use during construction activities and routine maintenance operations, including, but not limited to, washing solar panels and spraying down dusty roads in connection with construction, servicing, operating and maintaining the Solar

Energy System that is located on the Property, including the right to tap into (at Lessee's sole cost and expense under a separate meter) any municipal, township, county, or other public water service;

1.4 During the Extended Term, removing, trimming, pruning, topping, clearing, or otherwise controlling the growth of any tree, shrub, plant or other vegetation; dismantling, demolishing, and removing any improvement, structure, embankment, impediment, berm, wall, fence, engineering works, or other object, on or that intrudes (or upon maturity could intrude) into the Property that could obstruct, interfere with or impair the Solar Energy System or the use of the Property intended by Lessee hereunder, provided, however, that the overall drainage off the property remain materially unaffected if any portion of the Property is utilized for agricultural purposes, and provided further that, Lessee's removal of any such improvements or structures having salvage value (as reasonably determined by Lessee) shall be coordinated with Lessor, and if so elected by Lessor within ten (10) days after notice from Lessee that any such improvement or structure must be removed, Lessor shall have a fifteen (15) day period to remove any such improvement at Lessor's expense. In the event Lessor fails to respond in writing to Lessee in such ten (10) day period, or Lessor elects not to remove or fails to remove any such improvements or structures within such fifteen (15) day period, Lessee may remove and dispose of such improvements or structures at Lessee's expense, and Lessee shall have no liability to Lessor relating to the removal and disposal thereof;

1.5 A non-exclusive easement for vehicular and pedestrian access, ingress and egress to, from and over the Property, at such locations as Lessee shall determine, for purposes related to or associated with the Solar Energy System installed or to be installed on the Property or adjacent property, which, without limiting the generality of the foregoing, shall entitle Lessee to use, improve and widen any existing and future roads and access routes or construct such roads as Lessee may determine necessary from time to time located on or providing access to the Property, across any other adjacent property owned by Lessor and across any access routes over which Lessor has the right to travel;

1.6 Undertaking any other lawful activities, whether accomplished by Lessee or a third party authorized by Lessee, that Lessee determines are necessary, helpful, appropriate, convenient or cost-effective in connection with, incidental to or to accomplish any of the foregoing purposes, including conducting surveys and soils, environmental, biological, cultural and other tests and studies.

Notwithstanding the foregoing in this Section 1, during the Development Term (defined in the Lease), Lessee's rights with respect to the Property are limited to those rights necessary for Lessee to conduct feasibility and other due diligence analysis and studies with respect to the Property, including access to the Property for purposes thereof, and Lessee shall not be permitted to commence construction of any Solar Energy System on any portion of the Property (other than meteorological and solar and radiation measurement, monitoring and recording equipment and facilities) unless and until Lessee has exercised the Lease Extension Option (defined in the Lease) with respect to such portion of the Property. Lessee's exercise of the Lease Extension Option shall memorialize the end of the Development Term and the execution of the Option to enter into the commencement of the Extended Term (as defined in the Lease), upon which Lessee shall be conferred the right, but not the obligation, for Lessee to construct and operate the Solar Energy System.

2. Among other things, this Lease includes the exclusive right and easement on, over and across the Property for the free and unobstructed flow of sunlight resources, together with the exclusive right to (i) develop, use, convert, maintain and capture such sunlight, (ii) convert solar energy into electrical energy and (iii) derive and keep all credits and income therefrom (subject to the payment of Rent to Lessor, as set forth below).

3. The Lease shall initially be for a term of five (5) years commencing on the Effective Date and ending on FEB. 26th, 2026. Lessee shall have the right and option to extend the term of the Lease for one additional period of thirty (30) years, upon the terms set forth in the Lease. Additionally, Lessee shall have the right to renew the Extended Term for two (2) additional five (5) year periods.

4. Any Solar Energy System constructed on the Property shall at all times remain the property of Lessee and shall not be deemed to be fixtures and (ii) Lessor shall have no ownership, lien, security or other interest (including any lien that might otherwise be implied by law) in any Solar Energy System installed on the Property, or in any profits or income derived therefrom.

5. Neither Lessor nor any of its tenants, licensees, contractors, invitees, agents, assigns or anyone else obtaining rights from Lessor shall, currently or prospectively, interfere with, impair, delay or materially increase the cost of any of Lessee's Solar Operations (whether conducted on the Property or elsewhere), or the undertaking of any other activities or the free enjoyment or exercise of any other rights or benefits given to or permitted Lessee hereunder. Without limiting the generality of the foregoing, neither Lessor nor anyone obtaining rights from or acting with the permission of Lessor shall (a) interfere with or impair the free, unobstructed and natural availability of sunlight over or across the Property (whether by planting trees, constructing structures, or otherwise), or the lateral or subjacent support for the Solar Energy System or (b) engage in any other activity on the Property or elsewhere that might cause a decrease in the output, efficiency or longevity of the Solar Energy System.

6. The Lease is for the additional purposes, is of the nature, and is subject to the requirements and limitations, set forth therein. The Lease also contains various other covenants, obligations and rights of the Parties, including, without limitation, provisions relating to Rent, termination of the Lease, quiet enjoyment, restoration of the Property, assignment and lender protections.

7. The terms, conditions and covenants of the Lease are incorporated herein by reference as though fully set forth herein. This Memorandum does not supersede, modify, amend or otherwise change the terms, conditions or covenants of the Lease, and this Memorandum shall not be used in interpreting the terms, conditions or covenants of the Lease. In the event of any conflict between this Memorandum and the Lease, the Lease shall control.

8. The Property shall be held, conveyed, hypothecated, encumbered, leased, used and occupied subject to the covenants, terms and provisions set forth in the Lease and herein, which shall run with the Property and each portion thereof and interest therein as equitable servitudes, and shall be binding upon and inure to the benefit of the Parties and each sublessee and any other person and entity having any interest therein during their ownership thereof, and their respective sublessees, grantees, heirs, executors, administrators, successors and assigns, and all persons claiming under them.

9. This Memorandum may be executed with counterpart signature pages and in duplicate originals, each of which shall be deemed an original, and all of which shall collectively constitute a single instrument.

[REST OF PAGE LEFT BLANK; SIGNATURES ON SEPARATE SHEETS]

IN WITNESS WHEREOF, Lessee has executed and delivered this Memorandum as of FEBRUARY 26th, 2021.

LESSEE:

CRAB RUN SOLAR PROJECT, LLC,
a Delaware limited liability company

By: _____

Name: Aaron Lipscomb

Title: Authorized Person

STATE OF MO)
) ss.
COUNTY OF Jackson)

Be it remembered that on this 26 day of February, 2021, before me, the undersigned, a Notary Public in and for the County and State aforesaid, came Aaron Lipscomb, to me personally known, who being by me duly sworn did say that he is an Authorized Person of Crab Run Solar Project, LLC, a Delaware limited liability company, and that the within instrument was signed and sealed on behalf of said Crab Run Solar Project, LLC by authority thereof, and acknowledged said instrument to be the free act and deed of said limited liability company for the purposes therein expressed.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Notarial Seal in the date herein last above written.

My Commission Expires:

5.28.2024
[SEAL]

_____
Notary Public in and for said County and State

Print Name: KYLE SMITH

KYLE SMITH
NOTARY SEAL
NOTARY PUBLIC
Commission #20377790
STATE OF MISSOURI

LESSEE: CRAB RUN SOLAR PROJECT, LLC,
a Delaware limited liability company

By: _____

Name: Scott Zeimetz

Title: Authorized Person

Address: 422 Admiral Boulevard
Kansas City, MO 64106

STATE OF MO)
) ss.
COUNTY OF Jackson)

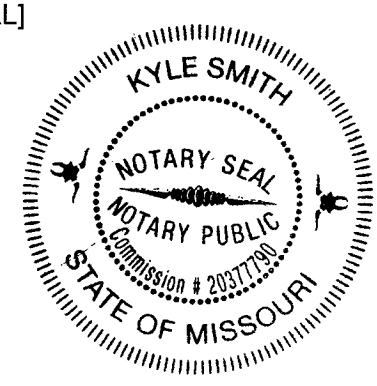
Be it remembered that on this 26 day of February, 2021, before me, the undersigned, a Notary Public in and for the County and State aforesaid, came Scott Zeimetz, to me personally known, who being by me duly sworn did say that he/she is Authorized Person of Crab Run Solar Project, LLC, a Delaware limited liability company, and that the within instrument was signed and sealed on behalf of said Crab Run Solar Project, LLC by authority thereof, and acknowledged said instrument to be the free act and deed of said limited liability company for the purposes therein expressed.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Notarial Seal in the date herein last above written.

My Commission Expires:

5.28.2024

[SEAL]



_____
Notary Public in and for said County and State

Print Name: KYLE SMITH

LESSOR:

Steven B. Downs

Peggy S. Downs

IN WITNESS WHEREOF, Lessor has executed and delivered this Memorandum as of February, 2021.

STATE OF Kentucky)
) ss.
COUNTY OF Marion)

BE IT REMEMBERED, that on this 11th day of February, 2021, before me, the undersigned, a Notary Public in and for said County and State aforesaid, came Steven B. Downs and Peggy S. Downs, husband and wife, to me known to be the persons who executed the foregoing instrument, and acknowledged that they executed the same as their free act and deed and for the purposes therein stated.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Notarial Seal in the date herein last above written.

My Commission Expires:
05-23-2024
[SEAL] KYNP53564

Notary Public in and for said County and State KYNP53564

Print Name: Kendra Eagle-Gray

EXHIBIT "A"

DESCRIPTION OF THE PROPERTY

THE FOLLOWING REAL PROPERTY LOCATED IN THE COUNTY OF MARION, COMMONWEALTH OF KENTUCKY:

A certain tract or parcel of land situate, lying and being on the Springfield and Raywick Road about 1-1/2 miles north of St. Mary's, Kentucky, bounded and described as follows:

BEGINNING at a stone on said road, corner to Thomas G. Elder; thence with said road north 66-1/2 deg. east 155 poles to a stone on said road, corner to the tracts allotted to Nicholas Mattingly, Simeon Mattingly and John A. Mattingly; thence north 19-1/2 deg. west 136 poles to a stone near Crab Run, corner to Burdet A. Van Cleave land; thence up said creek south 73 deg. west 10 poles; north 86-1/2 deg. west 28 poles; north 30 deg. west 8 poles; south 79 deg. west 40 poles to a stone on the north bank of Crab Run; thence North 17 deg. west 65 poles to a stone corner to Lum Montgomery; thence south 85-1/2 deg. west 198-1/2 poles to a stake on the south bank of Crab Run corner to Richard Smith in Milburn Mattingly's line; thence south 18-1/2 deg. east 120 poles to a stone, corner to said Mattingly in Mrs. Matilda Thompson's line; thence with his line north 76 deg. east 17 poles to a stone; thence south 17 deg. east 24 poles to a stake; corner to Thomas G. Elder; thence with this line north 72 deg. east 93 poles to a stake, corner to said Elder thence with his line south 18-1/2 deg. east 123 poles to the beginning, containing 282 acres, more or less.

AND

A certain tract of land situated in Marion County, Kentucky, and lying 2½ miles northwest of St. Mary, Kentucky, and more particularly described as follows:

BEGINNING at a post on the east side of the Louisville & Nashville Railroad right-of-way, and corner to George Northcraft; thence with his line North 75 1/4 degrees east 105.21 poles to a stone, corner to Northcraft and Mattingly; thence with Mattingly's line south 18 ½ degrees east 182.3 poles to a stone, corner to Mattingly; thence south 76 degrees west 96.72 poles to a post on the east side of the aforesaid railroad right-of-way; thence with the line of the east edge of said railroad right-of-way; it being the line as it meanders north 24 degrees west 133 poles; thence north 18 ½ degrees west 20.6 poles; thence north 11 degrees west 28.42 poles to the beginning, containing 117.9 acres of land, according to survey made August 16, 1923, by Fred Faulkner, surveyor.

LESS AND EXCEPT

A certain tract of land located in Marion County, Kentucky, and being approximately 3 miles northwest of St. Mary, Kentucky, on Frogtown Road, and more particularly described as follows:

Beginning at a point in the east right of way of Frogtown Road and being 30 feet south of the corner with Yaste; thence North 75 degrees 51 minutes 00 seconds East 363.93 feet to a point in the old railroad right of way; thence with the railroad right of way South 8 degrees 54 minutes 00 seconds East 79.17 feet; thence South 11 degrees 35 minutes 00 seconds East, 92.20 feet; thence leaving the railroad right of way South 76 degrees 00 minutes 15 seconds West, 353.05 feet to a point in the east right of way of Frogtown Road; thence with the right of way of Frogtown Road North 13 degrees 59 minutes 00 seconds West, 170.00 feet to the point of beginning, containing 1.40 acres.

STATE OF KENTUCKY
COUNTY OF MARION
I, CHAD MATTINGLY, County Clerk for the County and State aforesaid, certify that the foregoing LEASE was on March 24, 2021
lodged for record, whereupon the same with the foregoing and this certificate have been duly recorded in my office.
WITNESS my hand this March 24, 2021
CHAD MATTINGLY, CLERK
By Janice Richerson D.C.

Q#4953800

Appendix E

Historical Sources

Historical Aerial Photo Report | 2025

Order Number: 108906
Report Generated: 06/17/2025

Project Name: Crab Run Solar Project
Project Number: 250424-0100

Crab Run Solar Project
Loretto, KY, 40037

Contact us at:
(866) 211-2028
envirositecorp.com

Historical Aerial Photo Report 2025

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:

Crab Run Solar Project
Loretto, KY, 40037

YEAR:	***SCALE:***	***SOURCE:***
1951	1" = 1,000'	USGS
1957	1" = 1,000'	USDA
1983	1" = 1,000'	NHAP
1985	1" = 1,000'	NHAP
1986	1" = 1,000'	NHAP
1991	1" = 1,000'	NAPP
1993	1" = 1,000'	NAPP
1997	1" = 1,000'	DOQ
2004	1" = 1,000'	USDA
2006	1" = 1,000'	USDA
2008	1" = 1,000'	NAIP
2010	1" = 1,000'	NAIP
2012	1" = 1,000'	NAIP
2014	1" = 1,000'	NAIP
2016	1" = 1,000'	NAIP
2018	1" = 1,000'	NAIP
2020	1" = 1,000'	NAIP
2022	1" = 1,000'	NAIP

FLIGHT YEAR:
1951

N
W E
S

Scale: 1" = 1,000'

FLIGHT YEAR:
1957

N
W E
S

Scale: 1" = 1,000'

FLIGHT YEAR:
1983

N
W E
S

Scale: 1" = 1,000'

FLIGHT YEAR:
1985

N
W E
S

Scale: 1" = 1,000'

FLIGHT YEAR:
1986

N
W E
S

Scale: 1" = 1,000'

FLIGHT YEAR:
1991

N
W E
S

Scale: 1" = 1,000'

FLIGHT YEAR:
1993

N
W E
S

Scale: 1" = 1,000'

FLIGHT YEAR:
1997

N
W E
S

Scale: 1" = 1,000'

FLIGHT YEAR:
2004

N
W E
S

Scale: 1" = 1,000'

FLIGHT YEAR:
2006

N
W E
S

Scale: 1" = 1,000'

FLIGHT YEAR:
2008

N
W E
S

Scale: 1" = 1,000'

FLIGHT YEAR:
2010

N
W E
S

Scale: 1" = 1,000'

FLIGHT YEAR:
2012

N
W E
S

Scale: 1" = 1,000'

FLIGHT YEAR:
2014

N
W E
S

Scale: 1" = 1,000'

FLIGHT YEAR:
2016

N
W E
S

Scale: 1" = 1,000'

FLIGHT YEAR:
2018

N
W E
S

Scale: 1" = 1,000'

FLIGHT YEAR:
2020

N
W E
S

Scale: 1" = 1,000'

FLIGHT YEAR:
2022

N
W E
S

Scale: 1" = 1,000'

Historical Topographic Map Report | 2025

Order Number: 108906

Report Generated: 06/12/2025

Project Name: Crab Run Solar Project

Project Number: 250424-0100

Crab Run Solar Project

Loretto, KY 40037

Contact us at:
(866) 211-2028
envirositecorp.com

Envirosite's Historical Topographic Map Report is designed to assist in evaluating a subject property resulting from past activities. Envirosite's Historical Topographic Map Report includes a search of USGS historical topographic maps, dating back to the early 1900s.

TOPOGRAPHIC MAPS FOUND:

	Map Name:	Year:	Revision Year:	Scale:
1.	Raywick	1953	N/R	1 : 24000
2.	Lebanon West	1953	N/R	1 : 24000
3.	Raywick	2010	N/R	1 : 24000
4.	Lebanon_West	2010	N/R	1 : 24000
5.	Lebanon_West	2013	N/R	1 : 24000
6.	Raywick	2013	N/R	1 : 24000
7.	Lebanon_West	2016	N/R	1 : 24000
8.	Raywick	2016	N/R	1 : 24000
9.	Lebanon_West	2019	N/R	1 : 24000
10.	Raywick	2019	N/R	1 : 24000
11.	Lebanon_West	2022	N/R	1 : 24000
12.	Raywick	2022	N/R	1 : 24000

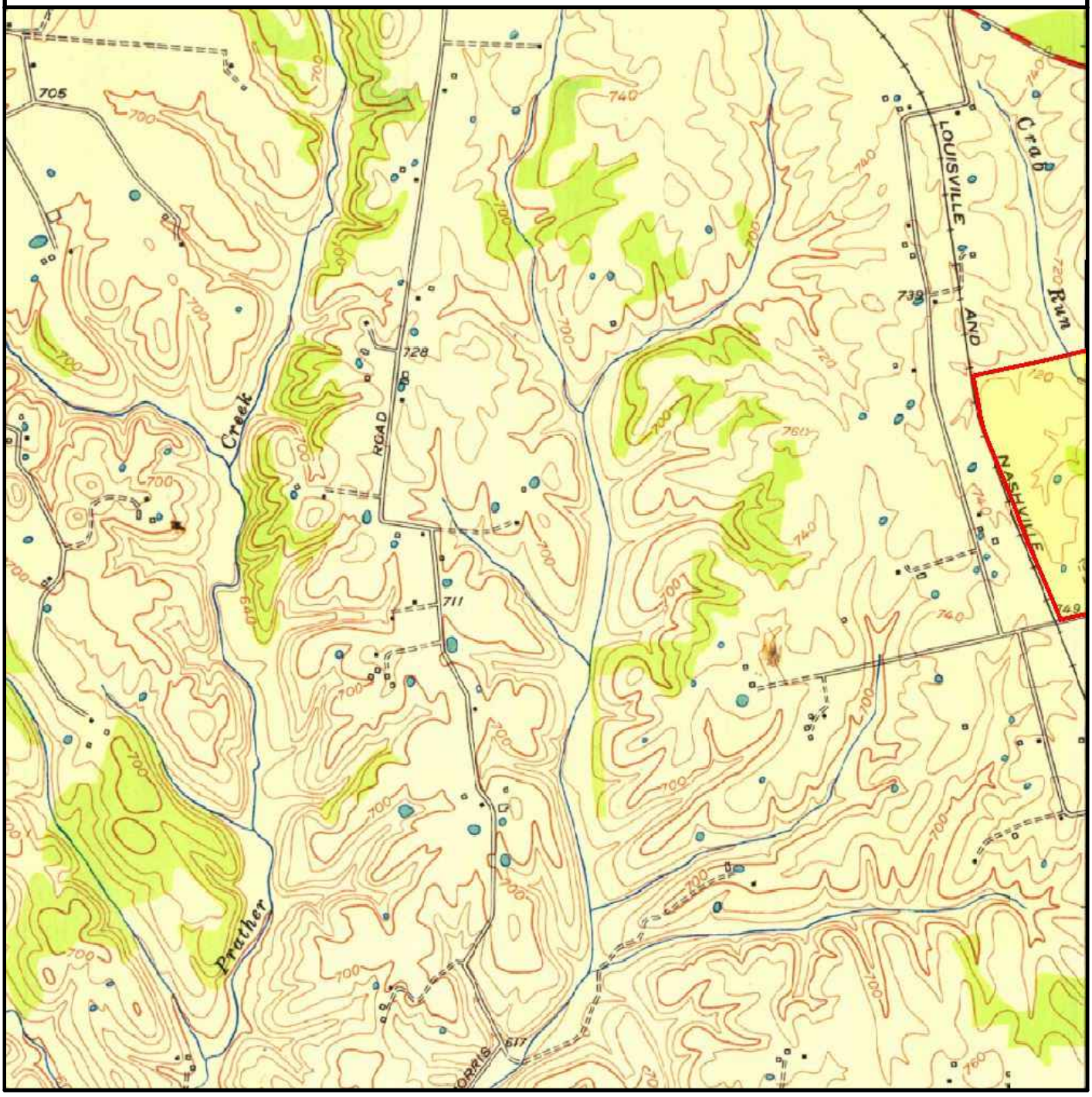
The USGS 7.5 minute series includes scales 1:24,000 / 1:25,000 / 1:31,680. The USGS 15 minute series includes scales 1:48,000 / 1:62,500 / 1:63,360. The USGS 30x60 minute series scale is 1:100,000.

SUBJECT NAME: Crab Run Solar Project
ADDRESS: Loretto, KY, 40037
LAT/LONG: 37.607652 / -85.366814

PREPARED FOR: Environmental Consulting & Technology, Inc Bay City
ORDER #: 108906
REPORT DATE: 06/12/2025

SUBJECT QUAD:

MAP NAME:	Raywick	MAP YEAR:	1953	REVISION YEAR:	N/R
SCALE:	1 : 24000	Part	1		

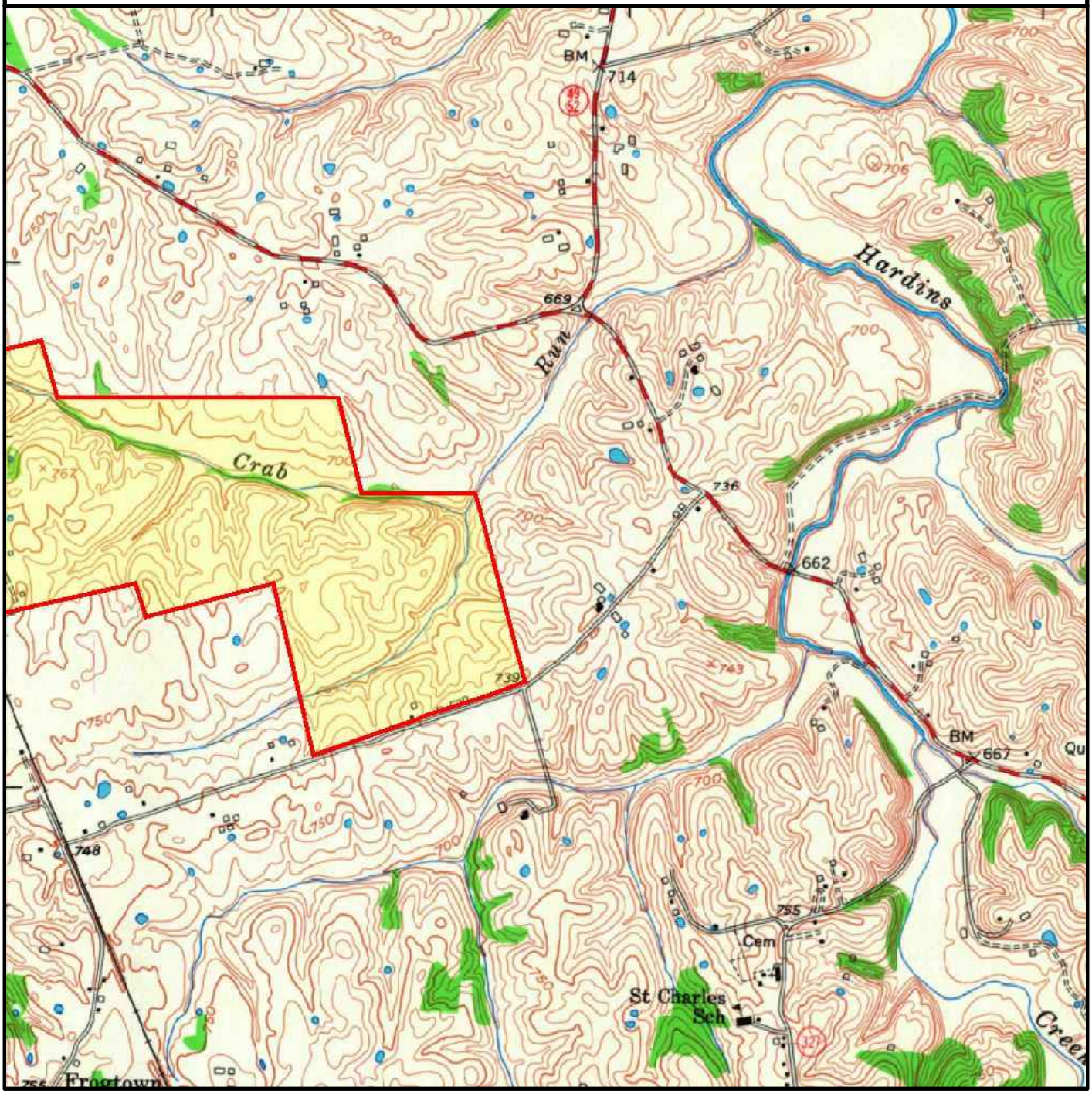


SUBJECT NAME: Crab Run Solar Project
ADDRESS: Loretto, KY, 40037
LAT/LONG: 37.607652 / -85.366814

PREPARED FOR: Environmental Consulting & Technology, Inc Bay City
ORDER #: 108906
REPORT DATE: 06/12/2025

SUBJECT QUAD:

