



## **PHASE I ENVIRONMENTAL SITE ASSESSMENT**

Hummingbird Solar—Fleming County,  
Kentucky

Project Information:  
Approximately 4,255.74 acres across 41 parcels

Reconnaissance Date:  
May 22 to 23, 2023

October 2023

Prepared for:

**RECURRENT  
ENERGY**

A subsidiary of Canadian Solar

Hummingbird Energy LLC  
98 San Jacinto Blvd,  
Ste. 750  
Austin, TX 78701

Prepared by:

Stantec Consulting Services Inc.  
76 San Marcos Street, Austin, TX 78702  
Tel: 512.745.8129  
[www.stantec.com](http://www.stantec.com)

Project Number: 237800382

Phase I Environmental Site Assessment, Hummingbird Solar—Fleming County, Kentucky

<b>Revision</b>	<b>Description</b>	<b>Author</b>	<b>Date</b>
1.0	Write Up	Jonathan Hess, Project Manager	04/14/2023
2.0	Field Work Update	Jonathan Hess, Project Manager	05/23/2023
3.0	Quality Check—Formatting	Iris Eschen, Document Production Manager	06/01/2023
4.0	Quality Check—Technical Editing	Coreen Johnson, Senior Technical Editor	06/05/2023
5.0	Independent Review	Chad Martin, Senior Principal Environmental Professional	08/11/2023





The conclusions in the Report titled **Phase I Environmental Site Assessment, Hummingbird Solar—Fleming County, Kentucky** are Stantec’s professional opinion, as of the time of the Report, and concerning the scope described in the Report. The opinions in the document are based on conditions and information existing at the time the scope of work was conducted and do not take into account any subsequent changes. The Report relates solely to the specific project for which Stantec was retained and the stated purpose for which the Report was prepared. The Report is not to be used or relied on for any variation or extension of the project, or for any other project or purpose, and any unauthorized use or reliance is at the recipient’s own risk.

Stantec can neither warrant nor guarantee that the information received from **Hummingbird Energy LLC**. (the “Client”) and third parties in the preparation of the Report is correct. While Stantec has exercised a customary level of judgment or due diligence in the use of such information, Stantec assumes no responsibility for the consequences of any error or omission contained therein.

This Report is intended solely for use by the Client in accordance with Stantec’s contract with the Client. While the Report may be provided to applicable authorities having jurisdiction and others for whom the Client is responsible, Stantec does not warrant the services to any third party. The Report may not be relied upon by any other party without the express written consent of Stantec, which may be withheld at Stantec’s discretion.

Prepared by:   
\_\_\_\_\_  
Signature  
Jonathan Hess, Environmental Scientist  
Printed Name

Reviewed by:   
\_\_\_\_\_  
Signature  
Chad Martin, Senior Principal Environmental Professional  
Printed Name

Approved by:   
\_\_\_\_\_  
Signature  
Chad Martin, Senior Principal Environmental Professional<sup>1</sup>  
Printed Name

<sup>1</sup> **Environmental Professional Statement.** We declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in 40 Code of Federal Regulations (CFR) 312.10. Stantec has the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Project Area. Stantec has developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.



# Table of Contents

<b>EXECUTIVE SUMMARY .....</b>	<b>V</b>
<b>1 INTRODUCTION.....</b>	<b>1-1</b>
1.1 Purpose .....	1-1
1.2 Scope .....	1-1
1.3 Significant Assumption.....	1-2
1.4 Limitations and Exceptions .....	1-2
1.5 Special Terms and Conditions (User Reliance).....	1-2
<b>2 SITE DESCRIPTION.....</b>	<b>2-1</b>
2.1 Parcel Description .....	2-1
2.2 Current Use of the Property .....	2-3
2.3 Description of Property Improvements.....	2-3
2.4 Current Uses of Adjoining Properties.....	2-4
<b>3 USER-PROVIDED INFORMATION .....</b>	<b>3-1</b>
3.1 Title Records .....	3-1
3.2 Environmental Liens or Activity and Use Limitations .....	3-1
3.3 Specialized Knowledge .....	3-1
3.4 Significant Valuation Reduction for Environmental Issues .....	3-1
3.5 Owner, Property Manager, and Occupant Information .....	3-1
3.6 Reason for Performing Phase 1 ESA .....	3-1
3.7 Other User-Provided Documents.....	3-1
<b>4 RECORDS REVIEW .....</b>	<b>4-1</b>
4.1 Standard Environmental Records .....	4-1
4.1.1 Project Area Listings .....	4-5
4.1.2 Sites of Concern Listings .....	4-6
4.1.3 Orphan Listings .....	4-6
4.1.4 Federal Environmental Records .....	4-7
4.1.5 Public Health Department .....	4-7
4.1.6 Flemming County Emergency Management .....	4-7
4.1.7 Emergency Response.....	4-8
4.1.8 Oil and Gas Transmission.....	4-8
4.1.9 Oil and Gas Exploration .....	4-8
4.1.10 Utilities.....	4-8
4.1.11 Other Local Environmental Records Sources.....	4-9
4.2 Physical Setting Sources .....	4-9
4.2.1 Topography .....	4-9
4.2.2 Geology/Soils .....	4-9
4.2.3 Hydrology .....	4-9
4.2.4 Other Physical Setting Sources .....	4-9
4.3 Historical Records Sources.....	4-10
4.3.1 Aerial Photographs .....	4-10
4.3.2 Historical US Geological Survey Topographic Quadrangles .....	4-10
4.3.3 Fire Insurance Maps .....	4-10
4.3.4 Property Tax Files.....	4-10
4.3.5 Recorded Land Title Records and Activity and Use Limitations.....	4-10
4.3.6 City Directories.....	4-11



4.3.7	Prior Reports .....	4-11
4.3.8	Other Historical Sources .....	4-11
<b>5</b>	<b>SITE RECONNAISSANCE .....</b>	<b>5-1</b>
5.1	Methodology and Limiting Conditions .....	5-1
5.2	Hazardous Substance Use, Storage, and Disposal.....	5-1
5.3	Aboveground and Underground Hazardous Substance or Petroleum Product Storage Tanks .....	5-2
5.4	Polychlorinated Biphenyls .....	5-2
5.5	Unidentified Substance Containers.....	5-2
5.6	<i>De Minimis</i> and Other Chemical Observations .....	5-2
5.7	Structures .....	5-3
5.8	Wastewater .....	5-3
5.9	Sumps .....	5-3
5.10	Septic Systems .....	5-3
5.11	Stormwater Management System.....	5-3
5.12	Wells .....	5-3
<b>6</b>	<b>INTERVIEWS .....</b>	<b>6-1</b>
<b>7</b>	<b>OTHER ENVIRONMENTAL CONDITIONS.....</b>	<b>7-1</b>
7.1	Asbestos-containing Material.....	7-1
7.2	Radon.....	7-1
7.3	Lead in Drinking Water .....	7-2
7.4	Lead-based Paint.....	7-2
7.5	Mold Screening .....	7-2
7.6	Vapor Encroachment .....	7-2
<b>8</b>	<b>REFERENCES.....</b>	<b>8-1</b>

## List of Tables

Table ES-1	Significant Data Gap Summary.....	v
Table 2-1	Flemming County Parcels .....	2-1
Table 2-2	Property Improvements.....	2-3
Table 4-1	Summary of Federal, State, and Tribal Database Findings .....	4-1
Table 4-2	ERIS Database Query Records .....	4-5
Table 4-3	ERIS Database Query Orphan Site Records .....	4-6
Table 4-4	Historical Use Information .....	4-10
Table 5-1	Historical Use Information .....	5-1
Table 7-1	USEPA Radon Zones.....	7-1



## List of Appendices

- Appendix A Site Vicinity Map
- Appendix B Project Area Photographs
- Appendix C User Questionnaires
- Appendix D ERIS Database Report
- Appendix E Physical Setting Report
- Appendix F Aerial Photographs
- Appendix G Topographic Maps
- Appendix H Statement about Fire Insurance Rate Maps
- Appendix I Environmental Lien Search

## Acronyms / Abbreviations

$\mu\text{g/g}$	microgram per gram
ACM	Asbestos-containing material
AST	Aboveground Storage Tank
ASTM	American Society of Testing and Material
CFR	Code of Federal Regulations
CREC	Controlled Recognized Environmental Condition
ERIS	Environmental Risk Information Services
ESA	Environmental Site Assessment
FEMA	Federal Emergency Management Agency
FIRM	Flood Insurance Rate Map
HREC	Historical Recognized Environmental Condition
Hummingbird Solar or user	Hummingbird Solar, LLC
LBP	Lead-based paint
$\text{mg/cm}^2$	milligram per square centimeter
PCB	Polychlorinated Biphenyl
pCi/L	picocuries per liter
PFA	perfluorinated alkyl substance
PFOA	perfluorooctanoic acid
PFOS	perfluorooctane sulfonate



ppm	parts per millions
Project Area	4,255.74-Acre Site in Fleming County, Kentucky
Project	Hummingbird Solar Project
Ra	radium
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Conditions
USEPA	US Environmental Protection Agency
UST	Underground Storage Tank
VEC	Vapor Encroachment Condition



# Executive Summary

## General Information

<b>Project Information:</b>	Approximately 4,255.74 acres across 41 parcels
<b>Site Information:</b>	Hummingbird Solar—Fleming County, Kentucky
<b>Reconnaissance Dates:</b>	May 22 to 23, 2023
<b>Site Assessors:</b>	Jonathan Hess and Kelsey Cleve

## Findings and Conclusions Summary

Stantec performed this Phase I Environmental Site Assessment (ESA) for the Hummingbird Solar Project (Project) that consists of an approximately 4,255.74-acre site located in Fleming County, Kentucky (Project Area) in conformance with the scope and limitations of American Society of Testing and Material (ASTM) Standard Practice E 2247-16. Any exceptions to, or deletions from, this practice are described in Section 1.4 of this report. This ESA did not reveal evidence of recognized environmental conditions (RECs) in connection with the Project or the Project Area. This report is an update to the February 2022 report prepared by Cardno now Stantec.

## Significant Data Gap Summary

According to ASTM Standard Practice E 2247-16, data gaps are only significant if “other information and/or professional experience raise reasonable concerns involving the data gap.” Stantec did not identify any significant data gaps during the performance of this Phase I ESA. Table ES-1 presents a list of common sources of *significant data gaps*, and Stantec’s experience with them for this Phase I ESA where no significant data gaps were identified.

**Table ES-1 Significant Data Gap Summary**

Report Section		Description
2.4	Current Uses of the Properties	No significant data gap identified.
3.0	User-Provided Information	No significant data gap identified; the user.
4.1	Standard Environmental Records	No significant data gap identified.
4.2	Physical Setting Sources	No significant data gap identified.
4.3	Historical Records Sources	No significant data gap identified.
5.1	Methodology and Limiting Conditions	No significant data gap identified.
6.0	Interviews	No significant data gap identified.





## Findings

### ***Recognized Environmental Condition***

A *recognized environmental condition*, or REC, refers to the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property resulting from its release to the environment, under conditions indicative of a release to the environment, or under conditions that pose a material threat of a future release to the environment.

Stantec did not identify any RECs in connection with the Project Area.

### ***Controlled Recognized Environmental Condition***

A *controlled recognized environmental condition* (CREC) refers to a REC that resulted from a past release of hazardous substances or petroleum products and that has been addressed to the satisfaction of the applicable regulatory authority with hazardous substances or petroleum products, allowing it to remain in place subject to the implementation of required controls.

Stantec did not identify any CRECs in connection with the Project Area.

### ***Historical Recognized Environmental Condition***

A *historical recognized environmental condition* (HREC) refers to a past release of any hazardous substances or petroleum products occurring in connection with the Project Area and has been addressed to the satisfaction of the applicable regulatory authority or meets unrestricted use criteria established by a regulatory authority, without subjecting the Project Area to any required controls.

Stantec did not identify any HRECs in connection with the Project Area. .

### ***Environmental Issue***

An *environmental issue* refers to environmental concerns identified by Stantec warranting further discussion but which do not represent RECs.

Stantec identified the following environmental issues located adjacent to the Subject Properties:

- **Off-site underground storage tank (UST) (Hurst Grocery)**, . In March of 2001, two (2) 1,000-gallon USTs were closed due to their location underneath the building and overhang at the off-site location referred to as Hurst Grocery, located approximately 0.20 miles from the Project Area. An alternative soil sampling plan was approved due to the inability to conduct sampling according to normal protocol. A closure assessment report was issued in April 2003. In October 2004, a report of gasoline-like odors was made in relation to the basement of a residence located upgradient of Hurst Grocery. Five (5) soil pits were excavated along the public waterline and three samples were taken, which indicated the presence of Benzene, Toluene, Ethylbenzene and Xylenes (BTEX). Ten soil borings on the affected residential property were advanced and one indicated that groundwater had been impacted, with groundwater being present at roughly 10 to 24 feet below ground surface. An assessment well and ten additional borings were drilled along the waterline to further delineate the impacts. The vapors and residential property were monitored until readings reached 0.0 ppm in December 2004. Impacted waterline and soil were removed and replaced. Vapor monitoring ended as of June 2005. Soil and groundwater samples collected in 2006 and 2007 indicated BTEX



concentrations were above applicable regulatory thresholds. Resampling in 2009, 2010, 2012 and 2014 showed benzene levels in groundwater above Allowable Levels. In 2014, a directive for groundwater monitoring and over-excavation was issued for the site. In 2016, impacted soil was excavated and disposed of off-site, and nine (9) sidewall samples and two (2) floor samples were collected. Results indicated benzene concentrations above the Allowable Levels. In 2017, an Intermediate Site Investigation was issued by the UST Branch of the Kentucky Department for Environmental Protection. Soil was resampled and benzene concentrations were above the Allowable Levels. An updated KYTC Highway Right-of-Way Encroachment Permit was issued in 2019 to sample soil and install monitoring wells. Soil borings and wells were installed 2020 and monitoring continues. The extent of benzene concentrations above the applicable regulatory thresholds is controlled, however, and is not located within the boundary of the Project Area. Based on the information reviewed and the 0.2-mile distance of the Hurst Grocery from the Project Area, it is Stantec's opinion that the groundwater impacts at the off-site facility do not represent an environmental concern to the Subject Properties, and Stantec recommends no further investigation regarding this issue.

- **Stockpiling of old vehicle gas tanks with potential for stream degradation** at a property located at 206 Beech Springs Drive. This property is located approximately 0.15 miles to the southeast of the Project Area and the referenced stream drains further to the southeast, away from the Project Area. This was historically identified in the SPILLS database. The incident was reported but upon investigation it was determined that there was no violation, and the case was closed. This issue does not represent a REC and Stantec recommends no further investigation regarding this issue.

Stantec observed *de minimis* conditions associated with agricultural activities that did not meet the criteria to be considered a REC. Generally, these conditions, which included debris, agricultural-related chemicals and chemical storage, and agricultural equipment, are discussed further in Section 5.5.

## Conclusions, Opinions and Recommendations

Stantec performed a Phase 1 ESA in conformance with the scope and limitations of ASTM Practice E2247-16 in the Project Area located in Fleming County, Kentucky. Any exceptions to, or deletions from, are described in Section 1.4 of this report.

This Phase 1 ESA did not reveal evidence of RECs in connection with the Project Area. Based on the conclusions of this Phase 1 ESA, Stantec recommends no further action or investigation regarding the environmental condition of the Project Area.



# 1 Introduction

## 1.1 Purpose

Stantec conducted this Phase 1 Environmental Site Assessment (ESA) for the Hummingbird Solar Project (Project) to identify recognized environmental conditions (RECs) and certain potential environmental conditions outside the scope of American Society of Testing and Material (ASTM) Standard Practice E 2247-16 at the time of the site reconnaissance. This Phase 1 ESA is being completed to update the previously completed Phase 1 ESA report prepared by Cardno now Stantec in February 2022. The Project consists of an approximately 4,255.74-acre site located in Fleming County, Kentucky (Project Area). This report documents Stantec's findings, opinions, and conclusions of the Phase 1 ESA.

## 1.2 Scope

Stantec conducted this Phase 1 ESA in general accordance with the ASTM Standard Practice E 2247-16, consistent with a level of care and skill ordinarily practiced by the environmental consulting profession currently providing similar services under similar circumstances. Significant additions, deletions, or exceptions to ASTM Standard Practice E 2247-16 are noted below or in the corresponding sections of this report (ASTM 2016). The scope of this Phase 1 ESA included an evaluation of the following elements:

- Physical setting characteristics of the Project Area through a review of referenced sources such as topographic maps and geologic, soils, and hydrologic reports.
- Use of the Project Area, adjoining properties, and surrounding area through a review of referenced historical sources such as land title records, fire insurance maps, city directories, aerial photographs, prior reports, and interviews.
- Observations and interviews regarding current Project Area use and conditions, including the use, treatment, storage, disposal, or generation of hazardous substances, petroleum products, hazardous wastes, non-hazardous solid wastes, and wastewater.
- Use of adjoining and surrounding properties and the likely effects of known or suspected releases of hazardous substances or petroleum products on the Project Area.
- Information referenced in environmental agency databases and local environmental records within the specified approximate minimum search distance from the Project Area.

The scope of the Phase 1 ESA also included consideration of the following environmental issues or conditions that are beyond the scope of ASTM Standard Practice E 2247-16:

- Visual observation of suspected asbestos-containing material (ACM) within the Project Area. Visual observation consists of providing an opinion about the condition of suspected ACM within the Project Area based upon visual examination during the site reconnaissance. Limited surveys are performed to identify the presence of readily accessible, suspected ACM and develop recommendations as to the need for a more thorough survey and/or an operations and maintenance program.



## 1 Introduction

- Radon document review, consisting of the review of published radon data regarding the potential for elevated levels of radon gas in the area surrounding the Project Area.
- Visual observation of lead-based paint (LBP), consisting of providing an opinion about the potential for LBP based on the construction date of buildings within the Project Area and visual examination of the condition of the suspected LBP.
- Floodplain document review, consisting of a review of a reasonably ascertainable flood plain map of the surrounding area to note whether the Project Area is identified as being located within a floodplain.

### 1.3 Significant Assumption

Any assumptions in this report were not considered as having significant impact on the determination of RECs associated with the Project Area.

### 1.4 Limitations and Exceptions

This report documents work that was performed in accordance with the environmental consulting services agreement between the client and Stantec. No other representations, warranties or guarantees are made concerning the accuracy or completeness of the data or conclusions contained within this report.

This report provides an evaluation of specified environmental conditions associated with the identified property that was assessed at the time the work was conducted and is based on information obtained by and/or provided to Stantec at that time. 40 CFR 312.20(f)(2) requires that the Environmental Professional evaluate the thoroughness and reliability of provided information. Stantec can neither warrant nor guarantee such thoroughness or reliability, however.

Conclusions made within this report consist of Stantec's professional opinion as of the time of the preparation of this report and are based solely on the scope of work described in the report, the limited data available and the results of the work. They are not a certification of the property's environmental condition.

Project Specific limiting conditions are provided in Section 2.2.

The conclusions are based on the site conditions encountered by Stantec at the time of the work. Accordingly, additional studies and actions may be required. The identification of non-environmental risks to structures or people on the Property is beyond the scope of this assessment.

Stantec specifically disclaims any responsibility to update the conclusions in this report if new or different information later becomes available or if the conditions or activities on the property subsequently change.

### 1.5 Special Terms and Conditions (User Reliance)

This report is for the use and benefit of, and may be relied upon by, Hummingbird Energy LLC (Hummingbird Solar), its affiliates, and third parties authorized in writing by Hummingbird Solar and Stantec, including the lender(s) in connection with a secured financing of the Project Area, and their respective successors and assigns. Any third party agrees by accepting this report that any use or reliance on this report shall be limited by the exceptions and limitations in this report and with the



## 1 Introduction

acknowledgment that actual Project Area conditions may change with time and that hidden conditions that were not discovered within the authorized scope of the Phase 1 ESA may exist within the Project Area. Any use by or distribution of this report to third parties, without the express written consent of Stantec, is at the sole risk and expense of such third party.

Stantec makes no other representation to any third party except that it has used the degree of care and skill ordinarily exercised by environmental consultants in the preparation of the report and in the assembling of data and related information. No other warranties are made to any third party, either expressed or implied. The terms and conditions of this report are governed by the environmental consulting services agreement between Stantec and the client.



## 2 Site Description

## 2 Site Description

### 2.1 Parcel Description

The Project Area is located outside the municipal limits of Mt. Carmel in Fleming County, Kentucky. A site vicinity map is presented in Appendix A. The Project Area consists of the following 41 parcels in Fleming County, as presented in Table 2-1:

**Table 2-1 Fleming County Parcels**

<b>Assessor Parcel Number (APN)</b>	<b>Owner Name and Address</b>	<b>Approximate Acres<sup>1</sup></b>
057-00-00-009.00	Mary Lu Stephens 1185 Poplar Grove Rd Flemingsburg, KY 41041	225.34
057-00-00-009.01	Davetta & Larry Michael Coffey 6551 Mt Carmel Rd Flemingsburg, KY 41041	93.03
057-00-00-037.00	Daniel Schwartz, Marcus J. Miller and Mary Miller 697 Murray Lane Flemingsburg, KY 41041	86.26
057-00-00-038.00	Cheryl Souder 203 Poplar Grove Road Flemingsburg, KY 41041	96.00
058-00-00-015.00	Robert A. List 5480 Mt Carmel Rd Flemingsburg, KY 41041	221.12
058-00-00-024.00	Dottie A. List 5480 Mt Carmel Rd Flemingsburg, KY 41041	135.77
058-00-00-031.00	Geneva Earls 1003 Maddox Pike Flemingsburg, KY 41041	109.26
058-00-00-032.00	Judy & Ben Peachey 1175 Maddox Pike Flemingsburg, KY 41041	134.00
058-00-00-033.00	Barbara L. & Michael Hill 1184 Maddox Pike Flemingsburg, KY 41041	68.79
058-00-00-035.00	Richard Lowe 1412 Maddox Pike Flemingsburg, KY 41041	133.28
058-00-00-041.01	Duane R. Lowe 274 West Water St Flemingsburg, KY 41041	31.10
059-00-00-002.00	Mary Ann Brewer 1278 Beechtree Pike Flemingsburg, KY 41041	58.00
059-00-00-005.00	Leslie Litzler & Kelley Smith C/O Kenneth & Marilyn Dearing 1506 Beechtree Pk Flemingsburg, KY 41041	58.86
059-00-00-010.00	Donohoo Rapp Properties, LLC 5903 Wolfpen Pleasant Hill Rd Milford, OH 45150	243.63



## 2 Site Description

<b>Assessor Parcel Number (APN)</b>	<b>Owner Name and Address</b>	<b>Approximate Acres<sup>1</sup></b>
059-00-00-012.00	Sharon & Donald Young 1517 Wilson Run Rd Wallingford KY 41093	67.92
069-00-00-002.00	Andrew T. Heflin 395 Foxport Rd Wallingford, KY 41093	90.16
069-00-00-022.00	Thomas M. Skaggs 6582 Mt Carmel Rd Flemingsburg, KY 41041	122.23
069-00-00-023.00	Mary M. & James C. Robinson 6690 Mt Carmel Rd Flemingsburg, KY 41041	53.34
069-00-00-024.00	Teresa & Rick Hord 6091 Ribolt Epworth Tollesboro, KY 41189	79.98
069-00-00-030.00	Vickie & Lyle B. Utterback 2284 Carpenter Rd Wallingford, KY 41093	47.97
069-00-00-031.00	Danny W. Mineer 8639 Mt Carmel Rd Flemingsburg, KY 41041	51.48
069-00-00-035.00	Sherri Griffith 313 Tri County Rd Seamon, OH 45679	78.84
069-00-00-043.00	Aileen & Eric Carpenter 1423 Carpenter Rd Wallingford, KY 41093	117.39
069-00-00-045.00	Sandra D. Caudill 2975 Beechtree Pike Wallingford, KY 41093	29.68
069-00-00-047.00	Geraldine & Jimmie D. Kegley 170 Black Diamond Rd Wallingford, KY 41093	47.10
070-00-00-001.00	Helen L. Caudill 1151 Black Diamond Rd Wallingford, KY 41093	384.76
070-00-00-002.00	Johnny R. Tucker 1392 Black Diamond Rd Wallingford, KY 41093	243.17
070-00-00-006.00	Judy & Ben Peachey 1175 Maddox Pike Flemingsburg, KY 41041	182.00
070-00-00-012.00	John Gooding 5 Maysville Ave Mt Sterling, KY 40353	101.86
071-00-00-004.00	Rebecca & Spencer Rapp 6923 KY Highway 11 Mayslick, KY 41055	195.40
080-00-00-003.00	Gwen D. & Kevin L. Ocul 808 Breeze Rd Wallingford, KY 41093	112.97
080-00-00-005.00	Andrew Woodson Graham 574 Lakeside Dr Flemingsburg, KY 41041	53.20
080-00-00-005.01	Willa L. & Randall Meadows 785 Foxport Rd Wallingford, KY 41093	30.85



## 2 Site Description

Assessor Parcel Number (APN)	Owner Name and Address	Approximate Acres <sup>1</sup>
080-00-00-008.00	Eula G. Skaggs 971 Foxport Rd Wallingford, KY 41093	129.00
080-00-00-012.00	Eula G. Skaggs 971 Foxport Rd Wallingford, KY 41093	0.87
081-00-00-001.00	Eula G. Skaggs 971 Foxport Rd Wallingford, KY 41093	88.47
081-00-00-007.00	Ruby Mineer 502 Saunders Rd Wallingford, KY 41093	25.00
069-00-00-012.00	Ruby Mineer 502 Saunders Rd Wallingford, KY 41093	69.00
081-00-00-042.00	Jason Schwartz 1189 Foxport Rd Wallingford, KY 41093	89.32
081-00-00-046.00	Helen L. Caudill 1151 Black Diamond Rd Wallingford, KY 41093	60.00
081-40-00-001.00	Eula Skaggs 425 Burtonville Road Wallingford, KY 41093	9.34

1. The approximate acres presented are for the total parcel, not the portion of the parcel that would be used by the proposed Project.

## 2.2 Current Use of the Property

The Project Area is designated for agricultural use and is considered a legal use in its current configuration. Several residences and agricultural buildings, such as barns, sheds, silos, and spring houses, are located within the Project Area. Vehicular access to the subject properties can be accessed from Barrett Road, Wilson Run Road, Beechtree Pike, Murphy Lane, Poplar Grove Road, Maddox Road, Carpenter Road, Mount Carmel–Beechburg Road, Foxport Road, Black Diamond Road, and Breeze Road.

Photographs of the Project Area are provided in Appendix B, *Project Area Photographs*.

## 2.3 Description of Property Improvements

Table 2-2 provides general descriptions of the Project Area improvements.

**Table 2-2 Property Improvements**

Land Cover Type	Percent of Property
Approximate % Unimproved Areas	97%
Approximate % Agricultural Areas	1%
Approximate % Developed Areas	<1%
Approximate % Surface Water and Wetlands	<1%





2 Site Description

<b>Land Cover Type</b>	<b>Percent of Property</b>
Number of Occupied Buildings	A total of 15 residences are located within the Project Area.
Unoccupied Buildings/Spaces/Structures	A total of 41 outbuildings associated with agriculture, including sheds, garages, green houses, barns, and silos, are located within or adjacent to the Project Area.
General Buildings Description	The Project Area is highly agricultural with supporting structures and residences throughout.

## **2.4 Current Uses of Adjoining Properties**

Land use in the immediate vicinity of the Project Area is primarily agriculture with minor amounts of undeveloped woodlands and residential areas.



### **3 User-Provided Information**

The following section summarizes information (if any) provided by Hummingbird Energy LLC (the user) regarding the Phase 1 ESA. Supporting documentation is provided in the appendices to this Phase I ESA.

#### **3.1 Title Records**

The user provided title record information for the Project Area and was reviewed by Stantec.