MAP NAME:	Lebanon West	MAP YEAR:	1953	REVISION YEAR:	N/R
SCALE:	1 : 24000	Part	1		

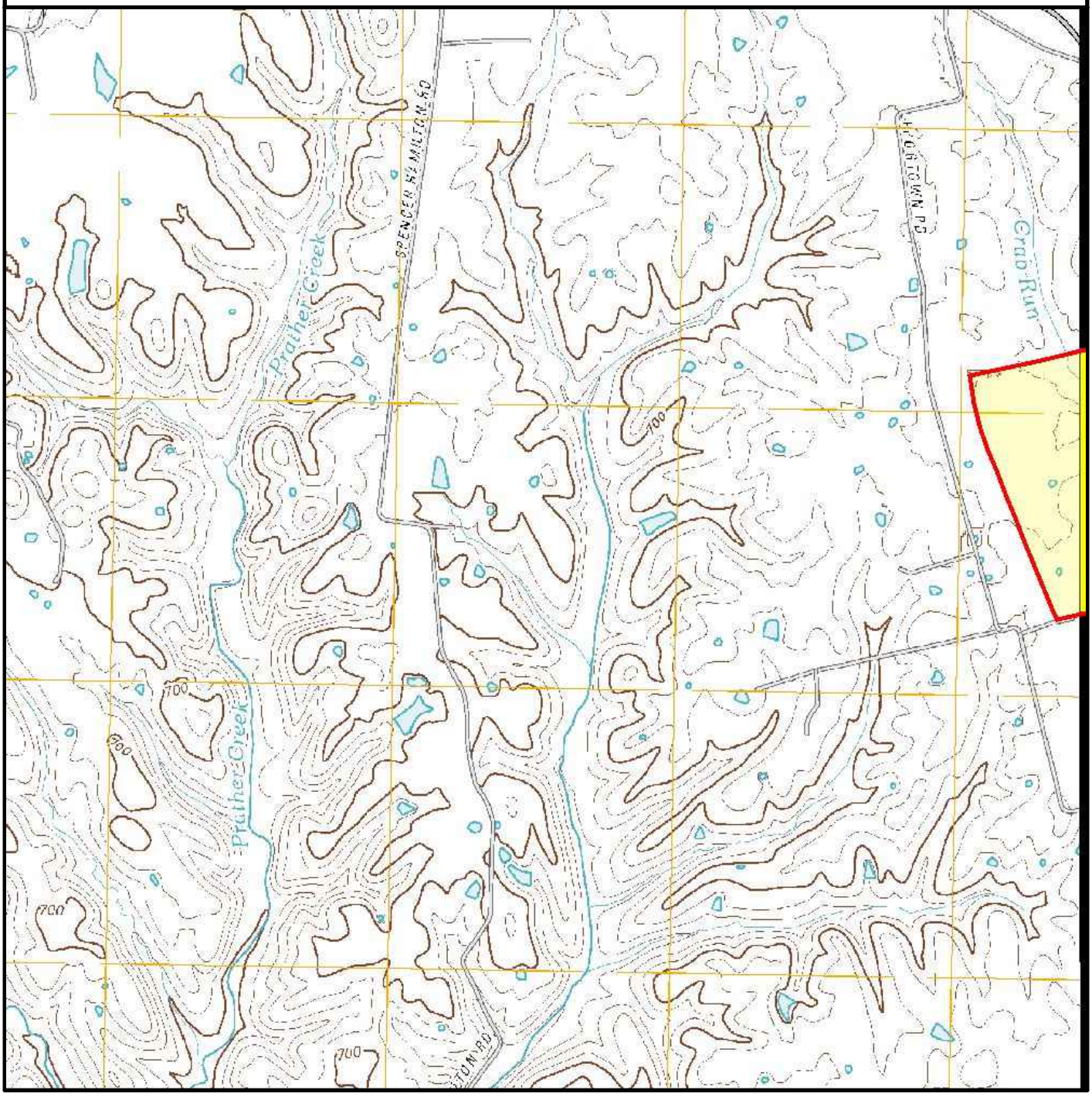


SUBJECT NAME: Crab Run Solar Project
ADDRESS: Loretto, KY, 40037
LAT/LONG: 37.607652 / -85.366814

PREPARED FOR: Environmental Consulting & Technology, Inc Bay City
ORDER #: 108906
REPORT DATE: 06/12/2025

SUBJECT QUAD:

MAP NAME:	Raywick	MAP YEAR:	2010	REVISION YEAR:	N/R
SCALE:	1 : 24000	Part	1		

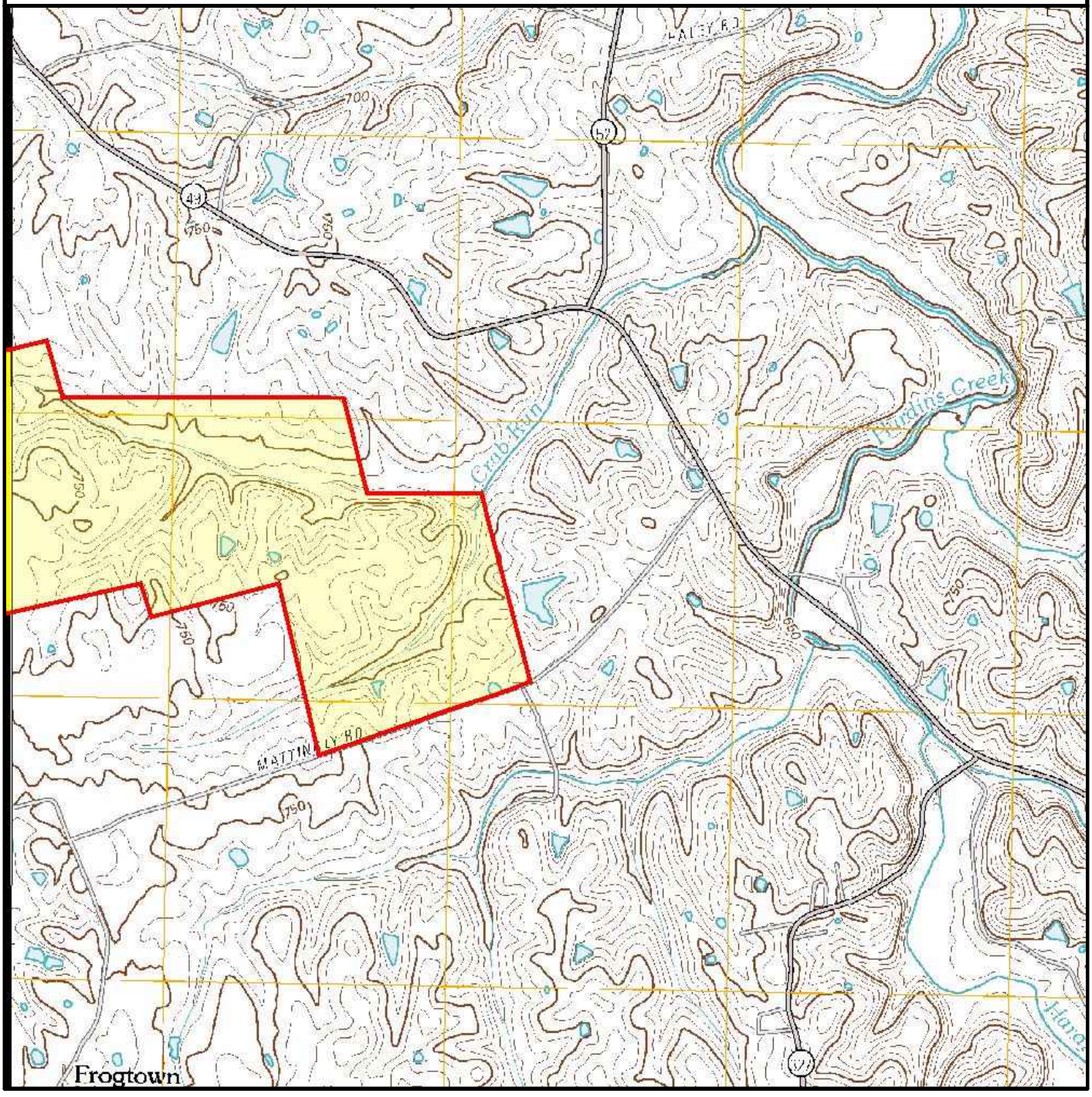


SUBJECT NAME: Crab Run Solar Project
ADDRESS: Loretto, KY, 40037
LAT/LONG: 37.607652 / -85.366814

PREPARED FOR: Environmental Consulting & Technology, Inc Bay City
ORDER #: 108906
REPORT DATE: 06/12/2025

SUBJECT QUAD:

MAP NAME:	Lebanon_West	MAP YEAR:	2010	REVISION YEAR:	N/R
SCALE:	1 : 24000	Part	1		

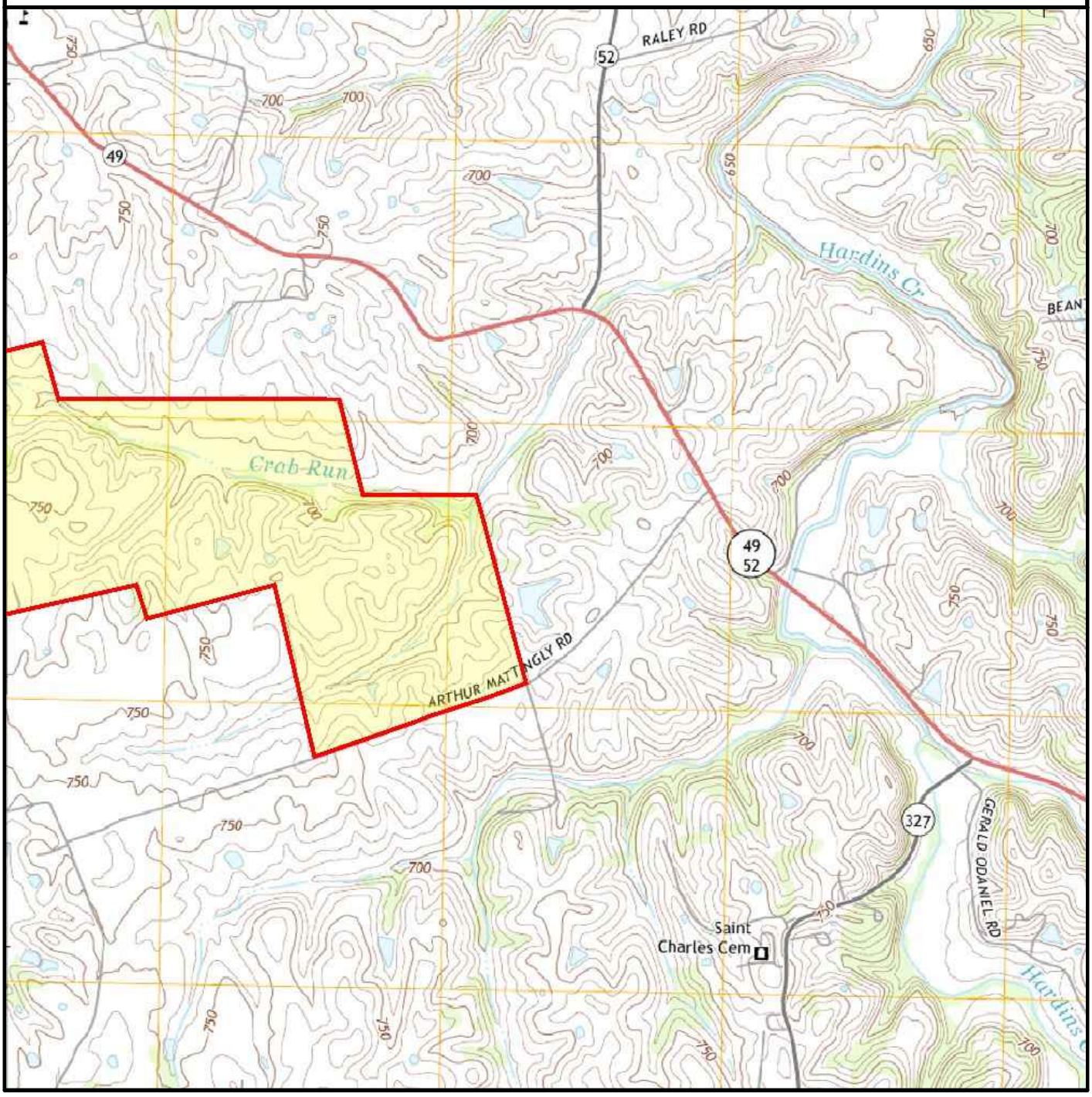


SUBJECT NAME: Crab Run Solar Project
ADDRESS: Loretto, KY, 40037
LAT/LONG: 37.607652 / -85.366814

PREPARED FOR: Environmental Consulting & Technology, Inc Bay City
ORDER #: 108906
REPORT DATE: 06/12/2025

SUBJECT QUAD:

MAP NAME:	Lebanon_West	MAP YEAR:	2013	REVISION YEAR:	N/R
SCALE:	1 : 24000	Part	1		

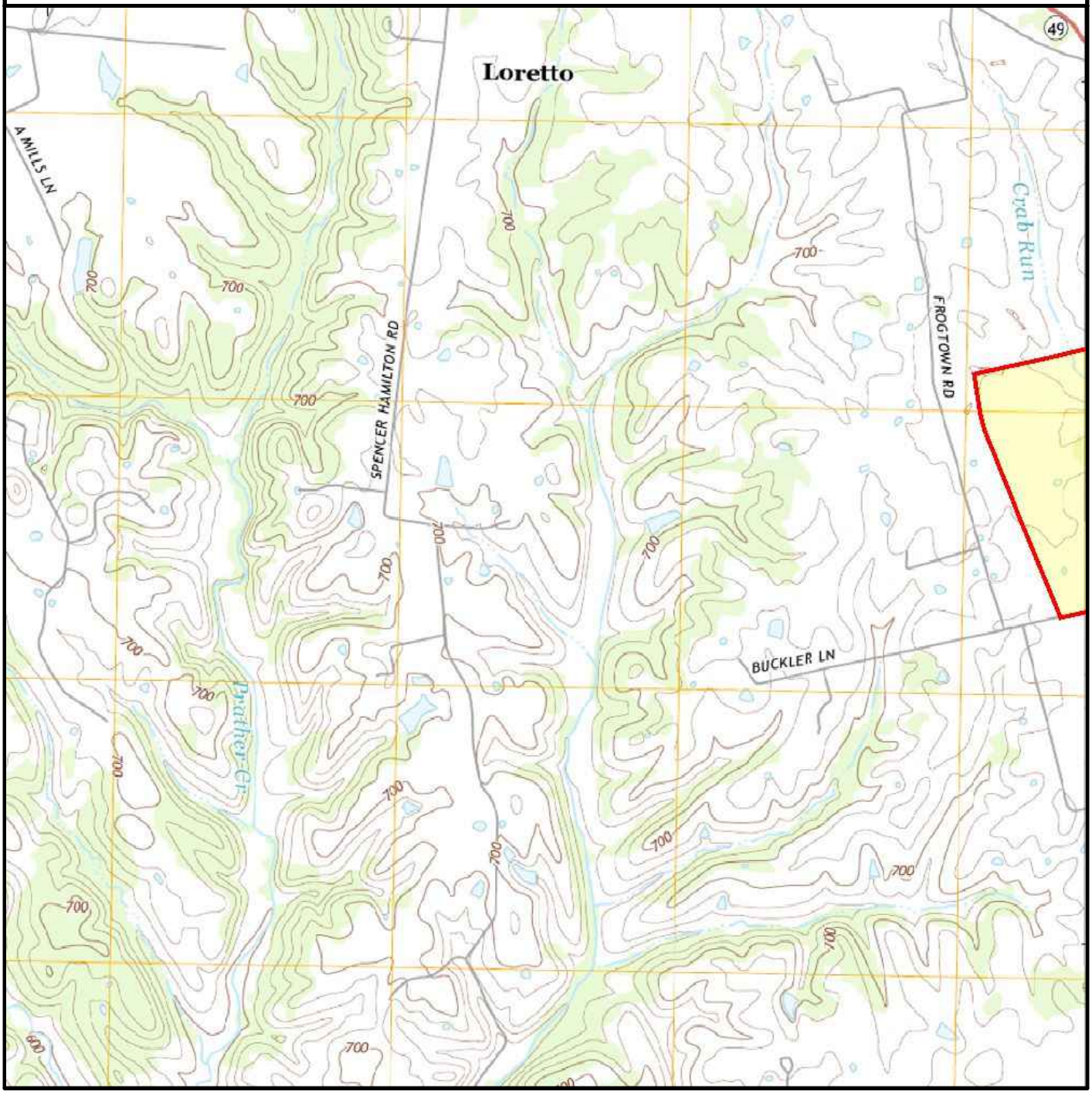


SUBJECT NAME: Crab Run Solar Project
ADDRESS: Loretto, KY, 40037
LAT/LONG: 37.607652 / -85.366814

PREPARED FOR: Environmental Consulting & Technology, Inc Bay City
ORDER #: 108906
REPORT DATE: 06/12/2025

SUBJECT QUAD:

MAP NAME:	Raywick	MAP YEAR:	2013	REVISION YEAR:	N/R
SCALE:	1 : 24000	Part	1		

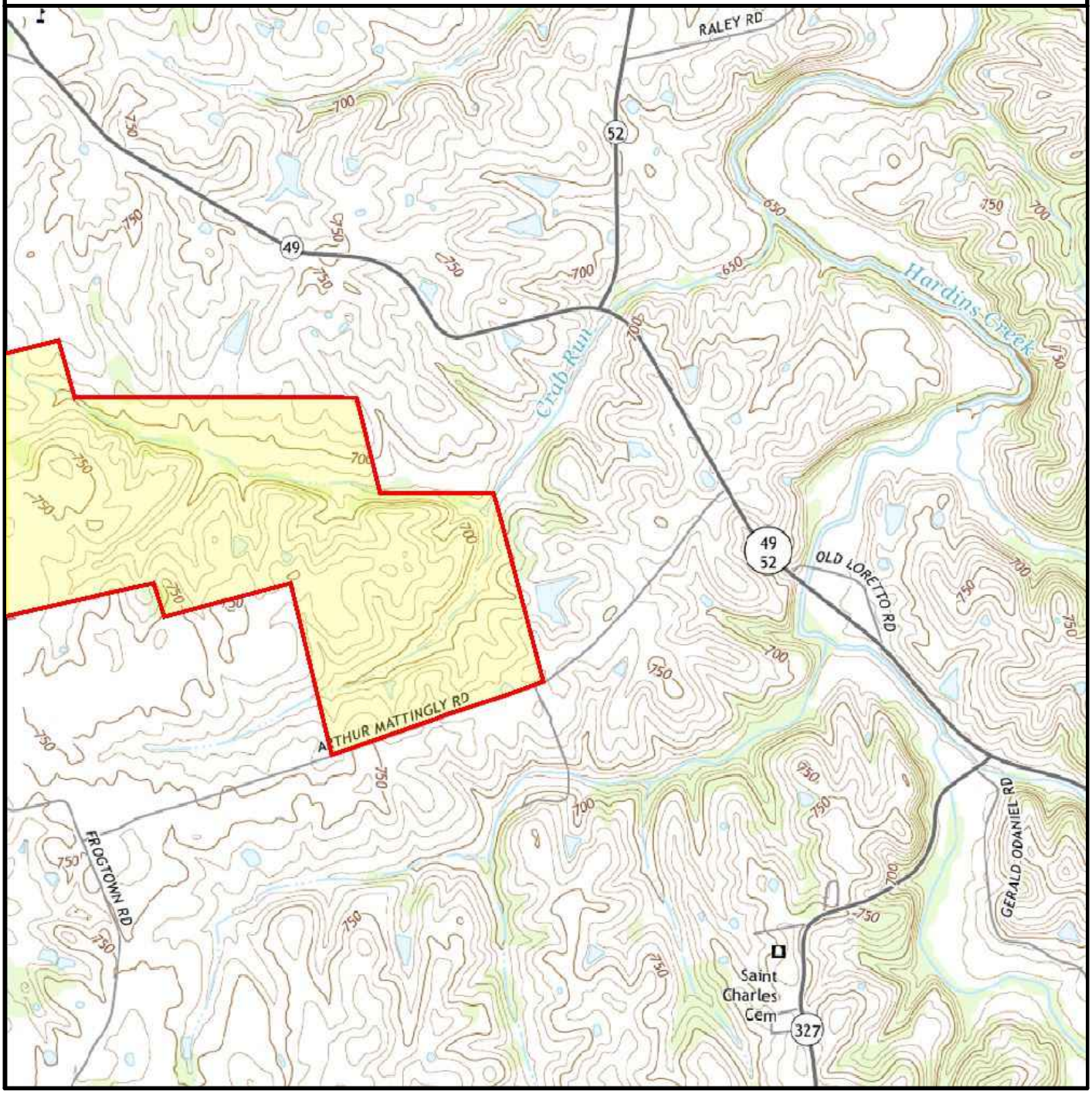


SUBJECT NAME: Crab Run Solar Project
ADDRESS: Loretto, KY, 40037
LAT/LONG: 37.607652 / -85.366814

PREPARED FOR: Environmental Consulting & Technology, Inc Bay City
ORDER #: 108906
REPORT DATE: 06/12/2025

SUBJECT QUAD:

MAP NAME:	Lebanon_West	MAP YEAR:	2016	REVISION YEAR:	N/R
SCALE:	1 : 24000	Part	1		

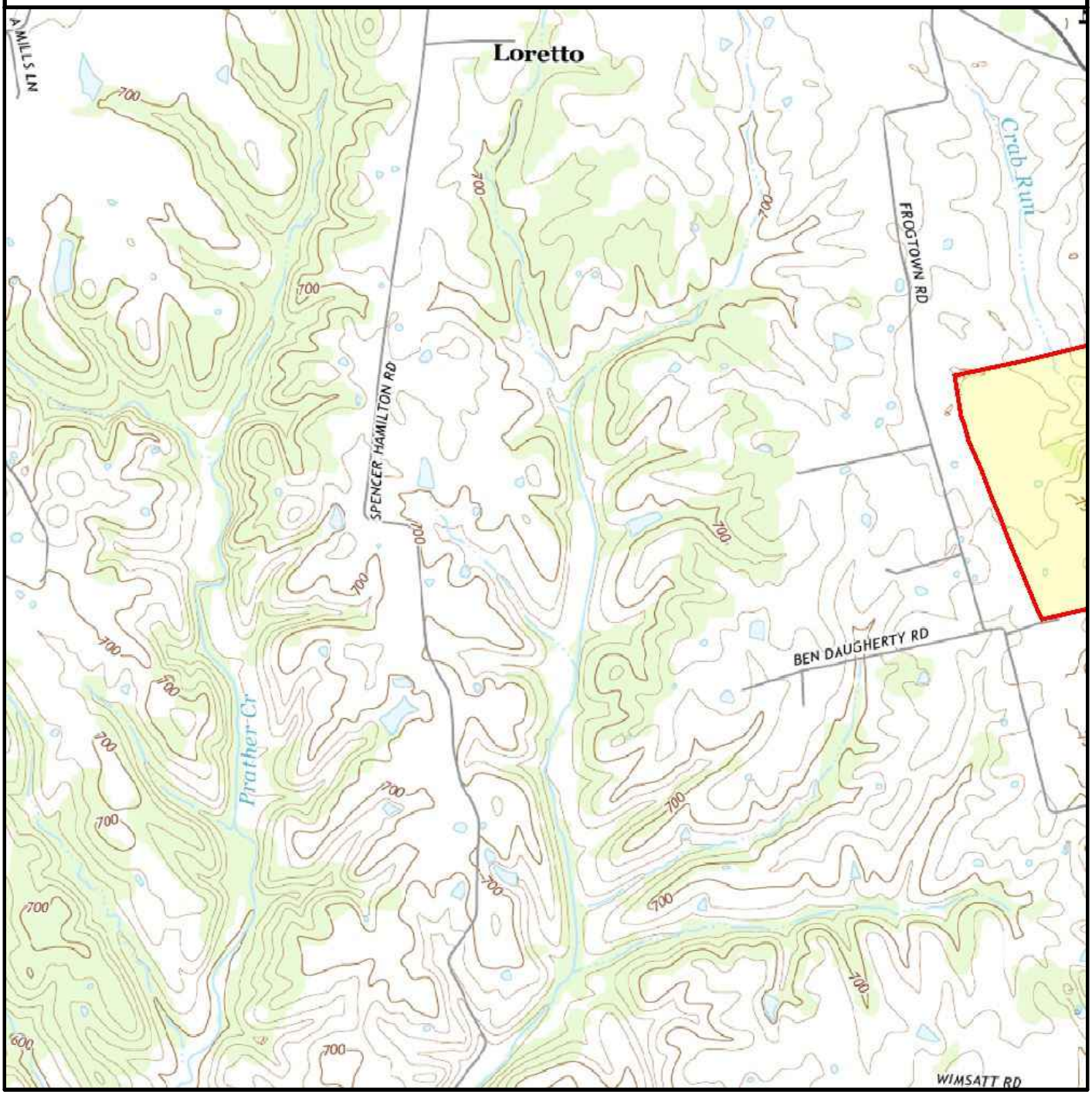


SUBJECT NAME: Crab Run Solar Project
ADDRESS: Loretto, KY, 40037
LAT/LONG: 37.607652 / -85.366814

PREPARED FOR: Environmental Consulting & Technology, Inc Bay City
ORDER #: 108906
REPORT DATE: 06/12/2025

SUBJECT QUAD:

MAP NAME:	Raywick	MAP YEAR:	2016	REVISION YEAR:	N/R
SCALE:	1 : 24000	Part	1		

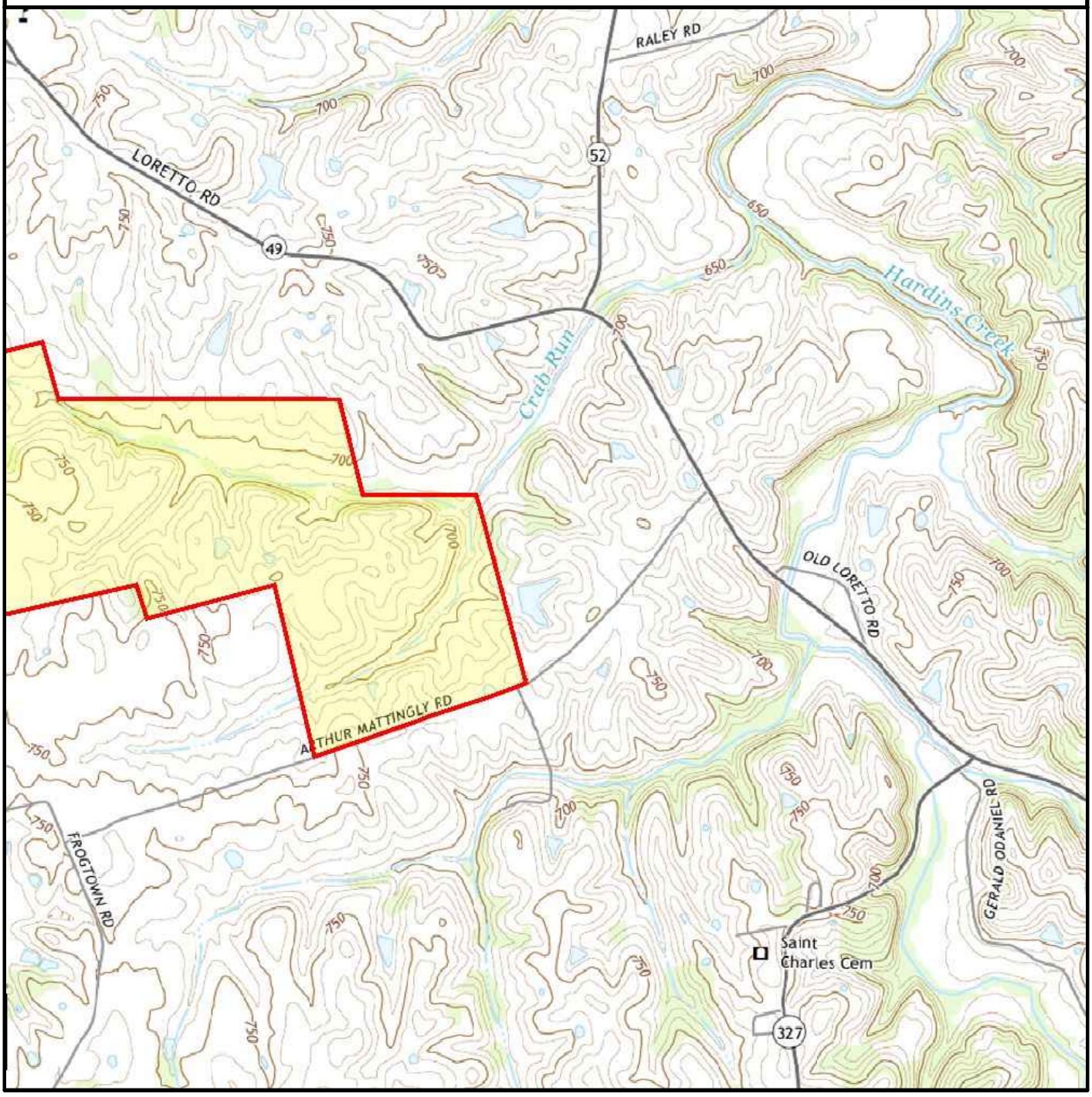


SUBJECT NAME: Crab Run Solar Project
ADDRESS: Loretto, KY, 40037
LAT/LONG: 37.607652 / -85.366814