#### **3.2 Environmental Liens or Activity and Use Limitations**

Review of environmental liens and activity and use limitation search was completed by ERIS and reviewed by Stantec for this Phase 1 ESA.

#### **3.3 Specialized Knowledge**

The user did not provide specialized knowledge regarding RECs associated with the Project Area.

#### **3.4 Significant Valuation Reduction for Environmental Issues**

The user did not provide information regarding a significant valuation reduction for environmental issues associated with the Project Area.

#### **3.5 Owner, Property Manager, and Occupant Information**

The user provided Stantec with site access and current landowner information.

#### **3.6 Reason for Performing Phase 1 ESA**

The user indicated that the Phase 1 ESA was being completed prior to a financial transaction regarding the Project Area. This Phase 1 ESA report is an update to the previously prepared Phase 1 ESA report conducted by Cardno now Stantec (Cardno now Stantec 2022).

#### **3.7 Other User-Provided Documents**

The user and property owners were provided an environmental questionnaire concerning the Project Area. The user questionnaire did not identify any RECs or environmental concerns. To date, Stantec has received four completed questionnaires from property owners. No RECs were identified from the responses. Additionally, Stantec staff reviewed the February 2022 Phase 1 Environmental Site Assessment for Hummingbird Solar. The February 2022 report included questionnaires received from 18 of 35 landowners and no RECs were identified from the questionnaires. Chemical use, consistent with agricultural practices (i.e., gasoline for equipment and pesticides for crops) was reported, but no environmental concerns were disclosed. No other documents were supplied to Stantec as described in



3 User-Provided Information

ASTM Standard Practice E 2247-16. The completed questionnaires do not materially change the findings of the Phase 1 ESA. The completed questionnaires are provided in Appendix C.



## 4 Records Review

### 4.1 Standard Environmental Records

The regulatory agency databases report discussed in this section was provided by Environmental Risk Information Services (ERIS) of Toronto, Ontario, and was reviewed for information regarding reported releases of hazardous substances and petroleum products on or near the Project Area. Stantec also reviewed the *unmappable* (also referred to as *orphan*) listings in the database report, cross-referencing available address information and facility names. Unmappable sites are listings that could not be plotted with confidence but potentially occur in the general area of the Project Area based on the partial street address, city, or zip code. Any unmappable site that Stantec identified as a being within the approximate minimum search distance from the Project Area, based on the site reconnaissance and/or cross-referencing to mapped listings, is discussed in this section. The complete regulatory agency database reports are provided in Appendix D. Table 4-1 provides a summary of the findings of the databases reviewed (ERIS 2023a).

**Table 4-1 Summary of Federal, State, and Tribal Database Findings**

Database ID	Database Name	Search Radius (mile)	Within Subject Property	Within 1 Mile of Subject Property
<b>Federal</b>				
DOE FUSRAP	Formerly Utilized Sites Remedial Action Program	1	0	0
NPL	National Priority List	1	0	0
PROPOSED NPL	National Priority List—Proposed	1	0	0
DELETED NPL	Deleted National Priority List	0.5	0	0
SEMS	Superfund Enterprise Management System—List 8R Active Site Inventory	0.5	0	0
SEMS ARCHIVE	Super Fund Enterprise Management System – Archive Site Inventory	0.5	0	0
ODI	Inventory of Open Dumps	0.5	0	0
IODI	EPA Report on the Status of Open Dumps on Indian Lands	0.5	0	0
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System	0.5	0	0
CERCLIS NFRAP	Comprehensive Environmental Response, Compensation and Liability Information System—No Further Remedial Action Planned	0.5	0	0
CERCLIS LIENS	Comprehensive Environmental Response, Compensation and Liability Information System—Liens	PO	0	N/A



## 4 Records Review

Database ID	Database Name	Search Radius (mile)	Within Subject Property	Within 1 Mile of Subject Property
RCRA CORRACTS	Resource Conservation and Recovery Act—Corrective Action	1	0	0
RCRA TSD	Resource Conservation and Recovery Act non-CORRACTS Treatment, Storage, and/or Disposal Facilities	0.5	0	0
RCRA LQG	Resource Conservation and Recovery Act—Generator List	0.25	0	0
RCRA SQG	Resource Conservation and Recovery Act—Small Quantity Generators List	0.25	0	0
RCRA VSQG	Resource Conservation and Recovery Act—Very Small Quantity Generators List	0.25	0	0
RCRA NON GEN	Resource Conservation and Recovery Act—Non-Generators	0.25	0	0
RCRA CONTROLS	Resource Conservation and Recovery Act—Sites with Controls	0.5	0	0
FED ENG	Federal Engineering Controls	0.5	0	0
FED INST	Federal Institutional Controls	0.5	0	0
LUCIS	Land Use Control Information System	0.5	0	0
NPL IC	Institutional Control Boundaries at National Priority List Sites	0.5	0	0
ERNS 1982 TO 1986	Emergency Response Notification System—1982 to 1986	PO	0	N/A
ERNS 1987 TO 1989	Emergency Response Notification System—1987 to 1989	PO	0	N/A
ERNS	Emergency Response Notification System	PO	0	N/A
FED BROWNFIELDS	The Assessment, Cleanup and Redevelopment Exchange System Brownfield Database	0.5	0	0
FEMA UST	Underground Storage Tank Listing	0.25	0	0
FRP	Facility Response Plan	0.25	0	0
DELISTED FRP	Delisted Facility Response Plans	0.25	0	0
HIST GAS STATIONS	Historical Gas Stations	0.25	0	0
REFN	Petroleum Refineries	0.25	0	0
BULK TERMINAL	Petroleum Product and Crude Oil Rail Terminals	0.25	0	0
SEMS LIEN	Superfund Enterprise Management System—Lien on Property	PO	0	N/A
SUPERFUND ROD	Superfund Decision Documents	1	0	0



## 4 Records Review

Database ID	Database Name	Search Radius (mile)	Within Subject Property	Within 1 Mile of Subject Property
<b>State</b>				
BROWNFIELDS	Brownfield Redevelopment Program	0.5	0	0
SHWS	State Leads Priority List	1	0	1
DELISTED SHWS	Delisted State Leads Priority List	1	0	0
SWF/LF	Solid Waste Facilities	0.5	0	0
HIST LANDFILL	Historic Landfills	0.5	0	0
SB193	SB193 Branch Site Inventory List	0.5	0	1
PSTEAF	Ranking List for UST Facilities	0.5	0	1
UST	Underground Storage Tanks	0.25	0	2
DELISTED STORAGE TANK	Delisted Storage Tank	0.25	0	0
ENG	Sites with Engineering Controls	0.5	0	0
INST	Sites with Institutional Controls	0.5	0	0
VCP	Voluntary Cleanup Program Sites	0.5	0	0
BROWNFIELD INV	Kentucky Brownfield Inventory	0.5	0	0
<b>Tribal</b>				
INDIAN LUST	Leaking Underground Storage Tanks on Indian Lands	0.5	0	0
INDIAN UST	Underground Storage Tanks on Indian Lands	0.25	0	0
DELISTED ILST	Delisted Tribal Leaking Storage Tanks	0.5	0	0
DELISTED IUST	Delisted Tribal Underground Storage Tanks	0.25	0	0
<b>Additional Environmental Records—Federal</b>				
FINDS/FRS	Facility Registry Service/Facility Index	PO	0	N/A
TRIS	Toxics Release Inventory Program	PO	0	N/A
PFAS NPL	Perfluorooctanoic acid/perfluorooctane sulfonate (PFOA/PFOS) Contaminated Sites	0.5	0	0
PFAS FED SITES	Federal Agency Locations with Known or Suspected Perfluorinated Alkyl Substances (PFAS) Detections	0.5	0	0
PFAS SSEHRI	Social Science Environmental Health Research Institute PFAs Contamination Sites	0.5	0	0
ERNS PFAS	National Response Center PFAS Spills	0.5	0	0
PFAS NPDES	PFAS National Pollutant Discharge Elimination System Discharge Monitoring	0.5	0	0
PFAS TRI	PFAS from Toxic Release Inventory	0.5	0	0
PFAS WATER	PFAS Water Quality	0.5	0	0
PFAS TSCA	PFAS TSCA Manufacture and Import Facilities	0.5	0	0



## 4 Records Review

Database ID	Database Name	Search Radius (mile)	Within Subject Property	Within 1 Mile of Subject Property
HMIRS	Hazardous Materials Information Reporting System	0.125	0	0
NCDL	National Clandestine Drug Labs	0.125	0	0
TSCA	Toxic Substances Control Act	0.125	0	0
HIST TSCA	Historic Toxic Substances Control Act	0.125	0	0
FTTS ADMIN	Federal Insecticide, Fungicide, and Rodenticide Act Administrative Case Listing	PO	0	N/A
FTTS INSP	Federal Insecticide, Fungicide, and Rodenticide Act Administrative Inspection Case Listing	PO	0	N/A
PRP	Potentially Responsible Parties List	PO	0	N/A
SCRD DRYCLEANER	State Coalition for Remediation of Drycleaners Listing	0.5	0	0
ICIS	Integrated Compliance Information System	PO	0	N/A
FED DRYCLEANERS	Drycleaner Facilities—Enforcement and Compliance History Online	0.25	0	0
DELISTED FED DRY	Delisted Drycleaner Facilities -Integrated Compliance Information System	0.25	0	0
FUDS	Formerly Used Defense Sites	1	0	0
FORMER NIKE	Former Military Nike Missile Sites	1	0	0
PIPELINE INCIDENT	Pipeline and Hazardous Materials Safety Administration—Pipeline Safety Flagged Incidents	PO	0	N/A
MLTS	Material Licensing Tracking System	PO	0	N/A
HIST MLTS	Historic Material Licensing Tracking System Sites	PO	0	N/A
MINES	Mines Master Index File	0.25	0	0
SMCRA	Surface Mining Control and Reclamation Act Sites	1	0	0
MRDS	Mineral Resource Data System	1	0	4
LM SITES	DOE Legacy Management Sites	1	0	0
ALT FUELS	Alternative Fueling Stations	0.25	0	0
CONSENT DECREES	Superfunds Consent Decrees	0.25	0	0
AFS	Air Facility System	PO	0	N/A
SSTS	Registered Pesticide Establishments	0.25	0	0
PCBT	Polychlorinated Biphenyl Transformers	0.5	0	0
PCB	Polychlorinated Biphenyl Notifiers	0.5	0	0



## 4 Records Review

Database ID	Database Name	Search Radius (mile)	Within Subject Property	Within 1 Mile of Subject Property
<b>Additional Environmental Records—State</b>				
SPILLS	Incidents	0.125	2	0
CDL	Clandestine Drug Laboratory Locations	PO	0	N/A
MINE	Permitted Mine Boundaries	1	0	0

Source: ERIS 2023a

Notes: PO = Property Only; N/A = Not Applicable

### 4.1.1 PROJECT AREA LISTINGS

The ERIS database query did not identify any sites within the Project Area. The ERIS database query identified a total of seven records adjacent to the Project Area from five locations. The records identified are all outside of the Project Area and are from the SPILLS database (two records), UST database (two records), PSTEAF database (one record) SB193 database (one record), and SHWS (one record). The SPILLS database includes two records for environmental complaints: (1) a dead cow and calf in the creek near 1622 Wilson Run Road (this record is marked as completed) and (2) illegal disposal and stockpiling of old vehicle gasoline (this record is marked as closed/mitigated). None of these records are considered to be RECs or considered to require additional investigation. Table 4-2 provides details for these records.

**Table 4-2 ERIS Database Query Records**

Map Number / ID	Distance (mile)	Of Environmental Concern	Database	Description
1 / 2468726	0.01	No	SPILLS	Dead cow and calf in creek/complaint. Record is marked as completed.
2 / 2323525	0.06	No	SPILLS	Illegal disposal (not open dump) stream degradation. Landowner stockpiling old vehicle gas. Record is marked as closed/mitigated.
3 / 61952	0.16	No	UST	Old Hintons Grocery—Temporary closure record for a UST. No record of leak occurring. Temporary closure in 1998.
4 / 104474	0.20	No	PSTEAF	Hursts Grocery—Record of groundwater monitoring requirements, release March 20, 2001, approved June 3, 2003.
4 / 2054-035	0.20	No	SB193	Hurst Grocery—Record for soils.
4 / 61940	0.20	No	UST	Hurst Grocery—Record of underground storage tank. Tank removal date of April 1, 1968; a closed-in-place record of March 20, 2001; tank removal date of August 29, 2005; a closed-in-place date of March 20, 2001; a tank removal of August 29, 2005.
5 / 52796	0.43	No	SHWS	Yoder Diesel Spill—Petroleum cleanup, site status closed, no action necessary.





## 4 Records Review

**4.1.2 SITES OF CONCERN LISTINGS**

During its review of the ERIS database report, Stantec did not identify any sites that would pose environmental concerns within or adjacent to the Project Area, and no additional investigation is recommended for the sites described in Section 4.1.1.

**4.1.3 ORPHAN LISTINGS**

The ERIS database report identified four unplottable or orphan listings for which location data are unknown. Database orphan listings include one FINDS/FRS and 10 SPILLS records related to a FINDS/FRS listing for a cattle operation and nine instances of water line breaks reported to the SPILLS database. Table 4-3 provides details for these records.

**Table 4-3 ERIS Database Query Orphan Site Records**

<b>Name</b>	<b>Distance (mile)</b>	<b>Of Environmental Concern</b>	<b>Database</b>	<b>Description</b>
Robert Marshall Beef Farm	Unknown	No	FINDS/FRS	KY-TEMPO database listing. This record did not provide any evidence for environmental concern.
Fleming Co. Water Association	Unknown	No, closed	SPILLS	Drinking Water Line Leak. Status is listed as closed.
Fleming Co. Water Association	Unknown	No, closed	SPILLS	Drinking Water Line Leak. Status is listed as closed.
Fleming Co. Water Association	Unknown	No, closed	SPILLS	Drinking Water Line Leak. Status is listed as closed.
Fleming Co. Water Association	Unknown	No, closed	SPILLS	Drinking Water Line Leak. Status is listed as closed.
Fleming Co. Water Association	Unknown	No, closed	SPILLS	Drinking Water Line Leak. Status is listed as closed.
Fleming Co. Water Association	Unknown	No, closed	SPILLS	Drinking Water Line Leak. Status is listed as closed.
Fleming Co. Water Association	Unknown	No, closed	SPILLS	Drinking Water Line Leak. Status is listed as closed.
Fleming Co. Water Association	Unknown	No, closed	SPILLS	Drinking Water Line Leak. Status is listed as closed.
Fleming Co. Water Association	Unknown	No, closed	SPILLS	Drinking Water Line Leak. Status is listed as closed.



#### 4.1.4 FEDERAL ENVIRONMENTAL RECORDS

<b>Name of Agency:</b>	US Environmental Protection Agency (USEPA) – Clean Ups in My Community Map (USEPA 2023)
<b>Website:</b>	<a href="https://www.epa.gov/cleanups/cleanups-my-community#map">https://www.epa.gov/cleanups/cleanups-my-community#map</a>
<b>Agency Address:</b>	N/A
<b>Agency Email:</b>	N/A
<b>Date of Contact:</b>	May 2023
<b>Method of Communication:</b>	N/A
<b>Communication Summary:</b>	Stantec reviewed the USEPA Clean Ups in My Community map for any superfund, Resource Conservation and Recovery Act (RCRA), DOE Legacy Management Sites, Underground Storage Tank Releases, Toxic Releases, NPDES Permitted Facilities, and RE-Powering America sites potentially occurring within 1 mile of the Project Area. No sites were identified.

#### 4.1.5 PUBLIC HEALTH DEPARTMENT

<b>Name of Agency:</b>	Fleming County Health Department
<b>Website:</b>	<a href="https://www.countyoffice.org/fleming-county-health-department-flemingsburg-ky-3ed/">https://www.countyoffice.org/fleming-county-health-department-flemingsburg-ky-3ed/</a>
<b>Agency Address:</b>	194 Windsor Road Flemingsburg, Kentucky, 41041
<b>Agency Phone Number:</b>	(606) 845-6511
<b>Agency Email:</b>	N/A
<b>Date of Contact:</b>	June 2023
<b>Method of Communication:</b>	Phone call
<b>Communication Summary:</b>	Stantec left a message with the Fleming County Health Department regarding environmental spills or cleanups that have occurred within the Project Area. No response has been received as of the date of this report. Based on its review of information from other sources, however, Stantec believes the lack of this information is unlikely to affect the conclusions or recommendations of this report.

#### 4.1.6 FLEMING COUNTY EMERGENCY MANAGEMENT

<b>Name of Agency:</b>	Fleming County Kentucky Emergency Management
<b>Website:</b>	<a href="http://www.flemingcountky.us/emergency.asp">http://www.flemingcountky.us/emergency.asp</a>
<b>Agency Address:</b>	100 Court Square Flemingsburg, KY 41041
<b>Agency Phone Number:</b>	(606) 845-1419
<b>Agency Email:</b>	Director – martinvoiers@gmail.com
<b>Date of Contact:</b>	June 2023
<b>Method of Communication:</b>	Phone call
<b>Communication Summary:</b>	Stantec left a message with the Emergency Management director to inquire about records of chemical or petroleum spills in the area. However, no response has been received as of the date of this report. Based on its review of information from other sources, however, Stantec believes the lack of this information is unlikely to affect the conclusions or recommendations of this report.



## 4 Records Review

**4.1.7 EMERGENCY RESPONSE**

<b>Name of Agency:</b>	The City of Flemingsburg (Flemingsburg Volunteer Fire Department)
<b>Website:</b>	<a href="mailto:codes.enforcement@flemingsburgky.org">codes.enforcement@flemingsburgky.org</a>
<b>Agency Address:</b>	80 Byron Way Flemingsburg, KY 41041
<b>Agency Phone Number:</b>	(606) 845-5371
<b>Agency Email</b>	N/A
<b>Date of Contact:</b>	May 2023
<b>Method of Communication:</b>	Phone call
<b>Communication Summary:</b>	Stantec attempted to contact the department on two separate occasions, but no one could be reached and no message could be left for the department. Based on its review of information from other sources, however, Stantec believes the lack of this information is unlikely to affect the conclusions or recommendations of this report.

**4.1.8 OIL AND GAS TRANSMISSION**

<b>Name of Agency:</b>	US Department of Transportation's National Pipeline Mapping System
<b>Website:</b>	<a href="https://pvnpm.phmsa.dot.gov/PublicViewer/">https://pvnpm.phmsa.dot.gov/PublicViewer/</a>
<b>Date of Contact:</b>	April 2023
<b>Method of Communication:</b>	Online
<b>Communication Summary:</b>	According to the online Geographic Information System viewer, no gas transmission or hazardous liquid pipelines are located in proximity to the Project Area.

**4.1.9 OIL AND GAS EXPLORATION**

<b>Name of Agency:</b>	Kentucky Geological Survey – Kentucky Oil and Gas Well Location Shapefile
<b>Website:</b>	<a href="#">Kentucky Oil and Gas Well Location Shapefile (uky.edu)</a>
<b>Date of Contact:</b>	April 2023
<b>Method of Communication:</b>	Online
<b>Communication Summary:</b>	According to the online Kentucky Geological Survey Kentucky Oil and Gas Well Location Shapefile, no gas wells are located within the Project Area.

**4.1.10 UTILITIES**

Public utilities, such as electricity, natural gas, and public water, are for properties in the general Project Area. According to the ERIS physical settings report (Appendix E), several water wells have been identified in the general Project Area (ERIS 2023b).

<b>Electrical Utility Company:</b>	Fleming-Mason Energy Cooperative
<b>Water Utilities:</b>	Fleming County Water Association and Flemingsburg Utilities System
<b>Sewer Utility:</b>	Flemingsburg Utilities System



---

**Natural Gas Utility:** Flemingsburg Utilities System

---

#### **4.1.11 OTHER LOCAL ENVIRONMENTAL RECORDS SOURCES**

No additional local environmental records sources were reviewed for this Phase 1 ESA.

### **4.2 Physical Setting Sources**

#### **4.2.1 TOPOGRAPHY**

The US Geological Survey 7.5-minute topographic series maps for Burtonville, Charters, Cranston, Elizaville, Flemingburg, Hillsboro, Mays Lick, Orangeburg, Tollesboro, Kentucky, were reviewed for this Phase 1 ESA. The contour lines on the topographic maps show that the Project Area generally consists of rolling hill topography and ranges from approximately 780 feet above mean sea level to 1,200 feet above mean sea level.

#### **4.2.2 GEOLOGY/SOILS**

The Project Area is situated within an area of Silurian-aged bedrock in the Outer Bluegrass physiographic province. Bedrock in the area consists of interbedded, calcareous shale and dolomitic limestone of the Bisher Limestone Formation, Upper Crab Orchard Formation, Lower Crab Orchard Formation, and Brassfield Formation.

Soils within the Project Area include silt loams, silty clay loams, and very rocky soils (Natural Resources Conservation Service 2023).

#### **4.2.3 HYDROLOGY**

According to topographic map interpretation, the direction of groundwater in the vicinity of the Project Area appears to flow toward the northwest. During the site reconnaissance, ponds were observed at various locations within the Project Area. Groundwater in the area is abundant and is estimated to occur within approximately 25 feet of the surface. Wells in the area range from 26 feet to 56 feet in depth.

#### **4.2.4 OTHER PHYSICAL SETTING SOURCES**

##### **4.2.4.1 Flood Plain Map**

Stantec performed a review of the Flood Insurance Rate Maps (FIRMs), published by the Federal Emergency Management Agency (FEMA). According to FIRM numbers 21069C0125C, 20169C0150C, 21069C0025C, 21069C0050C, 21069C0115C, 21135C0190D, 21135C0305D, 21135C017D, 21135C0315D, 21161C0190E, 21161C0195E, and 21161C0280E, approximately 289 acres fall within the 100-year floodplain (Zone A). Copies of the FEMA FIRMs are included in Appendix E.

##### **4.2.4.2 Wetlands Map**

A formal determination is provided under a separate cover.



### 4.3 Historical Records Sources

Table 4-4 summarizes the findings of the research presented in the following subsections pertaining to historical property and surrounding area uses.

**Table 4-4 Historical Use Information**

Period / Date	Source	Description / Use
1951–2016	Topographic maps	Undeveloped land
1947–2018	Aerial photographs	Primarily agriculture and open land

Potential environmental concerns were not identified in association with the current or former use of the Project Area.

#### 4.3.1 AERIAL PHOTOGRAPHS

Stantec reviewed aerial photographs of the Project Area and the surrounding areas dated from 1947 to 2018. The aerial photographs were obtained from ERIS on August 10, 2022 (ERIS 2022). Stantec staff did not identify any potential environmental concerns associated with the current or former use of the Project Area during the review of these photographs. Copies of the aerial photographs obtained for this report are included in Appendix F.

#### 4.3.2 HISTORICAL US GEOLOGICAL SURVEY TOPOGRAPHIC QUADRANGLES

Stantec staff also reviewed historical topographic maps of the Project Area dated from 1951–2016. These maps were obtained from ERIS on September 30, 2021 (ERIS 2021c). Stantec did not identify any potential environmental concerns associated with the current or former use of the Project Area during the review of these topographic maps. Copies of these topographic maps are included in Appendix G of this report.

#### 4.3.3 FIRE INSURANCE MAPS

Fire insurance maps were not requested because of the rural nature of the Project Area. Appendix H includes a statement from Environmental Data Resources stating that no maps are available for the Project Area (EDR 2019).

#### 4.3.4 PROPERTY TAX FILES

Property owner information was provided by the user; however, additional historical ownership information was not available.

#### 4.3.5 RECORDED LAND TITLE RECORDS AND ACTIVITY AND USE LIMITATIONS

Land and title records for the parcels evaluated in this Phase I ESA was acquired from ERIS and is provided in Appendix I Environmental Lien Search. Stantec did not identify any activity and use limitations or environmental liens for the Project parcels through review of the Environmental Lien Search.



#### **4.3.6 CITY DIRECTORIES**

Because of the rural nature and size of the Project Area, city directories were not reviewed for this Phase 1 ESA.

#### **4.3.7 PRIOR REPORTS**

This report is an update to the Hummingbird Solar Phase 1 ESA report produced by Cardno now Stantec on February 2, 2022. Stantec did not identify any RECs or environmental concerns within the properties evaluated.

#### **4.3.8 OTHER HISTORICAL SOURCES**

No other historical sources were reviewed for this Phase 1 ESA.



## 5 Site Reconnaissance

The initial unaccompanied site reconnaissance was conducted by Jonathan Hess and Kelsey Cleve on May 22 through 23, 2023. This visit was focused on the publicly accessible areas of the Project Area and noted only exterior features.

The Project Area was found to contain residences and agricultural structures (barns, silos, and sheds) ASTs, agricultural equipment, machinery, barrels, debris, and transformers. Most of these items were observed near or at farm operating areas or residences. No records of spills are associated with the Project Area, and no dead or stressed vegetation was identified near these areas; therefore, they are not expected to be an environmental concern. Stantec also documented several pole transformers within the Project Area. Photographs of the Project Area are included in Appendix B. Table 5-1 summarizes the observed conditions documented during the site reconnaissance.

**Table 5-1 Historical Use Information**

Observation	Photos	Total Number of Observations <sup>1</sup>
Barrel/Container	20, 21, 22, 97, 108, 127	6
AST	7, 17, 19, 26, 35, 63, 64, 84, 99, 123, 128, 130, 131, 136	14
Agricultural/Industrial Equipment	2, 4, 5, 7, 39, 38, 41, 42, 43, 44, 62, 63, 64, 65, 82, 83, 84, 87, 88, 145, 92, 93, 97, 108, 121, 122, 124, 132, 141	29
Transformer	2, 3, 7, 11, 18, 23, 25, 26, 28, 31, 33, 38, 46, 51, 57, 68, 75, 84, 85, 142, 90, 100, 102, 104, 109, 113, 127, 135, 138, 145	30
Residence	11, 3, 26, 33, 34, 36, 70, 100, 101, 106, 115, 134, 143, 144	14
Agricultural Structure (Barn, Silo, shed)	2, 4, 5, 6, 8, 12, 13, 14, 16, 20, 24, 25, 28, 31, 37, 43, 44, 48, 49, 56, 59, 143, 63, 67, 68, 71, 76, 77, 82, 84, 88, 130, 139, 90, 91, 96, 105, 107, 114, 121, 126, 129, 133, 137	43
Well	29	1
Debris	40, 50, 66, 77, 86, 96, 97, 98, 103, 121, 131	11

1. The total number of observations may not equal the total number of photos because some observations may have multiple photos.

### 5.1 Methodology and Limiting Conditions

The site reconnaissance consisted of visual and/or physical observations of the Project Area and improvements, adjoining sites as viewed from the Project Area, and the surrounding area based on visual observations made during the trip to and from the Project Area. At the time of the inspection of the Project Area, the weather conditions were sunny and approximately 80 degrees Fahrenheit.

### 5.2 Hazardous Substance Use, Storage, and Disposal

Multiple ASTs containing unknown substances were observed at various locations within the Project Area (see Section 5.3 for details).



### **5.3 Aboveground and Underground Hazardous Substance or Petroleum Product Storage Tanks**

Stantec staff observed 14 ASTs within the Project Area. No odor or stressed vegetation was observed at any of the ASTs documented during the site assessment. Photographs of the ASTs are provided in Appendix B. According to the user, these ASTs are located within portions of the Project Area outside the footprint of the proposed solar development. The ASTs appear unlikely to represent an environmental concern and Stantec recommends no further investigation regarding this issue.