PREPARED FOR: Environmental Consulting & Technology, Inc Bay City
ORDER #: 108906
REPORT DATE: 06/12/2025

SUBJECT QUAD:

MAP NAME:	Lebanon_West	MAP YEAR:	2019	REVISION YEAR:	N/R
SCALE:	1 : 24000	Part	1		

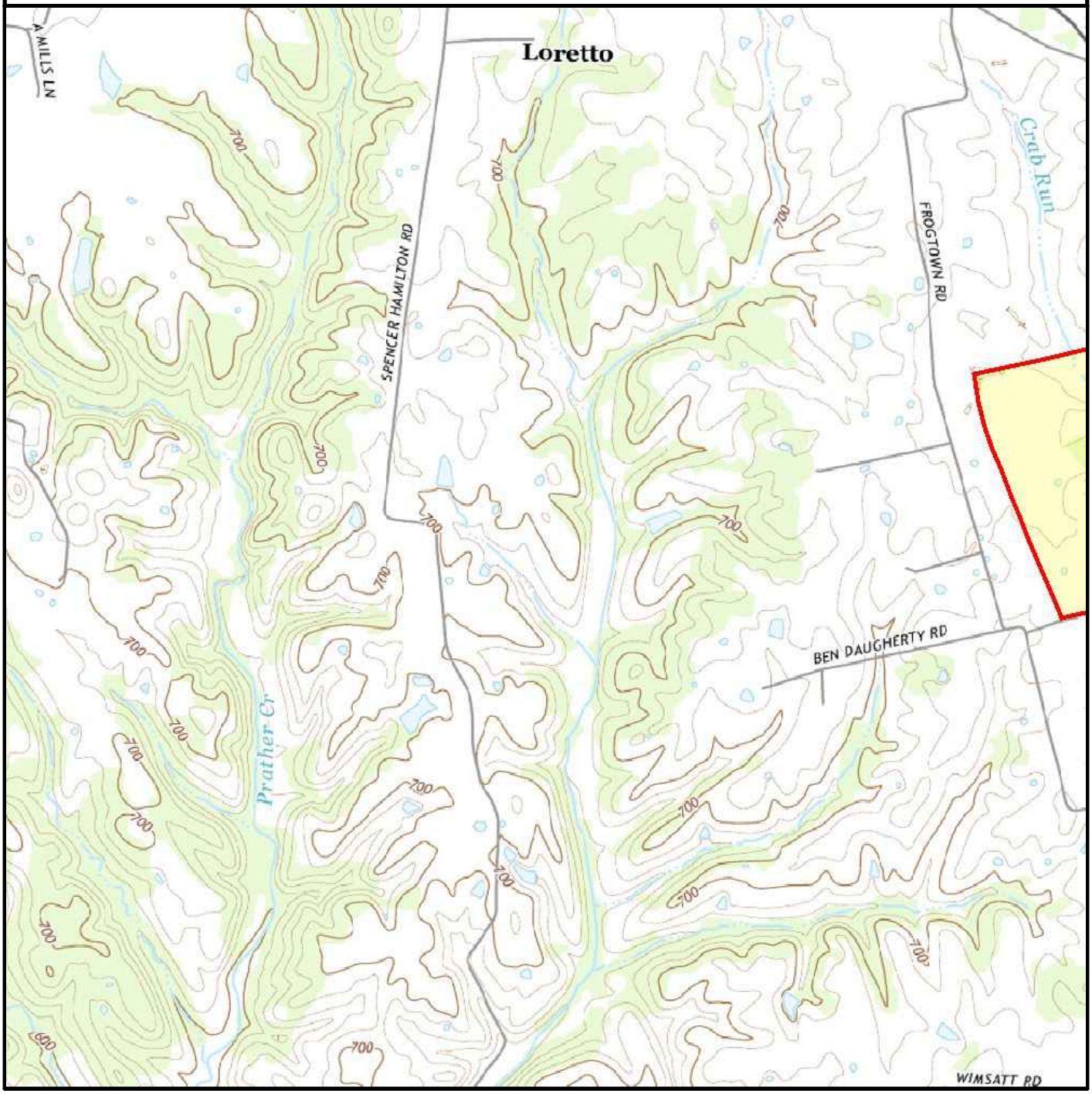


SUBJECT NAME: Crab Run Solar Project
ADDRESS: Loretto, KY, 40037
LAT/LONG: 37.607652 / -85.366814

PREPARED FOR: Environmental Consulting & Technology, Inc Bay City
ORDER #: 108906
REPORT DATE: 06/12/2025

SUBJECT QUAD:

MAP NAME:	Raywick	MAP YEAR:	2019	REVISION YEAR:	N/R
SCALE:	1 : 24000	Part	1		

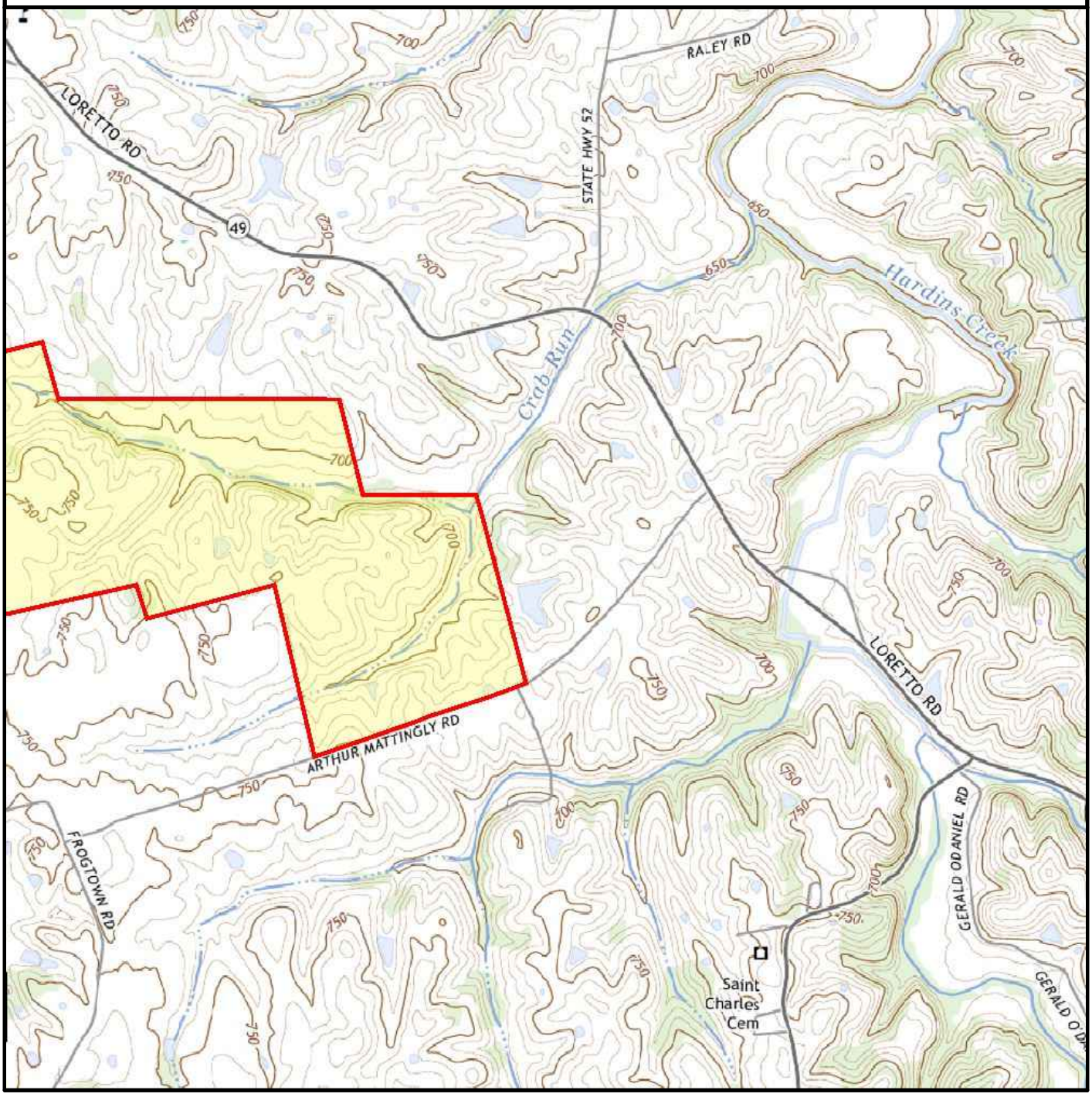


SUBJECT NAME: Crab Run Solar Project
ADDRESS: Loretto, KY, 40037
LAT/LONG: 37.607652 / -85.366814

PREPARED FOR: Environmental Consulting & Technology, Inc Bay City
ORDER #: 108906
REPORT DATE: 06/12/2025

SUBJECT QUAD:

MAP NAME:	Lebanon_West	MAP YEAR:	2022	REVISION YEAR:	N/R
SCALE:	1 : 24000	Part	1		

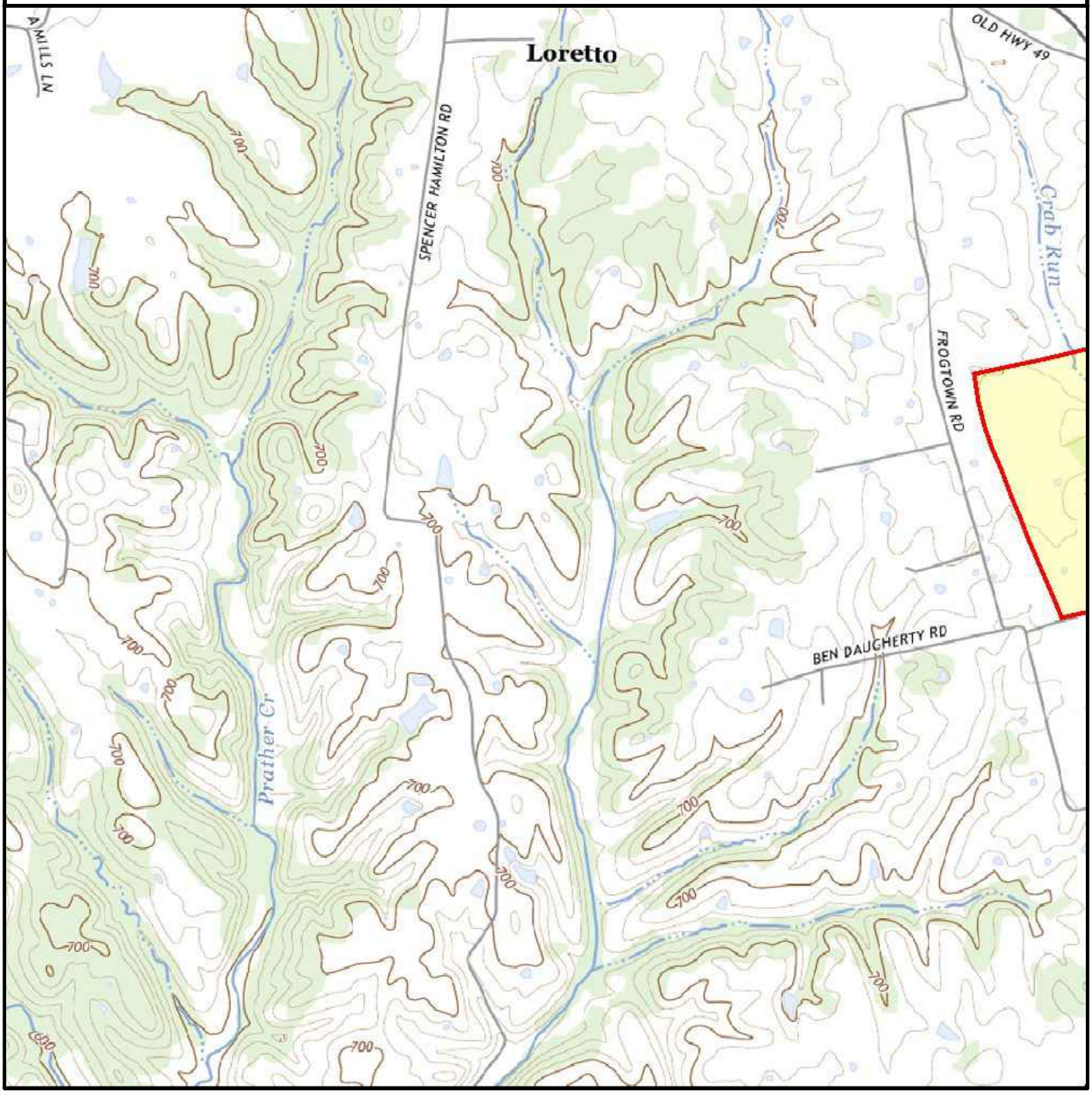


SUBJECT NAME: Crab Run Solar Project
ADDRESS: Loretto, KY, 40037
LAT/LONG: 37.607652 / -85.366814

PREPARED FOR: Environmental Consulting & Technology, Inc Bay City
ORDER #: 108906
REPORT DATE: 06/12/2025

SUBJECT QUAD:

MAP NAME:	Raywick	MAP YEAR:	2022	REVISION YEAR:	N/R
SCALE:	1 : 24000	Part	1		



Appendix F

Regulatory Database Report

Government Records Report | 2025

Order Number: 108906

Report Generated: 06/12/2025

Project Name: Crab Run Solar Project

Project Number: 250424-0100

Crab Run Solar Project

Loretto, KY 40037

with Envirosite Atlas

Contact us at:
(866) 211-2028
envirositecorp.com

Table of Contents

2025

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:

Crab Run Solar Project

Loretto, KY 40037

COORDINATES:

Latitude (North):	37.607652 - 37°36'27.5"
Longitude (West):	-85.366814 - -85°22'0.5"
Universal Transverse Mercator:	Zone 16N
UTM X (Meters):	644155.00
UTM Y (Meters):	4163538.62
State Plane Coordinates:	1602 - Kentucky South (US Survey Feet)
X Coordinate (Feet):	1751417.651 E
Y Coordinate (Feet):	2104611.296 N

ELEVATION:

Elevation:	733 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH SUBJECT PROPERTY:

Subject Property Map: 37085-E3 Lebanon West, KY
Most Recent Revision: 2019

Subject Property Map: 37085-E4 Raywick, KY
Most Recent Revision: 2019

MAP ID	SITE NAME	ADDRESS	DATABASE(S)	RELATIVE ELEVATION	DIRECTION / DISTANCE
1	Loretto Video	Rt 2 KY 52	EPA LUST, EPA UST, UST - KY	Lower	ENE / 0.475 mi., 2511 ft.

SUBJECT PROPERTY SEARCH RESULTS:

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

SURROUNDING PROPERTIES SEARCH RESULTS:

STANDARD ENVIRONMENTAL RECORDS

FEDERAL, STATE, AND TRIBAL LEAKING STORAGE TANK LISTS

EPA LUST: Releases listed in the EPA UST Finder database **1 SITE FOUND WITHIN .5 MILE**

LOWER ELEVATION

MAP ID	SITE NAME	SITE ADDRESS	DIRECTION/DISTANCE	PAGE
1	*Loretto Video*	*Rt 2 KY 52*	*ENE / 0.475 mi., 2511 ft.*	*17*
	- ID: Facility ID KY63733	Status: N/A	Date: N/A	
	- ID: LUST ID KY12413	Status: Unkown	Date: N/A	

Following sites were unable to be mapped.

SITE NAME:	ADDRESS, CITY, ZIP:	DATABASE(S):
Downs Property	Hwy 49, Loretto	EPA LUST
Loretto Trax Company Inc	KY 52, LORETTO	EPA LUST

DATABASE(S) WITH NO MAPPED SITES:

FEDERAL NPL SITE LIST

NPL	National Priority List
PART NPL	Part 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
PROPOSED NPL	Proposed National Priority List
NPL EPA GIS	GIS for EPA NPL Sites
NPL LIENS	National Priority List Liens

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 CERCLIS LIST

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

FEDERAL RCRA CORRACTS FACILITIES LIST

CORRACTS	Hazardous Waste Corrective Action
HIST CORRACTS 2	Historical Hazardous Waste Corrective Action

FEDERAL RCRA NON-CORRACTS TSD FACILITIES LIST

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

FEDERAL RCRA GENERATORS LIST

RCRA LQG	Resource Conservation and Recovery Act_ Large Quantity Generators
RCRA SQG	Resource Conservation and Recovery Act_Small Quantity Generators
RCRA VSQG	Resource Conservation and Recovery Act_Very Small Quantity Generator
RCRA NONGEN	Resource Conservation and Recovery Act_Non Generators
HIST RCRA LQG	Historical Resource Conservation and Recovery Act_ Large Quantity Generators
HIST RCRA SQG	Historical Resource Conservation and Recovery Act_Small Quantity Generators
HIST RCRA CESQG	Historical Resource Conservation and Recovery Act_Conditionally Exempt Small Quantity Generators
HIST RCRA NONGEN	Historical Resource Conservation and Recovery Act_Non Generators
EJ HAZ WASTE	Hazardous Waste Facilities

FEDERAL INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES

LUCIS	Land Use Control Information Systems
LUCIS 2	Land Use Control Information Systems 2
FED E C	Engineering Controls
FED I C	Institutional Controls
RCRA IC EC	RCRA sites with Institutional and Engineering Controls

FEDERAL ERNS LIST

ERNS	Emergency Response Notification System

STATE- AND TRIBAL - EQUIVALENT CERCLIS

SHWS - KY	State Hazardous Waste Sites

STATE RCRA GENERATORS LIST

HWF - KY	Hazardous Waste

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

SWF/LF - KY	Solid Waste Facilities and Landfills
HIST LF - KY	Historical Land Fills

FEDERAL, STATE, AND TRIBAL LEAKING STORAGE TANK LISTS

LUST - KY	Leaking Underground Storage Tanks
INDIAN LUST R1	Leaking Underground Storage Tanks on Indian Land in EPA Region 1
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
INDIAN LUST R10	Leaking Underground Storage Tanks on Indian Land in EPA Region 10
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

FEDERAL, STATE, AND TRIBAL REGISTERED STORAGE TANK LISTS

FEMA UST	FEMA Underground Storage Tanks
EPA UST	EPA UST Finder database
AST PBS	ASTs at Bulk Petroleum Terminals
UST - KY	Underground Storage Tanks
INDIAN UST R1	Underground Storage Tanks on Indian Land in EPA Region 1
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

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

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
INDIAN UST R10	Underground Storage Tanks on Indian Land in EPA Region 10
HIST INDIAN UST R4	Historical Underground Storage Tanks on Indian Land in EPA Region 4
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

STATE INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES

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

STATE AND TRIBAL VOLUNTARY CLEANUP SITES

VCP - KY	Voluntary Cleanup Program

STATE AND TRIBAL BROWNFIELD SITES

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

OTHER ASCERTAINABLE RECORDS

NPL AOC	Areas related to US EPA NPL sites
FUDS	Formerly Used Defense Sites
FUDS MRA	FUDS Munition Response Areas
FUDS MRS	FUDS Munition Response Sites
DOD	Department of Defense
HIST DOD	Department of Defense historical sites
FEDLAND	Federal Lands
CDC HAZDAT	Hazardous Substance Release and Health Effects Information
COAL GAS	Coal Gas Plants
MGP	Manufactured Gas Plant Sites
PIPELINES	Gas & Oil Pipelines
ROD	Record of Decision
CONSENT (DECREES)	Superfund Consent Decree
BRS	Biennial Reporting Systems
INDIAN RESERVATION	American Indian Lands
EPA WATCH	EPA Watch List
CORRECTIVE ACTIONS 2020	Wastes - Hazardous Waste - Corrective Action
COAL ASH DOE	Coal Ash: Department of Energy
COAL ASH EPA	Coal Ash: Environmental Protection Agency
DEBRIS EPA LF	EPA Disaster Debris Landfill Sites
DEBRIS EPA SWRCY	EPA Disaster Debris Recovery Sites
PFAS FED SITES	PFAS Federal Sites
PFAS INDUSTRY	PFAS Industry
PFAS MANIFEST	PFAS Manifest
PFAS NPL	PFAS NPL Sites
PFAS PROD	PFAS Production
PFAS SPILLS	PFAS Spill Sites
PFAS TRIS	PFAS TRIS Sites
PFAS UCMR3	PFAS UCMR Samples
PFAS WQP	PFAS Water Quality Portal
UMTRA	Uranium Mill Tailing Sites
VAPOR	EPA Vapor Intrusion
SCRD DRYCLEANERS	SCRD Drycleaners
ALT FUELING	Alternative Fueling Stations
MINES USGS	Mines list from USGS
MINE OPERATIONS	Mines list from USGS
MINES	Mines
ASBESTOS NOA	Naturally Occurring Asbestos (2011)
HIST ASBESTOS NOA	Historic Naturally Occurring Asbestos (2007)

OTHER ASCERTAINABLE RECORDS *(cont.)*

RMP	Risk Management Plans
MANIFEST EPA	EPA Hazardous Waste Manifests
EPA OSC	EPA On-Site Coordinator
RAATS	RCRA Administrative Action Tracking Systems
TRIS	Toxic Release Inventory Systems
SSTS	Section 7 Tracking Systems
HIST SSTS	Historical Section 7 Tracking Systems
EJ TOXIC RELEASE	Toxic Release Inventory
FA HWF	Financial Assurance for Hazardous Waste Facilities
PADS	PCB Activity Database Systems
ICIS	Integrated Compliance Information System
FTTS	FIFRA/TSCA Tracking System
FTTS INSP	FIFRA/TSCA Tracking System: Inspections
MLTS	Material Licensing Tracking Systems
HIST MLTS	Historical Material Licensing Tracking Systems
RADINFO	Radiation Information Systems
PCB TRANSFORMER	Polychlorinated Biphenyl (PCB) Waste
HIST PCB TRANS	Historical Polychlorinated Biphenyl (PCB) Facilities
DOT OPS	Department of Transportation Office of Pipeline Safety
SEMS_SMELTER	Sites on SEMS Potential Smelter Activity
HIST LEAD_SMELTER	Historical Lead Smelter Sites
TOSCA-PLANT	Toxic Substance Control Act: Plants
HWC DOCKET	Hazardous Waste Compliance Docket
AFS	Air Facility Systems
HIST AFS	Historical Air Facility Systems
HIST AFS 2	Historical Air Facility Systems
FRS	Facility Index Systems
ECHO	EPA Enforcement and Compliance History Online
DOCKET CRIM PROS 2	Additional Docket criminal prosecution cases
PCS ENF	Enforced Permit Compliance Facilities
INACTIVE PCS	Inactive Permit Compliance Facilities
PCS FACILITY	Permit Compliance Facilities
HIST PCS ENF	Historical Enforced Permit Compliance Facilities
HIST PCS FACILITY	Historical Permit Compliance Facilities
ENOI	Electronic Notice of Intent
EPA FUELS	EPA Fuels Registration, Reporting, and Compliance List
OSHA	Occupational Safety & Health Administration
STORMWATER	Storm Water Permits
SECONDARY SITES - KY	List of secondary categorized sites
PFAS - KY	PFAS Site Listing
DRYCLEANERS - KY	Drycleaners
HIST DRYCLEANERS - KY	Historical Drycleaners
COAL MINES - KY	Coal Mine Locations
FA 2 - KY	Financial Assurance for Solid Waste Facilities
FA 3 - KY	Financial Assurance for Hazardous Waste Facilities
LEAD - KY	LEAD Report Tracking Database
RANKING LIST - KY	SB193 Branch Site Inventory/FA 1 is now the Ranking List
AIRS - KY	Air Permits
HIST AIRS - KY	Historical Air Permits
HIST NPDES - KY	Historical State Wastewater and NPDES Permits
NPDES - KY	State Wastewater and NPDES Permits
UIC - KY	Underground Injection Control
ARENAS	ARENAS
ARENAS 2	ARENAS (additional)
CHURCHES	CHURCHES
HOSPITALS	HOSPITALS
NURSING HOMES	NURSING HOMES
GOV MANSIONS	Governors Mansions

OTHER ASCERTAINABLE RECORDS *(cont.)*

SCHOOLS PRIVATE	SCHOOLS PRIVATE
SCHOOLS PUBLIC	SCHOOLS PUBLIC
COLLEGES	COLLEGES
COLLEGES 2	COLLEGES 2
PRISONS	PRISONS
EJ CHURCH	CHURCHES
EJ SCHOOLS	Schools List
EJ HOSPITALS	Hospitals List
DAYCARE	DAYCARE
DAYCARE - KY	Daycare Facilities

LOCAL BROWNFIELD LISTS

FED BROWNFIELDS	Federal Brownfields
HIST FED BROWNFIELDS	Historical Federal Brownfields
BROWNFIELDS-ACRES	EPA ACRES Brownfields
EJ BROWNFIELDS	Brownfields Sites

LOCAL LISTS OF LANDFILL / SOLID WASTE DISPOSAL SITES

EPA LF MOP	EPA Landfill Methane Outreach Project Database
ODI	Open Dump Inventory
SWRCY - KY	Solid Waste Recycling
TRIBAL ODI	Indian Open Dump Inventory Sites
INDIAN ODI R8	Open Dump Inventory
HIST INDIAN ODI R8	Historical Open Dump Inventory

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 LAND RECORDS

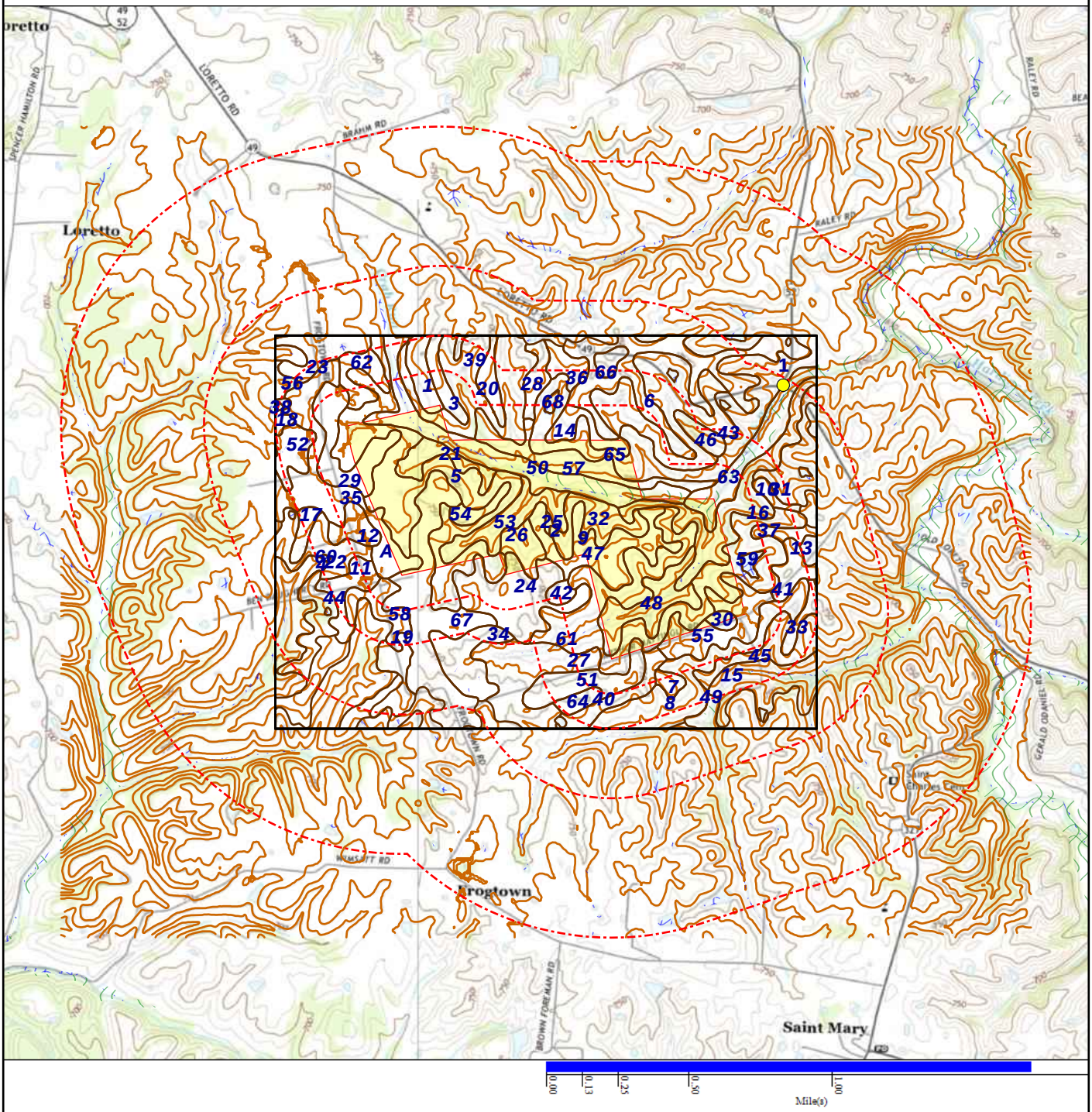
LIENS 2	CERCLA Lien Information

RECORDS OF EMERGENCY RELEASE REPORTS

HMIRS (DOT)	Hazardous Materials Information Reporting Systems

SUBJECT NAME: Crab Run Solar Project
ADDRESS: Loretto, KY, 40037
LAT/LONG: 37.607652 / -85.366814

PREPARED FOR: Environmental Consulting & Technology...
ORDER #: 108906
REPORT DATE: June 12, 2025



- Subject Property
- Department of Defense (No Data)
- FEMA FloodZone 100
- Historical DOD (No Data)
- State Pipelines (No Data)
- Equal/Higher Elevation
- DFIRM Floodzone 100
- FEMA FloodZone 500 (No Data)
- Indian Reservation (No Data)
- WetLands
- Lower Elevation
- DFIRM Floodzone 500 (No Data)
- FUDS MRA (No Data)
- National Priority List (No Data)
- CDC HAZDAT (No Data)
- Federal Lands (No Data)
- FUDS MRS (No Data)
- NWI

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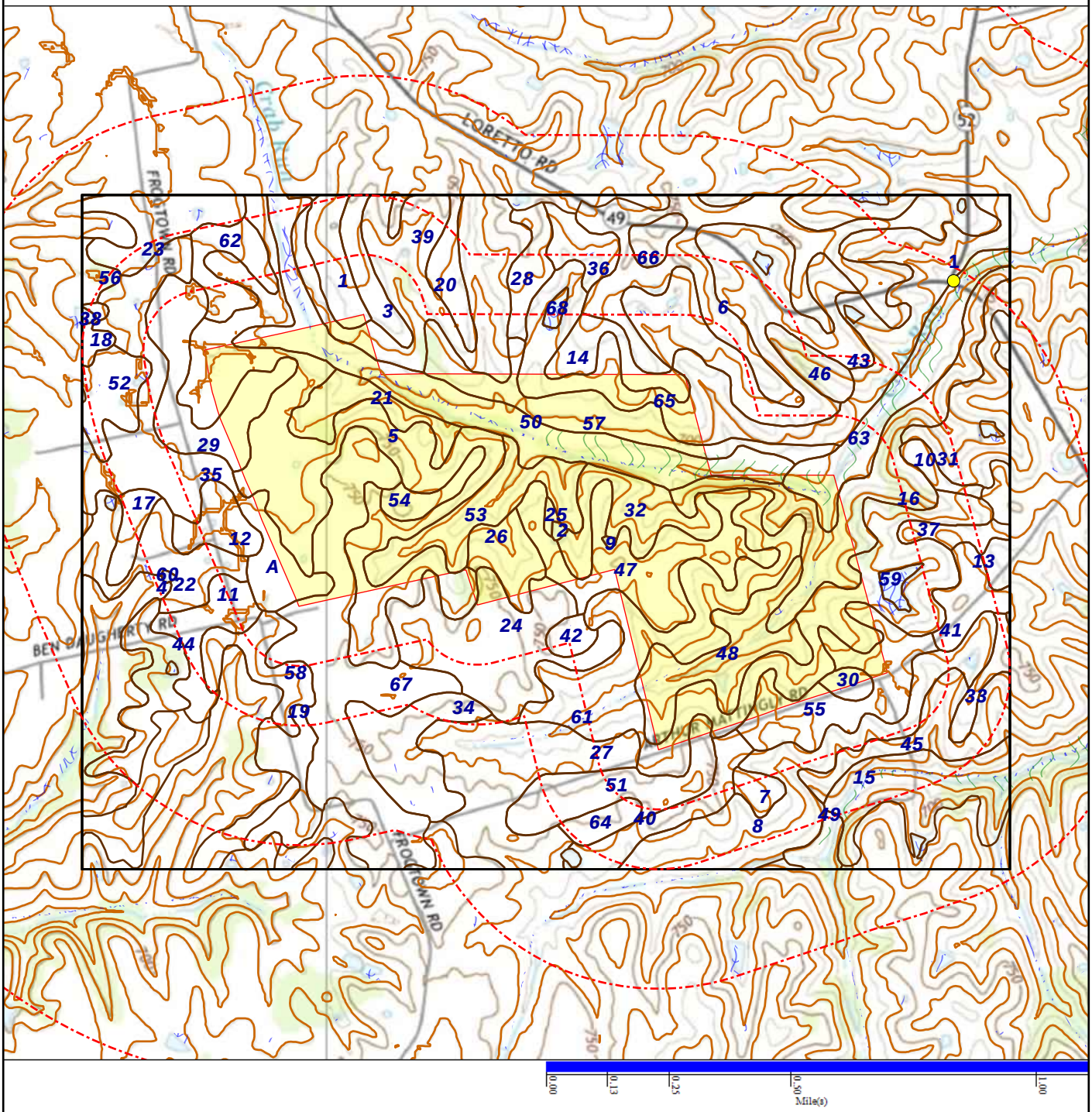


DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
STANDARD ENVIRONMENTAL RECORDS								
FEDERAL NPL SITE LIST								
NPL		1.000	0	0	0	0	--	0
PART NPL		1.000	0	0	0	0	--	0
SEMS_FINAL NPL		1.000	0	0	0	0	--	0
SEMS_PROPOSED NPL		1.000	0	0	0	0	--	0
PROPOSED NPL		1.000	0	0	0	0	--	0
NPL EPA GIS		1.000	0	0	0	0	--	0
NPL LIENS		SP	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 CERCLIS LIST								
SEMS_8R_ACTIVE SITES		0.500	0	0	0	--	--	0
FEDERAL FACILITY		1.000	0	0	0	0	--	0
CERCLIS NFRAP		0.500	0	0	0	--	--	0
CERCLIS-HIST		0.500	0	0	0	--	--	0
SEMS_8R_ARCHIVED SITES		0.500	0	0	0	--	--	0
EPA SAA		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 RCRA NON-CORRACTS TSD FACILITIES LIST								
RCRA TSDF		0.500	0	0	0	--	--	0
ARCHIVED RCRA TSDF		0.500	0	0	0	--	--	0
FEDERAL RCRA GENERATORS LIST								
RCRA LQG		0.250	0	0	--	--	--	0
RCRA SQG		0.250	0	0	--	--	--	0
RCRA VSQG		0.250	0	0	--	--	--	0
RCRA NONGEN		0.250	0	0	--	--	--	0
HIST RCRA LQG		0.250	0	0	--	--	--	0
HIST RCRA SQG		0.250	0	0	--	--	--	0
HIST RCRA CESQG		0.250	0	0	--	--	--	0
HIST RCRA NONGEN		0.250	0	0	--	--	--	0
EJ HAZ WASTE		0.250	0	0	--	--	--	0

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
STANDARD ENVIRONMENTAL RECORDS *(cont.)*								
FEDERAL INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES								
LUCIS		0.500	0	0	0	--	--	0
LUCIS 2		0.500	0	0	0	--	--	0
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 ERNS LIST								
ERNS		SP	0	--	--	--	--	0
STATE- AND TRIBAL - EQUIVALENT CERCLIS								
SHWS - KY		1.000	0	0	0	0	--	0
STATE RCRA GENERATORS LIST								
HWF - KY		0.250	0	0	--	--	--	0
STATE AND TRIBAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS								
SWF/LF - KY		0.500	0	0	0	--	--	0
HIST LF - KY		0.500	0	0	0	--	--	0
FEDERAL, STATE, AND TRIBAL LEAKING STORAGE TANK LISTS								
EPA LUST		0.500	0	0	1	--	--	1
LUST - KY		0.500	0	0	0	--	--	0
INDIAN LUST R1		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
INDIAN LUST R10		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
FEDERAL, STATE, AND TRIBAL REGISTERED STORAGE TANK LISTS								
FEMA UST		0.250	0	0	--	--	--	0
EPA UST		0.250	0	0	--	--	--	0
AST PBS		0.250	0	0	--	--	--	0
UST - KY		0.250	0	0	--	--	--	0

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
STANDARD ENVIRONMENTAL RECORDS *(cont.)*								
FEDERAL, STATE, AND TRIBAL REGISTERED STORAGE TANK LISTS *(cont.)*								
INDIAN UST R1		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
INDIAN UST R10		0.250	0	0	--	--	--	0
HIST INDIAN UST R4		0.250	0	0	--	--	--	0
HIST INDIAN UST R6		0.250	0	0	--	--	--	0
HIST INDIAN UST R7		0.250	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 VOLUNTARY CLEANUP SITES								
VCP - KY		0.500	0	0	0	--	--	0
STATE AND TRIBAL BROWNFIELD SITES								
BROWNFIELDS - KY		0.500	0	0	0	--	--	0
HIST BROWNFIELDS - KY		0.500	0	0	0	--	--	0
TRIBAL BROWNFIELDS		0.500	0	0	0	--	--	0
ADDITIONAL ENVIRONMENTAL RECORDS								
OTHER ASCERTAINABLE RECORDS								
NPL AOC		1.000	0	0	0	0	--	0
FUDS		1.000	0	0	0	0	--	0
FUDS MRA		1.000	0	0	0	0	--	0
FUDS MRS		1.000	0	0	0	0	--	0
DOD		1.000	0	0	0	0	--	0
HIST DOD		1.000	0	0	0	0	--	0
FEDLAND		1.000	0	0	0	0	--	0
CDC HAZDAT		1.000	0	0	0	0	--	0
COAL GAS		1.000	0	0	0	0	--	0
MGP		1.000	0	0	0	0	--	0
PIPELINES		1.000	0	0	0	0	--	0

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
ADDITIONAL ENVIRONMENTAL RECORDS *(cont.)*								
OTHER ASCERTAINABLE RECORDS *(cont.)*								
ROD		1.000	0	0	0	0	--	0
CONSENT (DECREES)		1.000	0	0	0	0	--	0
BRS		SP	0	--	--	--	--	0
INDIAN RESERVATION		1.000	0	0	0	0	--	0
EPA WATCH		SP	0	--	--	--	--	0
CORRECTIVE ACTIONS 2020		0.500	0	0	0	--	--	0
COAL ASH DOE		0.500	0	0	0	--	--	0
COAL ASH EPA		0.500	0	0	0	--	--	0
DEBRIS EPA LF		0.500	0	0	0	--	--	0
DEBRIS EPA SWRCY		0.500	0	0	0	--	--	0
PFAS FED SITES		0.500	0	0	0	--	--	0
PFAS INDUSTRY		0.500	0	0	0	--	--	0
PFAS MANIFEST		0.500	0	0	0	--	--	0
PFAS NPL		0.500	0	0	0	--	--	0
PFAS PROD		0.500	0	0	0	--	--	0
PFAS SPILLS		0.500	0	0	0	--	--	0
PFAS TRIS		0.500	0	0	0	--	--	0
PFAS UCMR3		0.500	0	0	0	--	--	0
PFAS WQP		0.500	0	0	0	--	--	0
UMTRA		0.500	0	0	0	--	--	0
VAPOR		0.500	0	0	0	--	--	0
SCRD DRYCLEANERS		0.250	0	0	--	--	--	0
ALT FUELING		0.250	0	0	--	--	--	0
MINES USGS		0.250	0	0	--	--	--	0
MINE OPERATIONS		0.250	0	0	--	--	--	0
MINES		0.250	0	0	--	--	--	0
ASBESTOS NOA		0.250	0	0	--	--	--	0
HIST ASBESTOS NOA		0.250	0	0	--	--	--	0
RMP		0.250	0	0	--	--	--	0
MANIFEST EPA		0.250	0	0	--	--	--	0
EPA OSC		0.125	0	--	--	--	--	0
RAATS		SP	0	--	--	--	--	0
TRIS		SP	0	--	--	--	--	0
SSTS		SP	0	--	--	--	--	0
HIST SSTS		SP	0	--	--	--	--	0
EJ TOXIC RELEASE		SP	0	--	--	--	--	0

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
ADDITIONAL ENVIRONMENTAL RECORDS *(cont.)*								
OTHER ASCERTAINABLE RECORDS *(cont.)*								
FA HWF		SP	0	--	--	--	--	0
PADS		SP	0	--	--	--	--	0
ICIS		SP	0	--	--	--	--	0
FTTS		SP	0	--	--	--	--	0
FTTS INSP		SP	0	--	--	--	--	0
MLTS		SP	0	--	--	--	--	0
HIST MLTS		SP	0	--	--	--	--	0
RADINFO		SP	0	--	--	--	--	0
PCB TRANSFORMER		SP	0	--	--	--	--	0
HIST PCB TRANS		SP	0	--	--	--	--	0
DOT OPS		SP	0	--	--	--	--	0
SEMS_SMELTER		SP	0	--	--	--	--	0
HIST LEAD_SMELTER		SP	0	--	--	--	--	0
TOSCA-PLANT		SP	0	--	--	--	--	0
HWC DOCKET		SP	0	--	--	--	--	0
AFS		SP	0	--	--	--	--	0
HIST AFS		SP	0	--	--	--	--	0
HIST AFS 2		SP	0	--	--	--	--	0
FRS		SP	0	--	--	--	--	0
ECHO		SP	0	--	--	--	--	0
DOCKET CRIM PROS 2		SP	0	--	--	--	--	0
PCS ENF		SP	0	--	--	--	--	0
INACTIVE PCS		SP	0	--	--	--	--	0
PCS FACILITY		SP	0	--	--	--	--	0
HIST PCS ENF		SP	0	--	--	--	--	0
HIST PCS FACILITY		SP	0	--	--	--	--	0
ENOI		SP	0	--	--	--	--	0
EPA FUELS		SP	0	--	--	--	--	0
OSHA		SP	0	--	--	--	--	0
STORMWATER		SP	0	--	--	--	--	0
SECONDARY SITES - KY		0.500	0	0	0	--	--	0
PFAS - KY		0.500	0	0	0	--	--	0
DRYCLEANERS - KY		0.250	0	0	--	--	--	0
HIST DRYCLEANERS - KY		0.250	0	0	--	--	--	0
COAL MINES - KY		0.250	0	0	--	--	--	0
FA 2 - KY		SP	0	--	--	--	--	0

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
ADDITIONAL ENVIRONMENTAL RECORDS *(cont.)*								
OTHER ASCERTAINABLE RECORDS *(cont.)*								
FA 3 - KY		SP	0	--	--	--	--	0
LEAD - KY		SP	0	--	--	--	--	0
RANKING LIST - KY		SP	0	--	--	--	--	0
AIRS - KY		SP	0	--	--	--	--	0
HIST AIRS - KY		SP	0	--	--	--	--	0
HIST NPDES - KY		SP	0	--	--	--	--	0
NPDES - KY		SP	0	--	--	--	--	0
UIC - KY		SP	0	--	--	--	--	0
ARENAS		SP	0	--	--	--	--	0
ARENAS 2		SP	0	--	--	--	--	0
CHURCHES		SP	0	--	--	--	--	0
HOSPITALS		SP	0	--	--	--	--	0
NURSING HOMES		SP	0	--	--	--	--	0
GOV MANSIONS		SP	0	--	--	--	--	0
SCHOOLS PRIVATE		SP	0	--	--	--	--	0
SCHOOLS PUBLIC		SP	0	--	--	--	--	0
COLLEGES		SP	0	--	--	--	--	0
COLLEGES 2		SP	0	--	--	--	--	0
PRISONS		SP	0	--	--	--	--	0
EJ CHURCH		SP	0	--	--	--	--	0
EJ SCHOOLS		SP	0	--	--	--	--	0
EJ HOSPITALS		SP	0	--	--	--	--	0
DAYCARE		SP	0	--	--	--	--	0
DAYCARE - KY		SP	0	--	--	--	--	0
LOCAL BROWNFIELD LISTS								
FED BROWNFIELDS		0.500	0	0	0	--	--	0
HIST FED BROWNFIELDS		0.500	0	0	0	--	--	0
BROWNFIELDS-ACRES		0.500	0	0	0	--	--	0
EJ BROWNFIELDS		0.500	0	0	0	--	--	0
LOCAL LISTS OF LANDFILL / SOLID WASTE DISPOSAL SITES								
EPA LF MOP		0.500	0	0	0	--	--	0
ODI		0.500	0	0	0	--	--	0
SWRCY - KY		0.500	0	0	0	--	--	0
TRIBAL ODI		0.500	0	0	0	--	--	0
INDIAN ODI R8		0.500	0	0	0	--	--	0

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
ADDITIONAL ENVIRONMENTAL RECORDS *(cont.)*								
LOCAL LISTS OF LANDFILL / SOLID WASTE DISPOSAL SITES *(cont.)*								
HIST INDIAN ODI R8		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 LAND RECORDS								
LIENS 2		SP	0	--	--	--	--	0
RECORDS OF EMERGENCY RELEASE REPORTS								
HMIRS (DOT)		SP	0	--	--	--	--	0

Map Id: 1
Direction: ENE
Distance: 0.475 mi., 2511 ft.
Elevation: 664 ft.
Relative: Lower

Site Name : Loretto Video
Rt 2 KY 52
Loretto, KY 40037

Database(s) : [EPA LUST, EPA UST, UST - KY]

Envirosite ID: 42367556
EPA ID: N/R

EPA LUST

Facility Name :	Loretto Video
Facility Address :	Rt 2 KY 52, Loretto, Kentucky
County :	Marion
Facility ID :	KY63733
LUST ID :	KY12413
Reported Date :	N/R
Status :	Unkown
Substance :	N/R
Closed With Residual Contamination (Tribal Only):	N/R
NFA_Letter (Tribal Only) :	N/R
Tribe (Tribal Only) :	N/R
EPA Region :	4
Estimated Population within 1500ft :	11
Estimated Private Domestic Wells within 1500ft:	0
Within Source Water Protection Area (SPA):	No
SPA Public Water System and Facility ID:	N/R
SPA Water Type :	N/R
SPA Facility Type :	N/R
SPA HUC12 :	N/R
Within Groundwater Wellhead Protection Area (WHPA):	No
WHPA Public Water System and Facility ID:	N/R
WHPA Water Type :	N/R
WHPA Facility Type :	N/R
WHPA HUC12 :	N/R
Within Estimated 100-year Floodplain:	No
Latitude :	37.61525
Longitude :	-85.35182
Last Date in Agency List :	2024-05-23

EPA UST

Facility Name :	Loretto Video
Facility Address :	Rt 2 KY 52, Loretto, Kentucky 40037
County :	Marion
Facility ID :	KY2832078
Facility Status :	Closed UST(s)
Open USTs :	0
Closed USTs :	4
Temporarily Out of Service USTs :	0
Date of Last Inspection :	N/R
EPA Region :	4
Tribe :	N/R
Facility ID 2 :	N/R
Latitude :	37.615253
Longitude :	-85.351815
Last Date in Agency List :	2024-05-22

Map Id: 1
Direction: ENE
Distance: 0.475 mi., 2511 ft.
Elevation: 664 ft.
Relative: Lower

Site Name : Loretto Video
Rt 2 KY 52
Loretto, KY 40037

Database(s) : [EPA LUST, EPA UST, UST - KY] ***(cont.)***

Envirosite ID: 42367556
EPA ID: N/R

EPA UST ***(cont.)***

Tank Details

Tank ID :	KY2832078_1_1
Tank Status :	Closed
Installation Date :	1965-01-01
Removal Date :	1991-11-05
Capacity :	3000
Substances :	Gasoline
Tank Wall Type :	Single

Tank ID :	KY2832078_2_1
Tank Status :	Closed
Installation Date :	1965-01-01
Removal Date :	1990-11-05
Capacity :	3000
Substances :	Gasoline
Tank Wall Type :	Single

Tank ID :	KY2832078_3_1
Tank Status :	Closed
Installation Date :	1960-01-01
Removal Date :	1990-11-05
Capacity :	2000
Substances :	Gasoline
Tank Wall Type :	Single

Tank ID :	KY2832078_4_1
Tank Status :	Closed
Installation Date :	1960-01-01
Removal Date :	1990-11-05
Capacity :	2000
Substances :	Gasoline
Tank Wall Type :	Single

UST - KY

Facility Name :	Loretto Video
Facility Address :	Rt 2 KY 52, Loretto, KY 40037
County :	Marion

Site Details

Agency Interest ID :	63733
Agency Interest Type :	RETAIL- Retail Trade, Gasoline Stations (447)
Site Seq ID :	2832078
Latitude :	N/R
Longitude :	N/R
Last Date in Agency List :	2019-12-03

Owner Details

Owner Name :	Webb Miles Estate
Owner Address :	RT 1, Loretto, KY 40037

Map Id: 1
Direction: ENE
Distance: 0.475 mi., 2511 ft.
Elevation: 664 ft.
Relative: Lower

Site Name : Loretto Video
Rt 2 KY 52
Loretto, KY 40037

Database(s) : [EPA LUST, EPA UST, UST - KY] ***(cont.)***

Envirosite ID: 42367556
EPA ID: N/R

UST - KY ***(cont.)***

Owner Address 2 :	N/R
Owner Address 3 :	N/R
Owner Phone :	502-865-6661
Owner Email :	N/R

Tank Details

Install Date :	1965-01-01
Subject Item ID :	1
Tank Status :	Removed Tank Verified
Tank Inert Material :	N/R
Tank Material :	Single Wall Steel
Tank External Corrosion Protection :	Unknown
Tank Release Detection :	None
Tank Internal Corrosion Protection :	Unknown
Tank Spill Prevention :	Unknown
Tank Overfill Prevention :	Unknown
Tank Pit Number :	N/R
Tank Substance :	Gasoline
Tank Manufacturer :	N/R
Last Tank Test Date :	N/R
Piping Material :	Single Wall Steel
Piping External Corrosion Protection:	Unknown
Met Pipe Comp CP Date :	N/R
Piping Type :	Unknown
Piping Release Detection :	N/R
Piping Release Detection PRP :	Unknown
Piping Release Detection SUC :	Unknown
Pipe Leak Detection :	Not Applicable
Piping Manufacturer :	N/R
Last Pipe Test Date :	N/R
Last Line Leak Detection Date :	N/R
STP Sump :	N/R
Sump Liquid Tightness Date :	N/R
Spill Liquid Tightness Date :	N/R
Overfill Liquid Tightness Date :	N/R
Temporary Closed Date :	N/R
Closed in Place Date :	N/R
Removal Date :	1991-11-05
Service Change Date :	N/R
Lined Date :	N/R
Lining Insp Date :	N/R
Compartment Number :	1
Capacity MSR :	3000
Subject Item Category Code :	STOR
Last Cont Product Date :	N/R
Last CP Test Date :	N/R
Added to Flex Date :	N/R
Added to Piping Date :	N/R
Added to Tank Date :	N/R
Piping Installation Date :	N/R

Install Date :	1965-01-01
Subject Item ID :	2
Tank Status :	Removed Tank Verified

Map Id: 1
Direction: ENE
Distance: 0.475 mi., 2511 ft.
Elevation: 664 ft.
Relative: Lower