### **5.4 Polychlorinated Biphenyls**

Older transformers and other electrical equipment could contain polychlorinated biphenyls (PCBs) at a level that subjects them to regulation by the US Environmental Protection Agency (USEPA). PCBs in electrical equipment are controlled by USEPA regulations 40 CFR, Part 761. Under the regulations, electrical equipment can be classified into three categories: (1) *Non-PCB* – less than 50 parts per million (ppm) of PCBs, (2) *PCB-Contaminated* – 50 to 500 ppm, and (3) *PCB-Containing* – greater than 500 ppm. The manufacture, process, or distribution in commerce or use of any PCB in any manner other than in a totally enclosed manner was prohibited after January 1, 1977.

The onsite reconnaissance addressed outdoor transformers that may contain PCBs. In total, 30 transformers were observed throughout the Project Area. Stantec staff also observed 7 other instances of potential PCB-containing electrical and hydraulic equipment, such as farm and heavy equipment that could potentially contain PCBs. Stantec identified no evidence of any leaks or releases in connection with any of this equipment, concludes they appear unlikely to represent an environmental concern, and recommends no further investigation regarding this issue.

### **5.5 Unidentified Substance Containers**

As discussed in Section 5.3, Stantec staff observed 14 ASTs and 6 instances of barrels or other chemical containers within the Project Area. No odor or stressed vegetation was observed at any of the ASTs or containers documented during the site assessment. The ASTs or containers either appeared to be empty or the fill level could not be determined. No stressed vegetation was observed in proximity to the barrels. According to the user, these unidentified substance containers are located within portions of the Subject Properties outside the footprint of the proposed solar development. The ASTs appear unlikely to represent an environmental concern and Stantec recommends no further investigation regarding this issue.

### **5.6 De Minimis and Other Chemical Observations**

Stantec staff observed evidence of *de minimis* debris and other chemical products associated with agricultural operations within the Project Area and on adjoining properties. These observations included 29 instances of agricultural or industrial equipment and 11 areas with debris, including tires, garbage, building materials, and other debris. Stantec identified no evidence of any leaks or releases in connection with any of this equipment, concludes they appear unlikely to represent an environmental concern, and recommends no further investigation regarding this issue.





## **5.7 Structures**

Stantec observed 44 agricultural structures including barns, sheds, and silos within the Project Area and 14 residences. Many residences and agricultural-related structures were in use at the time of the onsite investigation.

## **5.8 Wastewater**

Stantec staff did not observe any wastewater systems within the Project Area.

## **5.9 Sumps**

Stantec staff did not observe evidence of sumps or oil/water separators within the Project Area.

## **5.10 Septic Systems**

Stantec staff did not observe any signs of relic septic tanks; however, residences and businesses within the Project Area are assumed to be on septic systems. Given the contemplated use of these septic systems, if present, they appear unlikely to represent an environmental concern.

## **5.11 Stormwater Management System**

Stantec staff did not identify any stormwater management systems during the onsite investigation.

## **5.12 Wells**

Stantec observed one groundwater well within the Project Area. According to the ERIS physical settings report (Appendix E), no water wells are recorded within the Project Area. However, 20 water wells are located within 1 mile of the Project Area. No oil and gas wells are located within the Project Area (University of Kentucky 2023).



## 6 Interviews

Stantec contacted Fleming County Health Department, Fleming County Emergency Management Department, and Flemingsburg Volunteer Fire Department via telephone call and left messages where possible requesting information on known spills or contamination potentially in proximity to the Project Area. No response had been received from these agencies at the time this report was prepared. The Flemingsburg Volunteer Fire Department could not be reached and a message could not be left with the department.



## 7 Other Environmental Conditions

### 7.1 Asbestos-containing Material

Asbestos is the name given to a number of naturally occurring, fibrous silicate minerals mined for their useful properties, such as thermal insulation, chemical and thermal stability, and high tensile strength. The Occupational Safety and Health Administration's regulation 29 CFR 1926.1101 requires that certain construction materials are presumed to contain asbestos. All thermal system insulation, surfacing material, and asphalt/vinyl flooring that are present in a building constructed prior to 1981 and have not been appropriately tested are *presumed* to be asbestos-containing material (ACM).

Because of the agricultural use of the Project Area, ACM was not considered within the scope of this Phase 1 ESA. According to the user, the majority of structures that potentially contain ACM are located within portions of the Project Area outside the footprint of the proposed solar development. For any structures planned for demolition in connection with the proposed development, Stantec recommends an ACM assessment.

### 7.2 Radon

Radon is a colorless, odorless, naturally occurring, radioactive, inert, gaseous element formed by radioactive decay of radium (Ra) atoms. USEPA has prepared a map to assist national, state, and local organizations to target their resources and to implement radon-resistant building codes. The map divides the country into three Radon Zones, as detailed in Table 7-1.

**Table 7-1 USEPA Radon Zones**

Zones	Average Predicted Radon Levels	Potential
Zone 1	Exceed 4.0 pCi/L	Highest
Zone 2	Between 2.0 and 4.0 pCi/L	Moderate
Zone 3	Less than 2.0 pCi/L	Low

Note: pCi/L – picocuries per liter

It is important to note that USEPA has found homes with elevated levels of radon in all three zones and that it recommends site-specific testing to determine radon levels at a specific location; however, the map provides a valuable indication of the propensity of radon gas accumulation in structures.

Radon sampling was not conducted as part of this Phase 1 ESA. Review of the USEPA map of Radon Zones places the Project Area in Zone 2. Based upon the radon zone classification, radon can be present, but the average predicted radon level is between 2.0 and 4.0 pCi/L and would be a moderate environmental concern. Based on the contemplated use of the Project Area, Stantec recommends no further investigation regarding this issue.



### **7.3 Lead in Drinking Water**

According to 2022 Water Quality Report for the Fleming County Water Association (KY0350133), water supplied in the Project Area was tested for lead and was found to contain lead at 4 parts per billion which did not exceed the action criteria (Fleming County Water Association 2022).

### **7.4 Lead-based Paint**

Lead is a highly toxic metal that affects virtually every system of the body. Lead-based paint (LBP) is defined as any paint, varnish, stain, or other applied coating that has 1 milligram per square centimeter (mg/cm<sup>2</sup>, or 5,000 microgram per gram [ $\mu$ g/g] or 0.5 percent by weight) or more of lead. Congress passed the Residential Lead-Based Paint Hazard Reduction Act of 1992, also known as Title X, to protect families from exposure to lead from paint, dust, and soil. Under Section 1017 of Title X, intact LBP on most walls and ceilings is not considered to be a hazard, although the condition of the paint should be monitored and maintained to ensure that it does not become deteriorated. Further, Section 1018 of this law directed the US Department of Housing and Urban Development and USEPA to require the disclosure of known information on LBP and LBP hazards before the sale or lease of most housing built before 1978.

Because of the agricultural use of the Project Area, LBP was not considered within the scope of this Phase 1 ESA.

### **7.5 Mold Screening**

Molds are microscopic organisms found virtually everywhere—indoors and outdoors. Mold grows and multiplies under the right conditions, needing only sufficient moisture (e.g., in the form of very high humidity, condensation, or water from a leaking pipe) and organic material (e.g., ceiling tile, drywall, paper, or natural fiber carpet padding) (ASTM 2006).

No obvious indications of water damage or mold growth were observed during Stantec's visual assessment.

### **7.6 Vapor Encroachment**

Stantec did not conduct a limited screening for potential vapor encroachment conditions (VECs) that may affect the Project Area. A VEC screening would focus on the current and historical usage of the Project Area; instead, Stantec used the regulatory database report provided by ERIS to evaluate the potential for chemicals of concern, including petroleum hydrocarbons, and identified no potential sources of concern on the subject property or surrounding sites. Further, based on the contemplated use of the Project Area, Stantec concludes that vapor encroachment is unlikely to represent an environmental concern.



## 8 References

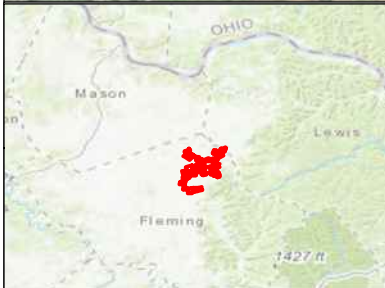
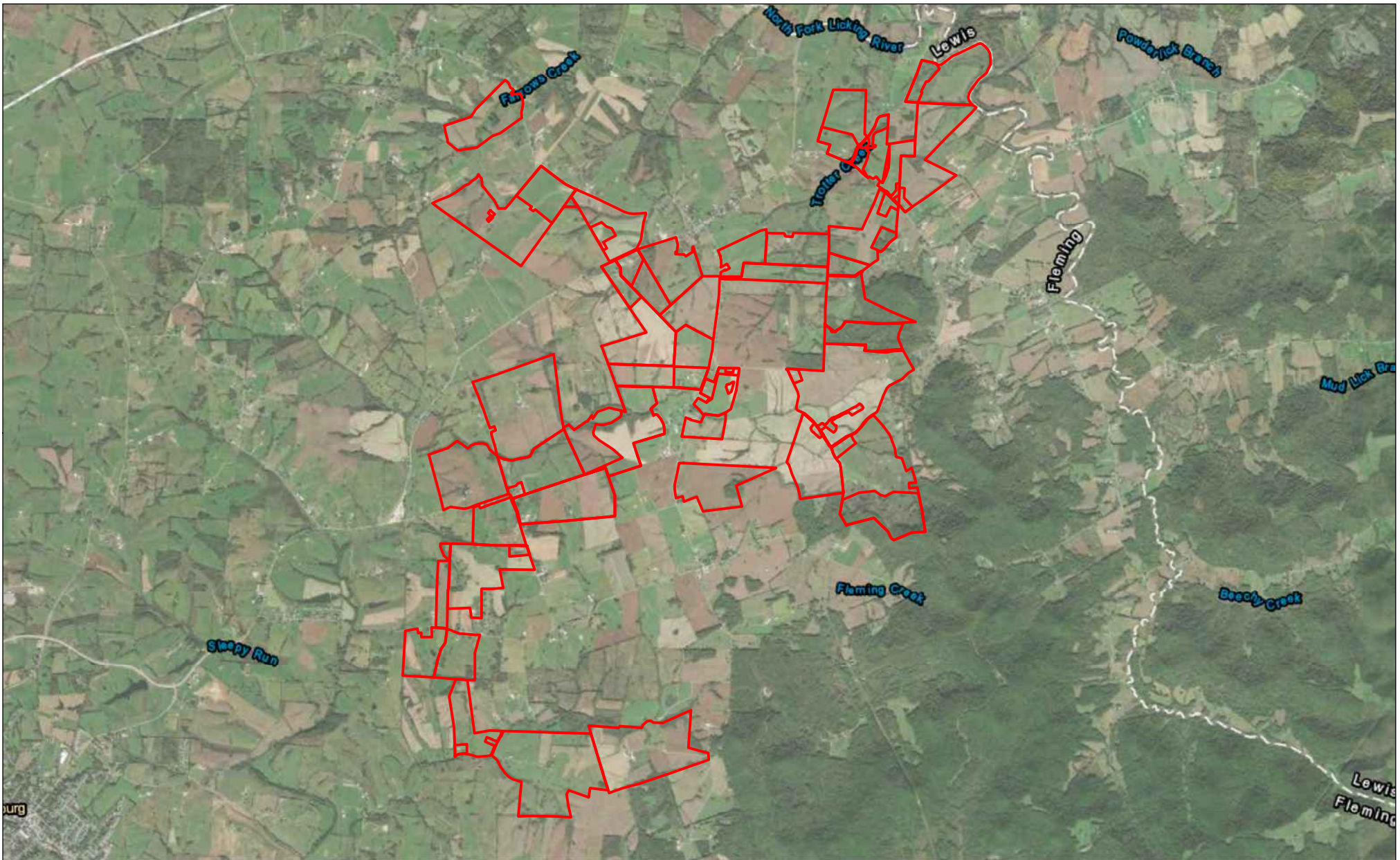
- ASTM (ASTM International). 2006. *Standard Guide for Readily Observable Mold and Conditions Conducive to Mold in Commercial Buildings: Baseline Survey Process, ASTM Designation E 2418-06* March 2006.
- . 2016. *Standard Practice for Environmental Site Assessments: Phase 1 Environmental Site Assessment Process, ASTM Designation E 2247-16*. December 2016.
- Cardno now Stantec. 2022. Phase 1 Environmental Site Assessment, Hummingbird Solar – Fleming County, Kentucky. February 2, 2022.
- EDR (Environmental Data Resources). 2019. *Certified Sanborn Map Report, Inquiry Number 5652216.3*, dated May 15, 2019.
- ERIS (Environmental Risk Information Services). 2023a. *Database Report, Order Number 23040300681*, dated April 4, 2023
- . 2023b. Physical Setting Report, Order Number, 23040300681 dated April 4, 2023.
- . 2023c. Environmental Lien Search, Order Number, 23080100478-EL1 dated August 3, 2023.
- . 2022a. *Historical Aerials, Order Number 20192300613*, dated September 29, 2021.
- . 2022b. *Topographic Maps, Order Number 22121200544*, dated September 29, 2021.
- . 2021a *Historical Aerials; Order Number 21092300613*, dated September 28, 2021
- . 2021b. *Topographic Maps; Order Number 21092300613*, dated September 23, 2021
- Fleming County Water Association. 2022. 2022 Water Quality Report. Available at: <https://tapwaterinfo.com/flemingcounty.pdf>. Accessed May 2023.
- University of Kentucky. 2023. Kentucky Geological Survey. Kentucky Oil and Gas Well Location Shapefile. Available at: <https://www.uky.edu/KGS/emsweb/data/kyogshape.html>. Accessed April 2023.
- US Department of Agriculture, Natural Resource Conservation Service. 2023. Web Soil Survey. Available at: <https://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm>. Accessed October April 2023.
- USEPA (United States Environmental Protection Agency). 2023. Clean Ups in My Community. Available at: <https://www.epa.gov/cleanups/cleanups-my-community#map>. Accessed May 2023.



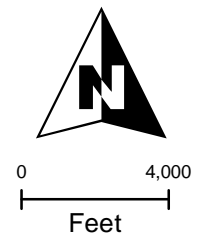
# **Appendix A**

## **Site Vicinity Map**





 Project Area



 **Stantec**

Hummingbird Energy LLC Solar Project  
Phase I ESA  
Fleming County, Kentucky

**Project Overview Map**

Date: June 2023	Project No: 237800383	Appendix: <b>A</b>
--------------------	--------------------------	-----------------------

# **Appendix B**

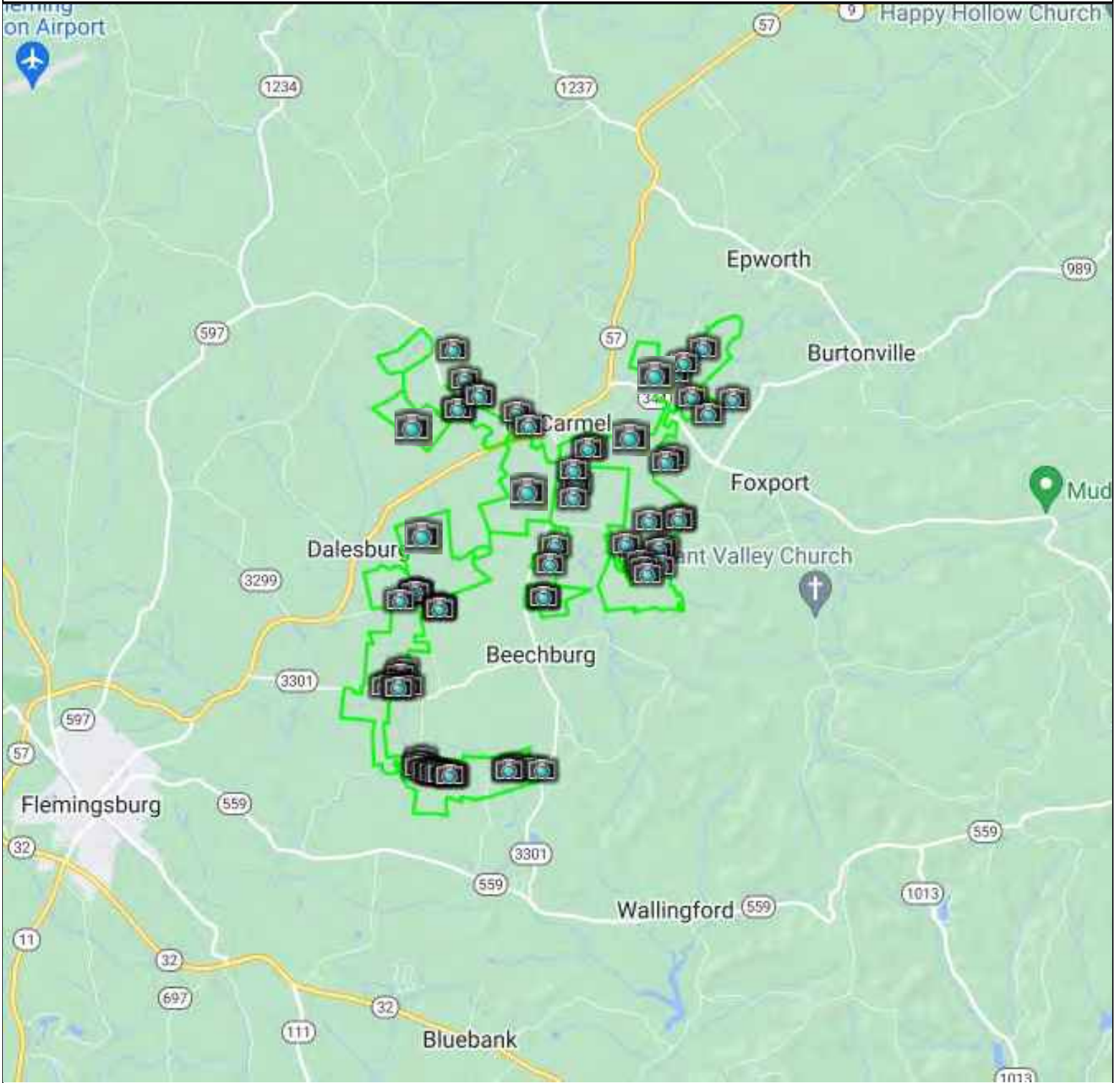
# **Project Area Photographs**





**Project Name:** Hummingbird Solar Project  
**Site Location:** N/A, Flemingsburg, KY

**Project No:** 237800383



**Google Base Map**

**Project Name:** Hummingbird Solar Project  
**Site Location:** N/A, Flemingsburg, KY

**Project No:** 237800383

**Photograph ID:**

1

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

General Site Condition  
Photo



**Photograph ID:**

2

**Photograph Tag:**  
transformer and silo

**Survey Date:**

22-MAY-23

**Comments:**

Tractor, Silo, and  
Transformer



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

3

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

Residence and two  
transformers



**Photograph ID:**

4

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

Pole barn and  
agricultural equipment



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

5

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

Barn and agricultural  
equipment



**Photograph ID:**

6

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

Silo



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

7

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

Two transformers, AST,  
and generator in shed



**Photograph ID:**

8

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

Barn and silo



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

9

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

General site conditions photo



**Photograph ID:**

10

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

General site conditions photo



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

11

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

Residence and  
transformer



**Photograph ID:**

12

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

Storage in barn



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

13

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

Agricultural equipment and storage in barn



**Photograph ID:**

14

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

Barn





**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

15

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

General site conditions photos



**Photograph ID:**

16

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

Barn



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

17

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

AST



**Photograph ID:**

18

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

Transformer



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

19

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

AST



**Photograph ID:**

20

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

Empty barrels in barn.



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

21

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

Inside barn with debris  
and empty barrel



**Photograph ID:**

22

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

Hydraulic fluid barrels  
(appear empty)



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

23

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

Transformer



**Photograph ID:**

24

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

Spring house



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

25

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

Transformer



**Photograph ID:**

26

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

Residence with AST and transformer



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

27

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

General site conditions photo



**Photograph ID:**

28

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

Transformer and barn



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

29

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

Well with concrete pad



**Photograph ID:**

30

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

General site conditions photo





**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

31

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

Transformer and residence



**Photograph ID:**

32

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

General site conditions photo



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

33

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

Transformer and residence



**Photograph ID:**

34

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

Residence



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

35

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

Propane AST at residence



**Photograph ID:**

36

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

Residence



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

37

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

Barn with equipment and truck storage



**Photograph ID:**

38

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

Transformer



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

39

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

Truck and equipment storage with AST



**Photograph ID:**

40

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

Equipment storage and debris



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

41

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

Agricultural equipment and transformer.



**Photograph ID:**

42

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

Agricultural equipment storage



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

43

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

Barn with chemical storage and agricultural equipment



**Photograph ID:**

44

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

Agricultural equipment



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

45

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

General site conditions photo



**Photograph ID:**

46

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

Transformer





**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

47

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

General site conditions photos



**Photograph ID:**

48

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

Hay storage barn



**Project Name:** Hummingbird Solar Project  
**Site Location:** N/A, Flemingsburg, KY

**Project No:** 237800383

**Photograph ID:**  
49

**Photograph Tag:**

**Survey Date:**  
22-MAY-23

**Comments:**

Silo



**Photograph ID:**  
50

**Photograph Tag:**

**Survey Date:**  
22-MAY-23

**Comments:**

Drain pipe and fencing material



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

51

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

Transformer



**Photograph ID:**

52

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

General site conditions photo



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

53

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

General site conditions  
photo



**Photograph ID:**

54

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

General site conditions  
photo



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

55

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

General site conditions  
photo



**Photograph ID:**

56

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

Barn, equipment, and car  
storage



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

57

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

Transformer



**Photograph ID:**

58

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

General site conditions  
photo



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

59

**Photograph Tag:**

**Survey Date:**

22-MAY-23

**Comments:**

Barn



**Photograph ID:**

60

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

General site conditions  
photo



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**  
61

**Photograph Tag:**

**Survey Date:**  
23-MAY-23

**Comments:**

General site conditions photo



**Photograph ID:**  
62

**Photograph Tag:**

**Survey Date:**  
23-MAY-23

**Comments:**

Truck and equipment storage





**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

63

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Silos, AST, barn, and equipment storage



**Photograph ID:**

64

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

AST and equipment storage



**Project Name:** Hummingbird Solar Project  
**Site Location:** N/A, Flemingsburg, KY

**Project No:** 237800383

**Photograph ID:**  
65

**Photograph Tag:**

**Survey Date:**  
23-MAY-23

**Comments:**

Tractor and truck  
storage at barn



**Photograph ID:**  
66

**Photograph Tag:**

**Survey Date:**  
23-MAY-23

**Comments:**

Abandoned farm  
equipment and debris



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

67

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Barn and hay storage



**Photograph ID:**

68

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Silos and transformer



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

69

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

General site conditions  
photo



**Photograph ID:**

70

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Residence



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

71

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Silos



**Photograph ID:**

72

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

General site condition  
photo



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

73

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

General site condition photo



**Photograph ID:**

74

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

General site condition photo



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

75

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Transformer



**Photograph ID:**

76

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Silo



**Project Name:** Hummingbird Solar Project  
**Site Location:** N/A, Flemingsburg, KY

**Project No:** 237800383

**Photograph ID:**  
77

**Photograph Tag:**

**Survey Date:**  
23-MAY-23

**Comments:**

Abandoned truck at barn  
and storage building



**Photograph ID:**  
78

**Photograph Tag:**

**Survey Date:**  
23-MAY-23

**Comments:**

General site condition  
photo





**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

79

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

General site condition photo



**Photograph ID:**

80

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

General site condition photo



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

81

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

General site condition photo



**Photograph ID:**

82

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Pole barn with storage agricultural equipment



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

83

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Pole barn with stored agricultural equipment



**Photograph ID:**

84

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Old agricultural equipment, truck, silo, transformer, and ASTs



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

85

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Old agricultural  
equipment and vehicles



**Photograph ID:**

86

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Debris outside of barn



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

87

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Old fork lifts and barn



**Photograph ID:**

88

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Agricultural equipment stored in barn



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

89

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

General site conditions photo



**Photograph ID:**

90

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Silos and transformer



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

91

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Silo and barn



**Photograph ID:**

92

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Stored tractor and ag equipment



**Project Name:** Hummingbird Solar Project  
**Site Location:** N/A, Flemingsburg, KY

**Project No:** 237800383

**Photograph ID:**  
95

**Photograph Tag:**

**Survey Date:**  
23-MAY-23

**Comments:**

Tractor with ag equipment



**Photograph ID:**  
96

**Photograph Tag:**

**Survey Date:**  
23-MAY-23

**Comments:**

Barn filled with debris





**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

97

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Tractor stored at barn



**Photograph ID:**

98

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Boat and debris stored at barn



**Project Name:** Hummingbird Solar Project  
**Site Location:** N/A, Flemingsburg, KY

**Project No:** 237800383

**Photograph ID:**  
99

**Photograph Tag:**

**Survey Date:**  
23-MAY-23

**Comments:**

ASTs at barn



**Photograph ID:**  
100

**Photograph Tag:**

**Survey Date:**  
23-MAY-23

**Comments:**

Residence



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

101

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Residence



**Photograph ID:**

102

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Transformer



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

103

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Debris



**Photograph ID:**

104

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Transformer by residence



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**  
105

**Photograph Tag:**

**Survey Date:**  
23-MAY-23

**Comments:**

General site condition  
photo, barn, silo



**Photograph ID:**  
106

**Photograph Tag:**

**Survey Date:**  
23-MAY-23

**Comments:**

Recent construction



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

107

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Active dairy barn



**Photograph ID:**

108

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Ag chemicals in sprayer



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

109

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Transformer



**Photograph ID:**

110

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

General site conditions  
photo



**Project Name:** Hummingbird Solar Project  
**Site Location:** N/A, Flemingsburg, KY

**Project No:** 237800383

**Photograph ID:**  
111

**Photograph Tag:**

**Survey Date:**  
23-MAY-23

**Comments:**

General site conditions photo



**Photograph ID:**  
112

**Photograph Tag:**

**Survey Date:**  
23-MAY-23

**Comments:**

General site conditions photo





**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

113

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Transformer



**Photograph ID:**

114

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Barn



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

115

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Residence



**Photograph ID:**

116

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

General site condition  
photo



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

117

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

General site condition photo



**Photograph ID:**

118

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

General site condition photo



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

119

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

General site conditions photos



**Photograph ID:**

120

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

General site conditions photo



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

121

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Barn with ag equipment



**Photograph ID:**

122

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Ag equipment and tires



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

123

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Ag equipment and AST



**Photograph ID:**

124

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Ag equipment



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

125

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

General site conditions  
photo



**Photograph ID:**

126

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

General site conditions  
and barn



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

127

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Transformer



**Photograph ID:**

128

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

AST and barn





**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

129

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Silo and barn



**Photograph ID:**

130

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Propane AST



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

131

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

AST and debris



**Photograph ID:**

132

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Ag equipment



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

133

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Barn



**Photograph ID:**

134

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Residence



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

135

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Transformer



**Photograph ID:**

136

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Propane AST



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

137

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Barn



**Photograph ID:**

138

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Transformer



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

139

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Old barn



**Photograph ID:**

140

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

General site conditions  
photo



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

141

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Store ag equipment



**Photograph ID:**

142

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Transfomer



**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

143

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Dilapidated residence  
and outbuilding



**Photograph ID:**

144

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Residence





**Project Name:** Hummingbird Solar Project

**Project No:** 237800383

**Site Location:** N/A, Flemingsburg, KY

**Photograph ID:**

145

**Photograph Tag:**

**Survey Date:**

23-MAY-23

**Comments:**

Trucks, equipment, and transformer



# **Appendix C**

## **User Questionnaires**



# RECURRENT ENERGY

A subsidiary of Canadian Solar

Hummingbird Energy LLC  
98 San Jacinto Blvd., Suite 750  
Austin, TX 78701

[www.recurrentenergy.com](http://www.recurrentenergy.com)

June 29, 2023

## **VIA USPS MAIL**

Andrew T. Heflin  
395 Foxport Road  
Wallingford KY, 41093

RE: Stantec Inquiry Questionnaire; Environmental Due Diligence under (Option and Solar Ground Lease Agreement dated, September 25, 2019) by and between (Andrew T. Heflin) and Hummingbird Solar LLC (the "Agreement").

Dear Landowner,

Our consultant, Stantec, recently conducted Phase I ESA Update and/or USACE Wetland Review on your Property as part of our environmental due diligence of the Property under the Agreement noted above. As part of that process, we need the Property owner, or a person familiar with the Property, to complete the enclosed Stantec Inquiry Questionnaire (the "Questionnaire"). As you will see, this is a comprehensive Questionnaire covering multiple land uses and includes some questions that may not apply to the Property. "N/A," "unknown," or "not known" are common responses if the questions do not apply to the Property or if you are unsure.

We would appreciate it if you could complete and return the Questionnaire to us by Wednesday, July 19<sup>th</sup>, 2023, at the mailing address below:

Hummingbird Energy LLC  
Attn: Real Estate  
98 San Jacinto Blvd., Suite 750  
Austin, TX 78701

Or by scanning and emailing the completed Questionnaire to [orla.lavender@recurrentenergy.com](mailto:orla.lavender@recurrentenergy.com).

Alternatively, if you prefer, instead of completing the Questionnaire, we could also schedule a brief phone interview with a consultant at Stantec for you to provide the necessary information. Please let me know if this would be your preference.

Sincerely,

*Orla Lavender*

Orla Lavender  
Manager-Real Estate  
[orla.lavender@recurrentenergy.com](mailto:orla.lavender@recurrentenergy.com)  
(415) 640-2984

Hummingbird Energy LLC

**All Appropriate Inquiry Questionnaire**



The All Appropriate Inquiry rule (40 CFR Part 312) requires that certain inquiries be made to past and present owners, operators and occupants to help evaluate the environmental conditions of the property. Please answer all questions to the best of your ability.

Name: Andrew H. Lin

Date: 7-12-23

Property address: 395 Foxport, Rd. Wailingford, Ky. 41093

- 1) What is the current use(s) of the property? For instance, residential, commercial, agricultural (multiple responses are acceptable). Please list all on-site businesses and contact information for each owner / operator, if any.

Hay & Beef

- 2) List the known uses/occupants of all adjacent properties including which direction the property is located relative to yours.

<u>Charles Lusford</u>	<u>Hay &amp; Beef</u>	<u>west</u>
<u>Sam White</u>	<u>Hay &amp; Beef</u>	<u>north</u>
<u>Randy Meadows</u>	<u>Hay &amp; Beef</u>	<u>north</u>

- 3) Do you know the past uses of the property?  Yes  No

List: (i.e, undeveloped prior to 1940, agricultural 1940 to 1968, etc).

Agricultural

- 4) What have adjacent properties been used for in the past (please include which direction the property is located relative to yours)?

Farming Hay. Beef - all are the same

5) What is the total acreage of the property? 60 Acres and the square footage of each building? N/A

6) When was each structure built and what was there before construction? NA

7) What is the heating source of each building? NA

8) Was the fuel source for the building(s) ever heating oil?  Yes  No  Unknown

9) What is the water source for the property?  Public Supply  Well  Unknown

10) What is the sanitary service for the property?  Public Sanitary Sewer  Septic System  Unknown

11) Has there ever been a septic system on the property?  Yes  No  Unknown

12) Are any wells present on the property?  Yes  No  Unknown

13) Are floor drains present on the property?  Yes  No  Unknown

14) Where do the drains discharge?  N/A

15) Are any sumps, sand traps, grease traps or oil-water separators present now or historically on the property?  Yes  No  Unknown

16) Are there any transformers, hydraulic lifts or other potentially PCB-containing equipment on the property?  Yes  No  Unknown

17) If so, has the PCB content been tested?  Yes  No  Unknown

18) Have areas of the property been used as borrow pits?  Yes  No If yes, please explain:  
\_\_\_\_\_  
\_\_\_\_\_

19) Have areas of the property been filled with debris or fill of unknown origin?  Yes  No  
If yes, please explain: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

20) Is there now or has there been automobile/farm equipment/equipment repair, a parts washer or degreaser present at the property?  Yes  No If yes, please explain:  
\_\_\_\_\_  
\_\_\_\_\_

21) Are hazardous substances or petroleum products stored, generated, treated or disposed at the property?  Yes  No If yes, please list / explain:

---

---

---

22) Are there now or have there ever been underground storage tanks (USTs) present on the property?  Yes  No If yes, please list / explain:

---

---

---

23) How many USTs are/were present? (Please provide the contents, age, location, and size for each)  N/A \_\_\_\_\_

---

---

24) Are the USTs in service, closed-in-place or removed? Please provide applicable closure/removal reports or current tightness testing results.  In Service  Removed  Closed-in-place  N/A \_\_\_\_\_

---

---

25) Are there now or have there ever been aboveground storage tanks (ASTs) present on the property?  Yes  No If yes, please list / explain:

---

---

---

26) How many ASTs are/were present? (Please provide the contents, age, location, and size for each)  N/A \_\_\_\_\_

---

---

27) Are the ASTs in service or removed? Please provide applicable closure/removal reports or current tightness testing results.  In Service  Removed  N/A

28) Were chemicals such as solvents, petroleum products, inks, paints, oils, or pesticides used in the past?  Yes  No If yes, please explain: \_\_\_\_\_

---

---

---

29) Do you know of specific chemicals that are present or once were present at the property or adjacent properties?  Yes  No If yes, please list:

---

---

---

30) Were hazardous substances or petroleum products stored, generated, treated or disposed at the property?  Yes  No If yes, please explain / list:

---

---

31) Do you know of spills or other chemical releases that have taken place at the property or adjacent properties?  Yes  No If yes, please explain: \_\_\_\_\_

---

---

32) Do you know of any environmental cleanups that have taken place at the property or adjacent properties?  Yes  No If yes, please explain: \_\_\_\_\_

---

---

33) Has the property been the recipient of any notices or other correspondence from any government agency relating to past or present violations of environmental laws, rules or codes?  Yes  No If yes, please explain: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

34) Do you know of any obvious indicators that point to the presence or likely presence of contamination at the property or adjacent properties?  Yes  No If yes, please explain:

\_\_\_\_\_  
\_\_\_\_\_

35) Are you aware of any environmental cleanup liens or pending enforcement actions against the property that are filed or recorded under federal, tribal, state or local law?

Yes  No If yes, please explain: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

36) Are you aware of any Activity and Use Limitations (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 in a registry under federal, tribal, state or local law?  Yes  No

If yes, please explain: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

37) Do you have any other information that might indicate potential environmental concerns associated with the property or adjacent properties?  Yes  No If yes, please explain:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

I have completed this questionnaire in good faith and to the best of my knowledge.

Signature: <i>Andrew Heflin</i>	Name:
Company: <i>Heflin Farms</i>	Title:
Relationship to the property: <i>Owner</i>	Number of years associated with the property: <i>41 Years</i>



# All Appropriate Inquiry Questionnaire



The All Appropriate Inquiry rule (40 CFR Part 312) requires that certain inquiries be made to past and present owners, operators and occupants to help evaluate the environmental conditions of the property. Please answer all questions to the best of your ability.

Name: Rick Hord

Date: 7/20/2023

Property address: nearest address 7108 Mt. carmelroad kentucky

1) What is the current use(s) of the property? For instance, residential, commercial, agricultural (multiple responses are acceptable). Please list all on-site businesses and contact information for each owner / operator, if any.

Agricultural (cattle and corn)

---

---

---

2) List the known uses/occupants of all adjacent properties including which direction the property is located relative to yours.  
no residences on property being leased.

---

---

---

3) Do you know the past uses of the property?  Yes  No

List: (i.e, undeveloped prior to 1940, agricultural 1940 to 1968, etc).

Agricultural

---

---

---

4) What have adjacent properties been used for in the past (please include which direction the property is located relative to yours)?

Agricultural - store and cabinet making business across the road from property.

---

---

---

5) What is the total acreage of the property? 83.4 and the square footage of each building? \_\_\_\_\_

6) When was each structure built and what was there before construction?

**2 barns 1 shed - no residence**

7) What is the heating source of each building? n/a

8) Was the fuel source for the building(s) ever heating oil?  Yes  No  Unknown

9) What is the water source for the property?  Public Supply  Well  Unknown

10) What is the sanitary service for the property?  Public Sanitary Sewer  Septic System  Unknown

11) Has there ever been a septic system on the property?  Yes  No  Unknown

12) Are any wells present on the property?  Yes  No  Unknown

13) Are floor drains present on the property?  Yes  No  Unknown

14) Where do the drains discharge?  N/A \_\_\_\_\_

15) Are any sumps, sand traps, grease traps or oil-water separators present now or historically on the property?  Yes  No  Unknown

16) Are there any transformers, hydraulic lifts or other potentially PCB-containing equipment on the property?  Yes  No  Unknown

17) If so, has the PCB content been tested?  Yes  No  Unknown

18) Have areas of the property been used as borrow pits?  Yes  No If yes, please explain:

19) Have areas of the property been filled with debris or fill of unknown origin?  Yes  No

If yes, please explain: \_\_\_\_\_

20) Is there now or has there been automobile/farm equipment/equipment repair, a parts washer or degreaser present at the property?  Yes  No If yes, please explain:

**agricultural equipment**

21) Are hazardous substances or petroleum products stored, generated, treated or disposed at the property?  Yes  No If yes, please list / explain:

---

---

---

22) Are there now or have there ever been underground storage tanks (USTs) present on the property?  Yes  No If yes, please list / explain:

---

---

---

23) How many USTs are/were present? (Please provide the contents, age, location, and size for each)  N/A \_\_\_\_\_

---

---

24) Are the USTs in service, closed-in-place or removed? Please provide applicable closure/removal reports or current tightness testing results.  In Service  Removed  Closed-in-place  N/A \_\_\_\_\_

---

---

25) Are there now or have there ever been aboveground storage tanks (ASTs) present on the property?  Yes  No If yes, please list / explain:

---

---

---

26) How many ASTs are/were present? (Please provide the contents, age, location, and size for each)  N/A \_\_\_\_\_

---

---

27) Are the ASTs in service or removed? Please provide applicable closure/removal reports or current tightness testing results.  In Service  Removed  N/A

28) Were chemicals such as solvents, petroleum products, inks, paints, oils, or pesticides used in the past?  Yes  No If yes, please explain: \_\_\_\_\_

---

---

---

29) Do you know of specific chemicals that are present or once were present at the property or adjacent properties?  Yes  No If yes, please list:

---

---

---

30) Were hazardous substances or petroleum products stored, generated, treated or disposed at the property?  Yes  No If yes, please explain / list:

---

---

31) Do you know of spills or other chemical releases that have taken place at the property or adjacent properties?  Yes  No If yes, please explain: \_\_\_\_\_

---

---

32) Do you know of any environmental cleanups that have taken place at the property or adjacent properties?  Yes  No If yes, please explain: \_\_\_\_\_

**Nearby gas station where soil and UST tanks removed.**

---

33) Has the property been the recipient of any notices or other correspondence from any government agency relating to past or present violations of environmental laws, rules or codes?  Yes  No If yes, please explain: \_\_\_\_\_

---

---

34) Do you know of any obvious indicators that point to the presence or likely presence of contamination at the property or adjacent properties?  Yes  No If yes, please explain:

---

---

35) Are you aware of any environmental cleanup liens or pending enforcement actions against the property that are filed or recorded under federal, tribal, state or local law?

Yes  No If yes, please explain: \_\_\_\_\_

---

---

36) Are you aware of any Activity and Use Limitations (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 in a registry under federal, tribal, state or local law?  Yes  No

If yes, please explain: \_\_\_\_\_

---

---

37) Do you have any other information that might indicate potential environmental concerns associated with the property or adjacent properties?  Yes  No If yes, please explain:

---

---

---

This interview was completed by Jonathan Hess (Stantec) with Mr. Rick Hord (property owner)

Signature:	Name: <b>Jonathan Hess</b>
Company: <b>Stantec</b>	Title: <b>Environmental Scientist</b>
Relationship to the property: <b>interviewer</b>	Number of years associated with the property: <b>none</b>

# All Appropriate Inquiry Questionnaire



The All Appropriate Inquiry rule (40 CFR Part 312) requires that certain inquiries be made to past and present owners, operators and occupants to help evaluate the environmental conditions of the property. Please answer all questions to the best of your ability.

Name: Robert List

Date: 07/19/2023

Property address: 15480 Mt. Carmel Road

- 1) What is the current use(s) of the property? For instance, residential, commercial, agricultural (multiple responses are acceptable). Please list all on-site businesses and contact information for each owner / operator, if any.

**Agricultural and residence**

---

---

---

- 2) List the known uses/occupants of all adjacent properties including which direction the property is located relative to yours.

**Agricultural.**

---

---

---

- 3) Do you know the past uses of the property?  Yes  No

List: (i.e, undeveloped prior to 1940, agricultural 1940 to 1968, etc).

**Agricultural**

---

---

---

- 4) What have adjacent properties been used for in the past (please include which direction the property is located relative to yours)?

**Agricultural**

---

---

---

- 5) What is the total acreage of the property? 229 and the square footage of each building? 4,200 for residence
- 
- 6) When was each structure built and what was there before construction?  
1800 aproximately
- 
- 7) What is the heating source of each building? propane
- 8) Was the fuel source for the building(s) ever heating oil?  Yes  No  Unknown
- 9) What is the water source for the property?  Public Supply  Well  Unknown
- 10) What is the sanitary service for the property?  Public Sanitary Sewer  Septic System  
 Unknown
- 11) Has there ever been a septic system on the property?  Yes  No  Unknown
- 12) Are any wells present on the property?  Yes  No  Unknown
- 13) Are floor drains present on the property?  Yes  No  Unknown
- 14) Where do the drains discharge?  N/A Holding pond
- 
- 15) Are any sumps, sand traps, grease traps or oil-water separators present now or historically on the property?  Yes  No  Unknown
- 16) Are there any transformers, hydraulic lifts or other potentially PCB-containing equipment on the property?  Yes  No  Unknown
- 17) If so, has the PCB content been tested?  Yes  No  Unknown
- 18) Have areas of the property been used as borrow pits?  Yes  No If yes, please explain:  
\_\_\_\_\_  
\_\_\_\_\_
- 
- 19) Have areas of the property been filled with debris or fill of unknown origin?  Yes  No  
If yes, please explain: \_\_\_\_\_  
\_\_\_\_\_
- 
- 20) Is there now or has there been automobile/farm equipment/equipment repair, a parts washer or degreaser present at the property?  Yes  No If yes, please explain:  
Yes - farm equipment used and parked on property
-

21) Are hazardous substances or petroleum products stored, generated, treated or disposed at the property?  Yes  No If yes, please list / explain:  
**Above ground diesel fuel tank for farm equipment.**

---

---

---

22) Are there now or have there ever been underground storage tanks (USTs) present on the property?  Yes  No If yes, please list / explain:

---

---

---

23) How many USTs are/were present? (Please provide the contents, age, location, and size for each)  N/A

---

---

24) Are the USTs in service, closed-in-place or removed? Please provide applicable closure/removal reports or current tightness testing results.  In Service  Removed  
 Closed-in-place  N/A

---

---

25) Are there now or have there ever been aboveground storage tanks (ASTs) present on the property?  Yes  No If yes, please list / explain:  
**disele tank**

---

---

---

26) How many ASTs are/were present? (Please provide the contents, age, location, and size for each)  N/A **one**

---

---

27) Are the ASTs in service or removed? Please provide applicable closure/removal reports or current tightness testing results.  In Service  Removed  N/A



28) Were chemicals such as solvents, petroleum products, inks, paints, oils, or pesticides used in the past?  Yes  No If yes, please explain: \_\_\_\_\_

**Pesticides for crops and agricultural equipment maintenance.**

---

---

---

29) Do you know of specific chemicals that are present or once were present at the property or adjacent properties?  Yes  No If yes, please list:

**roundup.**

---

---

---

30) Were hazardous substances or petroleum products stored, generated, treated or disposed at the property?  Yes  No If yes, please explain / list:

**diesel, roundup.**

---

---

---

31) Do you know of spills or other chemical releases that have taken place at the property or adjacent properties?  Yes  No If yes, please explain: \_\_\_\_\_

**No - other than crop spraying**

---

---

---

32) Do you know of any environmental cleanups that have taken place at the property or adjacent properties?  Yes  No If yes, please explain: \_\_\_\_\_

---

---

---

33) Has the property been the recipient of any notices or other correspondence from any government agency relating to past or present violations of environmental laws, rules or codes?  Yes  No If yes, please explain: \_\_\_\_\_

---

---

---

---

---

34) Do you know of any obvious indicators that point to the presence or likely presence of contamination at the property or adjacent properties?  Yes  No If yes, please explain:

---

---

35) Are you aware of any environmental cleanup liens or pending enforcement actions against the property that are filed or recorded under federal, tribal, state or local law?

Yes  No If yes, please explain: \_\_\_\_\_

---

---

36) Are you aware of any Activity and Use Limitations (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 in a registry under federal, tribal, state or local law?  Yes  No

If yes, please explain: \_\_\_\_\_

---

---

37) Do you have any other information that might indicate potential environmental concerns associated with the property or adjacent properties?  Yes  No If yes, please explain:

---

---

---

This interview was completed by Jonathan Hess (Stantec) with Mr. Robert List (property owner).

Signature:	Name: <b>Jonathan Hess</b>
Company: <b>Stantec</b>	Title: <b>Environmental Scientist</b>
Relationship to the property: <b>Interviewer</b>	Number of years associated with the property: <b>none</b>

# All Appropriate Inquiry Questionnaire



The All Appropriate Inquiry rule (40 CFR Part 312) requires that certain inquiries be made to past and present owners, operators and occupants to help evaluate the environmental conditions of the property. Please answer all questions to the best of your ability.

Name: Robert List

Date: 7/19/2023

Property address: 2678 maddox pike

- 1) What is the current use(s) of the property? For instance, residential, commercial, agricultural (multiple responses are acceptable). Please list all on-site businesses and contact information for each owner / operator, if any.

Agricultural - residence onsite

---

---

---

- 2) List the known uses/occupants of all adjacent properties including which direction the property is located relative to yours.

Agricultural

---

---

---

- 3) Do you know the past uses of the property?  Yes  No

List: (i.e, undeveloped prior to 1940, agricultural 1940 to 1968, etc).

Agricultural

---

---

---

- 4) What have adjacent properties been used for in the past (please include which direction the property is located relative to yours)?

Agricultural

---

---

---

5) What is the total acreage of the property? 138 and the square footage of each building? residence 3,200 square feet.

---

6) When was each structure built and what was there before construction?  
1842

---

7) What is the heating source of each building? electric

---

8) Was the fuel source for the building(s) ever heating oil?  Yes  No  Unknown

9) What is the water source for the property?  Public Supply  Well  Unknown

10) What is the sanitary service for the property?  Public Sanitary Sewer  Septic System  
 Unknown

11) Has there ever been a septic system on the property?  Yes  No  Unknown

12) Are any wells present on the property?  Yes  No  Unknown

13) Are floor drains present on the property?  Yes  No  Unknown

14) Where do the drains discharge?  N/A \_\_\_\_\_

---

15) Are any sumps, sand traps, grease traps or oil-water separators present now or historically on the property?  Yes  No  Unknown

16) Are there any transformers, hydraulic lifts or other potentially PCB-containing equipment on the property?  Yes  No  Unknown

17) If so, has the PCB content been tested?  Yes  No  Unknown

18) Have areas of the property been used as borrow pits?  Yes  No If yes, please explain:

---

---

19) Have areas of the property been filled with debris or fill of unknown origin?  Yes  No  
If yes, please explain: \_\_\_\_\_

---

---

20) Is there now or has there been automobile/farm equipment/equipment repair, a parts washer or degreaser present at the property?  Yes  No If yes, please explain:  
agricultural use

---

---

21) Are hazardous substances or petroleum products stored, generated, treated or disposed at the property?  Yes  No If yes, please list / explain:  
Agricultural use (tractor) - unknown if any stored on property

---

---

---

22) Are there now or have there ever been underground storage tanks (USTs) present on the property?  Yes  No If yes, please list / explain:  
none known

---

---

---

23) How many USTs are/were present? (Please provide the contents, age, location, and size for each)  N/A

---

---

---

24) Are the USTs in service, closed-in-place or removed? Please provide applicable closure/removal reports or current tightness testing results.  In Service  Removed  
 Closed-in-place  N/A

---

---

---

25) Are there now or have there ever been aboveground storage tanks (ASTs) present on the property?  Yes  No If yes, please list / explain:  
none known

---

---

---

26) How many ASTs are/were present? (Please provide the contents, age, location, and size for each)  N/A

---

---

---

27) Are the ASTs in service or removed? Please provide applicable closure/removal reports or current tightness testing results.  In Service  Removed  N/A

28) Were chemicals such as solvents, petroleum products, inks, paints, oils, or pesticides used in the past?  Yes  No If yes, please explain: \_\_\_\_\_

Pesticide use and agricultural related materials.

---

---

---

29) Do you know of specific chemicals that are present or once were present at the property or adjacent properties?  Yes  No If yes, please list:

round up

---

---

---

30) Were hazardous substances or petroleum products stored, generated, treated or disposed at the property?  Yes  No If yes, please explain / list:

unknown other than agricultural use

---

---

---

31) Do you know of spills or other chemical releases that have taken place at the property or adjacent properties?  Yes  No If yes, please explain: \_\_\_\_\_

no

---

---

---

32) Do you know of any environmental cleanups that have taken place at the property or adjacent properties?  Yes  No If yes, please explain: \_\_\_\_\_

---

---

---

33) Has the property been the recipient of any notices or other correspondence from any government agency relating to past or present violations of environmental laws, rules or codes?  Yes  No If yes, please explain: \_\_\_\_\_

---

---

---

---

---

34) Do you know of any obvious indicators that point to the presence or likely presence of contamination at the property or adjacent properties?  Yes  No If yes, please explain:

---

---

35) Are you aware of any environmental cleanup liens or pending enforcement actions against the property that are filed or recorded under federal, tribal, state or local law?

Yes  No If yes, please explain: \_\_\_\_\_

---

---

36) Are you aware of any Activity and Use Limitations (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 in a registry under federal, tribal, state or local law?  Yes  No

If yes, please explain: \_\_\_\_\_

---

---

37) Do you have any other information that might indicate potential environmental concerns associated with the property or adjacent properties?  Yes  No If yes, please explain:

---

---

---

---

This interview was completed by telephone by Jonathan Hess with Mr. Robert List.

Signature:	Name: <b>Jonathan Hess</b>
Company: <b>Stantec</b>	Title: <b>Environmental Scientist</b>
Relationship to the property: <b>Interviewer</b>	Number of years associated with the property: <b>none</b>

## All Appropriate USER Inquiry Questionnaire



### USER QUESTIONNAIRE

In order to qualify for one of the *Landowner Liability Protections (LLPs)*<sup>A</sup> offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the “Brownfields Amendments”),<sup>B</sup> 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.

#### 1. Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25).

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

#### 2. Activity and land use limitations that are in place on the site or have that been filed or recorded in a registry (40 CFR 312.26).

Are you aware of any *AULs*, such as *engineering controls*, land use restrictions or *institutional controls* that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law?

#### 3. Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28).

As the user of this ESA do you have any specialized knowledge or experience related to the *property* or nearby properties? For example, are you involved in the same line of business as 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?

#### 4. Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29).

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*?



5. **Commonly known or reasonably ascertainable information about the property (40 CFR 312.30).**

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, as user,

a) Do you know the past uses of the *property*?

b) Do you know of specific chemicals that are present or once were present at the *property*?

c) Do you know of spills or other chemical releases that have taken place at the *property*?

d) Do you know of any environmental cleanups that have taken place at the *property*?

6. **The degree of obviousness of the presence of likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).**

As the user of this ESA, 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*?

In addition, certain information should be collected, if available, and provided to the environmental professional selected to conduct the Phase I. This information is intended to assist the environmental professional but is not necessarily required to qualify for one of the *LLPs*. The information includes:

the reason why the Phase I is required, the type of property and type of property transaction, for example, sale, purchase, exchange, and so forth, the complete and correct address for the property (a map or other documentation showing property location and boundaries is helpful), the scope of services desired for the Phase I (including whether any parties to the property transaction may have a required standard scope of services on whether any considerations beyond the requirements of Practice E2247 are to be considered), identification of all parties who will rely on the Phase I report, identification of the site contact and how the contact can be reached, any special terms and conditions which must be agreed upon by the environmental professional, any other knowledge or experience with the property that may be pertinent to

the environmental professional (for example, copies of any available prior environmental site assessment reports, documents, correspondence, and so forth, concerning the property and its environmental condition).

---

User

---

Date

<sup>A</sup> *Landowner Liability Protections, or LLPs*, is the term used to describe the three types of potential defenses to Superfund liability in EPA's *Interim Guidance Regarding Criteria Landowners Must Meet in Order to Qualify for Bona Fide Prospective Purchaser, Contiguous Property Owner, or Innocent Landowner Limitations on CERCLA Liability ("Common Elements" Guide)* issued on March 6, 2003.

<sup>B</sup> *P.L. 107-118*.

# **Appendix D**

# **ERIS Database Report**





---

# DATABASE REPORT

**Project Property:** *Hummingbird Solar Project*  
*N/A*  
*Flemingsburg KY*

**Project No:** *237800383*

**Report Type:** *Database Report*

**Order No:** *23040300681*

**Requested by:** *Stantec Consulting Ltd.*

**Date Completed:** *April 4, 2023*

**Environmental Risk Information Services**

*A division of Glacier Media Inc.*

1.866.517.5204 | [info@erisinfo.com](mailto:info@erisinfo.com) | [erisinfo.com](http://erisinfo.com)

# Table of Contents

Table of Contents.....	2
Executive Summary.....	3
Executive Summary: Report Summary.....	4
Executive Summary: Site Report Summary - Project Property.....	8
Executive Summary: Site Report Summary - Surrounding Properties.....	9
Executive Summary: Summary by Data Source.....	10
Map.....	12
Aerial.....	15
Topographic Map.....	16
Detail Report.....	17
Unplottable Summary.....	24
Unplottable Report.....	26
Appendix: Database Descriptions.....	31
Definitions.....	43

## **Notice: IMPORTANT LIMITATIONS and YOUR LIABILITY**

**Reliance on information in Report:** This report DOES NOT replace a full Phase I Environmental Site Assessment but is solely intended to be used as database review of environmental records.

**License for use of information in Report:** No page of this report can be used without this cover page, this notice and the project property identifier. The information in Report(s) may not be modified or re-sold.

**Your Liability for misuse:** Using this Service and/or its reports in a manner contrary to this Notice or your agreement will be in breach of copyright and contract and ERIS may obtain damages for such mis-use, including damages caused to third parties, and gives ERIS the right to terminate your account, rescind your license to any previous reports and to bar you from future use of the Service.

**No warranty of Accuracy or Liability for ERIS:** The information contained in this report has been produced by ERIS Information Inc. ("ERIS") using various sources of information, including information provided by Federal and State government departments. The report applies only to the address and up to the date specified on the cover of this report, and any alterations or deviation from this description will require a new report. This report and the data contained herein does not purport to be and does not constitute a guarantee of the accuracy of the information contained herein and does not constitute a legal opinion nor medical advice. Although ERIS has endeavored to present you with information that is accurate, ERIS disclaims, any and all liability for any errors, omissions, or inaccuracies in such information and data, whether attributable to inadvertence, negligence or otherwise, and for any consequences arising therefrom. Liability on the part of ERIS is limited to the monetary value paid for this report.

**Trademark and Copyright:** You may not use the ERIS trademarks or attribute any work to ERIS other than as outlined above. This Service and Report (s) are protected by copyright owned by ERIS Information Inc. Copyright in data used in the Service or Report(s) (the "Data") is owned by ERIS or its licensors. The Service, Report(s) and Data may not be copied or reproduced in whole or in any substantial part without prior written consent of ERIS.