Site Name : Loretto Video
Rt 2 KY 52
Loretto, KY 40037

Database(s) : [EPA LUST, EPA UST, UST - KY] ***(cont.)***

Envirosite ID: 42367556
EPA ID: N/R

UST - KY ***(cont.)***

Tank Inert Material :	N/R
Tank Material :	Single Wall Steel
Tank External Corrosion Protection :	Unknown
Tank Release Detection :	None
Tank Internal Corrosion Protection :	Unknown
Tank Spill Prevention :	Unknown
Tank Overfill Prevention :	Unknown
Tank Pit Number :	N/R
Tank Substance :	Gasoline
Tank Manufacturer :	N/R
Last Tank Test Date :	N/R
Piping Material :	Single Wall Steel
Piping External Corrosion Protection:	Unknown
Met Pipe Comp CP Date :	N/R
Piping Type :	Unknown
Piping Release Detection :	N/R
Piping Release Detection PRP :	Unknown
Piping Release Detection SUC :	Unknown
Pipe Leak Detection :	Not Applicable
Piping Manufacturer :	N/R
Last Pipe Test Date :	N/R
Last Line Leak Detection Date :	N/R
STP Sump :	N/R
Sump Liquid Tightness Date :	N/R
Spill Liquid Tightness Date :	N/R
Overfill Liquid Tightness Date :	N/R
Temporary Closed Date :	N/R
Closed in Place Date :	N/R
Removal Date :	1990-11-05
Service Change Date :	N/R
Lined Date :	N/R
Lining Insp Date :	N/R
Compartment Number :	1
Capacity MSR :	3000
Subject Item Category Code :	STOR
Last Cont Product Date :	N/R
Last CP Test Date :	N/R
Added to Flex Date :	N/R
Added to Piping Date :	N/R
Added to Tank Date :	N/R
Piping Installation Date :	N/R

Install Date :	1960-01-01
Subject Item ID :	3
Tank Status :	Removed Tank Verified
Tank Inert Material :	N/R
Tank Material :	Single Wall Steel
Tank External Corrosion Protection :	Unknown
Tank Release Detection :	None
Tank Internal Corrosion Protection :	Unknown
Tank Spill Prevention :	Unknown
Tank Overfill Prevention :	Unknown
Tank Pit Number :	N/R
Tank Substance :	Gasoline
Tank Manufacturer :	N/R
Last Tank Test Date :	N/R

Map Id: 1
Direction: ENE
Distance: 0.475 mi., 2511 ft.
Elevation: 664 ft.
Relative: Lower

Site Name : Loretto Video
Rt 2 KY 52
Loretto, KY 40037

Database(s) : [EPA LUST, EPA UST, UST - KY] ***(cont.)***

Envirosite ID: 42367556
EPA ID: N/R

UST - KY ***(cont.)***

Piping Material :	Single Wall Steel
Piping External Corrosion Protection:	Unknown
Met Pipe Comp CP Date :	N/R
Piping Type :	Unknown
Piping Release Detection :	N/R
Piping Release Detection PRP :	Unknown
Piping Release Detection SUC :	Unknown
Pipe Leak Detection :	Not Applicable
Piping Manufacturer :	N/R
Last Pipe Test Date :	N/R
Last Line Leak Detection Date :	N/R
STP Sump :	N/R
Sump Liquid Tightness Date :	N/R
Spill Liquid Tightness Date :	N/R
Overfill Liquid Tightness Date :	N/R
Temporary Closed Date :	N/R
Closed in Place Date :	N/R
Removal Date :	1990-11-05
Service Change Date :	N/R
Lined Date :	N/R
Lining Insp Date :	N/R
Compartment Number :	1
Capacity MSR :	2000
Subject Item Category Code :	STOR
Last Cont Product Date :	N/R
Last CP Test Date :	N/R
Added to Flex Date :	N/R
Added to Piping Date :	N/R
Added to Tank Date :	N/R
Piping Installation Date :	N/R

Install Date :	1960-01-01
Subject Item ID :	4
Tank Status :	Removed Tank Verified
Tank Inert Material :	N/R
Tank Material :	Single Wall Steel
Tank External Corrosion Protection :	Unknown
Tank Release Detection :	None
Tank Internal Corrosion Protection :	Unknown
Tank Spill Prevention :	Unknown
Tank Overfill Prevention :	Unknown
Tank Pit Number :	N/R
Tank Substance :	Gasoline
Tank Manufacturer :	N/R
Last Tank Test Date :	N/R
Piping Material :	Single Wall Steel
Piping External Corrosion Protection:	Unknown
Met Pipe Comp CP Date :	N/R
Piping Type :	Unknown
Piping Release Detection :	N/R
Piping Release Detection PRP :	Unknown
Piping Release Detection SUC :	Unknown
Pipe Leak Detection :	Not Applicable
Piping Manufacturer :	N/R
Last Pipe Test Date :	N/R
Last Line Leak Detection Date :	N/R

Map Id: 1
Direction: ENE
Distance: 0.475 mi., 2511 ft.
Elevation: 664 ft.
Relative: Lower

Site Name : Loretto Video
Rt 2 KY 52
Loretto, KY 40037

Database(s) : [EPA LUST, EPA UST, UST - KY] ***(cont.)***

Envirosite ID: 42367556
EPA ID: N/R

UST - KY ***(cont.)***

STP Sump :	N/R
Sump Liquid Tightness Date :	N/R
Spill Liquid Tightness Date :	N/R
Overfill Liquid Tightness Date :	N/R
Temporary Closed Date :	N/R
Closed in Place Date :	N/R
Removal Date :	1990-11-05
Service Change Date :	N/R
Lined Date :	N/R
Lining Insp Date :	N/R
Compartment Number :	1
Capacity MSR :	2000
Subject Item Category Code :	STOR
Last Cont Product Date :	N/R
Last CP Test Date :	N/R
Added to Flex Date :	N/R
Added to Piping Date :	N/R
Added to Tank Date :	N/R
Piping Installation Date :	N/R

ENVIROSITE ID	NAME	ADDRESS	CITY	ZIP	DATABASE(S)
42914190	Downs Property	Hwy 49	Loretto		EPA LUST
43171789	Loretto Trax Company Inc	KY 52	LORETTO		EPA LUST

STANDARD ENVIRONMENTAL RECORDS

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: 02/19/2025
Agency Update Frequency: Quarterly
Planned Next Contact: 08/13/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 05/19/2025

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

Agency Version Date: 02/19/2025
Agency Update Frequency: Quarterly
Planned Next Contact: 08/13/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 05/19/2025

SEMS_FINAL NPL: All Included National Priority List Sites

Agency Version Date: 02/19/2025
Agency Update Frequency: Quarterly
Planned Next Contact: 08/13/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 05/19/2025

SEMS_PROPOSED NPL: All Proposed National Priority List Sites

Agency Version Date: 02/19/2025
Agency Update Frequency: Quarterly
Planned Next Contact: 08/13/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 05/19/2025

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

Agency Version Date: 02/19/2025
Agency Update Frequency: Quarterly
Planned Next Contact: 08/13/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 05/19/2025

NPL EPA GIS: Geospatial data for Areas related to the US EPA National Priority List.

Agency Version Date: 02/19/2025
Agency Update Frequency: Quarterly
Planned Next Contact: 08/13/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-2132
Most Recent Contact: 05/19/2025

NPL LIENS: National Priority List of sites with Liens

Agency Version Date: 02/19/2025
Agency Update Frequency: Varies
Planned Next Contact: 08/13/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 05/19/2025

FEDERAL DELISTED NPL SITE LIST

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

Agency Version Date: 02/19/2025
Agency Update Frequency: Quarterly
Planned Next Contact: 08/13/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 05/19/2025

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

Agency Version Date: 02/19/2025
Agency Update Frequency: Quarterly
Planned Next Contact: 08/13/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 05/19/2025

STANDARD ENVIRONMENTAL RECORDS *(cont.)*

FEDERAL DELISTED NPL SITE LIST (cont.)

SEMS_DELETED NPL: All Deleted National Priority List Sties

Agency Version Date: 02/19/2025
Agency Update Frequency: Quarterly
Planned Next Contact: 08/13/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 05/19/2025

FEDERAL CERCLIS LIST

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: 02/19/2025
Agency Update Frequency: Quarterly
Planned Next Contact: 08/13/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 05/19/2025

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: 02/19/2025
Agency Update Frequency: Varies
Planned Next Contact: 08/13/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8712
Most Recent Contact: 05/19/2025

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: 02/19/2025
Agency Update Frequency: Quarterly
Planned Next Contact: 08/13/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 800-424-9346
Most Recent Contact: 05/19/2025

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: 02/19/2025
Agency Update Frequency: Quarterly
Planned Next Contact: 08/13/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 800-424-9346
Most Recent Contact: 05/19/2025

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: 02/19/2025
Agency Update Frequency: Quarterly
Planned Next Contact: 08/13/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 05/19/2025

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

Agency Version Date: 09/16/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 08/28/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 800-424-9346
Most Recent Contact: 06/03/2025

STANDARD ENVIRONMENTAL RECORDS *(cont.)*

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: 11/08/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 07/28/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-1667
Most Recent Contact: 05/01/2025

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: 06/23/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-1667
Most Recent Contact: 03/27/2025

FEDERAL RCRA NON-CORRACTS TSD FACILITIES LIST

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

Agency Version Date: 11/08/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 07/28/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 05/01/2025

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

Agency Version Date: 11/08/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 07/28/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 05/01/2025

FEDERAL RCRA GENERATORS LIST

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

Agency Version Date: 11/08/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 07/28/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 05/01/2025

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

Agency Version Date: 11/08/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 07/28/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 05/01/2025

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

Agency Version Date: 11/08/2024
Agency Update Frequency: Varies
Planned Next Contact: 07/28/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 05/01/2025

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

Agency Version Date: 11/08/2024
Agency Update Frequency: Varies
Planned Next Contact: 07/28/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 05/01/2025

STANDARD ENVIRONMENTAL RECORDS *(cont.)*

FEDERAL RCRA GENERATORS LIST (cont.)

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 Update Frequency: Annually
Planned Next Contact: 06/23/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 03/27/2025

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 Update Frequency: Annually
Planned Next Contact: 06/23/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 03/27/2025

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 Update Frequency: Annually
Planned Next Contact: 06/23/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 03/27/2025

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 Update Frequency: Annually
Planned Next Contact: 06/23/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 03/27/2025

EJ HAZ WASTE: Hazardous waste facilities from Environmental Justice.

Agency Version Date: 10/29/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 07/16/2025
Agency: ejscreen.epa.gov
Agency Contact: (800) 962-6215
Most Recent Contact: 04/21/2025

FEDERAL INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES

LUCIS: Land Use Control Information Systems

Agency Version Date: 03/08/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 07/24/2025
Agency: Department of the Navy: BRAC PMO
Agency Contact: (619) 532-0900
Most Recent Contact: 04/29/2025

LUCIS 2: Land Use Control Information Systems

Agency Version Date: 01/17/2018
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 08/29/2025
Agency: Department of the Navy: BRAC PMO
Agency Contact: (619) 532-0900
Most Recent Contact: 06/04/2025

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

Agency Version Date: 03/28/2025
Agency Update Frequency: Varies
Planned Next Contact: 06/24/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 800-424-9346
Most Recent Contact: 03/28/2025

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

Agency Version Date: 03/28/2025
Agency Update Frequency: Varies
Planned Next Contact: 06/24/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 800-424-9346
Most Recent Contact: 03/28/2025

STANDARD ENVIRONMENTAL RECORDS *(cont.)*

FEDERAL INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES (cont.)

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

Agency Version Date: 12/16/2024
Agency Update Frequency: Varies
Planned Next Contact: 09/03/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 06/09/2025

FEDERAL ERNS LIST

ERNS: Emergency Response Notification System records of reported spills

Agency Version Date: 09/09/2024
Agency Update Frequency: Annually
Planned Next Contact: 08/21/2025
Agency: National Response Center United States Coast Guard
Agency Contact: N/R
Most Recent Contact: 05/27/2025

STATE- AND TRIBAL - EQUIVALENT CERCLIS

SHWS - KY: State Leads list: Superfund KORA sites

Agency Version Date: 11/28/2024
Agency Update Frequency: Varies
Planned Next Contact: 08/15/2025
Agency: Department of Environmental Protection
Agency Contact: (502) 564-6716
Most Recent Contact: 05/21/2025

STATE RCRA GENERATORS LIST

HWF - KY: Listing of facilities with hazardous waste permits

Agency Version Date: 11/28/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 08/15/2025
Agency: Kentucky Department of Environmental Protection
Agency Contact: 502-564-6716
Most Recent Contact: 05/21/2025

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

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

Agency Version Date: 12/04/2024
Agency Update Frequency: Varies
Planned Next Contact: 08/21/2025
Agency: Kentucky Department of Environmental Protection
Agency Contact: 502-564-4049
Most Recent Contact: 05/27/2025

HIST LF - KY: Historical Landfills

Agency Version Date: 08/20/2019
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 07/11/2025
Agency: Department of Environmental Protection
Agency Contact: (502) 564-6716
Most Recent Contact: 04/16/2025

FEDERAL, STATE, AND TRIBAL LEAKING STORAGE TANK LISTS

EPA LUST: Releases listed in the EPA UST Finder database

Agency Version Date: 03/28/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 09/01/2025
Agency: EPA
Agency Contact: (202) 566-1667
Most Recent Contact: 06/05/2025

LUST - KY: Leaking Underground Storage Tank Listing

Agency Version Date: 12/13/2024
Agency Update Frequency: Varies
Planned Next Contact: 09/01/2025
Agency: Department of Environmental Protection
Agency Contact: (502) 564-6716
Most Recent Contact: 06/05/2025

STANDARD ENVIRONMENTAL RECORDS *(cont.)*

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

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

Agency Version Date: 11/29/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 08/19/2025
Agency: U.S. Environmental Protection Agency Region 1
Agency Contact: 855-246-3642
Most Recent Contact: 05/23/2025

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

Agency Version Date: 12/07/2016
Agency Update Frequency: Quarterly
Planned Next Contact: 08/19/2025
Agency: U.S. Environmental Protection Agency Region 2
Agency Contact: 855-246-3642
Most Recent Contact: 05/23/2025

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

Agency Version Date: 09/30/2024
Agency Update Frequency: Semi Annually
Planned Next Contact: 06/17/2025
Agency: U.S. Environmental Protection Agency Region 4
Agency Contact: 855-246-3642
Most Recent Contact: 03/21/2025

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

Agency Version Date: 12/13/2024
Agency Update Frequency: Varies
Planned Next Contact: 09/01/2025
Agency: U.S. Environmental Protection Agency Region 5
Agency Contact: 855-246-3642
Most Recent Contact: 06/05/2025

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

Agency Version Date: 12/17/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 09/03/2025
Agency: U.S. Environmental Protection Agency Region 6
Agency Contact: 855-246-3642
Most Recent Contact: 06/09/2025

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

Agency Version Date: 12/13/2024
Agency Update Frequency: Varies
Planned Next Contact: 09/01/2025
Agency: U.S. Environmental Protection Agency Region 7
Agency Contact: 855-246-3642
Most Recent Contact: 06/05/2025

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

Agency Version Date: 12/16/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 09/03/2025
Agency: U.S. Environmental Protection Agency Region 8
Agency Contact: 855-246-3642
Most Recent Contact: 06/09/2025

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

Agency Version Date: 11/26/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 08/13/2025
Agency: U.S. Environmental Protection Agency Region 9
Agency Contact: 855-246-3642
Most Recent Contact: 05/19/2025

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

Agency Version Date: 09/30/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 06/17/2025
Agency: U.S. Environmental Protection Agency Region 10
Agency Contact: 855-246-3642
Most Recent Contact: 03/21/2025

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

Agency Version Date: 10/18/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 06/16/2025
Agency: U.S. Environmental Protection Agency Region 4
Agency Contact: 855-246-3642
Most Recent Contact: 03/20/2025

STANDARD ENVIRONMENTAL RECORDS *(cont.)*

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

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

Agency Version Date: 08/16/2021
Agency Update Frequency: Quarterly
Planned Next Contact: 09/02/2025
Agency: U.S. Environmental Protection Agency Region 8
Agency Contact: 855-246-3642
Most Recent Contact: 06/06/2025

FEDERAL, STATE, AND TRIBAL REGISTERED STORAGE TANK LISTS

FEMA UST: FEMA underground storage tank listing

Agency Version Date: 06/07/2023
Agency Update Frequency: Varies
Planned Next Contact: 07/28/2025
Agency: FEMA
Agency Contact: 202-212-5283
Most Recent Contact: 05/01/2025

EPA UST: Facilities listed in the EPA UST Finder database

Agency Version Date: 03/28/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 09/01/2025
Agency: EPA
Agency Contact: (202) 566-1667
Most Recent Contact: 06/05/2025

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

Agency Version Date: 05/10/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 07/18/2025
Agency: Department of Homeland Security
Agency Contact: 202-853-5361
Most Recent Contact: 04/23/2025

UST - KY: Underground storage tank listing

Agency Version Date: 12/11/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 08/29/2025
Agency: Kentucky Department of Environmental Protection
Agency Contact: 502-564-5981
Most Recent Contact: 06/04/2025

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

Agency Version Date: 11/29/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 08/19/2025
Agency: U.S. Environmental Protection Agency Region 1
Agency Contact: 855-246-3642
Most Recent Contact: 05/23/2025

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

Agency Version Date: 12/07/2016
Agency Update Frequency: Quarterly
Planned Next Contact: 08/19/2025
Agency: U.S. Environmental Protection Agency Region 2
Agency Contact: 855-246-3642
Most Recent Contact: 05/23/2025

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

Agency Version Date: 09/30/2024
Agency Update Frequency: Semi Annually
Planned Next Contact: 06/17/2025
Agency: U.S. Environmental Protection Agency Region 4
Agency Contact: 855-246-3642
Most Recent Contact: 03/21/2025

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

Agency Version Date: 12/13/2024
Agency Update Frequency: Varies
Planned Next Contact: 09/01/2025
Agency: U.S. Environmental Protection Agency Region 5
Agency Contact: 855-246-3642
Most Recent Contact: 06/05/2025

STANDARD ENVIRONMENTAL RECORDS *(cont.)*

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

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

Agency Version Date: 10/11/2024
Agency Update Frequency: Semi Annually
Planned Next Contact: 06/30/2025
Agency: U.S. Environmental Protection Agency Region 6
Agency Contact: 855-246-3642
Most Recent Contact: 04/03/2025

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

Agency Version Date: 12/13/2024
Agency Update Frequency: Varies
Planned Next Contact: 09/01/2025
Agency: U.S. Environmental Protection Agency Region 7
Agency Contact: 855-246-3642
Most Recent Contact: 06/05/2025

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

Agency Version Date: 11/28/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 08/15/2025
Agency: U.S. Environmental Protection Agency Region 8
Agency Contact: 855-246-3642
Most Recent Contact: 05/21/2025

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

Agency Version Date: 11/27/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 08/15/2025
Agency: U.S. Environmental Protection Agency Region 9
Agency Contact: 855-246-3642
Most Recent Contact: 05/21/2025

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

Agency Version Date: 12/25/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 06/17/2025
Agency: U.S. Environmental Protection Agency Region 10
Agency Contact: 855-246-3642
Most Recent Contact: 03/21/2025

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

Agency Version Date: 10/18/2023
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 06/17/2025
Agency: U.S. Environmental Protection Agency Region 4
Agency Contact: 855-246-3642
Most Recent Contact: 03/21/2025

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

Agency Version Date: 12/03/2021
Agency Update Frequency: Semi Annually
Planned Next Contact: 06/23/2025
Agency: U.S. Environmental Protection Agency Region 6
Agency Contact: 855-246-3642
Most Recent Contact: 03/27/2025

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

Agency Version Date: 08/10/2021
Agency Update Frequency: Quarterly
Planned Next Contact: 06/16/2025
Agency: U.S. Environmental Protection Agency Region 7
Agency Contact: 855-246-3642
Most Recent Contact: 03/20/2025

STATE INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES

E C - KY: Sites with Engineering Controls

Agency Version Date: 12/27/2024
Agency Update Frequency: Varies
Planned Next Contact: 06/19/2025
Agency: Department of Environmental Protection
Agency Contact: (502) 564-6716
Most Recent Contact: 03/25/2025

STANDARD ENVIRONMENTAL RECORDS *(cont.)*

STATE INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES (cont.)

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

Agency Version Date: 12/27/2024
Agency Update Frequency: Varies
Planned Next Contact: 06/19/2025
Agency: Department of Environmental Protection
Agency Contact: (502) 564-6716
Most Recent Contact: 03/25/2025

STATE AND TRIBAL VOLUNTARY CLEANUP SITES

VCP - KY: Sites involved in the Voluntary Cleanup Program

Agency Version Date: 01/07/2025
Agency Update Frequency: Semi Annually
Planned Next Contact: 06/30/2025
Agency: Department of Environmental Protection
Agency Contact: (502) 564-6716
Most Recent Contact: 04/03/2025

STATE AND TRIBAL BROWNFIELD SITES

BROWNFIELDS - KY: Potential Brownfields Inventory Listing

Agency Version Date: 09/24/2024
Agency Update Frequency: Varies
Planned Next Contact: 09/05/2025
Agency: Department of Environmental Protection
Agency Contact: (502) 564-6716
Most Recent Contact: 06/11/2025

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

Agency Version Date: 03/20/2018
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 06/18/2025
Agency: Department of Environmental Protection
Agency Contact: (502) 564-6716
Most Recent Contact: 03/24/2025

TRIBAL BROWNFIELDS: Tribal brownfield remediation site listing

Agency Version Date: 12/10/2017
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 07/11/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 04/16/2025

ADDITIONAL ENVIRONMENTAL RECORDS

OTHER ASCERTAINABLE RECORDS

NPL AOC: Areas of Concern related to the US EPA NPL remediation sites.

Agency Version Date: 02/19/2025
Agency Update Frequency: Quarterly
Planned Next Contact: 08/13/2025
Agency: Environmental Protection Agency
Agency Contact: 202-566-2132
Most Recent Contact: 05/19/2025

FUDS: Defense sites that require cleanup

Agency Version Date: 12/19/2024
Agency Update Frequency: Varies
Planned Next Contact: 09/05/2025
Agency: US Army Corps of Engineering
Agency Contact: (202) 761-0011
Most Recent Contact: 06/11/2025

FUDS MRA: Formerly Used Defense military munition response areas

Agency Version Date: 06/04/2025
Agency Update Frequency: Varies
Planned Next Contact: 08/29/2025
Agency: DHS Homeland Infrastructure Foundation
Agency Contact: N/R
Most Recent Contact: 06/04/2025

ADDITIONAL ENVIRONMENTAL RECORDS *(cont.)*

OTHER ASCERTAINABLE RECORDS (cont.)

FUDS MRS: Formerly Used Defense military munition response sites

Agency Version Date: 06/04/2025
Agency Update Frequency: Varies
Planned Next Contact: 08/29/2025
Agency: US Army Corps of Engineering
Agency Contact: N/R
Most Recent Contact: 06/04/2025

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

Agency Version Date: 02/19/2025
Agency Update Frequency: Varies
Planned Next Contact: 08/13/2025
Agency: United States Geologic Survey (USGS)
Agency Contact: 1-888-275-8747
Most Recent Contact: 05/19/2025

HIST DOD: Department of Defense historical sites

Agency Version Date: 09/13/2024
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 08/13/2025
Agency: Environmental Protection Agency
Agency Contact: (800) 424-9346
Most Recent Contact: 05/19/2025

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

Agency Version Date: 03/06/2025
Agency Update Frequency: Varies
Planned Next Contact: 08/27/2025
Agency: United States Geologic Survey (USGS)
Agency Contact: 1-888-275-8747
Most Recent Contact: 06/02/2025

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

Agency Version Date: 02/19/2025
Agency Update Frequency: Varies
Planned Next Contact: 08/13/2025
Agency: Agency for Toxic Substances and Disease Registry
Agency Contact: 770-488-6399
Most Recent Contact: 05/19/2025

COAL GAS: Manufactured Gas Plant locations

Agency Version Date: 08/20/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 08/01/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 05/07/2025

MGP: Locations of all Manufactured Gas Plants

Agency Version Date: 10/01/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 06/18/2025
Agency: Environmental Protection Agency
Agency Contact: N/R
Most Recent Contact: 03/24/2025

PIPELINES: Federal Pipeline facilities data

Agency Version Date: 06/28/2014
Agency Update Frequency: No update
Planned Next Contact: 09/01/2025
Agency: USGS
Agency Contact: (202) 366-4595
Most Recent Contact: 06/05/2025

ROD: Permanent remedy at an NPL site

Agency Version Date: 02/19/2025
Agency Update Frequency: Varies
Planned Next Contact: 08/13/2025
Agency: Environmental Protection Agency
Agency Contact: (800) 424-9346
Most Recent Contact: 05/19/2025

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

Agency Version Date: 02/19/2025
Agency Update Frequency: Varies
Planned Next Contact: 08/13/2025
Agency: Environmental Protection Agency
Agency Contact: (800) 424-9346
Most Recent Contact: 05/19/2025

ADDITIONAL ENVIRONMENTAL RECORDS *(cont.)*

OTHER ASCERTAINABLE RECORDS (cont.)

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

Agency Version Date: 11/08/2024
Agency Update Frequency: Biennial
Planned Next Contact: 07/28/2025
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 05/01/2025

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

Agency Version Date: 03/06/2025
Agency Update Frequency: Varies
Planned Next Contact: 08/27/2025
Agency: United States Geologic Survey (USGS)
Agency Contact: 1-888-275-8747
Most Recent Contact: 06/02/2025

EPA WATCH: The EPA Watch List was used to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. EPA maintained the lists from 2011 - 2013.

Agency Version Date: 02/09/2018
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 07/11/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: (202) 564-2307
Most Recent Contact: 04/16/2025

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: 12/19/2023
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 06/18/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: N/R
Most Recent Contact: 03/24/2025

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: 10/28/2024
Agency Update Frequency: Varies
Planned Next Contact: 07/15/2025
Agency: Department of Energy
Agency Contact: (202) 586-8800
Most Recent Contact: 04/18/2025

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

Agency Version Date: 03/29/2024
Agency Update Frequency: Varies
Planned Next Contact: 09/03/2025
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 06/09/2025

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

Agency Version Date: 11/25/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 08/12/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 05/16/2025

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

Agency Version Date: 11/25/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 08/12/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 05/16/2025

PFAS FED SITES: PFAS Detection on Federal Facilities

Agency Version Date: 10/08/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 06/25/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: N/R
Most Recent Contact: 03/31/2025

ADDITIONAL ENVIRONMENTAL RECORDS *(cont.)*

OTHER ASCERTAINABLE RECORDS (cont.)