# Executive Summary

## Property Information:

**Project Property:** *Hummingbird Solar Project  
N/A Flemingsburg KY*

**Project No:** *237800383*

### **Coordinates:**

**Latitude:** *38.4687183*  
**Longitude:** *-83.6461623*  
**UTM Northing:** *4,260,583.32*  
**UTM Easting:** *269,314.29*  
**UTM Zone:** *17S*

**Elevation:** *839 FT*

## Order Information:

**Order No:** *23040300681*  
**Date Requested:** *April 3, 2023*  
**Requested by:** *Stantec Consulting Ltd.*  
**Report Type:** *Database Report*

## Historicals/Products:

**ERIS Xplorer** [\*ERIS Xplorer\*](#)  
**Excel Add-On** *Excel Add-On*  
**Physical Setting Report (PSR)** *Physical Setting Report (PSR)*

# Executive Summary: Report Summary

<i>Database</i>	<i>Searched</i>	<i>Search Radius</i>	<i>Project Property</i>	<i>Within 0.12mi</i>	<i>0.125mi to 0.25mi</i>	<i>0.25mi to 0.50mi</i>	<i>0.50mi to 1.00mi</i>	<i>Total</i>
<b><u>Standard Environmental Records</u></b>								
<b>Federal</b>								
DOE FUSRAP	Y	1	0	0	0	0	0	0
NPL	Y	1	0	0	0	0	0	0
PROPOSED NPL	Y	1	0	0	0	0	0	0
DELETED NPL	Y	0.5	0	0	0	0	-	0
SEMS	Y	0.5	0	0	0	0	-	0
SEMS ARCHIVE	Y	0.5	0	0	0	0	-	0
ODI	Y	0.5	0	0	0	0	-	0
CERCLIS	Y	0.5	0	0	0	0	-	0
IODI	Y	0.5	0	0	0	0	-	0
CERCLIS NFRAP	Y	0.5	0	0	0	0	-	0
CERCLIS LIENS	Y	PO	0	-	-	-	-	0
RCRA CORRACTS	Y	1	0	0	0	0	0	0
RCRA TSD	Y	0.5	0	0	0	0	-	0
RCRA LQG	Y	0.25	0	0	0	-	-	0
RCRA SQG	Y	0.25	0	0	0	-	-	0
RCRA VSQG	Y	0.25	0	0	0	-	-	0
RCRA NON GEN	Y	0.25	0	0	0	-	-	0
RCRA CONTROLS	Y	0.5	0	0	0	0	-	0
FED ENG	Y	0.5	0	0	0	0	-	0
FED INST	Y	0.5	0	0	0	0	-	0
LUCIS	Y	0.5	0	0	0	0	-	0
NPL IC	Y	0.5	0	0	0	0	-	0
ERNS 1982 TO 1986	Y	PO	0	-	-	-	-	0
ERNS 1987 TO 1989	Y	PO	0	-	-	-	-	0
ERNS	Y	PO	0	-	-	-	-	0
FED BROWNFIELDS	Y	0.5	0	0	0	0	-	0
FEMA UST	Y	0.25	0	0	0	-	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
FRP	Y	0.25	0	0	0	-	-	0
DELISTED FRP	Y	0.25	0	0	0	-	-	0
HIST GAS STATIONS	Y	0.25	0	0	0	-	-	0
REFN	Y	0.25	0	0	0	-	-	0
BULK TERMINAL	Y	0.25	0	0	0	-	-	0
SEMS LIEN	Y	PO	0	-	-	-	-	0
SUPERFUND ROD	Y	1	0	0	0	0	0	0

**State**

BROWNFIELDS	Y	0.5	0	0	0	0	-	0
SHWS	Y	1	0	0	0	1	0	1
DELISTED SHWS	Y	1	0	0	0	0	0	0
SWF/LF	Y	0.5	0	0	0	0	-	0
HIST LANDFILL	Y	0.5	0	0	0	0	-	0
SB193	Y	0.5	0	0	1	0	-	1
PSTEAF	Y	0.5	0	0	1	0	-	1
UST	Y	0.25	0	0	2	-	-	2
DELISTED STORAGE TANK	Y	0.25	0	0	0	-	-	0
ENG	Y	0.5	0	0	0	0	-	0
INST	Y	0.5	0	0	0	0	-	0
VCP	Y	0.5	0	0	0	0	-	0
BROWNFIELD INV	Y	0.5	0	0	0	0	-	0

**Tribal**

INDIAN LUST	Y	0.5	0	0	0	0	-	0
INDIAN UST	Y	0.25	0	0	0	-	-	0
DELISTED INDIAN LST	Y	0.5	0	0	0	0	-	0
DELISTED INDIAN UST	Y	0.25	0	0	0	-	-	0

**County**

*No County standard environmental record sources available for this State.*

**Additional Environmental Records**

**Federal**

FINDS/FRS	Y	PO	0	-	-	-	-	0
TRIS	Y	PO	0	-	-	-	-	0
PFAS NPL	Y	0.5	0	0	0	0	-	0
PFAS FED SITES	Y	0.5	0	0	0	0	-	0



<b>Database</b>	<b>Searched</b>	<b>Search Radius</b>	<b>Project Property</b>	<b>Within 0.12mi</b>	<b>0.125mi to 0.25mi</b>	<b>0.25mi to 0.50mi</b>	<b>0.50mi to 1.00mi</b>	<b>Total</b>
PFAS SSEHRI	Y	0.5	0	0	0	0	-	0
ERNS PFAS	Y	0.5	0	0	0	0	-	0
PFAS NPDES	Y	0.5	0	0	0	0	-	0
PFAS TRI	Y	0.5	0	0	0	0	-	0
PFAS WATER	Y	0.5	0	0	0	0	-	0
PFAS TSCA	Y	0.5	0	0	0	0	-	0
HMIRS	Y	0.125	0	0	-	-	-	0
NCDL	Y	0.125	0	0	-	-	-	0
TSCA	Y	0.125	0	0	-	-	-	0
HIST TSCA	Y	0.125	0	0	-	-	-	0
FTTS ADMIN	Y	PO	0	-	-	-	-	0
FTTS INSP	Y	PO	0	-	-	-	-	0
PRP	Y	PO	0	-	-	-	-	0
SCRD DRYCLEANER	Y	0.5	0	0	0	0	-	0
ICIS	Y	PO	0	-	-	-	-	0
FED DRYCLEANERS	Y	0.25	0	0	0	-	-	0
DELISTED FED DRY	Y	0.25	0	0	0	-	-	0
FUDS	Y	1	0	0	0	0	0	0
FORMER NIKE	Y	1	0	0	0	0	0	0
PIPELINE INCIDENT	Y	PO	0	-	-	-	-	0
MLTS	Y	PO	0	-	-	-	-	0
HIST MLTS	Y	PO	0	-	-	-	-	0
MINES	Y	0.25	0	0	0	-	-	0
SMCRA	Y	1	0	0	0	0	0	0
MRDS	Y	1	0	0	0	0	0	0
LM SITES	Y	1	0	0	0	0	0	0
ALT FUELS	Y	0.25	0	0	0	-	-	0
CONSENT DECREES	Y	0.25	0	0	0	-	-	0
AFS	Y	PO	0	-	-	-	-	0
SSTS	Y	0.25	0	0	0	-	-	0
PCBT	Y	0.5	0	0	0	0	-	0
PCB	Y	0.5	0	0	0	0	-	0
<b>State</b>								
SPILLS	Y	0.125	0	<b>2</b>	-	-	-	<b>2</b>
CDL	Y	PO	0	-	-	-	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
MINE	Y	1	0	0	0	0	0	0

Tribal **No Tribal additional environmental record sources available for this State.**

County **No County additional environmental record sources available for this State.**

---

**Total:** 0 2 4 1 0 7

\* PO – Property Only

\* 'Property and adjoining properties' database search radii are set at 0.25 miles.

## Executive Summary: Site Report Summary - Project Property

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev Diff (ft)</i>	<i>Page Number</i>
--------------------	-----------	--------------------------	----------------	------------------	-----------------------------	---------------------------	------------------------

No records found in the selected databases for the project property.

## Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
<a href="#">1</a>	SPILLS		38i ½25'37.8"N 83i ½40'14.8"W-SW Cow can be seen from the road. Coordinate are approx. location of cow. 1622 Wilson Run Rd, Flemingsburg, KY Flemingsburg KY <b>INC ID / Status:</b> 2468723   Initiated		0.01 / 78.12	-23	<a href="#">17</a>
<a href="#">2</a>	SPILLS	Brian Earlywine	206 Beech Springs Drive (Beech Springs Estates Subdivision) KY 32 to Flemingsburg, KY 57 north 2 or 3 miles, right onto KY 3301, ~1.5 miles, left into subdivision, piles are on the right as you come down the hill. Beechburg KY <b>INC ID / Status:</b> 2323525   Env. Closed	SW	0.06 / 341.62	58	<a href="#">17</a>
<a href="#">3</a>	UST	Old Hintons Grocery	Hwy 57 Flemingsburg KY 41041 <b>AI ID:</b> 61952	NNE	0.16 / 832.73	44	<a href="#">18</a>
<a href="#">4</a>	PSTEAF	Hursts Grocery	7327 Mt Carmel Rd Flemingsburg KY 41041 <b>UST Tank ID / Rank:</b> 2054035   2	NNE	0.20 / 1,069.06	48	<a href="#">20</a>
<a href="#">4</a>	SB193	Hursts Grocery	7327 Mt Carmel Rd KY	NNE	0.20 / 1,069.06	48	<a href="#">20</a>
<a href="#">4</a>	UST	Hursts Grocery	7327 Mt Carmel Rd Flemingsburg KY 41041 <b>AI ID:</b> 61940	NNE	0.20 / 1,069.06	48	<a href="#">20</a>
<a href="#">5</a>	SHWS	Yoder Diesel Spill	KY 3301 Wallingford KY 41093	SSE	0.43 / 2,263.37	54	<a href="#">23</a>

## Executive Summary: Summary by Data Source

### Standard

#### State

##### SHWS - State Leads Priority List

A search of the SHWS database, dated Mar 2, 2023 has found that there are 1 SHWS site(s) within approximately 1.00 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
Yoder Diesel Spill	KY 3301 Wallingford KY 41093	SSE	0.43 / 2,263.37	<a href="#">5</a>

##### SB193 - SB193 Branch Site Inventory List

A search of the SB193 database, dated Apr 30, 1985 has found that there are 1 SB193 site(s) within approximately 0.50 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
Hursts Grocery	7327 Mt Carmel Rd KY	NNE	0.20 / 1,069.06	<a href="#">4</a>

##### PSTEAF - Ranking List for UST Facilities

A search of the PSTEAF database, dated Mar 1, 2023 has found that there are 1 PSTEAF site(s) within approximately 0.50 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
Hursts Grocery	7327 Mt Carmel Rd Flemingsburg KY 41041	NNE	0.20 / 1,069.06	<a href="#">4</a>
<i>UST Tank ID   Rank: 2054035   2</i>				

##### UST - Underground Storage Tanks

A search of the UST database, dated Mar 1, 2023 has found that there are 2 UST site(s) within approximately 0.25 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
Old Hintons Grocery	Hwy 57 Flemingsburg KY 41041	NNE	0.16 / 832.73	<a href="#">3</a>
<i>AI ID: 61952</i>				
Hursts Grocery	7327 Mt Carmel Rd Flemingsburg KY 41041	NNE	0.20 / 1,069.06	<a href="#">4</a>
<i>AI ID: 61940</i>				

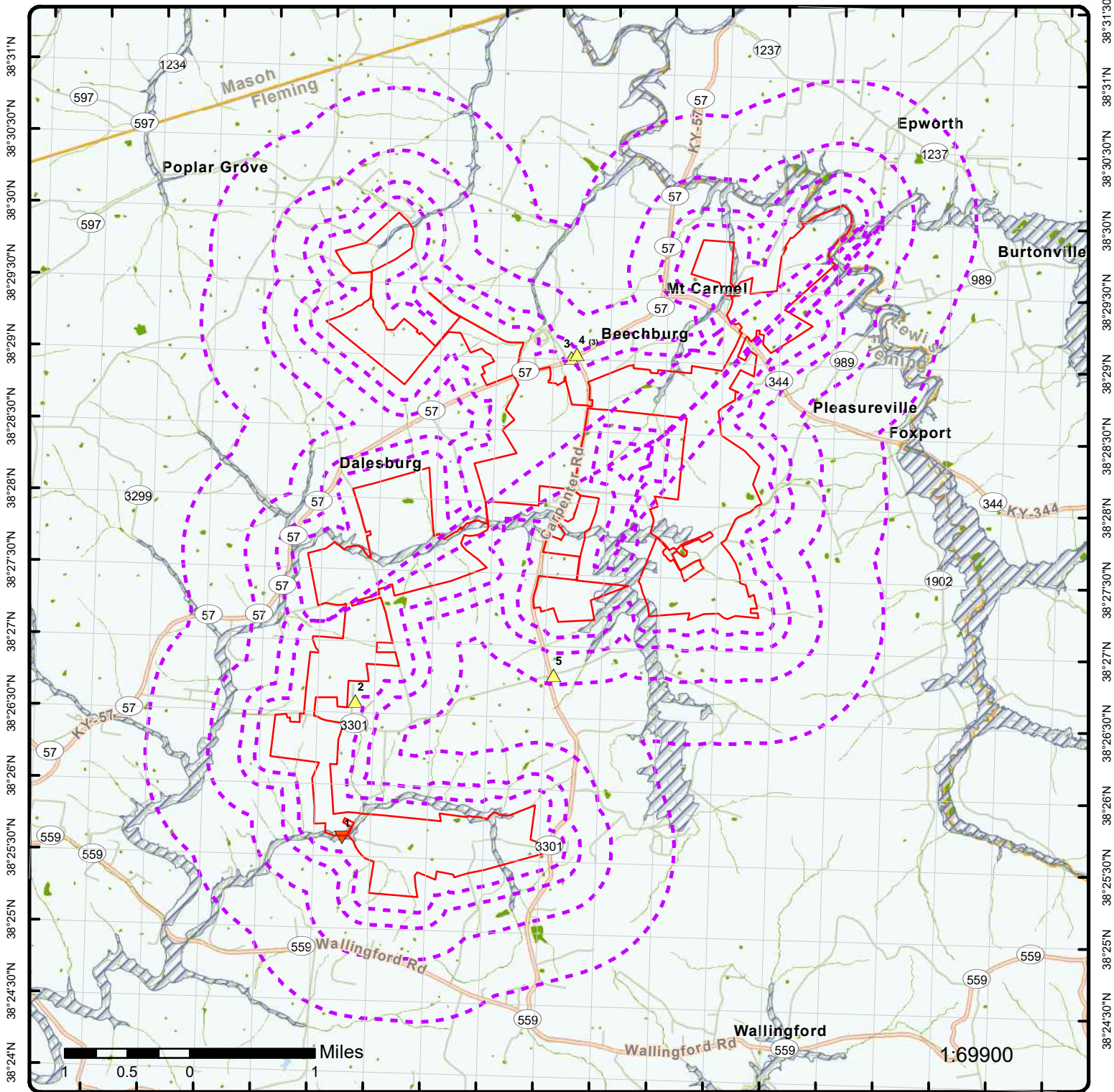
## Non Standard

### State

#### SPILLS - Incidents

A search of the SPILLS database, dated Dec 12, 2022 has found that there are 2 SPILLS site(s) within approximately 0.12 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
Brian Earlywine	206 Beech Springs Drive (Beech Springs Estates Subdivision) KY 32 to Flemingsburg, KY 57 north 2 or 3 miles, right onto KY 3301, ~1.5 miles, left into subdivision, piles are on the right as you come down the hill. Beechburg KY <i>INC ID   Status: 2323525   Env. Closed</i>	SW	0.06 / 341.62	<a href="#"><u>2</u></a>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
	38°25'37.8"N 83°40'14.8"W- Cow car be seen from the road. Coordinate are approx. location of cow. 1622 Wilson Run Rd, Flemingsburg, KY Flemingsburg KY <i>INC ID   Status: 2468723   Initiated</i>	SW	0.01 / 78.12	<a href="#"><u>1</u></a>

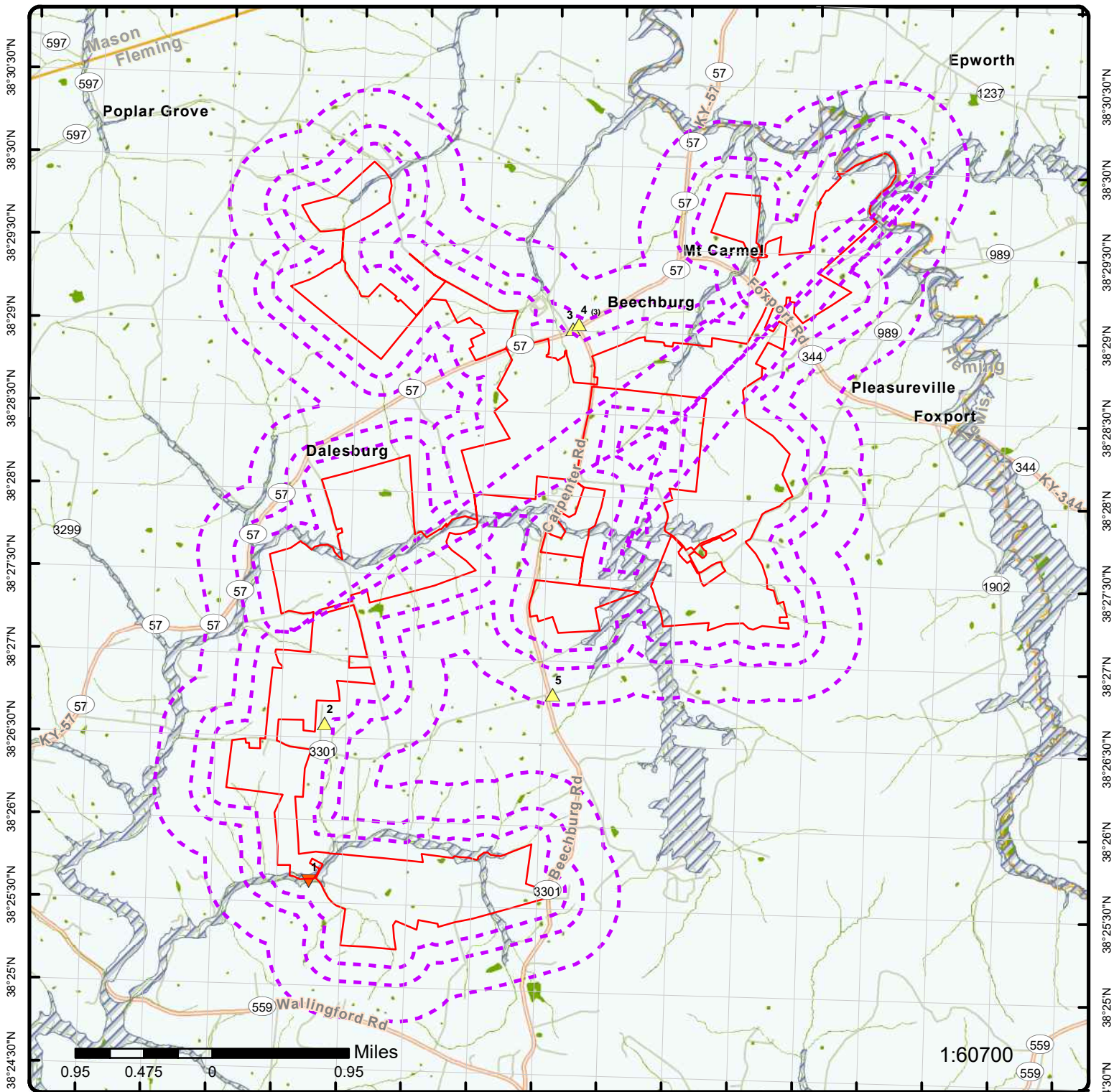


**Map: 1.0 Mile Radius**

Order Number: 23040300681  
 Address: N/A, Flemingsburg, KY



- |                              |                      |                             |                        |                     |  |
|------------------------------|----------------------|-----------------------------|------------------------|---------------------|--|
| Project Property             | Buffer Outline       | Sites with Higher Elevation | Freeways; Highways     | State               | FWS Special Designation Areas  |
| Sites with Same Elevation    | Traffic Circle; Ramp | Sites with Lower Elevation  | Major & Minor Arterial | Country             | National Priorities List (Active, Delisted, Proposed, Institutional Control) |
| Sites with Unknown Elevation | Traffic Circle; Ramp | Areas with Higher Elevation | Local Road             | National Wetland    | Indian Reserve Land  |
| Areas with Same Elevation    | Rail                 | Areas with Lower Elevation  |                        | Plume               | 100 Year Flood Zone  |
| Areas with Unknown Elevation |                      |                             |                        | 500 Year Flood Zone |  |



**Map: 0.5 Mile Radius**

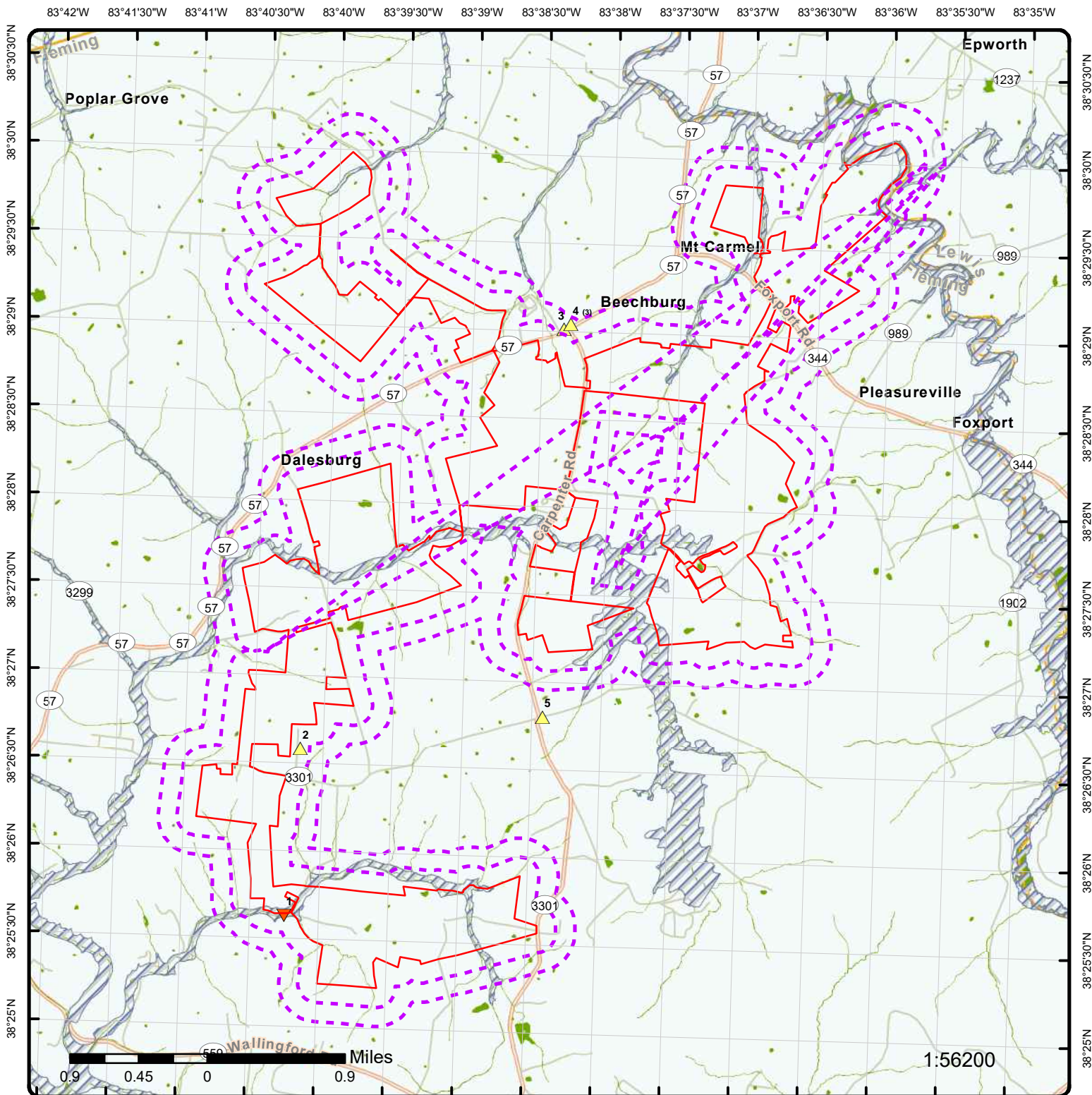
Order Number: 23040300681

Address: N/A, Flemingsburg, KY



- |                              |                      |                             |                        |                     |  |
|------------------------------|----------------------|-----------------------------|------------------------|---------------------|--|
| Project Property             | Buffer Outline       | Sites with Higher Elevation | Freeways; Highways     | State               | FWS Special Designation Areas  |
| Sites with Same Elevation    | Traffic Circle; Ramp | Sites with Lower Elevation  | Major & Minor Arterial | Country             | National Priorities List (Active, Delisted, Proposed, Institutional Control) |
| Sites with Unknown Elevation | Traffic Circle; Ramp | Areas with Higher Elevation | Local Road             | National Wetland    | Indian Reserve Land  |
| Areas with Same Elevation    | Rail                 | Areas with Lower Elevation  |                        | Plume               | 100 Year Flood Zone  |
| Areas with Unknown Elevation |                      |                             |                        | 500 Year Flood Zone |  |