PFAS INDUSTRY: List of Industries potentially handling PFAS

Agency Version Date: 01/02/2025
Agency Update Frequency: Quarterly
Planned Next Contact: 06/25/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: N/R
Most Recent Contact: 03/31/2025

PFAS MANIFEST: PFAS Transfer Manifest

Agency Version Date: 01/02/2025
Agency Update Frequency: Quarterly
Planned Next Contact: 06/25/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: N/R
Most Recent Contact: 03/31/2025

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

Agency Version Date: 11/19/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 08/08/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 05/12/2025

PFAS PROD: PFAS Production Sites

Agency Version Date: 10/08/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 06/25/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: N/R
Most Recent Contact: 03/31/2025

PFAS SPILLS: List of PFAS Spill Sites

Agency Version Date: 01/02/2025
Agency Update Frequency: Quarterly
Planned Next Contact: 06/25/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: N/R
Most Recent Contact: 03/31/2025

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

Agency Version Date: 11/07/2024
Agency Update Frequency: Varies
Planned Next Contact: 07/25/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 04/30/2025

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

Agency Version Date: 06/02/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 07/08/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 04/11/2025

PFAS WQP: List of PFAS from Water Quality Portal

Agency Version Date: 10/08/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 06/25/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: N/R
Most Recent Contact: 03/31/2025

UMTRA: Uranium Recovery Sites

Agency Version Date: 08/13/2024
Agency Update Frequency: Varies
Planned Next Contact: 07/25/2025
Agency: United States Nuclear Regulatory Commission
Agency Contact: (301) 415-8200
Most Recent Contact: 04/30/2025

VAPOR: EPA Vapor Intrusion Database

Agency Version Date: 03/19/2021
Agency Update Frequency: Varies
Planned Next Contact: 07/09/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 04/14/2025

ADDITIONAL ENVIRONMENTAL RECORDS *(cont.)*

OTHER ASCERTAINABLE RECORDS (cont.)

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners

Agency Version Date: 01/10/2025
Agency Update Frequency: No Update
Planned Next Contact: 07/03/2025
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 04/08/2025

ALT FUELING: Alternative Fueling Stations by fuel type.

Agency Version Date: 11/07/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 07/25/2025
Agency: U.S. Department of Energy
Agency Contact: N/R
Most Recent Contact: 04/30/2025

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

Agency Version Date: 12/23/2024
Agency Update Frequency: Varies
Planned Next Contact: 09/09/2025
Agency: USGS Mineral Resources Program
Agency Contact: (703) 648-5953
Most Recent Contact: 06/13/2025

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

Agency Version Date: 12/23/2024
Agency Update Frequency: Varies
Planned Next Contact: 09/09/2025
Agency: USGS Mineral Resources Program
Agency Contact: (703) 648-5953
Most Recent Contact: 06/13/2025

MINES: Mines Master Index Files

Agency Version Date: 11/08/2024
Agency Update Frequency: Varies
Planned Next Contact: 07/28/2025
Agency: Department of Labor
Agency Contact: (202) 693-9400
Most Recent Contact: 05/01/2025

ASBESTOS NOA: USGS Asbestos mines, prospects, and natural occurrences (2011).

Agency Version Date: 02/07/2025
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 07/31/2025
Agency: USGS Mineral Resources Program
Agency Contact: N/R
Most Recent Contact: 05/06/2025

HIST ASBESTOS NOA: USGS Asbestos mines, prospects, and natural occurrences (2007).

Agency Version Date: 02/07/2025
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 07/31/2025
Agency: USGS ScienceBased catalog
Agency Contact: N/R
Most Recent Contact: 05/06/2025

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

Agency Version Date: 06/14/2023
Agency Update Frequency: Monthly
Planned Next Contact: 08/04/2025
Agency: Environmental Protection Agency
Agency Contact: (202) 564-2534
Most Recent Contact: 05/08/2025

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

Agency Version Date: 09/24/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 09/08/2025
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 06/12/2025

ADDITIONAL ENVIRONMENTAL RECORDS *(cont.)*

OTHER ASCERTAINABLE RECORDS (cont.)

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

Agency Version Date: 10/29/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 07/16/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: (202) 564-2307
Most Recent Contact: 04/21/2025

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 Update Frequency: Varies
Planned Next Contact: 08/15/2025
Agency: Environmental Protection Agency
Agency Contact: N/R
Most Recent Contact: 05/21/2025

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

Agency Version Date: 11/07/2024
Agency Update Frequency: Varies
Planned Next Contact: 07/25/2025
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 04/30/2025

SSTS: Tracking of facilities who produce pesticides and their quantity

Agency Version Date: 10/22/2024
Agency Update Frequency: Annually
Planned Next Contact: 07/09/2025
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 04/14/2025

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 Update Frequency: Annually
Planned Next Contact: 09/01/2025
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 06/05/2025

EJ TOXIC RELEASE: Toxic release inventory from Environmental Justice.

Agency Version Date: 10/29/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 07/16/2025
Agency: ejscreen.epa.gov
Agency Contact: (800) 962-6215
Most Recent Contact: 04/21/2025

FA HWF: Hazardous Waste Facilities with Financial Assurance

Agency Version Date: 11/15/2024
Agency Update Frequency: Varies
Planned Next Contact: 08/04/2025
Agency: Environmental Protection Agency
Agency Contact: (800) 424-9346
Most Recent Contact: 05/08/2025

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

Agency Version Date: 12/09/2024
Agency Update Frequency: Varies
Planned Next Contact: 08/26/2025
Agency: Environmental Protection Agency
Agency Contact: (703) 308-8404
Most Recent Contact: 05/30/2025

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: 11/07/2024
Agency Update Frequency: Varies
Planned Next Contact: 07/25/2025
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 04/30/2025

ADDITIONAL ENVIRONMENTAL RECORDS *(cont.)*

OTHER ASCERTAINABLE RECORDS (cont.)

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

Agency Version Date: 04/06/2013
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 07/30/2025
Agency: Environmental Protection Agency
Agency Contact: (202) 564-2280
Most Recent Contact: 05/05/2025

FTTS INSP: Tracking of inspections related to FIFRA/TSCA

Agency Version Date: 05/08/2017
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 07/23/2025
Agency: Environmental Protection Agency
Agency Contact: (202) 564-2280
Most Recent Contact: 04/28/2025

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

Agency Version Date: 09/09/2024
Agency Update Frequency: Varies
Planned Next Contact: 08/21/2025
Agency: Nuclear Regulatory Commission
Agency Contact: (800) 397-4209
Most Recent Contact: 05/27/2025

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: 08/08/2025
Agency: Nuclear Regulatory Commission
Agency Contact: (800) 397-4209
Most Recent Contact: 05/14/2025

RADINFO: EPA regulated facilities with radiation and radioactive materials

Agency Version Date: 08/01/2019
Agency Update Frequency: Varies
Planned Next Contact: 08/05/2025
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 05/09/2025

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

Agency Version Date: 07/02/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 09/09/2025
Agency: Environmental Protection Agency
Agency Contact: (703) 308-8404
Most Recent Contact: 06/13/2025

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: 08/28/2025
Agency: Environmental Protection Agency
Agency Contact: (703) 308-8404
Most Recent Contact: 06/03/2025

DOT OPS: Incident Data Report

Agency Version Date: 10/02/2024
Agency Update Frequency: Varies
Planned Next Contact: 06/19/2025
Agency: U.S. Department of Transportation
Agency Contact: (202) 366-4996
Most Recent Contact: 03/25/2025

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: 02/19/2025
Agency Update Frequency: Quarterly
Planned Next Contact: 08/13/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 05/19/2025

ADDITIONAL ENVIRONMENTAL RECORDS *(cont.)*

OTHER ASCERTAINABLE RECORDS (cont.)

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: 07/30/2025
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 05/05/2025

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

Agency Version Date: 08/22/2023
Agency Update Frequency: Varies
Planned Next Contact: 07/16/2025
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 04/21/2025

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: 12/16/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 09/03/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: (202) 564-2307
Most Recent Contact: 06/09/2025

AFS: Air Facility Systems Quarterly Extract

Agency Version Date: 09/13/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 08/27/2025
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 06/02/2025

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

Agency Version Date: 06/19/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 07/11/2025
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 04/16/2025

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: 08/14/2025
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 05/20/2025

FRS: Facility Registry Systems

Agency Version Date: 09/23/2024
Agency Update Frequency: Varies
Planned Next Contact: 09/04/2025
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 06/10/2025

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: 11/05/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 07/23/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-1667
Most Recent Contact: 04/28/2025

DOCKET CRIM PROS 2: Criminal affirmative cases filed by the United States involving CAA CWA CERCLA EPCRA FIFRA MPRSA RCRA & TSCA.

Agency Version Date: 06/06/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 07/25/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-1744
Most Recent Contact: 04/30/2025

ADDITIONAL ENVIRONMENTAL RECORDS *(cont.)*

OTHER ASCERTAINABLE RECORDS (cont.)

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

Agency Version Date: 11/07/2024
Agency Update Frequency: Varies
Planned Next Contact: 07/25/2025
Agency: Environmental Protection Agency
Agency Contact: (202) 564-6582
Most Recent Contact: 04/30/2025

INACTIVE PCS: Inactive Permitted facilities to discharge wastewater

Agency Version Date: 11/07/2024
Agency Update Frequency: Varies
Planned Next Contact: 07/25/2025
Agency: Environmental Protection Agency
Agency Contact: (202) 564-6582
Most Recent Contact: 04/30/2025

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

Agency Version Date: 11/07/2024
Agency Update Frequency: Varies
Planned Next Contact: 07/25/2025
Agency: Environmental Protection Agency
Agency Contact: (202) 564-6582
Most Recent Contact: 04/30/2025

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: 06/17/2025
Agency: Environmental Protection Agency
Agency Contact: (202) 564-6582
Most Recent Contact: 03/21/2025

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 Update Frequency: Annually
Planned Next Contact: 06/17/2025
Agency: Environmental Protection Agency
Agency Contact: (202) 564-6582
Most Recent Contact: 03/21/2025

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 Update Frequency: Quarterly
Planned Next Contact: 07/08/2025
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 04/11/2025

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

Agency Version Date: 12/16/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 09/03/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: (202) 564-2307
Most Recent Contact: 06/09/2025

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

Agency Version Date: 05/16/2024
Agency Update Frequency: Varies
Planned Next Contact: 07/25/2025
Agency: Occupational Safety & Health Administration
Agency Contact: 800-321-6742
Most Recent Contact: 04/30/2025

STORMWATER: Permitted storm water sites

Agency Version Date: 10/31/2024
Agency Update Frequency: Varies
Planned Next Contact: 07/18/2025
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 04/23/2025

ADDITIONAL ENVIRONMENTAL RECORDS *(cont.)*

OTHER ASCERTAINABLE RECORDS (cont.)

SECONDARY SITES - KY: The sites are categorized as secondary sites by the Kentucky Cabinet for Economic Development

Agency Version Date: 07/03/2023
Agency Update Frequency: Varies
Planned Next Contact: 08/21/2025
Agency: Kentucky Cabinet for Economic Development
Agency Contact: 502-564-0323
Most Recent Contact: 05/27/2025

PFAS - KY: List of PFAS sites and areas of interest

Agency Version Date: 10/30/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 07/17/2025
Agency: Energy and Environment Cabinet
Agency Contact: N/R
Most Recent Contact: 04/22/2025

DRYCLEANERS - KY: Drycleaner listings

Agency Version Date: 10/29/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 07/16/2025
Agency: Department of Environmental Protection
Agency Contact: (502) 564-6716
Most Recent Contact: 04/21/2025

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: 07/11/2025
Agency: Department of Environmental Protection
Agency Contact: (502) 564-6716
Most Recent Contact: 04/16/2025

COAL MINES - KY: MMIS Coal Mine Data and Locations

Agency Version Date: 10/21/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 07/08/2025
Agency: Kentucky Mine Mapping Information System
Agency Contact: N/R
Most Recent Contact: 04/11/2025

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

Agency Version Date: 10/02/2024
Agency Update Frequency: Varies
Planned Next Contact: 06/19/2025
Agency: Department of Environmental Protection
Agency Contact: (502) 564-6716
Most Recent Contact: 03/25/2025

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

Agency Version Date: 12/03/2024
Agency Update Frequency: Varies
Planned Next Contact: 08/20/2025
Agency: Department of Environmental Protection
Agency Contact: (502) 564-6716
Most Recent Contact: 05/26/2025

LEAD - KY: Lead Program Report

Agency Version Date: 04/15/2015
Agency Update Frequency: Varies
Planned Next Contact: 07/10/2025
Agency: Kentucky Environmental Lead Program
Agency Contact: (502) 564-4537
Most Recent Contact: 04/15/2025

RANKING LIST - KY: UST sites eligible for reimbursement from the Financial Responsibility Account & Petroleum Storage Tank Account

Agency Version Date: 09/10/2024
Agency Update Frequency: Monthly
Planned Next Contact: 08/22/2025
Agency: Department of Environmental Protection
Agency Contact: (502) 564-5981
Most Recent Contact: 05/28/2025

ADDITIONAL ENVIRONMENTAL RECORDS *(cont.)*

OTHER ASCERTAINABLE RECORDS (cont.)

AIRS - KY: Listing of facilities with air permits

Agency Version Date: 09/16/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 08/28/2025
Agency: Kentucky Department of Environmental Protection
Agency Contact: 502-564-3999
Most Recent Contact: 06/03/2025

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

Agency Version Date: 12/16/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 07/31/2025
Agency: Kentucky Department of Environmental Protection
Agency Contact: 502-564-3999
Most Recent Contact: 05/06/2025

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: 06/23/2025
Agency: Department of Environmental Protection
Agency Contact: 502-564-3410
Most Recent Contact: 03/27/2025

NPDES - KY: Listing of facilities with wastewater and NPDES permits

Agency Version Date: 01/06/2025
Agency Update Frequency: Quarterly
Planned Next Contact: 06/27/2025
Agency: Department of Environmental Protection
Agency Contact: 502-564-3410
Most Recent Contact: 04/02/2025

UIC - KY: Underground injection control listing

Agency Version Date: 10/17/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 07/04/2025
Agency: Kentucky Geological Survey
Agency Contact: N/R
Most Recent Contact: 04/09/2025

ARENAS: List of Arenas and Sport Venues

Agency Version Date: 04/11/2024
Agency Update Frequency: Varies
Planned Next Contact: 06/19/2025
Agency: DHS Homeland Infrastructure Foundation
Agency Contact: N/R
Most Recent Contact: 03/25/2025

ARENAS 2: List of Convention Centers and Fairgrounds

Agency Version Date: 04/09/2024
Agency Update Frequency: Varies
Planned Next Contact: 06/17/2025
Agency: DHS Homeland Infrastructure Foundation
Agency Contact: N/R
Most Recent Contact: 03/21/2025

CHURCHES: List of places of worship

Agency Version Date: 04/15/2024
Agency Update Frequency: Varies
Planned Next Contact: 06/23/2025
Agency: DHS Homeland Infrastructure Foundation
Agency Contact: N/R
Most Recent Contact: 03/27/2025

HOSPITALS: List of major Hospitals

Agency Version Date: 06/10/2024
Agency Update Frequency: Varies
Planned Next Contact: 08/19/2025
Agency: DHS Homeland Infrastructure Foundation
Agency Contact: N/R
Most Recent Contact: 05/23/2025

NURSING HOMES: List of Nursing Homes

Agency Version Date: 06/07/2024
Agency Update Frequency: Varies
Planned Next Contact: 08/15/2025
Agency: DHS Homeland Infrastructure Foundation
Agency Contact: N/R
Most Recent Contact: 05/21/2025

ADDITIONAL ENVIRONMENTAL RECORDS *(cont.)*

OTHER ASCERTAINABLE RECORDS (cont.)

GOV MANSIONS: List of Governors Mansions

Agency Version Date: 04/11/2024
Agency Update Frequency: Varies
Planned Next Contact: 06/19/2025
Agency: DHS Homeland Infrastructure Foundation
Agency Contact: N/R
Most Recent Contact: 03/25/2025

SCHOOLS PRIVATE: List of Private Schools

Agency Version Date: 06/10/2024
Agency Update Frequency: Varies
Planned Next Contact: 08/19/2025
Agency: DHS Homeland Infrastructure Foundation
Agency Contact: N/R
Most Recent Contact: 05/23/2025

SCHOOLS PUBLIC: List of Public Schools

Agency Version Date: 06/10/2024
Agency Update Frequency: Varies
Planned Next Contact: 08/19/2025
Agency: DHS Homeland Infrastructure Foundation
Agency Contact: N/R
Most Recent Contact: 05/23/2025

COLLEGES: List of major Universities & Colleges

Agency Version Date: 03/14/2024
Agency Update Frequency: Varies
Planned Next Contact: 08/19/2025
Agency: DHS Homeland Infrastructure Foundation
Agency Contact: N/R
Most Recent Contact: 05/23/2025

COLLEGES 2: List of Universities & Colleges

Agency Version Date: 03/20/2024
Agency Update Frequency: Varies
Planned Next Contact: 08/22/2025
Agency: DHS Homeland Infrastructure Foundation
Agency Contact: N/R
Most Recent Contact: 05/28/2025

PRISONS: List of Prison facilities

Agency Version Date: 05/03/2024
Agency Update Frequency: Varies
Planned Next Contact: 07/11/2025
Agency: DHS Homeland Infrastructure Foundation
Agency Contact: N/R
Most Recent Contact: 04/16/2025

EJ CHURCH: List of places of worship from Environmental Justice.

Agency Version Date: 10/29/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 07/16/2025
Agency: ejscreen.epa.gov
Agency Contact: (800) 962-6215
Most Recent Contact: 04/21/2025

EJ SCHOOLS: Schools list from Environmental Justice.

Agency Version Date: 10/29/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 07/16/2025
Agency: ejscreen.epa.gov
Agency Contact: (800) 962-6215
Most Recent Contact: 04/21/2025

EJ HOSPITALS: Hospitals list from Environmental Justice.

Agency Version Date: 10/29/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 07/16/2025
Agency: ejscreen.epa.gov
Agency Contact: (800) 962-6215
Most Recent Contact: 04/21/2025

DAYCARE: List of Daycare facilities

Agency Version Date: 02/24/2025
Agency Update Frequency: Varies
Planned Next Contact: 08/15/2025
Agency: DHS Homeland Infrastructure Foundation
Agency Contact: N/R
Most Recent Contact: 05/21/2025

ADDITIONAL ENVIRONMENTAL RECORDS *(cont.)*

OTHER ASCERTAINABLE RECORDS (cont.)

DAYCARE - KY: Child Care Facilities

Agency Version Date: 12/09/2024
Agency Update Frequency: Varies
Planned Next Contact: 08/26/2025
Agency: Cabinet for Health and Family Services
Agency Contact: (502) 564-2524
Most Recent Contact: 05/30/2025

LOCAL BROWNFIELD LISTS

FED BROWNFIELDS: Federal brownfield remediation sites

Agency Version Date: 12/05/2024
Agency Update Frequency: Semi Annually
Planned Next Contact: 08/22/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 05/28/2025

HIST FED BROWNFIELDS: Historical federal brownfield remediation sites

Agency Version Date: 09/28/2023
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 08/22/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 05/28/2025

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

Agency Version Date: 07/30/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 07/11/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 04/16/2025

EJ BROWNFIELDS: Brownfield remediation sites listing from Environmental Justice.

Agency Version Date: 10/29/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 07/16/2025
Agency: ejscreen.epa.gov
Agency Contact: (800) 962-6215
Most Recent Contact: 04/21/2025

LOCAL LISTS OF LANDFILL / SOLID WASTE DISPOSAL SITES

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

Agency Version Date: 11/07/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 07/25/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 04/30/2025

ODI: Open dump inventory sites

Agency Version Date: 10/03/2017
Agency Update Frequency: No Update
Planned Next Contact: 09/09/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 06/13/2025

SWRCY - KY: Recycling Facilities

Agency Version Date: 07/19/2021
Agency Update Frequency: Varies
Planned Next Contact: 08/08/2025
Agency: Department of Environmental Protection
Agency Contact: (502) 564-6716
Most Recent Contact: 05/12/2025

TRIBAL ODI: Indian land open dump inventory for all regions

Agency Version Date: 01/02/2025
Agency Update Frequency: Varies
Planned Next Contact: 06/25/2025
Agency: Indian Health Service
Agency Contact: 301-443-3593
Most Recent Contact: 03/31/2025

ADDITIONAL ENVIRONMENTAL RECORDS *(cont.)*

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

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

Agency Version Date: 05/10/2024
Agency Update Frequency: Varies
Planned Next Contact: 07/18/2025
Agency: Indian Health Service
Agency Contact: 855-246-3642
Most Recent Contact: 04/23/2025

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: 08/04/2025
Agency: Indian Health Service
Agency Contact: 855-246-3642
Most Recent Contact: 05/08/2025

LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES

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

Agency Version Date: 11/25/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 08/12/2025
Agency: U.S. Department of Justice
Agency Contact: 202-307-7610
Most Recent Contact: 05/16/2025

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: 06/18/2025
Agency: U.S. Department of Justice
Agency Contact: 202-307-7610
Most Recent Contact: 03/24/2025

CDL - KY: Methamphetamine Contaminated Properties

Agency Version Date: 01/21/2025
Agency Update Frequency: Varies
Planned Next Contact: 07/14/2025
Agency: Department of Environmental Protection
Agency Contact: (502) 564-6716
Most Recent Contact: 04/17/2025

CDL LOUISVILLE - KY: Listing of clandestine drug lab locations

Agency Version Date: 06/26/2023
Agency Update Frequency: Varies
Planned Next Contact: 08/14/2025
Agency: Kentucky Department of Environmental Protection
Agency Contact: 502-574-7111
Most Recent Contact: 05/20/2025

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: 07/17/2025
Agency: U.S. Environmental Protection Agency
Agency Contact: 800-424-9346
Most Recent Contact: 04/22/2025

RECORDS OF EMERGENCY RELEASE REPORTS

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

Agency Version Date: 10/31/2024
Agency Update Frequency: Varies
Planned Next Contact: 07/18/2025
Agency: U.S. Department of Transportation
Agency Contact: (202) 366-4996
Most Recent Contact: 04/23/2025

SUBJECT PROPERTY ADDRESS:

Crab Run Solar Project

Loretto, KY 40037

SUBJECT PROPERTY COORDINATES:

Latitude(North):	37.607652 - 37°36'27.5"
Longitude(West):	-85.366814 - -85°22'0.5"
Universal Transverse Mercator:	Zone 16N
UTM X (Meters):	644155.00
UTM Y (Meters):	4163538.62
State Plane Coordinates:	1602 - Kentucky South (US Survey Feet)
X Coordinate (Feet):	1751417.651 E
Y Coordinate (Feet):	2104611.296 N

ELEVATION:

Elevation:	733 ft. above sea level

USGS TOPOGRAPHIC MAP:

Subject Property Map:	37085-E3 Lebanon West, KY
Most Recent Revision:	2019
Subject Property Map:	37085-E4 Raywick, KY
Most Recent Revision:	2019

GEOHYDROLOGY DATA:

SUBJECT PROPERTY TOPOGRAPHY:

Topographic Gradient: East

DFIRM FLOOD ZONE:

	DFIRM Flood
Subject Property County:	Electronic Data:
MARION	Yes - refer to the PROPERTY PROXIMITY MAP and AREA MAP
Flood Plain Panel at Subject Property:	21155C0135D (Eff. date 5/23/2023) 21179C0400D (Eff. date 5/24/2011) 21155C0175D (Eff. date 5/23/2023) 21123C0200D (Eff. date 5/23/2023)
Additional Panels in search area:	21155C0050D (Eff. date 5/23/2023) 21155C0025D (Eff. date 5/23/2023) 21229C0200D (Eff. date 5/23/2023) 21179C0300E (Eff. date 5/23/2023) 21229C0175D (Eff. date 5/23/2023)

FEMA FLOOD ZONE:

	FEMA Flood
Subject Property County:	Electronic Data:
MARION	Yes - refer to the PROPERTY PROXIMITY MAP and AREA MAP
Flood Plain Panel at Subject Property:	2101600050B 2101600025B
Additional Panels in search area:	2101600100B

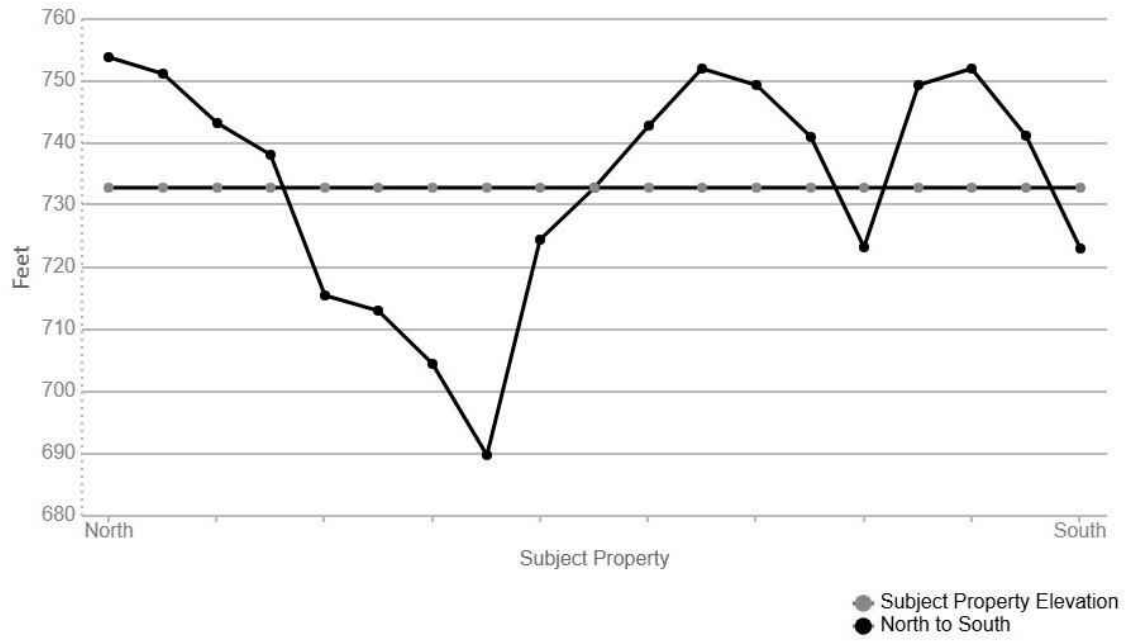
NATIONAL WETLAND INVENTORY:

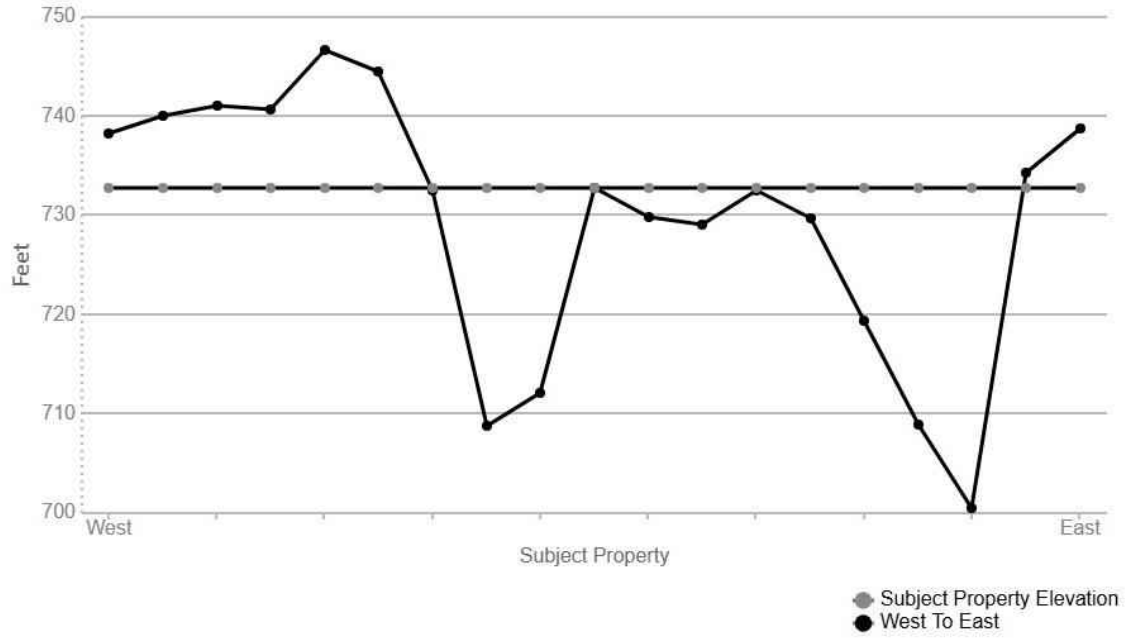
	NWI Electronic
NWI Quad at Subject Property:	Data Coverage:
Lebanon West	Yes - refer to the Geological Findings Map

LITHOSTRATIGRAPHIC INFORMATION:

ROCK STRATIGRAPHIC UNIT:		GEOLOGIC AGE IDENTIFICATION
Era:	Paleozoic	Category: 123 O3 Upper Ordovician (Cincinnatian)
System:	Ordovician	
Series:	Upper Ordovician (Cincinnatian)	
Code:	O3	

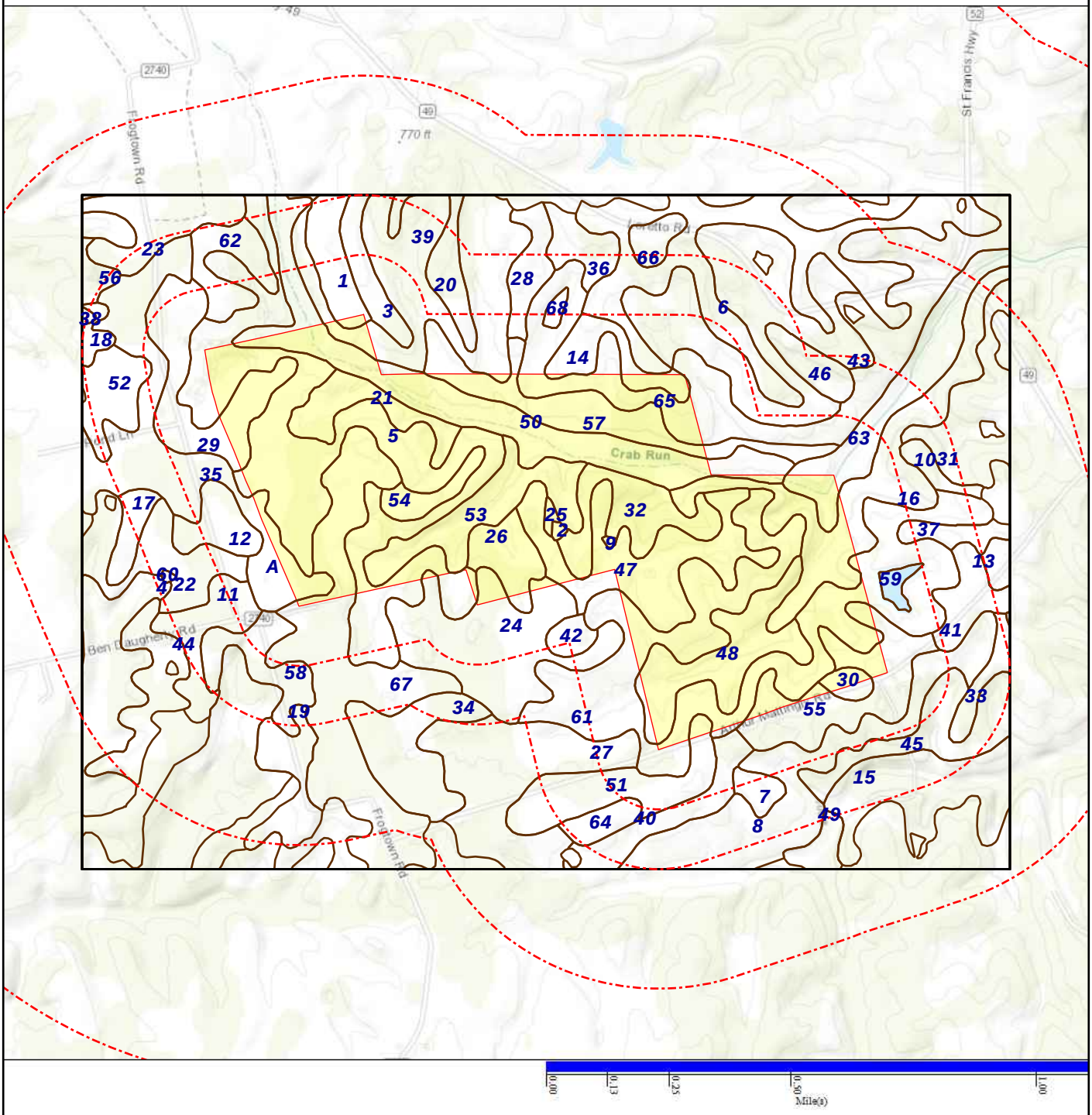
SURROUNDING ELEVATION PROFILES:





SUBJECT NAME: Crab Run Solar Project
ADDRESS: Loretto, KY, 40037
LAT/LONG: 37.607652 / -85.366814

PREPARED FOR: Environmental Consulting & Technology...
ORDER #: 108906
REPORT DATE: June 12, 2025



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	Nicholson,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).	4-14	4.5-6.5
2	20-71	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	71-96	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,	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and	0.42-1.4	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	71-96	Silty clay loam	1984.	the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.4	4.5-6.5
4	96-127	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	5.1-7.8
5	127-203	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	5.1-7.8

SOIL MAP ID 2	**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 3	SSURGO
USDA Soil Name	Sandview,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
2	20-89	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).	4.23-14.11	4.5-7.3
3	89-193	Silty clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size 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	5.1-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	89-193	Silty clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is 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	5.1-7.8
4	193-218		No data	No data	0-0	0-0

SOIL MAP ID 4 **SSURGO**

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

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	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).	4.23-14.11	5.1-7.8
2	10-86	Clay	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 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction	0.42-4.23	5.1-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	10-86	Clay	and airfield 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).	0.42-4.23	5.1-7.8
3	86-111		No data	No data	0-0	0-0

SOIL MAP ID 5 **SSURGO**

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

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	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).	4.23-14.11	4.5-7.3
2	13-91	Silty clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. 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	4.5-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	13-91	Silty clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is 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	4.5-7.3
3	91-137	Clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	6.6-8.4
4	137-152		No data	No data	0-0	0-0

SOIL MAP ID 6 **SSURGO**

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

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-18	Silt loam	Silt-Clay materials (more than 35% passing 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	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	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	4.5-7.3
2	18-74	Silty clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.1-1	4.5-7.3
3	74-127	Silty clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.1-1	6.6-8.4
4	127-152		No data	No data	0-1.41	0-0

SOIL MAP ID 7	SSURGO
USDA Soil Name	Lowell,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
2	20-104	Silty clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	4.5-7.3
3	104-135	Silty clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	5.1-7.8
4	135-160		No data	No data	0-4.2	0-0

SOIL MAP ID 8	SSURGO
USDA Soil Name	Lowell,Series
USDA Soil Texture	Silty clay loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	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).	4.23-14.11	4.5-6.5
2	13-86	Silty clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	4.5-6.5
3	86-122	Clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size 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	5.1-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	86-122	Clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is 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	5.1-7.8
4	122-147		No data	No data	0-0	0-0

SOIL MAP ID 9 **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 10 **SSURGO**

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

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	4.23-14.11	5.1-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is 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	5.1-7.3
2	20-104	Silty clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	4.5-7.3
3	104-135	Silty clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	5.1-7.8
4	135-160		No data	No data	0-4.2	0-0

SOIL MAP ID 11	SSURGO
USDA Soil Name	Tilsit,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	0-20	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-5.5
2	20-69	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-5.5
3	69-107	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	0.42-1.41	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	69-107	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).	0.42-1.41	3.6-5.5
4	107-127	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	3.6-5.5
5	127-135		No data	No data	0-0	0-0
6	135-160		No data	No data	0-0	0-0

SOIL MAP ID 12	SSURGO
USDA Soil Name	Tilsit,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	0-20	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-5.5
2	20-69	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-5.5
3	69-107	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).	0.42-1.41	3.6-5.5
4	107-127	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.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	0.42-4.23	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	107-127	Silty clay loam	of State Highway and Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4.23	3.6-5.5
5	127-135		No data	No data	0-0	0-0
6	135-160		No data	No data	0-0	0-0

SOIL MAP ID 13 **SSURGO**

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

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	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).	4.23-14.11	4.5-6.5
2	13-86	Silty clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and	1.41-14.11	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	13-86	Silty clay	Transportation Officials, 1984.	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	4.5-6.5
3	86-122	Clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	5.1-7.8
4	122-147		No data	No data	0-0	0-0

SOIL MAP ID 14 **SSURGO**

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

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

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	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
2	20-89	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).	4.23-14.11	4.5-7.3
3	89-193	Silty clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	5.1-7.8
4	193-218		No data	No data	0-0	0-0

SOIL MAP ID 15	SSURGO
USDA Soil Name	Faywood,Series
USDA Soil Texture	Silty clay loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	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).	4.23-14.11	5.1-7.8
2	10-86	Clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	5.1-7.8
3	86-111		No data	No data	0-0	0-0

SOIL MAP ID 16	SSURGO
USDA Soil Name	Faywood,Series
USDA Soil Texture	Silty clay loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	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).	4.23-14.11	5.1-7.8
2	10-86	Clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	5.1-7.8
3	86-111		No data	No data	0-0	0-0

SOIL MAP ID 17	SSURGO
USDA Soil Name	Tilsit,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	0-20	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-5.5
2	20-69	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-5.5
3	69-107	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	0.42-1.41	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	69-107	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).	0.42-1.41	3.6-5.5
4	107-127	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	3.6-5.5
5	127-135		No data	No data	0-0	0-0
6	135-160		No data	No data	0-0	0-0

SOIL MAP ID 18	SSURGO
USDA Soil Name	Lowell,Series
USDA Soil Texture	Silty clay
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silty clay	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity 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	10-71	Silty clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	4.5-6.5
3	71-107	Clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	5.1-7.8
4	107-132		No data	No data	0-0	0-0

SOIL MAP ID 19	SSURGO
USDA Soil Name	Beasley,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-18	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	4.5-7.3
2	18-74	Silty clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.1-1	4.5-7.3
3	74-127	Silty clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.1-1	6.6-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	74-127	Silty clay	Reference: This is 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).	0.1-1	6.6-8.4
4	127-152		No data	No data	0-1.41	0-0

SOIL MAP ID 20 **SSURGO**

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

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
2	20-89	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	FINE-GRAINED 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	4.5-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	20-89	Silty clay 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	4.5-7.3
3	89-193	Silty clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	5.1-7.8
4	193-218		No data	No data	0-0	0-0

SOIL MAP ID 21 **SSURGO**

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

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	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	4.23-14.11	5.1-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	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.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.8
2	10-86	Clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	5.1-7.8
3	86-111		No data	No data	0-0	0-0

SOIL MAP ID 22 **SSURGO**

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

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	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.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less 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	0-13	Silty clay loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	13-91	Silty clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	4.5-7.3
3	91-137	Clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	6.6-8.4
4	137-152		No data	No data	0-0	0-0

SOIL MAP ID 23	**SSURGO**
USDA Soil Name	Nicholson,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).	4-14	4.5-6.5
2	20-71	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	71-96	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).	0.42-1.4	4.5-6.5
4	96-127	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	0.42-4	5.1-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	96-127	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4	5.1-7.8
5	127-203	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	5.1-7.8

SOIL MAP ID 24 **SSURGO**

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

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-18	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on 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	4.5-7.3

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) clayey soils. Reference: This is 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	4.5-7.3
2	18-81	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
3	81-203	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	4.5-6

SOIL MAP ID 25	SSURGO
USDA Soil Name	Lowell,Series
USDA Soil Texture	Silty clay loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	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).	4.23-14.11	4.5-6.5
2	13-86	Silty clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	4.5-6.5
3	86-122	Clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size 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	5.1-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	86-122	Clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is 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	5.1-7.8
4	122-147		No data	No data	0-0	0-0

SOIL MAP ID 26 **SSURGO**

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

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	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).	4.23-14.11	4.5-6.5
2	13-86	Silty clay	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 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction	1.41-14.11	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	13-86	Silty clay	and airfield 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).	1.41-14.11	4.5-6.5
3	86-122	Clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	5.1-7.8
4	122-147		No data	No data	0-0	0-0

SOIL MAP ID 27 **SSURGO**

USDA Soil Name	Tilsit,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	0-20	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	4.23-14.11	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-5.5
2	20-69	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-5.5
3	69-107	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).	0.42-1.41	3.6-5.5
4	107-127	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	0.42-4.23	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	107-127	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.	organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4.23	3.6-5.5
5	127-135		No data	No data	0-0	0-0
6	135-160		No data	No data	0-0	0-0

SOIL MAP ID 28 **SSURGO**

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

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
2	20-89	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	FINE-GRAINED 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	4.5-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	20-89	Silty clay 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	4.5-7.3
3	89-193	Silty clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	5.1-7.8
4	193-218		No data	No data	0-0	0-0

SOIL MAP ID 29 **SSURGO**

USDA Soil Name	Tilsit,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	0-20	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	4.23-14.11	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-5.5
2	20-69	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-5.5
3	69-107	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).	0.42-1.41	3.6-5.5
4	107-127	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	0.42-4.23	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	107-127	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.	organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4.23	3.6-5.5
5	127-135		No data	No data	0-0	0-0
6	135-160		No data	No data	0-0	0-0

SOIL MAP ID 30 **SSURGO**

USDA Soil Name	Nicholson,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).	4-14	4.5-6.5
2	20-71	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	20-71	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).	4-14	4.5-6.5
3	71-96	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).	0.42-1.4	4.5-6.5
4	96-127	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	5.1-7.8
5	127-203	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	5.1-7.8

SOIL MAP ID 31	SSURGO
USDA Soil Name	Faywood,Series
USDA Soil Texture	Silty clay loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	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).	4.23-14.11	5.1-7.8
2	10-86	Clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	5.1-7.8
3	86-111		No data	No data	0-0	0-0

SOIL MAP ID 32	SSURGO
USDA Soil Name	Lowell,Series
USDA Soil Texture	Silty clay loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	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).	4.23-14.11	4.5-6.5
2	13-86	Silty clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	4.5-6.5
3	86-122	Clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size 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	5.1-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	86-122	Clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is 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	5.1-7.8
4	122-147		No data	No data	0-0	0-0

SOIL MAP ID 33 **SSURGO**

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

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
2	20-104	Silty clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction	0.42-4.23	4.5-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	20-104	Silty clay	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).	0.42-4.23	4.5-7.3
3	104-135	Silty clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	5.1-7.8
4	135-160		No data	No data	0-4.2	0-0

SOIL MAP ID 34 **SSURGO**

USDA Soil Name	Lawrence,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	4
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	4.23-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	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.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	4.5-6.5
2	20-51	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	4.5-6.5
3	51-122	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.23-1.41	4.5-5.5
4	122-137	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	0.42-4.23	4.5-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	122-137	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4.23	4.5-7.3
5	137-203	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4.23	4.5-7.3

SOIL MAP ID 35 **SSURGO**

USDA Soil Name	Lawrence,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	4
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	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. 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	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	4.5-6.5
2	20-51	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	4.5-6.5
3	51-122	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.23-1.41	4.5-5.5
4	122-137	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM,	0.42-4.23	4.5-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	122-137	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	1984).	0.42-4.23	4.5-7.3
5	137-203	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4.23	4.5-7.3

SOIL MAP ID 36 **SSURGO**

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

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	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	FINE-GRAINED 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	4.5-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	Silty clay 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	4.5-7.3
2	13-91	Silty clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	4.5-7.3
3	91-137	Clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	6.6-8.4
4	137-152		No data	No data	0-0	0-0

SOIL MAP ID 37	SSURGO
USDA Soil Name	Lowell,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
2	20-104	Silty clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	4.5-7.3
3	104-135	Silty clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	5.1-7.8
4	135-160		No data	No data	0-4.2	0-0

SOIL MAP ID 38	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 39	SSURGO
USDA Soil Name	Lowell,Series
USDA Soil Texture	Silty clay loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	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).	4.23-14.11	4.5-6.5
2	13-86	Silty clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	4.5-6.5
3	86-122	Clay	Silt-Clay materials (more than 35%	FINE-GRAINED SOILS, Silts and clays (liquid	1.41-4.23	5.1-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	86-122	Clay	passing No. 200), clayey soils. Reference: This is 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 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	5.1-7.8
4	122-147		No data	No data	0-0	0-0

SOIL MAP ID 40 **SSURGO**

USDA Soil Name	Nicholson,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).	4-14	4.5-6.5
2	20-71	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent	4-14	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	20-71	Silt loam	M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	71-96	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).	0.42-1.4	4.5-6.5
4	96-127	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	5.1-7.8
5	127-203	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	5.1-7.8

SOIL MAP ID 41	SSURGO
USDA Soil Name	Nicholson,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).	4-14	4.5-6.5
2	20-71	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	71-96	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	0.42-1.4	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	71-96	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).	0.42-1.4	4.5-6.5
4	96-127	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	5.1-7.8
5	127-203	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	5.1-7.8

SOIL MAP ID 42	SSURGO
USDA Soil Name	Robertsville,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Poorly drained
Hydric Classification	85
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	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).	4-14	3.6-5.5
2	15-53	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	3.6-5.5
3	53-114	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	0.42-1.4	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	53-114	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).	0.42-1.4	3.6-5.5
4	114-165	Silty clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-4	4.5-7.3

SOIL MAP ID 43 **SSURGO**

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

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	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.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less 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	0-13	Silty clay loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	13-91	Silty clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	4.5-7.3
3	91-137	Clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	6.6-8.4
4	137-152		No data	No data	0-0	0-0

SOIL MAP ID 44	SSURGO
USDA Soil Name	Lowell,Series
USDA Soil Texture	Silty clay loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	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).	4.23-14.11	4.5-6.5
2	13-86	Silty clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	4.5-6.5
3	86-122	Clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	5.1-7.8
4	122-147		No data	No data	0-0	0-0

SOIL MAP ID 45	SSURGO
USDA Soil Name	Faywood,Series
USDA Soil Texture	Silty clay loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	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).	4.23-14.11	5.1-7.8
2	10-86	Clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	5.1-7.8
3	86-111		No data	No data	0-0	0-0

SOIL MAP ID 46	SSURGO
USDA Soil Name	Lowell,Series
USDA Soil Texture	Silty clay loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	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).	4.23-14.11	4.5-6.5
2	13-86	Silty clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	4.5-6.5
3	86-122	Clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size 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	5.1-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	86-122	Clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is 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	5.1-7.8
4	122-147		No data	No data	0-0	0-0

SOIL MAP ID 47 **SSURGO**

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

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
2	20-89	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	FINE-GRAINED 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	4.5-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	20-89	Silty clay 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	4.5-7.3
3	89-193	Silty clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	5.1-7.8
4	193-218		No data	No data	0-0	0-0

SOIL MAP ID 48 **SSURGO**

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

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	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	4.23-14.11	5.1-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	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.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.8
2	10-86	Clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	5.1-7.8
3	86-111		No data	No data	0-0	0-0

SOIL MAP ID 49 **SSURGO**

USDA Soil Name	Newark,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/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	5.6-7.8

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	5.6-7.8
2	20-140	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
3	140-203	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).	4.23-14.11	5.6-7.8

SOIL MAP ID 50	SSURGO
USDA Soil Name	Newark,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/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	5.6-7.8
2	20-140	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.6-7.8
3	140-203	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).	4.23-14.11	5.6-7.8

SOIL MAP ID 51	SSURGO
USDA Soil Name	Greenbriar,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-18	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	3.6-5.5
2	18-130	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).	4.23-14.11	3.6-5.5
3	130-142	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	4.23-14.11	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	130-142	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).	4.23-14.11	3.6-5.5
4	142-150		No data	No data	0-0	0-0
5	150-175		No data	No data	0-0	0-0

SOIL MAP ID 52 **SSURGO**

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

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	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).	4-14	3.6-5.5
2	15-53	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	4-14	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	15-53	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).	4-14	3.6-5.5
3	53-114	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).	0.42-1.4	3.6-5.5
4	114-165	Silty clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-4	4.5-7.3

SOIL MAP ID 53	**SSURGO**
USDA Soil Name	Faywood,Series
USDA Soil Texture	Silty clay loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	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).	4.23-14.11	5.1-7.8
2	10-86	Clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	5.1-7.8
3	86-111		No data	No data	0-0	0-0

SOIL MAP ID 54	SSURGO
USDA Soil Name	Crider,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-18	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity 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	18-81	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
3	81-203	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	4.5-6

SOIL MAP ID 55	SSURGO
USDA Soil Name	Sandview,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
2	20-89	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).	4.23-14.11	4.5-7.3
3	89-193	Silty clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size 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	5.1-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	89-193	Silty clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is 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	5.1-7.8
4	193-218		No data	No data	0-0	0-0

SOIL MAP ID 56 **SSURGO**

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

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	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).	4.23-14.11	4.5-7.3
2	13-91	Silty clay	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 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction	1.41-4.23	4.5-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	13-91	Silty clay	and airfield 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).	1.41-4.23	4.5-7.3
3	91-137	Clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	6.6-8.4
4	137-152		No data	No data	0-0	0-0

SOIL MAP ID 57 **SSURGO**

USDA Soil Name	Otwell,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	0-28	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	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	0-28	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	28-58	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).	1.41-4.23	4.5-5.5
3	58-107	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).	0-0.42	4.5-5.5
4	107-152	Loam	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	0.42-1.41	5.1-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	107-152	Loam	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is 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).	0.42-1.41	5.1-6.5

SOIL MAP ID 58 **SSURGO**

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

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	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).	4.23-14.11	4.5-7.3
2	13-91	Silty clay	Silt-Clay materials (more than 35% passing 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 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	1.41-4.23	4.5-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	13-91	Silty clay	of State Highway and Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	4.5-7.3
3	91-137	Clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	6.6-8.4
4	137-152		No data	No data	0-0	0-0

SOIL MAP ID 59	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 60	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 61	SSURGO
USDA Soil Name	Lowell,Series
USDA Soil Texture	Silty clay loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	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).	4.23-14.11	4.5-6.5
2	13-86	Silty clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	4.5-6.5
3	86-122	Clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size 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	5.1-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	86-122	Clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is 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	5.1-7.8
4	122-147		No data	No data	0-0	0-0

SOIL MAP ID 62 **SSURGO**

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

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-18	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	4.5-7.3
2	18-74	Silty clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction	0.1-1	4.5-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	18-74	Silty clay	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).	0.1-1	4.5-7.3
3	74-127	Silty clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.1-1	6.6-8.4
4	127-152		No data	No data	0-1.41	0-0

SOIL MAP ID 63 **SSURGO**

USDA Soil Name	Nolin,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	2
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	4.23-14	5.6-8.4

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.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	5.6-8.4
2	20-183	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14	5.6-8.4
3	183-216	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42	5.1-8.4

SOIL MAP ID 64 **SSURGO**

USDA Soil Name	Lawrence,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	4
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	4.5-6.5
2	20-51	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	4.5-6.5
3	51-122	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.23-1.41	4.5-5.5
4	122-137	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	0.42-4.23	4.5-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	122-137	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4.23	4.5-7.3
5	137-203	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4.23	4.5-7.3

SOIL MAP ID 65 **SSURGO**

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

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	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	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	0-13	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.	organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	13-86	Silty clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	4.5-6.5
3	86-122	Clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	5.1-7.8
4	122-147		No data	No data	0-0	0-0

SOIL MAP ID 66	SSURGO
USDA Soil Name	Nicholson,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).	4-14	4.5-6.5
2	20-71	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6.5
3	71-96	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	0.42-1.4	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	71-96	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).	0.42-1.4	4.5-6.5
4	96-127	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	5.1-7.8
5	127-203	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the 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	5.1-7.8

SOIL MAP ID 67	SSURGO
USDA Soil Name	Tilsit,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	0-20	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-5.5
2	20-69	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	3.6-5.5
3	69-107	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	0.42-1.41	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	69-107	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).	0.42-1.41	3.6-5.5
4	107-127	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	3.6-5.5
5	127-135		No data	No data	0-0	0-0
6	135-160		No data	No data	0-0	0-0

SOIL MAP ID 68	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 A	STATSGO
USDA Soil Name	Lowell,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	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	0-11	Silt loam	No data	No data	4.2343-14.1143	4.5-6.5
2	11-23	No data	No data	No data	1.4114-14.1143	4.5-6.5
3	23-53	No data	No data	No data	1.4114-4.2343	5.1-7.8
4	53-57		No data	No data	0-0.4234	No data

WATER AGENCY DATA:

WATER AGENCY SEARCH DISTANCES:

DATABASE:	SEARCH DISTANCE (MILES):
NWIS	1.000
OIL & GAS WELLS - KY	1.000
PWS	1.000
WELLS - KY	1.000

DISTANCE TO NEAREST:	DISTANCE:
NWIS	N/A
OIL & GAS WELLS - KY	N/A
PWS	N/A
WELLS - KY	N/A

FEDERAL WATER AGENCY DATA SUMMARY:

MAP ID:	WELL ID:	LOCATION FROM SP:
No Wells Found	N/R	N/R

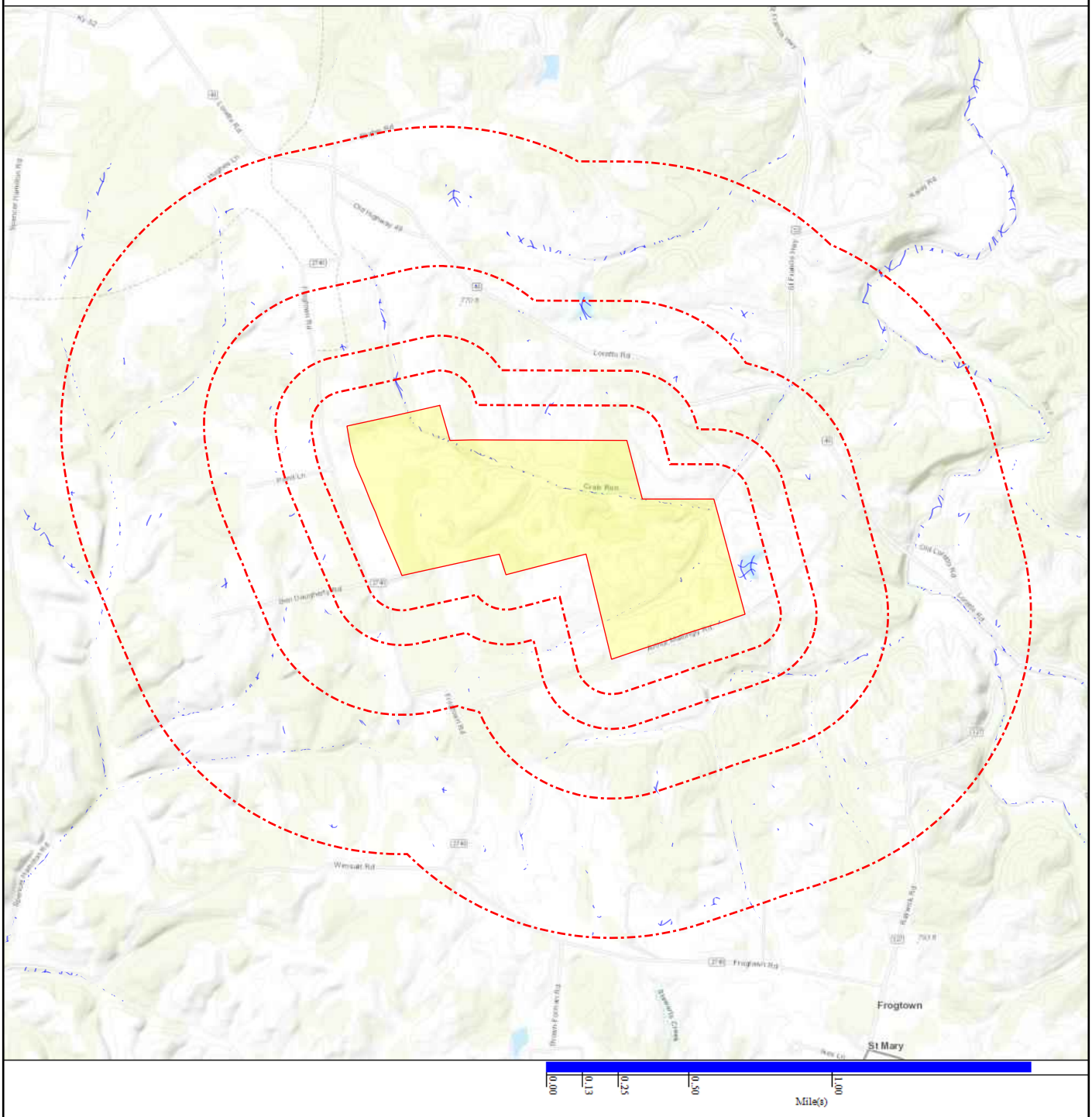
Note: PWS System location is not always the same as well location.