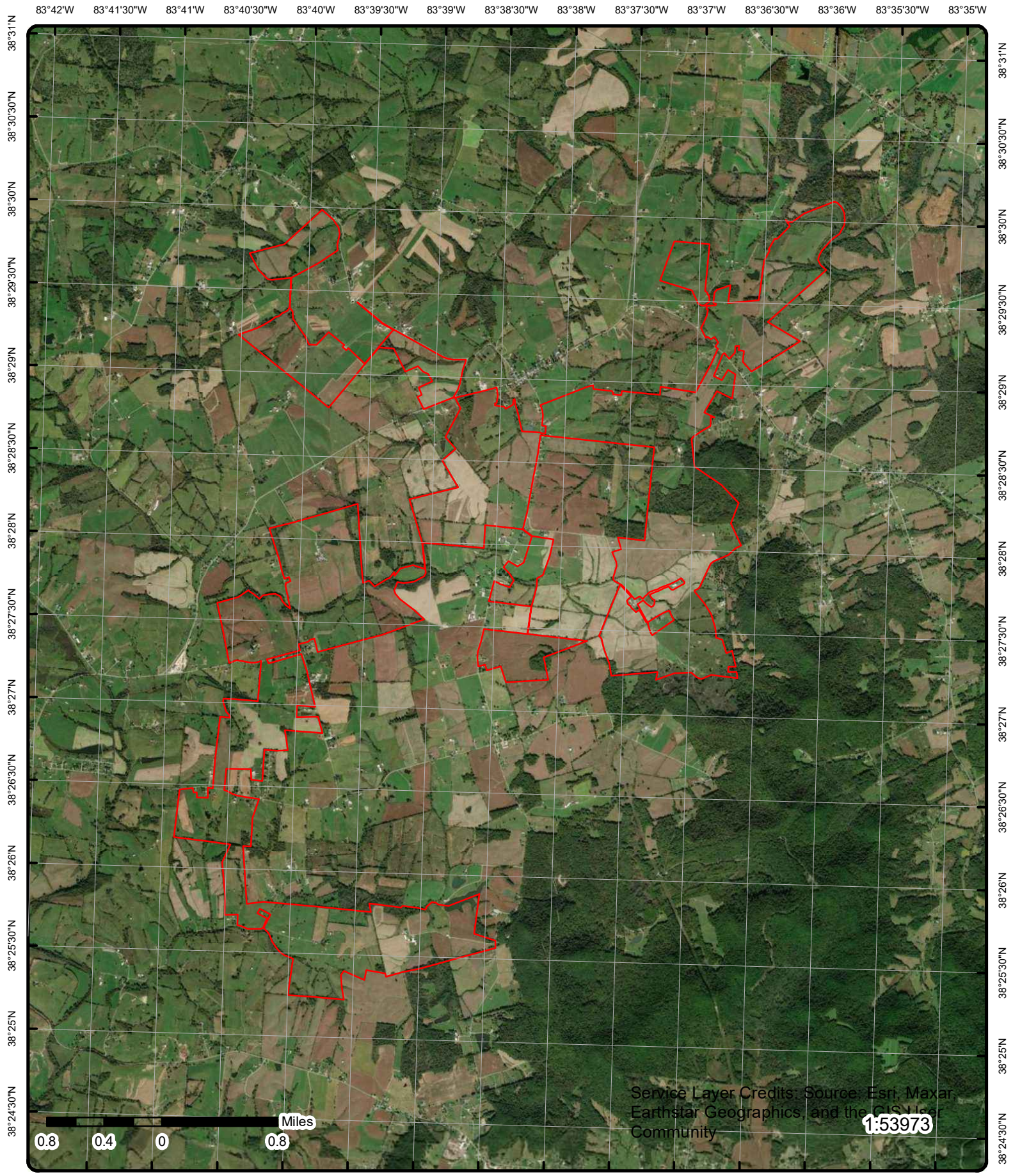
### Map: 0.25 Mile Radius

Order Number: 23040300681

Address: N/A, Flemingsburg, KY



- |                  |                |                             |                           |                            |                              |                             |                           |                            |                              |                    |                      |                        |                      |            |      |       |         |                  |                     |       |                     |                     |                               |  |
|------------------|----------------|-----------------------------|---------------------------|----------------------------|------------------------------|-----------------------------|---------------------------|----------------------------|------------------------------|--------------------|----------------------|------------------------|----------------------|------------|------|-------|---------|------------------|---------------------|-------|---------------------|---------------------|-------------------------------|--|
| Project Property | Buffer Outline | Sites with Higher Elevation | Sites with Same Elevation | Sites with Lower Elevation | Sites with Unknown Elevation | Areas with Higher Elevation | Areas with Same Elevation | Areas with Lower Elevation | Areas with Unknown Elevation | Freeways; Highways | Traffic Circle; Ramp | Major & Minor Arterial | Traffic Circle; Ramp | Local Road | Rail | State | Country | National Wetland | Indian Reserve Land | Plume | 100 Year Flood Zone | 500 Year Flood Zone | FWS Special Designation Areas | National PRIORITY List (Active, Delisted, Proposed, Institutional Control) |
|------------------|----------------|-----------------------------|---------------------------|----------------------------|------------------------------|-----------------------------|---------------------------|----------------------------|------------------------------|--------------------|----------------------|------------------------|----------------------|------------|------|-------|---------|------------------|---------------------|-------|---------------------|---------------------|-------------------------------|--|



**Aerial** Year: 2021

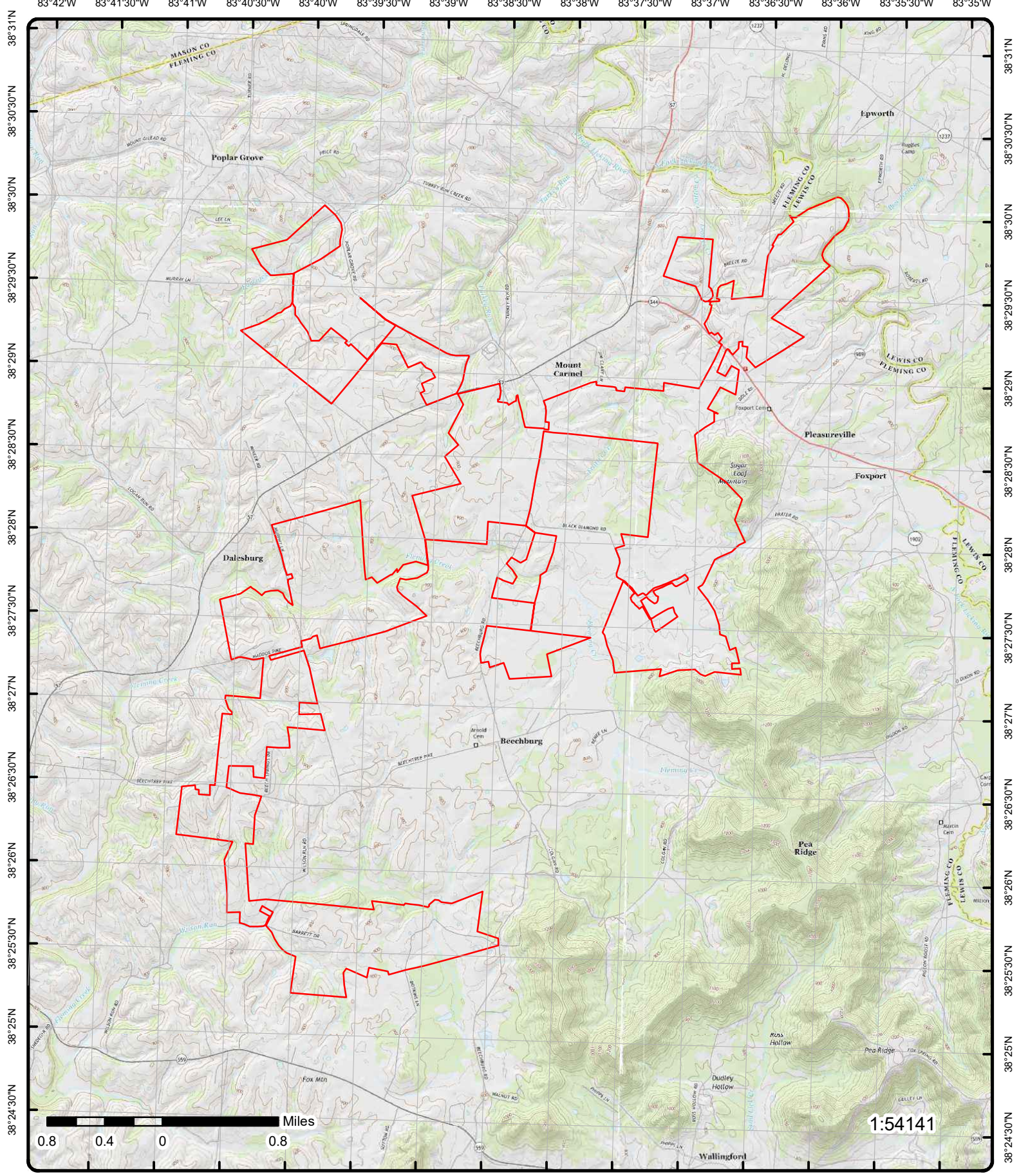
Address: N/A, Flemingsburg, KY

Source: ESRI World Imagery

Order Number: 23040300681



© ERIS Information Inc.



**Topographic Map**

Year: 2016

Order Number: 23040300681

Address: N/A, KY



Quadrangle(s): Flemingsburg, KY; Orangeburg, KY; Burtonville, KY; Tollesboro, KY

© ERIS Information Inc.

Source: USGS Topographic Map

# Detail Report

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<a href="#"><u>1</u></a>	1 of 1	SW	0.01 / 78.12	816.05 / -23	38°25'37.8"N 83°40'14.8"W- Cow can be seen from the road. Coordinate are approx. location of cow. 1622 Wilson Run Rd, Flemingsburg, KY Flemingsburg KY	SPILLS
<b>INC ID:</b> 2468723 <b>MARS Function Code:</b> <b>Status:</b> Initiated <b>Priority:</b> Routine <b>Program Code:</b> 11 <b>Program:</b> Wastewater <b>Substances:</b> <b>Closure Type Desc:</b> <b>Incident End Date:</b> <b>Begin Emerg Dt:</b> <b>End Emerg Dt:</b> <b>Record Date:</b> <b>First Report Date:</b> 4/20/2020 2:24:23 PM <b>Completed:</b> Yes <b>Source:</b> <b>Incident Type S:</b> SOIL CONTAMINATION <b>Incident Desc:</b> Neighboring farm is leaving dead animals in the creek. Most recently a dead cow and calf. The property owner is concerned about her horses drinking from the creek and other contamination.		<b>Notification:</b> No <b>Date:</b> <b>Lead Invest ID:</b> 71242 <b>Lead Investigator:</b> Nelson, Thomas <b>Flw Up Prior Desc:</b> <b>Recen Cpl Eval Act:</b> <b>Recent ENF Act:</b> <b>Locked Flag:</b> No <b>Waterbody:</b> <b>Regional Office:</b> Morehead Regional Office <b>County:</b> Fleming <b>Lat Dac Degrees:</b> 38.427167 <b>Long Dec Degrees:</b> -83.670778				
<b>Location Desc:</b> 38°25'37.8"N 83°40'14.8"W- Cow can be seen from the road. Coordinate are approx. location of cow. 1622 Wilson Run Rd, Flemingsburg, KY <b>Other Substance Desc:</b> <b>Z Coordinate Method Desc:</b> Address Matching - Building or Street Segment						

<a href="#"><u>2</u></a>	1 of 1	SW	0.06 / 341.62	897.00 / 58	Brian Earlywine 206 Beech Springs Drive (Beech Springs Estates Subdivision) KY 32 to Flemingsburg, KY 57 north 2 or 3 miles, right onto KY 3301, ~1.5 miles, left into subdivision, piles are on the right as you come down the hill. Beechburg KY	SPILLS
<b>INC ID:</b> 2323525 <b>MARS Function Code:</b> <b>Status:</b> Env. Closed <b>Priority:</b> Routine <b>Program Code:</b> 11 <b>Program:</b> Wastewater <b>Substances:</b> Gasoline: <b>Closure Type Desc:</b> Env. Closed-Mitigated <b>Incident End Date:</b> 2/3/2011 <b>Begin Emerg Dt:</b> <b>End Emerg Dt:</b> <b>Record Date:</b> <b>First Report Date:</b> 1/31/2011 11:22:44 AM <b>Completed:</b> Yes <b>Source:</b> Brian Earlywine <b>Incident Type S:</b> ILLEGAL DISPOSAL (NOT OPEN DUMP); STREAM DEGRADATION <b>Incident Desc:</b> Property owner is stockpiling old vehicle gas tanks on his property. Caller states they have been placed in and		<b>Notification:</b> No <b>Date:</b> 2/3/2011 <b>Lead Invest ID:</b> 40221 <b>Lead Investigator:</b> Gross, Matthew <b>Flw Up Prior Desc:</b> <b>Recen Cpl Eval Act:</b> <b>Recent ENF Act:</b> <b>Locked Flag:</b> Yes <b>Waterbody:</b> Unnamed <b>Regional Office:</b> Morehead Regional Office <b>County:</b> Fleming <b>Lat Dac Degrees:</b> 38.44285 <b>Long Dec Degrees:</b> -83.66909				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
---------	-------------------	-----------	------------------	----------------	------	----

**Location Desc:** around a ditch that drains to a pond that flows towards the creek. 206 Beech Springs Drive (Beech Springs Estates Subdivision)

KY 32 to Flemingsburg, KY 57 north 2 or 3 miles, right onto KY 3301, ~1.5 miles, left into subdivision, piles are on the right as you come down the hill.

**Other Substance Desc:**

**Z Coordinate Method Desc:** Handheld GPS - Not Differentially Corrected

<u>3</u>	1 of 1	NNE	0.16 / 832.73	883.05 / 44	Old Hintons Grocery Hwy 57 Flemingsburg KY 41041	UST
----------	--------	-----	---------------	-------------	--	-----

<b>AI ID:</b>	61952	<b>County:</b>	Fleming
<b>Int Doc ID:</b>		<b>Mail Addr Municip:</b>	Flemingsburg
<b>Latitude:</b>	-83.639001	<b>Mailing Addr State:</b>	KY
<b>Longitude:</b>	38.483546	<b>Mailing Addr Zip:</b>	41041
<b>AI Type:</b>	UNLISTED-Unlisted Agency Interest Type (nec)		

**Underground Storage Tanks**

<b>Subject Item ID:</b>	3	<b>Owner City:</b>	
<b>Tank Pit No:</b>		<b>Owner State:</b>	
<b>Tank Status:</b>	TEX Exempt	<b>Owner Zip:</b>	
<b>Temp Close Date:</b>	7/3/1998	<b>Owner Phone:</b>	
<b>Site Seq ID:</b>	9999776	<b>Subj Item Cat Code:</b>	
<b>Install Date:</b>		<b>Last Pipe Test Dt:</b>	
<b>Lined Date:</b>		<b>Lining Insp Date:</b>	
<b>Tank Material:</b>	SST Single Wall Steel	<b>Tnk Ext Corr Prtct:</b>	UNK Unknown
<b>Tank Inert Mterial:</b>		<b>Tnk Int Corr Prtct:</b>	
<b>Tank Release Detect:</b>	NON None	<b>Tnk Ovrfill Prvent:</b>	UNK Unknown
<b>Tank Spill Prevent:</b>	UNK Unknown	<b>Pipe Material Desc:</b>	SST Single Wall Steel
<b>Last Cont Prod Dt:</b>		<b>Pip Ext Corr Prtct:</b>	UNK Unknown
<b>Closed in Place Dt:</b>		<b>Pipe Type Desc:</b>	SUC Suction
<b>Removal Date:</b>		<b>Pipe Rel Detct PRP:</b>	
<b>Service Change Dt:</b>		<b>Pipe Rel Detct SUC:</b>	
<b>Last Tank Test Dt:</b>		<b>Pipe Leak Detect:</b>	
<b>Last CP Test Date:</b>		<b>Tank Manufctr:</b>	
<b>Added to Flex Date:</b>		<b>Owner Email:</b>	
<b>Added to Piping Dt:</b>		<b>Tank Install Date:</b>	1/1/1955
<b>Added to Tank Date:</b>		<b>Lst Ln Leak Det Dt:</b>	
<b>Piping Install Dt:</b>		<b>Lst Ln Test Dte:</b>	
<b>Owner Name:</b>	Charles Hinton	<b>Met Pipe Comp Cp:</b>	
<b>Owner Address:</b>		<b>Stp Sump:</b>	
<b>Owner Address 2:</b>		<b>Lne Leak Detct Cd:</b>	NA
<b>Owner Address 3:</b>		<b>Pipe Rel Detct Cd:</b>	NON
<b>Pipe Manufctr:</b>			
<b>Overfill Liquid Tightness Date:</b>			
<b>Spill Liquid Tightness Date:</b>			
<b>Sump Liquid Tightness Date:</b>			

**Tank Compartment Information**

<b>Compartment No:</b>	1	<b>Tank Substance Cd:</b>	GAS
<b>Capacity MSR:</b>	560	<b>Tank Subst Desc:</b>	GAS Gasoline

**Underground Storage Tanks**

<b>Subject Item ID:</b>	1	<b>Owner City:</b>	
<b>Tank Pit No:</b>		<b>Owner State:</b>	
<b>Tank Status:</b>	TEX Exempt	<b>Owner Zip:</b>	
<b>Temp Close Date:</b>	7/3/1998	<b>Owner Phone:</b>	
<b>Site Seq ID:</b>	9999776	<b>Subj Item Cat Code:</b>	
<b>Install Date:</b>		<b>Last Pipe Test Dt:</b>	
<b>Lined Date:</b>		<b>Lining Insp Date:</b>	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
---------	-------------------	-----------	------------------	----------------	------	----

<b>Tank Material:</b>	SST Single Wall Steel				<b>Tnk Ext Corr Prtct:</b>	UNK Unknown
<b>Tank Inert Mterial:</b>					<b>Tnk Int Corr Prtct:</b>	
<b>Tank Relese Detect:</b>	NON None				<b>Tnk Ovrfill Prvent:</b>	UNK Unknown
<b>Tank Spill Prevent:</b>	UNK Unknown				<b>Pipe Material Desc:</b>	SST Single Wall Steel
<b>Last Cont Prod Dt:</b>					<b>Pip Ext Corr Prtct:</b>	UNK Unknown
<b>Closed in Place Dt:</b>					<b>Pipe Type Desc:</b>	SUC Suction
<b>Removal Date:</b>					<b>Pipe Rel Detct PRP:</b>	
<b>Service Change Dt:</b>					<b>Pipe Rel Detct SUC:</b>	
<b>Last Tank Test Dt:</b>					<b>Pipe Leak Detect:</b>	
<b>Last CP Test Date:</b>					<b>Tank Manufctr:</b>	
<b>Added to Flex Date:</b>					<b>Owner Email:</b>	
<b>Added to Piping Dt:</b>					<b>Tank Install Date:</b>	1/1/1955
<b>Added to Tank Date:</b>					<b>Lst Ln Leak Det Dt:</b>	
<b>Piping Install Dt:</b>					<b>Lst Ln Test Dte:</b>	
<b>Owner Name:</b>	Charles Hinton				<b>Met Pipe Comp Cp:</b>	
<b>Owner Address:</b>					<b>Stp Sump:</b>	
<b>Owner Address 2:</b>					<b>Lne Leak Detct Cd:</b>	NA
<b>Owner Address 3:</b>					<b>Pipe Rel Detct Cd:</b>	NON
<b>Pipe Manufctr:</b>						
<b>Overfill Liquid Tightness Date:</b>						
<b>Spill Liquid Tightness Date:</b>						
<b>Sump Liquid Tightness Date:</b>						

**Tank Compartment Information**

<b>Compartment No:</b>	1	<b>Tank Substance Cd:</b>	GAS
<b>Capacity MSR:</b>	560	<b>Tank Subst Desc:</b>	GAS Gasoline

**Underground Storage Tanks**

<b>Subject Item ID:</b>	2	<b>Owner City:</b>	
<b>Tank Pit No:</b>		<b>Owner State:</b>	
<b>Tank Status:</b>	TEX Exempt	<b>Owner Zip:</b>	
<b>Temp Close Date:</b>	7/3/1998	<b>Owner Phone:</b>	
<b>Site Seq ID:</b>	9999776	<b>Subj Item Cat Code:</b>	
<b>Install Date:</b>		<b>Last Pipe Test Dt:</b>	
<b>Lined Date:</b>		<b>Lining Insp Date:</b>	
<b>Tank Material:</b>	SST Single Wall Steel	<b>Tnk Ext Corr Prtct:</b>	UNK Unknown
<b>Tank Inert Mterial:</b>		<b>Tnk Int Corr Prtct:</b>	
<b>Tank Relese Detect:</b>	NON None	<b>Tnk Ovrfill Prvent:</b>	UNK Unknown
<b>Tank Spill Prevent:</b>	UNK Unknown	<b>Pipe Material Desc:</b>	SST Single Wall Steel
<b>Last Cont Prod Dt:</b>		<b>Pip Ext Corr Prtct:</b>	UNK Unknown
<b>Closed in Place Dt:</b>		<b>Pipe Type Desc:</b>	SUC Suction
<b>Removal Date:</b>		<b>Pipe Rel Detct PRP:</b>	
<b>Service Change Dt:</b>		<b>Pipe Rel Detct SUC:</b>	
<b>Last Tank Test Dt:</b>		<b>Pipe Leak Detect:</b>	
<b>Last CP Test Date:</b>		<b>Tank Manufctr:</b>	
<b>Added to Flex Date:</b>		<b>Owner Email:</b>	
<b>Added to Piping Dt:</b>		<b>Tank Install Date:</b>	1/1/1955
<b>Added to Tank Date:</b>		<b>Lst Ln Leak Det Dt:</b>	
<b>Piping Install Dt:</b>		<b>Lst Ln Test Dte:</b>	
<b>Owner Name:</b>	Charles Hinton	<b>Met Pipe Comp Cp:</b>	
<b>Owner Address:</b>		<b>Stp Sump:</b>	
<b>Owner Address 2:</b>		<b>Lne Leak Detct Cd:</b>	NA
<b>Owner Address 3:</b>		<b>Pipe Rel Detct Cd:</b>	NON
<b>Pipe Manufctr:</b>			
<b>Overfill Liquid Tightness Date:</b>			
<b>Spill Liquid Tightness Date:</b>			
<b>Sump Liquid Tightness Date:</b>			

**Tank Compartment Information**

<b>Compartment No:</b>	1	<b>Tank Substance Cd:</b>	GAS
<b>Capacity MSR:</b>	560	<b>Tank Subst Desc:</b>	GAS Gasoline

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<u>4</u>	1 of 3	NNE	0.20 / 1,069.06	887.00 / 48	Hursts Grocery 7327 Mt Carmel Rd Flemingsburg KY 41041	PSTEAF

UST Tank ID: 2054035  
 AI ID: 61940  
 Rank: 2

Project Manager: Onejeme  
 Financial Account: PSTA  
 County: Fleming

**Rank Description:**

Those facilities, with releases for which the division has not issued a No Further Action Letter, that are required to use the screening levels listed in Groundwater Table 1 of the Classification Outline, incorporated by reference in 401 KAR 42:080, within the point of compliance, where:  
 1. Groundwater contamination, exceeding the screening levels listed in Groundwater Table 1, has been confirmed within the point of compliance; or  
 2. Groundwater contamination exceeding the screening levels listed in Groundwater Table 1 has been confirmed beyond the point of compliance.

**Financial Account Description:**

Pertroleum Storage Tank Account

**Data Source:**

USTB Facility Ranking List; PSTEAF Applicant Information (as of Dec 2022)

**PSTEAF Applicant Information**

AFA No: 104474  
 App Status: Approved  
 NFA Date:  
 Release Date: 3/20/2001  
 Approval Date: 8/14/2003  
 App Review Dt: 6/3/2003 12:00:00 AM

Account: PST  
 Account Desc:  
 Deductible Amount: 0  
 Financial Category: 1  
 Phase: Site Investigation  
 Subject Item: PSTA0000000001

Facility: Hursts Grocery  
 Eligible Company AI ID: 105591  
 Eligible Company Name: Hinkle-Meyer Environmental Services  
 Applicant: Charles Hurst  
 Payee Name: Charles Hurst  
 Psteaf Payee Address: 3 Hmb Cir Frankfort, KY, 40601

<u>4</u>	2 of 3	NNE	0.20 / 1,069.06	887.00 / 48	Hursts Grocery 7327 Mt Carmel Rd KY	SB193
----------	--------	-----	-----------------	-------------	---	-------

Site Number: 2054-035  
 Site Name: Hursts Grocery  
 Soil Groundwater: Soil

Work Group: CLW  
 County: Fleming

<u>4</u>	3 of 3	NNE	0.20 / 1,069.06	887.00 / 48	Hursts Grocery 7327 Mt Carmel Rd Flemingsburg KY 41041	UST
----------	--------	-----	-----------------	-------------	--	-----

AI ID: 61940  
 Int Doc ID:  
 Latitude: -83.638079  
 Longitude: 38.483892  
 AI Type:

County: Fleming  
 Mail Addr Municip: Flemingsburg  
 Mailing Addr State: KY  
 Mailing Addr Zip: 41041  
 UNLISTED-Unlisted Agency Interest Type (nec)

**Underground Storage Tanks**

Subject Item ID: 3  
 Tank Pit No:  
 Tank Status: TR8 Removed Prior to 1988  
 Temp Close Date:  
 Site Seq ID: 2054035  
 Install Date:  
 Lined Date:  
 Tank Material: SST Single Wall Steel  
 Tank Inert Mterial:  
 Tank Release Detect: NON None  
 Tank Spill Prevent: UNK Unknown

Owner City:  
 Owner State:  
 Owner Zip:  
 Owner Phone:  
 Subj Item Cat Code:  
 Last Pipe Test Dt:  
 Lining Insp Date:  
 Tnk Ext Corr Prtct: UNK Unknown  
 Tnk Int Corr Prtct:  
 Tnk Ovrfill Prvent: UNK Unknown  
 Pipe Material Desc: SST Single Wall Steel

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
---------	-------------------	-----------	------------------	----------------	------	----

<b>Last Cont Prod Dt:</b>					<b>Pip Ext Corr Prtct:</b>	UNK Unknown
<b>Closed in Place Dt:</b>					<b>Pipe Type Desc:</b>	UNK Unknown
<b>Removal Date:</b>	4/1/1968				<b>Pipe Rel Detct PRP:</b>	
<b>Service Change Dt:</b>					<b>Pipe Rel Detct SUC:</b>	
<b>Last Tank Test Dt:</b>					<b>Pipe Leak Detect:</b>	
<b>Last CP Test Date:</b>					<b>Tank Manufctr:</b>	
<b>Added to Flex Date:</b>					<b>Owner Email:</b>	
<b>Added to Piping Dt:</b>					<b>Tank Install Date:</b>	1/1/1901
<b>Added to Tank Date:</b>					<b>Lst Ln Leak Det Dt:</b>	
<b>Piping Install Dt:</b>					<b>Lst Ln Test Dte:</b>	
<b>Owner Name:</b>	Charles Hurst				<b>Met Pipe Comp Cp:</b>	
<b>Owner Address:</b>					<b>Stp Sump:</b>	
<b>Owner Address 2:</b>					<b>Lne Leak Detct Cd:</b>	NA
<b>Owner Address 3:</b>					<b>Pipe Rel Detct Cd:</b>	UNK
<b>Pipe Manufctr:</b>						
<b>Overfill Liquid Tightness Date:</b>						
<b>Spill Liquid Tightness Date:</b>						
<b>Sump Liquid Tightness Date:</b>						

**Tank Compartment Information**

<b>Compartment No:</b>	1	<b>Tank Substance Cd:</b>	EMP
<b>Capacity MSR:</b>	1000	<b>Tank Subst Desc:</b>	EMP Empty

**Underground Storage Tanks**

<b>Subject Item ID:</b>	1	<b>Owner City:</b>	
<b>Tank Pit No:</b>		<b>Owner State:</b>	
<b>Tank Status:</b>	TCP Closed In Place	<b>Owner Zip:</b>	
<b>Temp Close Date:</b>	8/21/1997	<b>Owner Phone:</b>	
<b>Site Seq ID:</b>	2054035	<b>Subj Item Cat Code:</b>	
<b>Install Date:</b>		<b>Last Pipe Test Dt:</b>	
<b>Lined Date:</b>		<b>Lining Insp Date:</b>	
<b>Tank Material:</b>	SST Single Wall Steel	<b>Tnk Ext Corr Prtct:</b>	UNK Unknown
<b>Tank Inert Mterial:</b>		<b>Tnk Int Corr Prtct:</b>	
<b>Tank Relese Detect:</b>	NON None	<b>Tnk Ovrfill Prvent:</b>	UNK Unknown
<b>Tank Spill Prevent:</b>	UNK Unknown	<b>Pipe Material Desc:</b>	SST Single Wall Steel
<b>Last Cont Prod Dt:</b>		<b>Pip Ext Corr Prtct:</b>	NON None
<b>Closed in Place Dt:</b>	3/20/2001	<b>Pipe Type Desc:</b>	SUC Suction
<b>Removal Date:</b>		<b>Pipe Rel Detct PRP:</b>	
<b>Service Change Dt:</b>		<b>Pipe Rel Detct SUC:</b>	
<b>Last Tank Test Dt:</b>		<b>Pipe Leak Detect:</b>	
<b>Last CP Test Date:</b>		<b>Tank Manufctr:</b>	
<b>Added to Flex Date:</b>		<b>Owner Email:</b>	
<b>Added to Piping Dt:</b>		<b>Tank Install Date:</b>	1/1/1901
<b>Added to Tank Date:</b>		<b>Lst Ln Leak Det Dt:</b>	
<b>Piping Install Dt:</b>		<b>Lst Ln Test Dte:</b>	
<b>Owner Name:</b>	Charles Hurst	<b>Met Pipe Comp Cp:</b>	
<b>Owner Address:</b>		<b>Stp Sump:</b>	
<b>Owner Address 2:</b>		<b>Lne Leak Detct Cd:</b>	NA
<b>Owner Address 3:</b>		<b>Pipe Rel Detct Cd:</b>	NON
<b>Pipe Manufctr:</b>			
<b>Overfill Liquid Tightness Date:</b>			
<b>Spill Liquid Tightness Date:</b>			
<b>Sump Liquid Tightness Date:</b>			

**Tank Compartment Information**

<b>Compartment No:</b>	1	<b>Tank Substance Cd:</b>	GAS
<b>Capacity MSR:</b>	1000	<b>Tank Subst Desc:</b>	GAS Gasoline

**Underground Storage Tanks**

<b>Subject Item ID:</b>	4	<b>Owner City:</b>	
-------------------------	---	--------------------	--



Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
---------	-------------------	-----------	------------------	----------------	------	----

<b>Tank Pit No:</b>					<b>Owner State:</b>	
<b>Tank Status:</b>	TRM Removed Tank Verified				<b>Owner Zip:</b>	
<b>Temp Close Date:</b>	12/1/2004				<b>Owner Phone:</b>	
<b>Site Seq ID:</b>	2054035				<b>Subj Item Cat Code:</b>	
<b>Install Date:</b>					<b>Last Pipe Test Dt:</b>	
<b>Lined Date:</b>					<b>Lining Insp Date:</b>	
<b>Tank Material:</b>	SST Single Wall Steel				<b>Tnk Ext Corr Prtct:</b>	CCP Coating & Cathodic Protection
<b>Tank Inert Mterial:</b>					<b>Tnk Int Corr Prtct:</b>	
<b>Tank Release Detect:</b>	MTG Manual Tank Gauging				<b>Tnk Ovrfill Prvent:</b>	ASD Automatic Shutoff Device
<b>Tank Spill Prevent:</b>	SWS Single Wall Spill Bucket				<b>Pipe Material Desc:</b>	DST Double Wall Steel
<b>Last Cont Prod Dt:</b>					<b>Pip Ext Corr Prtct:</b>	FCP Field Installed Cathodic Prot
<b>Closed in Place Dt:</b>					<b>Pipe Type Desc:</b>	SUC Suction
<b>Removal Date:</b>	8/29/2005				<b>Pipe Rel Detct PRP:</b>	
<b>Service Change Dt:</b>					<b>Pipe Rel Detct SUC:</b>	
<b>Last Tank Test Dt:</b>					<b>Pipe Leak Detect:</b>	
<b>Last CP Test Date:</b>	7/27/2004				<b>Tank Manufctr:</b>	
<b>Added to Flex Date:</b>					<b>Owner Email:</b>	
<b>Added to Piping Dt:</b>					<b>Tank Install Date:</b>	6/1/1989
<b>Added to Tank Date:</b>					<b>Lst Ln Leak Det Dt:</b>	
<b>Piping Install Dt:</b>					<b>Lst Ln Test Dte:</b>	
<b>Owner Name:</b>	Charles Hurst				<b>Met Pipe Comp Cp:</b>	
<b>Owner Address:</b>					<b>Stp Sump:</b>	
<b>Owner Address 2:</b>					<b>Lne Leak Detct Cd:</b>	NA
<b>Owner Address 3:</b>					<b>Pipe Rel Detct Cd:</b>	CKV
<b>Pipe Manufctr:</b>						
<b>Overfill Liquid Tightness Date:</b>						
<b>Spill Liquid Tightness Date:</b>						
<b>Sump Liquid Tightness Date:</b>						

#### Tank Compartment Information

<b>Compartment No:</b>	1	<b>Tank Substance Cd:</b>	GAS
<b>Capacity MSR:</b>	1000	<b>Tank Subst Desc:</b>	GAS Gasoline

#### Underground Storage Tanks

<b>Subject Item ID:</b>	2	<b>Owner City:</b>	
<b>Tank Pit No:</b>		<b>Owner State:</b>	
<b>Tank Status:</b>	TCP Closed In Place	<b>Owner Zip:</b>	
<b>Temp Close Date:</b>	8/21/1997	<b>Owner Phone:</b>	
<b>Site Seq ID:</b>	2054035	<b>Subj Item Cat Code:</b>	
<b>Install Date:</b>		<b>Last Pipe Test Dt:</b>	
<b>Lined Date:</b>		<b>Lining Insp Date:</b>	
<b>Tank Material:</b>	SST Single Wall Steel	<b>Tnk Ext Corr Prtct:</b>	NON None
<b>Tank Inert Mterial:</b>		<b>Tnk Int Corr Prtct:</b>	
<b>Tank Release Detect:</b>	NON None	<b>Tnk Ovrfill Prvent:</b>	UNK Unknown
<b>Tank Spill Prevent:</b>	UNK Unknown	<b>Pipe Material Desc:</b>	SST Single Wall Steel
<b>Last Cont Prod Dt:</b>		<b>Pip Ext Corr Prtct:</b>	NON None
<b>Closed in Place Dt:</b>	3/20/2001	<b>Pipe Type Desc:</b>	SUC Suction
<b>Removal Date:</b>		<b>Pipe Rel Detct PRP:</b>	
<b>Service Change Dt:</b>		<b>Pipe Rel Detct SUC:</b>	
<b>Last Tank Test Dt:</b>		<b>Pipe Leak Detect:</b>	
<b>Last CP Test Date:</b>		<b>Tank Manufctr:</b>	
<b>Added to Flex Date:</b>		<b>Owner Email:</b>	
<b>Added to Piping Dt:</b>		<b>Tank Install Date:</b>	1/1/1901
<b>Added to Tank Date:</b>		<b>Lst Ln Leak Det Dt:</b>	
<b>Piping Install Dt:</b>		<b>Lst Ln Test Dte:</b>	
<b>Owner Name:</b>	Charles Hurst	<b>Met Pipe Comp Cp:</b>	
<b>Owner Address:</b>		<b>Stp Sump:</b>	
<b>Owner Address 2:</b>		<b>Lne Leak Detct Cd:</b>	NA
<b>Owner Address 3:</b>		<b>Pipe Rel Detct Cd:</b>	NON
<b>Pipe Manufctr:</b>			
<b>Overfill Liquid Tightness Date:</b>			
<b>Spill Liquid Tightness Date:</b>			
<b>Sump Liquid Tightness Date:</b>			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
---------	-------------------	-----------	------------------	----------------	------	----

**Tank Compartment Information**

<b>Compartment No:</b>	1	<b>Tank Substance Cd:</b>	GAS
<b>Capacity MSR:</b>	1000	<b>Tank Subst Desc:</b>	GAS Gasoline

**Underground Storage Tanks**

<b>Subject Item ID:</b>	5	<b>Owner City:</b>	
<b>Tank Pit No:</b>		<b>Owner State:</b>	
<b>Tank Status:</b>	TRM Removed Tank Verified	<b>Owner Zip:</b>	
<b>Temp Close Date:</b>	12/1/2004	<b>Owner Phone:</b>	
<b>Site Seq ID:</b>	2054035	<b>Subj Item Cat Code:</b>	
<b>Install Date:</b>		<b>Last Pipe Test Dt:</b>	
<b>Lined Date:</b>		<b>Lining Insp Date:</b>	
<b>Tank Material:</b>	SST Single Wall Steel	<b>Tnk Ext Corr Prtct:</b>	CCP Coating & Cathodic Protection
<b>Tank Inert Mterial:</b>		<b>Tnk Int Corr Prtct:</b>	
<b>Tank Release Detect:</b>	MTG Manual Tank Gauging	<b>Tnk Ovrfill Prvent:</b>	ASD Automatic Shutoff Device
<b>Tank Spill Prevent:</b>	SWS Single Wall Spill Bucket	<b>Pipe Material Desc:</b>	DST Double Wall Steel
<b>Last Cont Prod Dt:</b>		<b>Pip Ext Corr Prtct:</b>	FCP Field Installed Cathodic Prot
<b>Closed in Place Dt:</b>		<b>Pipe Type Desc:</b>	SUC Suction
<b>Removal Date:</b>	8/29/2005	<b>Pipe Rel Detct PRP:</b>	
<b>Service Change Dt:</b>		<b>Pipe Rel Detct SUC:</b>	
<b>Last Tank Test Dt:</b>		<b>Pipe Leak Detect:</b>	
<b>Last CP Test Date:</b>	7/27/2004	<b>Tank Manufctr:</b>	
<b>Added to Flex Date:</b>		<b>Owner Email:</b>	
<b>Added to Piping Dt:</b>		<b>Tank Install Date:</b>	6/1/1989
<b>Added to Tank Date:</b>		<b>Lst Ln Leak Det Dt:</b>	
<b>Piping Install Dt:</b>		<b>Lst Ln Test Dte:</b>	
<b>Owner Name:</b>	Charles Hurst	<b>Met Pipe Comp Cp:</b>	
<b>Owner Address:</b>		<b>Stp Sump:</b>	
<b>Owner Address 2:</b>		<b>Lne Leak Detct Cd:</b>	NA
<b>Owner Address 3:</b>		<b>Pipe Rel Detct Cd:</b>	CKV
<b>Pipe Manufctr:</b>			
<b>Overfill Liquid Tightness Date:</b>			
<b>Spill Liquid Tightness Date:</b>			
<b>Sump Liquid Tightness Date:</b>			

**Tank Compartment Information**

<b>Compartment No:</b>	1	<b>Tank Substance Cd:</b>	GAS
<b>Capacity MSR:</b>	1000	<b>Tank Subst Desc:</b>	GAS Gasoline

<u>5</u>	1 of 1	SSE	0.43 / 2,263.37	893.02 / 54	Yoder Diesel Spill KY 3301 Wallingford KY 41093	SHWS
----------	--------	-----	--------------------	----------------	---	------

<b>Agency Interest ID:</b>	52796	<b>AI Lat:</b>	38.446669
<b>AI State:</b>	KY	<b>AI Long:</b>	-83.640281
<b>AI County:</b>	Fleming		

**Detail**

<b>AAZZ No:</b>	1	<b>SI Address Line 1:</b>	NONE
<b>Site Status:</b>	Closed	<b>SI Address Line 2:</b>	
<b>Closure Option:</b>	Option A No Action Necessary	<b>SI City:</b>	
<b>Closure Date:</b>	4/12/1999	<b>SI State:</b>	KY
<b>Regulatory Desc:</b>	Petroleum Cleanup	<b>SI Zip:</b>	
<b>SI Desg:</b>	37130	<b>SI Long:</b>	-83.64028
<b>SI County:</b>		<b>SI Lat:</b>	38.44667
<b>Acreage:</b>			
<b>SI Description:</b>	YODER DIESEL SPILL (Closed: No Action Necessary)		

# Unplottable Summary

Total: 11 Unplottable sites

DB	Company Name/Site Name	Address	City	Zip	ERIS ID
FINDS/FRS	ROBERT MARSHALL BEEF FARM	MT CARMEL BEECHBURG RD <i>Registry ID: 110045254899</i>	BEECHBURG KY	41041	815432920
SPILLS	Fleming Co Water Association (AI ID: 33873)	Past the Pea Ridge Tank, including McRoberts Ridge, Hester Ridge, HWY 344, Oak Ridge and all side roads <i>INC ID   Status: 2443085   Env. Closed</i>	Flemingsburg KY		875172738
SPILLS	Fleming Co Water Association (AI ID: 33873)	KY 57 to Maddox Pike, Wilson Run and Beech Tree Pike <i>INC ID   Status: 2321010   Env. Closed</i>	Flemingsburg KY		827091826
SPILLS	Fleming Co Water Association (AI ID: 33873)	taylor Mill, Mill creek, Cherry Groves. HWY 57 to Beechburg area and all side roads <i>INC ID   Status: 2444456   Env. Closed</i>	Flemingsburg KY		875183820
SPILLS	Fleming Co Water Association (AI ID: 33873)	Carpenter Rd, Maddox Pike, and Fox Port area <i>INC ID   Status: 2448024   Env. Closed</i>	Flemingsburg KY		875183238
SPILLS	Fleming Co Water Association (AI ID: 33873)	KY 344 from Greg Miracle's to Kevin Boxes and including Elk Lick and Long Branch <i>INC ID   Status: 2444065   Env. Closed</i>	Flemingsburg KY		875179477
SPILLS	Fleming Co Water Association (AI ID: 33873)	Poplar Grove, Mt. Carmel and Fox Grove <i>INC ID   Status: 2439689   Env. Closed</i>	Flemingsburg KY		875176993
SPILLS	Fleming Co Water Association (AI ID: 33873)	HWY 344 starting at Breeze Rd to Old Fox Part Store <i>INC ID   Status: 2484737   Env. Closed</i>	Flemingsburg KY		894604108
SPILLS	Fleming Co Water Association (AI ID: 33873)	HWY 57 and side roads <i>INC ID   Status: 2422481   Env. Closed</i>	Flemingsburg KY		859671987

SPILLS	Mount Caramel Area EOC# 20042499	Flemingsburg KY	827068635
	<b>INC ID / Status:</b> 184384   Env. Closed		
SPILLS	Fleming Co Water Association (AI ID: 33873)	West & North Poplar Grove and Taylors Mill Area	Flemingsburg KY
	<b>INC ID / Status:</b> 2268440   Env. Closed		

# Unplottable Report

**Site:** ROBERT MARSHALL BEEF FARM  
MT CARMEL BEECHBURG RD BEECHBURG KY 41041

FINDS/FRS

**Registry ID:** 110045254899  
**FIPS Code:** 21069  
**HUC Code:**  
**Site Type Name:** STATIONARY  
**Location Description:**  
**Supplemental Location:**  
**Create Date:** 28-MAR-12  
**Update Date:** 30-DEC-14  
**Interest Types:** STATE MASTER  
**SIC Codes:**  
**SIC Code Descriptions:**  
**NAICS Codes:**  
**NAICS Code Descriptions:**  
**Conveyor:**  
**Federal Facility Code:**  
**Federal Agency Name:**  
**Tribal Land Code:**  
**Tribal Land Name:**  
**Congressional Dist No:**  
**Census Block Code:**  
**EPA Region Code:** 04  
**County Name:** FLEMING  
**US/Mexico Border Ind:**  
**Latitude:**  
**Longitude:**  
**Reference Point:**  
**Coord Collection Method:**  
**Accuracy Value:**  
**Datum:** NAD83  
**Source:**  
**Facility Detail Rprt URL:** [https://ofmpub.epa.gov/frs\\_public2/fii\\_query\\_detail.disp\\_program\\_facility?p\\_registry\\_id=110045254899](https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110045254899)  
**Data Source:** Facility Registry Service - Single File  
**Program Acronyms:**

KY-TEMPO:9686

**Site:** Fleming Co Water Association (AI ID: 33873)  
Past the Pea Ridge Tank, including McRoberts Ridge, Hester Ridge, HWY 344, Oak Ridge and all side roads Flemingsburg KY

SPILLS

<b>INC ID:</b>	2443085	<b>Notification:</b>	Yes
<b>MARS Function Code:</b>		<b>Date:</b>	8/8/2018
<b>Status:</b>	Env. Closed	<b>Lead Invest ID:</b>	71242
<b>Priority:</b>	Routine	<b>Lead Investigator:</b>	Nelson, Thomas
<b>Program Code:</b>	03	<b>Flw Up Prior Desc:</b>	
<b>Program:</b>	Drinking Water	<b>Recen Cpl Eval Act:</b>	
<b>Substances:</b>	Population Affected:300	<b>Recent ENF Act:</b>	
<b>Closure Type Desc:</b>	Env. Closed-Managed	<b>Locked Flag:</b>	Yes
<b>Incident End Date:</b>	8/10/2018	<b>Waterbody:</b>	
<b>Begin Emerg Dt:</b>		<b>Regional Office:</b>	Morehead Regional Office
<b>End Emerg Dt:</b>		<b>County:</b>	Fleming
<b>Record Date:</b>		<b>Lat Dec Degrees:</b>	38.4115
<b>First Report Date:</b>	8/8/2018 8:15:40 AM	<b>Long Dec Degrees:</b>	-83.73278
<b>Completed:</b>	No		
<b>Source:</b>	Fleming Co Water Association (AI ID: 33873)		
<b>Incident Type S:</b>	DW-LINE BREAK/LEAK		

**Incident Desc:** BWA-FCWA due to a 6" PVC line break affecting 300 customers.  
**Location Desc:** Past the Pea Ridge Tank, including McRoberts Ridge, Hester Ridge, HWY 344, Oak Ridge and all side roads  
**Other Substance Desc:**  
**Z Coordinate Method Desc:** Unknown

---

**Site:** **Fleming Co Water Association (AI ID: 33873)**  
**KY 57 to Maddox Pike, Wilson Run and Beech Tree Pike Flemingsburg KY**

SPILLS

<b>INC ID:</b>	2321010	<b>Notification:</b>	Yes
<b>MARS Function Code:</b>		<b>Date:</b>	12/1/2010
<b>Status:</b>	Env. Closed	<b>Lead Invest ID:</b>	40158
<b>Priority:</b>	Routine	<b>Lead Investigator:</b>	Canafax, Dan
<b>Program Code:</b>	03	<b>Flw Up Prior Desc:</b>	
<b>Program:</b>	Drinking Water	<b>Recen Cpl Eval Act:</b>	
<b>Substances:</b>	Population Affected:40	<b>Recent ENF Act:</b>	
<b>Closure Type Desc:</b>	Env. Closed-Mitigated	<b>Locked Flag:</b>	Yes
<b>Incident End Date:</b>	12/3/2010	<b>Waterbody:</b>	
<b>Begin Emerg Dt:</b>		<b>Regional Office:</b>	Morehead Regional Office
<b>End Emerg Dt:</b>		<b>County:</b>	Fleming
<b>Record Date:</b>		<b>Lat Dec Degrees:</b>	38.4115
<b>First Report Date:</b>	12/1/2010 8:40:00 AM	<b>Long Dec Degrees:</b>	-83.73278
<b>Completed:</b>	No		
<b>Source:</b>	Fleming Co Water Association (AI ID: 33873)		
<b>Incident Type S:</b>	DW-LINE BREAK/LEAK		
<b>Incident Desc:</b>	BWA-FCWA due to a 6" PVC line break, 40 customers affected		
<b>Location Desc:</b>	KY 57 to Maddox Pike, Wilson Run and Beech Tree Pike		
<b>Other Substance Desc:</b>			
<b>Z Coordinate Method Desc:</b>	Unknown		

---

**Site:** **Fleming Co Water Association (AI ID: 33873)**  
**taylor Mill, Mill creek, Cherry Groves. HWY 57 to Beechburg area and all side roads Flemingsburg KY**

SPILLS

<b>INC ID:</b>	2444456	<b>Notification:</b>	Yes
<b>MARS Function Code:</b>		<b>Date:</b>	9/12/2018
<b>Status:</b>	Env. Closed	<b>Lead Invest ID:</b>	71242
<b>Priority:</b>	Routine	<b>Lead Investigator:</b>	Nelson, Thomas
<b>Program Code:</b>	03	<b>Flw Up Prior Desc:</b>	
<b>Program:</b>	Drinking Water	<b>Recen Cpl Eval Act:</b>	
<b>Substances:</b>	Population Affected:250	<b>Recent ENF Act:</b>	
<b>Closure Type Desc:</b>	Env. Closed-Mitigated	<b>Locked Flag:</b>	Yes
<b>Incident End Date:</b>	9/14/2018	<b>Waterbody:</b>	
<b>Begin Emerg Dt:</b>		<b>Regional Office:</b>	Morehead Regional Office
<b>End Emerg Dt:</b>		<b>County:</b>	Fleming
<b>Record Date:</b>		<b>Lat Dec Degrees:</b>	38.4115
<b>First Report Date:</b>	9/12/2018 1:43:00 PM	<b>Long Dec Degrees:</b>	-83.73278
<b>Completed:</b>	No		
<b>Source:</b>	Fleming Co Water Association (AI ID: 33873)		
<b>Incident Type S:</b>	DW-LINE BREAK/LEAK		
<b>Incident Desc:</b>	BWA-FCWA due to a 6" PVC line beak affecting 250 meters. Customers will be notified via radio announcement.		
<b>Location Desc:</b>	taylor Mill, Mill creek, Cherry Groves. HWY 57 to Beechburg area and all side roads		
<b>Other Substance Desc:</b>			
<b>Z Coordinate Method Desc:</b>	Unknown		

---

**Site:** **Fleming Co Water Association (AI ID: 33873)**  
**Carpenter Rd, Maddox Pike, and Fox Port area Flemingsburg KY**

SPILLS

<b>INC ID:</b>	2448024	<b>Notification:</b>	Yes
<b>MARS Function Code:</b>		<b>Date:</b>	12/5/2018
<b>Status:</b>	Env. Closed	<b>Lead Invest ID:</b>	71242
<b>Priority:</b>	Routine	<b>Lead Investigator:</b>	Nelson, Thomas
<b>Program Code:</b>	03	<b>Flw Up Prior Desc:</b>	
<b>Program:</b>	Drinking Water	<b>Recen Cpl Eval Act:</b>	
<b>Substances:</b>	Population Affected:75	<b>Recent ENF Act:</b>	
<b>Closure Type Desc:</b>	Env. Closed-Managed	<b>Locked Flag:</b>	Yes
<b>Incident End Date:</b>	12/7/2018	<b>Waterbody:</b>	

<b>Begin Emerg Dt:</b>		<b>Regional Office:</b>	Morehead Regional Office
<b>End Emerg Dt:</b>		<b>County:</b>	Fleming
<b>Record Date:</b>		<b>Lat Dac Degrees:</b>	38.4115
<b>First Report Date:</b>	12/5/2018 2:49:42 PM	<b>Long Dec Degrees:</b>	-83.73278
<b>Completed:</b>	No		
<b>Source:</b>	Fleming Co Water Association (AI ID: 33873)		
<b>Incident Type S:</b>	DW-LINE BREAK/LEAK		
<b>Incident Desc:</b>	BWA-FCWA due to a 6" PVCline break affecting 75 customers which were notified via radio.		
<b>Location Desc:</b>	Carpenter Rd, Maddox Pike, and Fox Port area		
<b>Other Substance Desc:</b>			
<b>Z Coordinate Method Desc:</b>	Unknown		

**Site:** **Fleming Co Water Association (AI ID: 33873)**  
**KY 344 from Greg Miracle's to Kevin Boxes and including Elk Lick and Long Branch Flemingsburg KY** SPILLS

<b>INC ID:</b>	2444065	<b>Notification:</b>	Yes
<b>MARS Function Code:</b>		<b>Date:</b>	9/6/2018
<b>Status:</b>	Env. Closed	<b>Lead Invest ID:</b>	71242
<b>Priority:</b>	Routine	<b>Lead Investigator:</b>	Nelson, Thomas
<b>Program Code:</b>	03	<b>Flw Up Prior Desc:</b>	
<b>Program:</b>	Drinking Water	<b>Recen Cpl Eval Act:</b>	
<b>Substances:</b>	Population Affected:20	<b>Recent ENF Act:</b>	
<b>Closure Type Desc:</b>	Env. Closed-Mitigated	<b>Locked Flag:</b>	Yes
<b>Incident End Date:</b>	9/7/2018	<b>Waterbody:</b>	
<b>Begin Emerg Dt:</b>		<b>Regional Office:</b>	Morehead Regional Office
<b>End Emerg Dt:</b>		<b>County:</b>	Fleming
<b>Record Date:</b>		<b>Lat Dac Degrees:</b>	38.4115
<b>First Report Date:</b>	9/6/2018 12:15:00 PM	<b>Long Dec Degrees:</b>	-83.73278
<b>Completed:</b>	No		
<b>Source:</b>	Fleming Co Water Association (AI ID: 33873)		
<b>Incident Type S:</b>	DW-LINE BREAK/LEAK		
<b>Incident Desc:</b>	BWA-FCWA due to a leak on a 6" PVC line affecting 20 customers which were notified door to door.		
<b>Location Desc:</b>	KY 344 from Greg Miracle's to Kevin Boxes and including Elk Lick and Long Branch		
<b>Other Substance Desc:</b>			
<b>Z Coordinate Method Desc:</b>	Unknown		

**Site:** **Fleming Co Water Association (AI ID: 33873)**  
**Poplar Grove, Mt. Carmel and Fox Grove Flemingsburg KY** SPILLS

<b>INC ID:</b>	2439689	<b>Notification:</b>	Yes
<b>MARS Function Code:</b>		<b>Date:</b>	5/8/2018
<b>Status:</b>	Env. Closed	<b>Lead Invest ID:</b>	40158
<b>Priority:</b>	Routine	<b>Lead Investigator:</b>	Canafax, Dan
<b>Program Code:</b>	03	<b>Flw Up Prior Desc:</b>	
<b>Program:</b>	Drinking Water	<b>Recen Cpl Eval Act:</b>	
<b>Substances:</b>	Population Affected:100	<b>Recent ENF Act:</b>	
<b>Closure Type Desc:</b>	Env. Closed-Mitigated	<b>Locked Flag:</b>	Yes
<b>Incident End Date:</b>		<b>Waterbody:</b>	
<b>Begin Emerg Dt:</b>		<b>Regional Office:</b>	Morehead Regional Office
<b>End Emerg Dt:</b>		<b>County:</b>	Fleming
<b>Record Date:</b>		<b>Lat Dac Degrees:</b>	38.4115
<b>First Report Date:</b>	5/8/2018 8:39:41 AM	<b>Long Dec Degrees:</b>	-83.73278
<b>Completed:</b>	No		
<b>Source:</b>	Fleming Co Water Association (AI ID: 33873)		
<b>Incident Type S:</b>	DW-LINE BREAK/LEAK		
<b>Incident Desc:</b>	BWA-FCWA due to a 6" PVC line break affecting 100 customers.		
<b>Location Desc:</b>	Poplar Grove, Mt. Carmel and Fox Grove		
<b>Other Substance Desc:</b>			
<b>Z Coordinate Method Desc:</b>	Unknown		

**Site:** **Fleming Co Water Association (AI ID: 33873)**  
**HWY 344 starting at Breeze Rd to Old Fox Part Store Flemingsburg KY** SPILLS

<b>INC ID:</b>	2484737	<b>Notification:</b>	Yes
<b>MARS Function Code:</b>		<b>Date:</b>	7/28/2021

**Status:** Env. Closed  
**Priority:** Routine  
**Program Code:** 03  
**Program:** Drinking Water  
**Substances:** Population Affected:25  
**Closure Type Desc:** Env. Closed-Mitigated  
**Incident End Date:** 7/30/2021  
**Begin Emerg Dt:**  
**End Emerg Dt:**  
**Record Date:**  
**First Report Date:** 7/28/2021 1:45:00 PM  
**Completed:** No  
**Source:** Fleming Co Water Association (AI ID: 33873)  
**Incident Type S:** DW-LINE BREAK/LEAK  
**Incident Desc:** BWA-FCWA due to a 4" PVC line break affecting 25 customers which were notified via radio and social media.  
**Location Desc:** HWY 344 starting at Breeze Rd to Old Fox Part Store  
**Other Substance Desc:**  
**Z Coordinate Method Desc:** Unknown

**Lead Invest ID:** 71242  
**Lead Investigator:** Nelson, Thomas  
**Flw Up Prior Desc:**  
**Recen Cpl Eval Act:**  
**Recent ENF Act:**  
**Locked Flag:** Yes  
**Waterbody:**  
**Regional Office:** Morehead Regional Office  
**County:** Fleming  
**Lat Dac Degrees:** 38.4115  
**Long Dec Degrees:** -83.73278