STATE/LOCAL WATER AGENCY DATA SUMMARY:

MAP ID:	WELL ID:	LOCATION FROM SP:
No Wells Found	N/R	N/R

SUBJECT NAME: Crab Run Solar Project
ADDRESS: Loretto, KY, 40037
LAT/LONG: 37.607652 / -85.366814

PREPARED FOR: Environmental Consulting & Technology...
ORDER #: 108906
REPORT DATE: June 12, 2025



Subject Property
NWIS (No Data)
Basins (No Data)
Oil & Gas Wells (No Data)
Geological Site (No Data)
WetLands
NWI

RADON DATA:

STATE SOURCE: No Available Data

FEDERAL AREA RADON INFORMATION FOR: 40037

NUMBER OF SAMPLE SITES: No Available Data

FEDERAL EPA RADON ZONE FOR MARION COUNTY: Zone = 1

Note: Zone 1 indoor average level > 4 pCI/L

: Zone 2 indoor average level > = 2 pCI/L and <= 4 pCI/L

: Zone 3 indoor average < 2 pCI/L

EPICENTERS
National Geographical Data Center
National Geographical Data Center
303-497-6826
List of recent and historic earthquakes and information.

DIGITAL OBSTACLE
Obstacles of interest to aviation users
Federal Aviation Administration
855-379-6518
The Digital Obstacle File describes all known obstacles of interest to aviation users in the U.S. with limited coverage of the Pacific the Caribbean Canada and Mexico. The obstacles are assigned unique numerical identifiers; accuracy codes and listed in order of ascending latitude within each state or area by FAA Region.

AIRPORT FACILITIES
Airport landing facilities
Federal Aviation Administration
(866) 835-5322
Airport landing facilities

NWIS
National Water Information Systems
United States Geological Society
(703) 648-5953
Information on all water resources for the United States. This database contains all current and historical data for the nation.

PWS
Public Water Supply
Environmental Protection Agency
(800) 426-4791
Safe drinking water information Systems

PWS ENF
Public Water Supply locations with Enforcement Violations
Environmental Protection Agency
(800) 426-4791
Safe drinking water information Systems with enforcememnt violations

HIST PWS ENF
Historical Public Water Supply locations with Enforcement Violations
Environmental Protection Agency
(800) 426-4791
List of Safe Drinking Water Information Systems (SDWIS) with enforcement violations that are no longer in current agency list.

WELLS - KY
Water well and spring data
Kentucky Geological Survey
859.323.0524
Kentucky Groundwater Data Repository

OIL & GAS WELLS - KY
Oil & Gas Wells
Kentucky Geological Survey
Oil and gas well locations

RADON
National Radon Database
U.S. Environmental Protection Agency
215-814-2469
A study of the EPA/State Residential Radon Survey and the National Residential Radon Survey.

RADON EPA
RADON EPA
U.S. Environmental Protection Agency
215-814-2469
EPA list of Radon zones

BASINS
Better Assessment Science Integrating point & Non-point Sources
U.S. Environmental Protection Agency
855-246-3642
Integrated geographical information system national watershed data and environmental assessment known as Better Assessment Science Integrating point & Non-point Sources

FLOOD Q3
Flood data
Environmental Protection Agency
(202) 566-1667
Q3 Flood Data

FLOOD DFIRM
National Flood Hazard Layer Database
Federal Emergency Management Agency
The National Flood Hazard Layer Database (NFHL) is a computer database that contains the flood hazard map information from FEMAs Flood Map Modernization program. These map data are from Digital Flood Insurance Rate Map (DFIRM) databases and Letters of Map Revision.

HYDROLOGIC UNIT
Hydrologic Unit Maps
USGS
The United States Geological Survey created a hierarchical system of hydrologic units originally called regions, sub-regions, accounting units, and cataloging units. Each unit was assigned a unique Hydrologic Unit Code (HUC). As first implemented the system had 21 regions, 221 subregions, 378 accounting units, and 2,264 cataloging units. Over time the system was changed and expanded. As of 2010 there are six levels in the hierarchy, represented by hydrologic unit codes from 2 to 12 digits long, called regions, subregions, basins, subbasins, watersheds, and subwatersheds. The table below describes the system's hydrologic unit levels and their characteristics, along with example names and codes.

WETLANDS NWI
National Wetland Inventory
U.S. Fish and Wildlife Service
(703) 358-2171
Wetland Inventory for the United States

WETLANDS - KY
Wetlands
U.S. Fish and Wildlife Service
Wetlands Inventory

SSURGO
Detailed Soil Data Map
Natural Resources Conservation Service: U.S. Department of Agriculture
(202) 690-4985
Detailed Soil Data Map

STATSGO & MUI
General Soil Data Map
Natural Resources Conservation Service: U.S. Department of Agriculture
(202) 690-4985
General Soil Data Map

USGS GEOLOGIC AGE
USGS Digital Data Series DDS
Natural Resources Conservation Service: U.S. Department of Agriculture
(202) 690-4985
USGS Digital Data Series DDS: Geologic Age and Rock Stratigraphic Unit

Appendix G

Owner Interview Documentation

FOR INTERNAL USE ONLY	
ECT Project Number	
ECT Project Name	[illegible]
Date Received	

ECT

ectinc.com

Owner Environmental Questionnaire

INSTRUCTIONS: Please complete the following questions to the best of your knowledge. Any description pertaining to the location(s) of identified features would be greatly appreciated.

Section, Township & Range (with quarter) and/or Address(es)

830 Arthur Mattingly Rd Lebanon, KY 40033

Owner Name/Entity: Steve and Peggy Downs

Contact Full Name & Affiliation: Mr. Steven Downs

Email Address: [illegible]

Phone No.: [illegible]

Other Site Personnel (Name & Contact Information):

1) When did you purchase the property(ies) and/or since what year have you been affiliated with the property(ies)?

approximately 35 years

2) What are the CURRENT uses of the property?

Agriculture (beef cattle, corn, soybeans, tobacco and hay)

3) What are the PAST uses of the property?

Agriculture

4) What is the approximate age (or construction date) and size/square footage of current structure(s)?

Home 2000 sqft built 1957 - 4 barns

5) If the property is currently vacant or undeveloped, do you know of any prior improvements? If yes, please describe: ☐ NO ☐ YES

Occupied

6) Are you aware of any current or previous wells or septic systems? If yes, please provide approximate location(s). ☐ NO ☑ YES

At home site which is not part of development

ECT

> ectinc.com

7) Are any utilities currently serving the property? If yes, please specify. ☐ NO ☑ YES

[illegible] County [illegible], [illegible] County water

8) Are you aware of any storage, use, generation, or disposal of automotive, industrial, or agricultural chemicals, batteries, solvents, petroleum products, pesticides, or related regulated chemicals? If yes, please explain. ☑ NO ☐ YES

9) Are you aware of any underground or aboveground storage tanks for any chemicals or petroleum products (currently or historically) located on the property? If yes, please explain and specify underground or aboveground. ☐ NO ☑ YES

Above ground farm diesel tank on farm but not on development site

10) Has the property been used as an onsite landfill, dump, or disposal use? If yes, please identify and explain. ☑ NO ☐ YES

11) Are you aware of any fill material that has been placed on the property? If yes, please specify and indicate source of material. ☑ NO ☐ YES

12) Are you aware of any current or former oil or gas wells, or associated surface pipelines on the property? If yes, please identify and explain. ☑ NO ☐ YES

13) Are you aware of any current or former (i.e. filled) pits, ponds, or lagoons located on the property? If yes, please describe. ☐ NO ☑ YES

Farm ponds, 1 manure lagoon off site

14) Are you aware of any past cattle dipping vats on the property? ☑ NO ☐ YES

15) Are you aware of any former or current biosolid application? If yes, please describe location(s) and years of application. ☐ NO ☑ YES

Cattle manure

SEE FINAL PAGE (3)

Owner Environmental Questionnaire

ECT

ectinc.com

16) Are you aware of any petroleum or hazardous waste discharges or releases to the environment, or contamination impacts to the site soil, groundwater, or surface waters? If yes, please describe.
☑ NO ☐ YES

17) Are you aware of any leases or easements on the property? If yes, please list. ☐ NO ☑ YES
power line right of way.

18) Are you aware of any pending, threatened, or past environmental litigation, proceedings, or notices of possible violations of environmental laws or liability or potential environmental concerns in connection with the property? ☑ NO ☐ YES

19) Are you aware of any past environmental assessment report(s) prepared for the property? If yes, are you able to provide a copy of the prior report(s)? ☑ NO ☐ YES

I certify to the best of my knowledge that the above statements and facts are true and correct. To the best of my knowledge, no provided material facts have been suppressed or misstated.

Completed By: Steve Downs

Title/Company: (if applicable) Owner

Signature:

Date: June 21, 2025

Relationship to site: Owner

Please return a copy of the completed Owner Environmental Questionnaire form to **Environmental Consulting & Technology, Inc (ECT)** at:

Email (preferred):	**bjarvis@ectinc.com**
Mailing Address:	ECT, Attn: Beth Jarvis 2200 Commonwealth Blvd. Suite 100 Ann Arbor, MI 48105-2957

WANT TO COMPLETE ELECTRONICALLY?

Please scan the QR code with your smartphone camera to be directed to the online form, or go to:

https://forms.office.com/r/XqmJP6enzr

Appendix H

State/Local Interview Documentation

Freedom of Information Act (FOIA) Requests Tracking Sheet

Crab Run Solar Project

Marion County, Kentucky

Agency Name	Contact Name & Title (if known)	Method of Inquiry	Attempts			Comments
			1st	2nd	3rd	
COUNTY AGENCIES						
Marion County Health Center Environmental Services	Beth A. Ross, Executive Assistant	Phone: 270.692.3393 Email: support@ltdhd.org Email2: Beth.Ross@ltdhd.org	6/11/2025	6/16/2025	6/20/2025	Responded via email on 6/24/2025 that they are unable to locate any records for parcel numbers; all records are filed by address.
MUNICIPAL/LOCAL AGENCIES						
Loretto Volunteer Fire Department	Undisclosed Recipients	Phone: 270.865.2268 Email: Fire@cityofloretto.net	6/11/2025	6/16/2025	6/20/2025	Additional follow-up email sent on 6/24/2025. No response received as of the publication date of this report.

From:	Beth Ross
To:	Beth Jarvis
Cc:	Bryan Carroll
Subject:	RE: Records Request - Marion County, KY (follow-up 3)
Sent:	6/24/2025 10:53:22 AM

Good morning!

We are unable to locate any records for parcel numbers as our records are filed by address. We do not have access to PVA records or the parcel numbers for individual properties.

Let me know if you obtain an address and I will be happy to look up any records for the property.

Thanks,

Beth A. Ross
Executive Assistant
Beth.Ross@ltdhd.org
Lincoln Trail District Health Department
108 New Glendale Road
P.O. Box 2609
Elizabethtown, KY 42702
270-769-1601 ext 7015
270-765-7274 (fax)
LTDHD.org
Serving Hardin, LaRue, Marion, Meade, Nelson, and Washington Counties

LINCOLN TRAIL DISTRICT HEALTH DEPARTMENT
Good Health & A Safe Environment

From: Beth Jarvis <bjarvis@ectinc.com>
Sent: Tuesday, June 24, 2025 10:51 AM
To: Beth Ross <Beth.Ross@ltdhd.org>
Cc: Bryan Carroll <Bryan.Carroll@ltdhd.org>
Subject: Records Request - Marion County, KY (follow-up 3)

Good morning,

Just seeing if you were able to locate any files using the parcel numbers listed below. If no records are available, please let me know.

Thank you,
Beth

Beth A. Jarvis
Senior Project Coordinator | Site Assessment & Remediation

Environmental Consulting & Technology, Inc.
1715 North Westshore Blvd. | Suite 175 | Tampa, Florida 33607
Direct: 813.725.9414

From: Beth Jarvis
Sent: Monday, June 16, 2025 11:24 AM
To: Beth Ross <Beth.Ross@ltdhd.org>
Cc: Bryan Carroll <Bryan.Carroll@ltdhd.org>
Subject: RE: [EXTERNAL]: FW: Records Request - Marion County, KY

Hi Beth,

We don't have physical addresses for the properties, only their parcel IDs and owner's name:

Parcel ID	Owner Name	City	County	State
031-003	STEVE B DOWNS	LORETTO	MARION	KY
031-004	STEVEN BLAINE DOWNS	LORETTO	MARION	KY

Are you able to locate any information using the above?

Thank you for your help,
Beth

Beth A. Jarvis
Senior Project Coordinator | Site Assessment & Remediation

Environmental Consulting & Technology, Inc.
1715 North Westshore Blvd. | Suite 175 | Tampa, Florida 33607
Direct: 813.725.9414

From: Beth Ross <Beth.Ross@ltdhd.org>
Sent: Thursday, June 12, 2025 10:45 AM
To: Beth Jarvis <bjarvis@ectinc.com>
Cc: Bryan Carroll <Bryan.Carroll@ltdhd.org>
Subject: [EXTERNAL]: FW: Records Request - Marion County, KY

Good morning, Beth,

We are in receipt of your records request for a property in Marion County, KY. However, this is a large piece of property with no addresses included in the request. Can you please provide us with addresses for any structures that are located on the acreage so we can pull those records?

We appreciate your time and assistance with this request.

Beth A. Ross
Executive Assistant
Beth.Ross@ltdhd.org
Lincoln Trail District Health Department
108 New Glendale Road
P.O. Box 2609

Elizabethtown, KY 42702
270-769-1601 ext 7015
270-765-7274 (fax)
LTDHD.org
Serving Hardin, LaRue, Marion, Meade, Nelson, and Washington Counties

LINCOLN TRAIL DISTRICT HEALTH DEPARTMENT
Good Health & A Safe Environment

From: Beth Jarvis <bjarvis@ectinc.com>
Sent: Wednesday, June 11, 2025 2:56 PM
To: Support <support@ltdhd.org>
Subject: Records Request - Marion County, KY

Hello,

We are conducting an environmental site assessment for approximately 412 acres of primarily agricultural land (Parcels #031-003 and #031-004) located to the southwest of North Loretta Road in Marion County, Kentucky. As part of this assessment, we are required to interview local government agencies about any potential environmental concerns pertaining to the property and its vicinity. We are hoping to receive any available records for this area (via email preferred) pertaining to:

- Biosolid applications,
- Wells,
- Septic systems,
- Storage tanks,
- Releases or incidents involving hazardous substances and/or petroleum products,
- Historical or active landfills,
- Dumping of materials,
- Remediation sites,
- Migrating contamination, and/or
- Any other environmentally sensitive records.

A general site map is included for your reference.

Your time is greatly appreciated, thank you.

Beth A. Jarvis
Senior Project Coordinator | Site Assessment & Remediation

Environmental Consulting & Technology, Inc.
1715 North Westshore Blvd. | Suite 175 | Tampa, Florida 33607
Direct: 813.725.9414

From: Beth Jarvis
Sent: Tuesday, June 24, 2025 10:52 AM
To: fire@cityofloretto.net
Subject: Records Request - Loretto, Marion County, KY (follow-up 3
Attachments: General Map.pdf

Hello,

Just following up on a previous email request. Are there any records available for the listed parcels:

Parcel ID	Owner Name	City	County	State
031-003	STEVE B DOWNS	LORETTO	MARION	KY
031-004	STEVEN BLAINE DOWNS	LORETTO	MARION	KY

If no records are available, please let me know.

Thank you,
Beth

Beth A. Jarvis
Senior Project Coordinator | Site Assessment & Remediation

Environmental Consulting & Technology, Inc.
1715 North Westshore Blvd. | Suite 175 | Tampa, Florida 33607
Direct: 813.725.9414

From: Beth Jarvis
Sent: Wednesday, June 11, 2025 2:47 PM
To: Fire@cityofloretto.net
Subject: Records Request - Loretto, Marion County, KY

Hello,

We are conducting an environmental site assessment for approximately 412 acres of primarily agricultural land (Parcels #031-003 and #031-004) located to the southwest of North Loretta Road in Marion County, Kentucky. As part of this assessment, we are required to interview local government agencies about any potential environmental concerns pertaining to the property and its vicinity. We are hoping to receive any available records for this area (via email preferred) pertaining to:

- Fires,
- Storage tanks,
- Releases or incidents involving hazardous substances and/or petroleum products,
- Historical or active landfills,
- Dumping of materials,
- Remediation sites,

- Migrating contamination, and/or
- Any other environmentally sensitive records.

A general site map is included for your reference.

Your time is greatly appreciated, thank you.

Beth A. Jarvis
Senior Project Coordinator | Site Assessment & Remediation

Environmental Consulting & Technology, Inc.
1715 North Westshore Blvd. | Suite 175 | Tampa, Florida 33607
Direct: 813.725.9414

Appendix I

Resumes of Environmental Consultants

Lindsay Landin

Due Diligence Project Manager

Ms. Landin has ten years of professional experience in the environmental consulting industry. As an Environmental Professional (EP), she is a specialist in the management, research, and authoring of thousands of transactional due diligence reports for projects across the United States and Canada. Ms. Landin's expertise ranges from traditional commercial/industrial due diligence to wind, solar, and energy storage projects ranging in size from one acre to 150,000 acres. She is an expert of numerous due diligence reporting formats, including but not limited to Phase I ESAs, desktop environmental reviews, and Phase II subsurface investigations.

PRIOR CAREER EXPERIENCE

Technical Reporting Manager | Supervisory Technical Report Writer
August Mack Environmental, Inc. | Lancaster, PA (Remote)
Managed and trained a team of due diligence technical writers remotely. Coordinated, managed, and administered projects from start to finish including the preparation and issuing of proposals, budgeting, scheduling and training of field and technical staff, vendor and client management and negotiations, and issuance of final reports.

Senior Technical Report Writer | Technical Report Writer
August Mack Environmental, Inc. | Lancaster, PA (Remote)
Coordinated, managed, and prepared ASTM E1527 and ASTM E2247 compliant Phase I ESAs for hundreds of commercial, industrial, and small to large-scale renewable energy projects. Conducted historical and regulatory agency research and landowner interviews, as well as interviews of local and state government to establish regulatory compliance status and define permitting requirements for construction and development. Prepared and peer reviewed numerous desktop reviews, Transaction Screen Assessments, and other client-specific Phase I ESA variations, as well as Phase II subsurface investigations, indoor air quality, asbestos survey, and lead-based paint survey reports.

Administrative Assistant | August Mack Environmental, Inc. | Lancaster, PA
Generated various technical reports, contingency plans and calculations related to environmental regulations as applicable to manufacturing clients. Performed property research using various state and county GIS, as well as county assessment records to complete historical reviews for due diligence projects. Streamlined the hazardous waste materials tracking process companywide and provided training to administrative personnel. Provided proofreading and editing support across all departments, including quality control of technical data entries. Coordinated and administered projects from start to finish.

EDUCATION

M.A., History
Millersville University

B.A., History
York College of Pennsylvania

CREDENTIALS/AFFILIATIONS

Member of ASTM International Committee E50, Environmental Assessment, Risk Management and Corrective Action

Member of Women of Renewable Industries and Sustainable Energy

ASTM International, "Phase I & II ESAs for Commercial Real Estate" Certification

AREAS OF EXPERTISE

All Appropriate Inquiries

ASTM E2247 & E1527

Technical Reporting

Historical Research

Regulatory Research

Project Management

Sam Lucente

Program Manager

Mr. Lucente has more than five years of professional experience in the environmental consulting industry. He is a specialist in environmental due diligence with hands on experience on over one million acres of wind, solar, and commercial/industrial developments nationwide. Mr. Lucente has produced, completed, and reviewed a variety of due diligence reports (i.e., Phase I ESAs, Phase II subsurface investigations, and desktop environmental reviews) for hundreds of projects within tight timeframes. Currently, Mr. Lucente is working towards using his environmental passion to improve himself within the environmental consulting industry.

PREVIOUS CAREER EXPERIENCE

Regulatory Compliance Services | August Mack Environmental
Rockford, IL
Coordinated and conducted indoor air sampling to ensure the safety of employees and abide by regulatory exposure limits. Developed exposure maps to identify areas of concern within a facility. Analyzed data collected from sampling events to work with clients on different cost-effective solutions. Conducted monthly inspections for ECAP clients for regulatory compliance.

Site Assessment | August Mack Environmental | Nationwide
Conducted American Society for Testing and Materials (ASTM) Phase I Environmental Site Assessments (ESAs) at numerous sites undergoing acquisition, divestiture, or refinancing, including industrial and commercial buildings and undeveloped sites. Managed multiple environmental due diligence portfolios for a variety of industrial, commercial, renewable energy properties. Provided numerous clients with SBA required Environmental Records Search with Risk Assessment report documenting records review activities conducted for the properties. The scope of work included a review of Sanborn Fire Insurance Maps, historical topographic maps, historical aerial photographs, a city directory abstract and an Environmental Data Resources, Inc. (EDR) Radius Map report.

Subsurface Investigation | August Mack Environmental
Illinois, Indiana, Texas, Oklahoma, and Wisconsin
Conducted subsurface investigations in Illinois, Indiana, Texas, Oklahoma, and Wisconsin. Activities included preparing investigation and remediation work plans, managing field activities, and soil/groundwater fate and transport modeling (e.g., Illinois TACO). Coordinated and conducted a soil, groundwater and soil gas investigations associated with potential vapor intrusion (VI). Activities included sampling indoor air and ambient air for volatile organic compounds (VOCs), evaluating sampling results, and implementing vapor mitigation system installation activities.

EDUCATION

B.A., Environmental Geoscience
DePauw University

CREDENTIALS

OSHA 40 Hour Hazwoper, IN

Asbestos Building Inspector

AREAS OF EXPERTISE

All Appropriate Inquiries

Landowner Liability Protections

ASTM E2247 & E1527

Environmental Sampling

Groundwater Monitoring

Risk-Based Corrective Action

Remediation & Mitigation Programs

Technical Reporting

Jessica Phlips

Technical Writer

Ms. Phlips has ten years of professional experience working with non-profits and state and local governmental offices. Mrs. Phlips expertise includes project management and program development, crisis management, and providing investigative and administrative support to various agencies.

Since joining ECT in 2022, Ms. Phlips has supported the research and technical writing component of multiple Phase I Environmental Site Assessments, desktop environmental records reviews, and critical issues analysis.

PREVIOUS CAREER EXPERIENCE

Family Advocate
Ellis County Children's Advocacy Center | Waxahachie, TX
Coordinated crisis management and case management services. Supported investigations for Law Enforcement and Child Protective Services. Provided administrative support for program development. Coordinated and authored grant writing projects with executive management.

Qualified Mental Health Professional
Phillip R Taft Psy.D PLLC & Associates|Corsicana, TX and surrounding areas
Developed a mental health support program initiated in the county jail. Provided de-escalation, crisis management, and assessments for inmates. Created and managed a system designed to streamline billing and insurance coordination. Supported staff with assessments and report writing.

Unit Clerk | Mental Health Technician
Sante Center for Healing |Argyle, TX
Authored a statistical data analysis project for the Director of Nursing. Provided auditing and administrative support for the accreditation process. Maintained electronic medical records and staff scheduling. Provided crisis intervention and support.

EDUCATION

B.S., Sociology
Texas Woman's University

M.S., Criminal Justice
Aspen University

AREAS OF EXPERTISE

Project Management
Program Development
Crisis Management
Administrative Support
Investigative Support