**Site:** **Fleming Co Water Association (AI ID: 33873)**  
**HWY 57 and side roads Flemingsburg KY**

SPILLS

**INC ID:** 2422481  
**MARS Function Code:**  
**Status:** Env. Closed  
**Priority:** Routine  
**Program Code:** 03  
**Program:** Drinking Water  
**Substances:** Population Affected:85  
**Closure Type Desc:** Env. Closed-Mitigated  
**Incident End Date:** 2/28/2017  
**Begin Emerg Dt:**  
**End Emerg Dt:**  
**Record Date:**  
**First Report Date:** 2/26/2017 11:15:00 AM  
**Completed:** No  
**Source:** Fleming Co Water Association (AI ID: 33873)  
**Incident Type S:** DW-LINE BREAK/LEAK  
**Incident Desc:** BWA-FCWA due to a 6" PVC line break affecting 85 customers.  
**Location Desc:** HWY 57 and side roads  
**Other Substance Desc:**  
**Z Coordinate Method Desc:** Unknown

**Notification:** Yes  
**Date:** 2/26/2017  
**Lead Invest ID:** 40158  
**Lead Investigator:** Canafax, Dan  
**Flw Up Prior Desc:**  
**Recen Cpl Eval Act:**  
**Recent ENF Act:**  
**Locked Flag:** Yes  
**Waterbody:**  
**Regional Office:** Morehead Regional Office  
**County:** Fleming  
**Lat Dac Degrees:** 38.4115  
**Long Dec Degrees:** -83.73278

**Site:** **Mount Caramel Area EOC# 20042499 Flemingsburg KY**

SPILLS

**INC ID:** 184384  
**MARS Function Code:**  
**Status:** Env. Closed  
**Priority:** Routine  
**Program Code:** 01  
**Program:** Air  
**Substances:** Chlorine:, Diesel:  
**Closure Type Desc:** Env. Closed-Managed  
**Incident End Date:**  
**Begin Emerg Dt:**  
**End Emerg Dt:**  
**Record Date:**  
**First Report Date:** 8/14/2004 1:44:00 PM  
**Completed:** No  
**Source:**  
**Incident Type S:** ODOR  
**Incident Desc:** Haze with diesel and chlorine smell.  
**Location Desc:** Mount Caramel Area  
 EOC# 20042499  
**Other Substance Desc:**  
**Z Coordinate Method Desc:**

**Notification:** Yes  
**Date:** 8/14/2004  
**Lead Invest ID:** 9645  
**Lead Investigator:** Seelhorst, Rick  
**Flw Up Prior Desc:** Routine  
**Recen Cpl Eval Act:**  
**Recent ENF Act:**  
**Locked Flag:** Yes  
**Waterbody:**  
**Regional Office:** Ashland Regional Office  
**County:** Fleming  
**Lat Dac Degrees:**  
**Long Dec Degrees:**



**Site:** Fleming Co Water Association (AI ID: 33873)  
West & North Poplar Grove and Taylors Mill Area Flemingsburg KY

SPILLS

<b>INC ID:</b>	2268440	<b>Notification:</b>	Yes
<b>MARS Function Code:</b>		<b>Date:</b>	12/4/2007
<b>Status:</b>	Env. Closed	<b>Lead Invest ID:</b>	40158
<b>Priority:</b>	Routine	<b>Lead Investigator:</b>	Canafax, Dan
<b>Program Code:</b>	03	<b>Flw Up Prior Desc:</b>	
<b>Program:</b>	Drinking Water	<b>Recen Cpl Eval Act:</b>	
<b>Substances:</b>	Population Affected:100	<b>Recent ENF Act:</b>	
<b>Closure Type Desc:</b>	Env. Closed-Managed/Restored	<b>Locked Flag:</b>	Yes
<b>Incident End Date:</b>	12/7/2007	<b>Waterbody:</b>	
<b>Begin Emerg Dt:</b>		<b>Regional Office:</b>	Morehead Regional Office
<b>End Emerg Dt:</b>		<b>County:</b>	Fleming
<b>Record Date:</b>		<b>Lat Dac Degrees:</b>	38.4115
<b>First Report Date:</b>	12/4/2007 2:23:00 PM	<b>Long Dec Degrees:</b>	-83.73278
<b>Completed:</b>	No		
<b>Source:</b>	Fleming Co Water Association (AI ID: 33873)		
<b>Incident Type S:</b>	DW-LINE BREAK/LEAK		
<b>Incident Desc:</b>	BWA-Fleming Co. Water due to a valve blowing off a 6" PVC line		
<b>Location Desc:</b>	West & North Poplar Grove and Taylors Mill Area		
<b>Other Substance Desc:</b>			
<b>Z Coordinate Method Desc:</b>	Unknown		

# Appendix: Database Descriptions

*Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ERIS updates databases as set out in ASTM Standard E1527-13 and E1527-21, Section 8.1.8 Sources of Standard Source Information:*

*"Government information from nongovernmental sources may be considered current if the source updates the information at least every 90 days, or, for information that is updated less frequently than quarterly by the government agency, within 90 days of the date the government agency makes the information available to the public."*

## **Standard Environmental Record Sources**

### **Federal**

#### **Formerly Utilized Sites Remedial Action Program:**

[DOE FUSRAP](#)

The U.S. Department of Energy (DOE) established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from the Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations. The DOE Office of Legacy Management (LM) established long-term surveillance and maintenance (LTS&M) requirements for remediated FUSRAP sites. DOE evaluates the final site conditions of a remediated site on the basis of risk for different future uses. DOE then confirms that LTS&M requirements will maintain protectiveness.

**Government Publication Date: Mar 4, 2017**

#### **National Priority List:**

[NPL](#)

Sites on the United States Environmental Protection Agency (EPA)'s National Priorities List of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. The NPL, which EPA is required to update at least once a year, is based primarily on the score a site receives from EPA's Hazard Ranking System. A site must be on the NPL to receive money from the Superfund Trust Fund for remedial action. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point.

**Government Publication Date: Nov 3, 2022**

#### **National Priority List - Proposed:**

[PROPOSED NPL](#)

Sites proposed by the United States Environmental Protection Agency (EPA), the state agency, or concerned citizens for addition to the National Priorities List (NPL) due to contamination by hazardous waste and identified by the EPA as a candidate for cleanup because it poses a risk to human health and/or the environment. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point.

**Government Publication Date: Nov 3, 2022**

#### **Deleted NPL:**

[DELETED NPL](#)

Sites deleted from the United States Environmental Protection Agency (EPA)'s National Priorities List. The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point.

**Government Publication Date: Nov 3, 2022**

**SEMS List 8R Active Site Inventory:**

[SEMS](#)

The U.S. Environmental Protection Agency's (EPA) Superfund Program has deployed the Superfund Enterprise Management System (SEMS), which integrates multiple legacy systems into a comprehensive tracking and reporting tool. This inventory contains active sites evaluated by the Superfund program that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. 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. This data includes SEMS sites from the List 8R Active file as well as applicable sites from the SEMS GIS/REST file layer obtained from EPA's Facility Registry Service.

**Government Publication Date: Jan 25, 2023**

**SEMS List 8R Archive Sites:**

[SEMS ARCHIVE](#)

The U.S. Environmental Protection Agency's (EPA) Superfund Enterprise Management System (SEMS) 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. This data includes sites from the List 8R Archived site file.

**Government Publication Date: Jan 25, 2023**

**Inventory of Open Dumps, June 1985:**

[ODI](#)

The Resource Conservation and Recovery Act (RCRA) provides for publication of an inventory of open dumps. The Act defines "open dumps" as facilities which do not comply with EPA's "Criteria for Classification of Solid Waste Disposal Facilities and Practices" (40 CFR 257).

**Government Publication Date: Jun 1985**

**Comprehensive Environmental Response, Compensation and Liability Information System -**

[CERCLIS](#)

**CERCLIS:**

Superfund is a program administered by the United States Environmental Protection Agency (EPA) to locate, investigate, and clean up the worst hazardous waste sites throughout the United States. CERCLIS is a database of potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The EPA administers the Superfund program in cooperation with individual states and tribal governments; this database is made available by the EPA.

**Government Publication Date: Oct 25, 2013**

**EPA Report on the Status of Open Dumps on Indian Lands:**

[IODI](#)

Public Law 103-399, The Indian Lands Open Dump Cleanup Act of 1994, enacted October 22, 1994, identified congressional concerns that solid waste open dump sites located on American Indian or Alaska Native (AI/AN) lands threaten the health and safety of residents of those lands and contiguous areas. The purpose of the Act is to identify the location of open dumps on Indian lands, assess the relative health and environment hazards posed by those sites, and provide financial and technical assistance to Indian tribal governments to close such dumps in compliance with Federal standards and regulations or standards promulgated by Indian Tribal governments or Alaska Native entities.

**Government Publication Date: Dec 31, 1998**

**CERCLIS - No Further Remedial Action Planned:**

[CERCLIS NFRAP](#)

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. The Archive designation means that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL). This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

**Government Publication Date: Oct 25, 2013**

**CERCLIS Liens:**

[CERCLIS LIENS](#)

A Federal Superfund lien exists at any property where EPA has incurred Superfund costs to address contamination ("Superfund site") and has provided notice of liability to the property owner. A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. This database is made available by the United States Environmental Protection Agency (EPA). This database was provided by the United States Environmental Protection Agency (EPA). Refer to SEMS LIEN as the current data source for Superfund Liens.

**Government Publication Date: Jan 30, 2014**

**RCRA CORRACTS-Corrective Action:**

[RCRA CORRACTS](#)

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. At these sites, the Corrective Action Program ensures that cleanups occur. EPA and state regulators work with facilities and communities to design remedies based on the contamination, geology, and anticipated use unique to each site.

**Government Publication Date: Jan 23, 2023**

**RCRA non-CORRACTS TSD Facilities:**

[RCRA TSD](#)

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. This database includes Non-Corrective Action sites listed as treatment, storage and/or disposal facilities of hazardous waste as defined by RCRA.

**Government Publication Date: Jan 23, 2023**

**RCRA Generator List:**

[RCRA LQG](#)

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Large Quantity Generators (LQGs) generate 1,000 kilograms per month or more of hazardous waste or more than one kilogram per month of acutely hazardous waste.

**Government Publication Date: Jan 23, 2023**

**RCRA Small Quantity Generators List:**

[RCRA SQG](#)

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Small Quantity Generators (SQGs) generate more than 100 kilograms, but less than 1,000 kilograms, of hazardous waste per month.

**Government Publication Date: Jan 23, 2023**

**RCRA Very Small Quantity Generators List:**

[RCRA VSQG](#)

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Very Small Quantity Generators (VSQG) generate 100 kilograms or less per month of hazardous waste, or one kilogram or less per month of acutely hazardous waste. Additionally, VSQG may not accumulate more than 1,000 kilograms of hazardous waste at any time.

**Government Publication Date: Jan 23, 2023**

**RCRA Non-Generators:**

[RCRA NON GEN](#)

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Non-Generators do not presently generate hazardous waste.

**Government Publication Date: Jan 23, 2023**

**RCRA Sites with Controls:**

[RCRA CONTROLS](#)

List of Resource Conservation and Recovery Act (RCRA) facilities with institutional controls in place. RCRA gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances.

**Government Publication Date: Jan 23, 2023**

**Federal Engineering Controls-ECs:**

[FED ENG](#)

This list of Engineering controls (ECs) is provided by the United States Environmental Protection Agency (EPA). ECs encompass a variety of engineered and constructed physical barriers (e.g., soil capping, sub-surface venting systems, mitigation barriers, fences) to contain and/or prevent exposure to contamination on a property. The EC listing includes remedy component data from Superfund decision documents issued in fiscal years 1982-2020 for applicable sites on the final or deleted on the National Priorities List (NPL); and sites with a Superfund Alternative Approach (SAA) Agreement in place. The only sites included that are not on the NPL; proposed for NPL; or removed from proposed NPL, are those with an SAA Agreement in place.

**Government Publication Date: Dec 22, 2022**

**Federal Institutional Controls- ICs:**

FED INST

This list of Institutional controls (ICs) is provided by the United States Environmental Protection Agency (EPA). ICs are non-engineered instruments, such as administrative and legal controls, that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy. Although it is EPA's expectation that treatment or engineering controls will be used to address principal threat wastes and that groundwater will be returned to its beneficial use whenever practicable, ICs play an important role in site remedies because they reduce exposure to contamination by limiting land or resource use and guide human behavior at a site. The IC listing includes remedy component data from Superfund decision documents issued in fiscal years 1982-2020 for applicable sites on the final or deleted on the National Priorities List (NPL); and sites with a Superfund Alternative Approach (SAA) Agreement in place. The only sites included that are not on the NPL; proposed for NPL; or removed from proposed NPL, are those with an SAA Agreement in place.

**Government Publication Date: Dec 22, 2022**

**Land Use Control Information System:**

LUCIS

The LUCIS database is maintained by the U.S. Department of the Navy and contains information for former Base Realignment and Closure (BRAC) properties across the United States.

**Government Publication Date: Sep 1, 2006**

**Institutional Control Boundaries at NPL sites:**

NPL IC

Boundaries of Institutional Control areas at sites on the United States Environmental Protection Agency (EPA)'s National Priorities List, or Proposed or Deleted, made available by the EPA's Shared Enterprise Geodata and Services (SEGS). United States Environmental Protection Agency (EPA)'s National Priorities List of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. Institutional controls are non-engineered instruments such as administrative and legal controls that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy.

**Government Publication Date: Nov 3, 2022**

**Emergency Response Notification System:**

ERNS 1982 TO 1986

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

**Government Publication Date: 1982-1986**

**Emergency Response Notification System:**

ERNS 1987 TO 1989

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

**Government Publication Date: 1987-1989**

**Emergency Response Notification System:**

ERNS

Database of oil and hazardous substances spill reports made available by the United States Coast Guard National Response Center (NRC). The NRC fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. These data contain initial incident data that has not been validated or investigated by a federal/state response agency.

**Government Publication Date: Nov 6, 2022**

**The Assessment, Cleanup and Redevelopment Exchange System (ACRES) Brownfield Database:**

FED BROWNFIELDS

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties protects the environment, reduces blight, and takes development pressures off greenspaces and working lands. This data is provided by the United States Environmental Protection Agency (EPA) and includes Brownfield sites from the Cleanups in My Community (CIMC) web application.

**Government Publication Date: Sep 13, 2022**

**FEMA Underground Storage Tank Listing:**

FEMA UST

The Federal Emergency Management Agency (FEMA) of the Department of Homeland Security maintains a list of FEMA owned underground storage tanks.

**Government Publication Date: Dec 31, 2017**

**Facility Response Plan:**

[FRP](#)

List of facilities that have submitted Facility Response Plans (FRP) to EPA. Facilities that could reasonably be expected to cause "substantial harm" to the environment by discharging oil into or on navigable waters are required to prepare and submit Facility Response Plans (FRPs). Harm is determined based on total oil storage capacity, secondary containment and age of tanks, oil transfer activities, history of discharges, proximity to a public drinking water intake or sensitive environments.

**Government Publication Date: Dec 31, 2021**

**Delisted Facility Response Plans:**

[DELISTED FRP](#)

Facilities that once appeared in - and have since been removed from - the list of facilities that have submitted Facility Response Plans (FRP) to EPA. Facilities that could reasonably be expected to cause "substantial harm" to the environment by discharging oil into or on navigable waters are required to prepare and submit Facility Response Plans (FRPs). Harm is determined based on total oil storage capacity, secondary containment and age of tanks, oil transfer activities, history of discharges, proximity to a public drinking water intake or sensitive environments.

**Government Publication Date: Dec 31, 2021**

**Historical Gas Stations:**

[HIST GAS STATIONS](#)

This historic directory of service stations is provided by the Cities Service Company. The directory includes Cities Service filling stations that were located throughout the United States in 1930.

**Government Publication Date: Jul 1, 1930**

**Petroleum Refineries:**

[REFN](#)

List of petroleum refineries from the U.S. Energy Information Administration (EIA) Refinery Capacity Report. Includes operating and idle petroleum refineries (including new refineries under construction) and refineries shut down during the previous year located in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, Guam, and other U.S. possessions. Survey locations adjusted using public data.

**Government Publication Date: Aug 30, 2022**

**Petroleum Product and Crude Oil Rail Terminals:**

[BULK TERMINAL](#)

List of petroleum product and crude oil rail terminals made available by the U.S. Energy Information Administration (EIA). Includes operable bulk petroleum product terminals located in the 50 States and the District of Columbia with a total bulk shell storage capacity of 50,000 barrels or more, and/or the ability to receive volumes from tanker, barge, or pipeline; also rail terminals handling the loading and unloading of crude oil that were active between 2017 and 2018. Petroleum product terminals comes from the EIA-815 Bulk Terminal and Blender Report, which includes working, shell in operation, and shell idle for several major product groupings. Survey locations adjusted using public data.

**Government Publication Date: Jun 29, 2022**

**LIEN on Property:**

[SEMS LIEN](#)

The U.S. Environmental Protection Agency's (EPA) Superfund Enterprise Management System (SEMS) provides Lien details on applicable properties, such as the Superfund lien on property activity, the lien property information, and the parties associated with the lien.

**Government Publication Date: Jan 25, 2023**

**Superfund Decision Documents:**

[SUPERFUND ROD](#)

This database contains a list of decision documents for Superfund sites. Decision documents serve to provide the reasoning for the choice of (or) changes to a Superfund Site cleanup plan. The decision documents include completed Records of Decision (ROD), ROD Amendments, Explanations of Significant Differences (ESD) for active and archived sites stored in the Superfund Enterprise Management System (SEMS), along with other associated memos and files. This information is maintained and made available by the U.S. Environmental Protection Agency.

**Government Publication Date: Dec 22, 2022**

**State**

**Brownfield Redevelopment Program:**

[BROWNFIELDS](#)

A list of sites in the Brownfield Redevelopment Program. This list is made available by the Kentucky Energy and Environment Cabinet (EEC).

**Government Publication Date: Nov 17, 2022**

**State Leads Priority List:**

[SHWS](#)

State Leads Priority List that contains a listing of State Hazardous Waste sites. This list is maintained by The Kentucky Department of Environmental Protection (DEP). This database is state equivalent CERCLIS.

**Government Publication Date: Mar 2, 2023**

**Delisted State Leads Priority List:**

[DELISTED SHWS](#)

This database contains a list of closed State Hazardous Waste sites that were removed from the Kentucky Department of Environmental Protection (DEP).

**Government Publication Date: Mar 2, 2023**

**Solid Waste Facilities and Landfills:**

[SWF/LF](#)

A list of Solid Waste Facilities (SWF) and Landfills (LF) made available by the Kentucky Department of Environmental Protection (DEP). This list includes registered contained landfills, construction/demolition debris landfills, residual landfills and special waste landfills.

**Government Publication Date: Jan 4, 2023**

**Historic Landfills:**

[HIST LANDFILL](#)

According to the Kentucky Department of Environmental Protection (DEP), before solid waste management was regulated in Kentucky, most towns or cities had a common location where household waste and a vast array of other materials were disposed. These "old town dumps" were the de facto landfill for the area, and were rarely operated in a manner consistent with current standards. In most cases they were not properly capped to prevent migration of contaminated leachate and other pollutants. Division records indicate more than 600 of these sites are scattered across the state. The DEP's Solid Waste Branch Closure Section addresses proper closure and remediation of these historic sites. Closure/remediation work is presently ongoing at several sites across the state.

**Government Publication Date: Mar 24, 2014**

**SB193 Branch Site Inventory List:**

[SB193](#)

This list is comprised of sites that have performed permanent closure activities at regulated underground storage tank facilities and have known soil and/or groundwater contamination. Historical listing made available by the underground storage tank branch in the Department of Environmental Protection (DEP) of Kentucky State.

**Government Publication Date: Apr 30, 1985**

**Ranking List for UST Facilities:**

[PSTEAF](#)

A list of UST facilities under site investigation which are eligible to receive reimbursement from Financial Responsibility Account (FRA) and Petroleum Storage Tank Account (PSTA) of the Petroleum Storage Tank Environmental Assurance Fund (PSTEAF). Reimbursements from the FRA and PSTA are determined by this ranking system. This list is maintained by the Kentucky Department of Environmental Protection (DEP).

**Government Publication Date: Mar 1, 2023**

**Underground Storage Tanks:**

[UST](#)

A list of registered Underground Storage Tanks (USTs) maintained by the Underground Storage Tank Branch in the Kentucky Department of Environmental Protection (DEP).

**Government Publication Date: Mar 1, 2023**

**Delisted Storage Tank:**

[DELISTED STORAGE TANK](#)

This database contains a list of closed storage tank sites that were removed from the Underground Storage Tank Branch in the Kentucky Department of Environmental Protection (DEP).

**Government Publication Date: Mar 1, 2023**

**Sites with Engineering Controls:**

[ENG](#)

This list of sites with engineering controls in place is made available by the Kentucky Department of Environmental Protection (DEP). The site listing is compiled from applicable DEP FOIA files, which includes sites from the Institutional Controls and State Lead listings with engineering controls in place.

**Government Publication Date: Mar 2, 2023**

**Sites with Institutional Controls:**

[INST](#)

Sites with institutional controls in place, provided by the Kentucky Department of Environmental Protection (DEP). Institutional controls are put in place to regulate activities on the property, such as a requirement that the property never be used for residential development or to prohibit the use of groundwater from below the property.

**Government Publication Date: Mar 2, 2023**

**Voluntary Cleanup Program Sites:**

[VCP](#)

The Kentucky Department of Environmental Protection (DEP) maintains an inventory of sites that are in the Voluntary Cleanup Program.

**Government Publication Date: Apr 13, 2022**

**Kentucky Brownfield Inventory:**

[BROWNFIELD INV](#)

Kentucky Brownfield Inventory consists primarily of properties that are receiving, or have received, assessments and/or cleanups under federal brownfield funding to states or local government entities. This list is managed by the Kentucky Department for Environmental Protection (DEP).

**Government Publication Date: Oct 21, 2022**

## **Tribal**

### **Leaking Underground Storage Tanks (LUSTs) on Indian Lands:**

[INDIAN LUST](#)

This list of leaking underground storage tanks (LUSTs) on Tribal/Indian Lands in Region 4, which includes Kentucky, is made available by the United States Environmental Protection Agency (EPA). There are no federally recognized Tribes in Kentucky, according to the U.S. Department of Interior, Bureau of Indian Affairs.

**Government Publication Date: Oct 14, 2017**

### **Underground Storage Tanks (USTs) on Indian Lands:**

[INDIAN UST](#)

This list of underground storage tanks (USTs) on Tribal/Indian Lands in Region 4, which includes Kentucky, is made available by the United States Environmental Protection Agency (EPA). There are no federally recognized Tribes in Kentucky, according to the U.S. Department of Interior, Bureau of Indian Affairs.

**Government Publication Date: Oct 14, 2017**

### **Delisted Tribal Leaking Storage Tanks:**

[DELISTED INDIAN LST](#)

Leaking Underground Storage Tank (LUST) facilities which once appeared on - and have since been removed from - the Regional Tribal/Indian LUST lists made available by the United States Environmental Protection Agency (EPA).

**Government Publication Date: Nov 23, 2022**

### **Delisted Tribal Underground Storage Tanks:**

[DELISTED INDIAN UST](#)

Underground Storage Tank (UST) facilities which once appeared on - and have since been removed from - the Regional Tribal/Indian UST lists made available by the United States Environmental Protection Agency (EPA).

**Government Publication Date: Nov 23, 2022**

## **County**

**No County standard environmental record sources available for this State.**

## **Additional Environmental Record Sources**

### **Federal**

#### **Facility Registry Service/Facility Index:**

[FINDS/FRS](#)

The Facility Registry Service (FRS) is a centrally managed database that identifies facilities, sites, or places subject to environmental regulations or of environmental interest. FRS creates high-quality, accurate, and authoritative facility identification records through rigorous verification and management procedures that incorporate information from program national systems, state master facility records, and data collected from EPA's Central Data Exchange registrations and data management personnel. This list is made available by the Environmental Protection Agency (US EPA).

**Government Publication Date: Aug 18, 2022**

#### **Toxics Release Inventory (TRI) Program:**

[TRIS](#)

The EPA's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of over 650 toxic chemicals from thousands of U. S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment. One of TRI's primary purposes is to inform communities about toxic chemical releases to the environment.

**Government Publication Date: Aug 24, 2021**

#### **PFOA/PFOS Contaminated Sites:**

[PFAS NPL](#)

List of National Priorities List (NPL) and related Superfund Alternative Agreement (SAA) sites where PFOA or PFOS contaminants have been found in water and/or soil. The site listing is provided by the Federal Environmental Protection Agency (EPA).

**Government Publication Date: Dec 28, 2022**



**Federal Agency Locations with Known or Suspected PFAS Detections:**

[PFAS FED SITES](#)

List of Federal agency locations with known or suspected detections of Per- and Polyfluoroalkyl Substances (PFAS), made available by the U.S. Environmental Protection Agency (EPA) in their PFAS Analytic Tools data. EPA outlines that these data are gathered from several federal entities, such as the Federal Superfund program, Department of Defense (DOD), National Aeronautics and Space Administration, Department of Transportation, and Department of Energy. Sites on this list do not necessarily reflect the source/s of contamination and detections do not indicate level of risk or human exposure at the site. Agricultural notifications in this data are limited to DOD sites only. At this time, the EPA is aware that this list is not comprehensive of all Federal agencies.

**Government Publication Date: Jun 30, 2022**

**SSEHRI PFAS Contamination Sites:**

[PFAS SSEHRI](#)

This PFAS Contamination Site Tracker database is compiled by the Social Science Environmental Health Research Institute (SSEHRI) at Northeastern University. According to the SSEHRI, the database records qualitative and quantitative data from each known site of PFAS contamination, including timeline of discovery, sources, levels, health impacts, community response, and government response. The goal of this database is to compile information and support public understanding of the rapidly unfolding issue of PFAS contamination. All data presented was extracted from government websites, news articles, or publicly available documents, and this is cited in the tracker. Disclaimer: The source conveys this database undergoes regular updates as new information becomes available, some sites may be missing and/or contain information that is incorrect or outdated, as well as their information represents all contamination sites SSEHRI is aware of, not all possible contamination sites. This data is not intended to be used for legal purposes. Limited location details are available with this data. Access the following for the most current informations <https://pfasproject.com/pfas-contamination-site-tracker/>

**Government Publication Date: Dec 12, 2019**

**National Response Center PFAS Spills:**

[ERNS PFAS](#)

National Response Center (NRC) calls from 1990 to the most recent complete calendar year where there is indication of Aqueous Film Forming Foam (AFFF) usage. NRC calls may reference AFFF usage in the "Material Involved" or "Incident Description" fields. Data made available by the US Environmental Protection Agency (EPA). Disclaimer: dataset may include initial or misidentified incident data not yet validated or investigated by a federal/state response agency.

**Government Publication Date: Feb 23, 2022**

**PFAS NPDES Discharge Monitoring:**

[PFAS NPDES](#)

This list of National Pollutant Discharge Elimination System (NPDES) permitted facilities with required monitoring for Per- and Polyfluoroalkyl (PFAS) Substances is made available via the U.S. Environmental Protection Agency (EPA)'s PFAS Analytic Tools. Any point-source wastewater discharger to waters of the United States must have a NPDES permit, which defines a set of parameters for pollutants and monitoring to ensure that the discharge does not degrade water quality or impair human health. This list includes NPDES permitted facilities associated with permits that monitor for Per- and Polyfluoroalkyl Substances (PFAS), limited to the years 2007 - present. EPA further advises the following regarding these data: currently, fewer than half of states have required PFAS monitoring for at least one of their permittees, and fewer states have established PFAS effluent limits for permittees. For states that may have required monitoring, some reporting and data transfer issues may exist on a state-by-state basis.

**Government Publication Date: Feb 19, 2023**

**Perfluorinated Alkyl Substances (PFAS) from Toxic Release Inventory:**

[PFAS TRI](#)

List of Toxics Release Inventory (TRI) facilities at which the reported chemical is a Per- or polyfluorinated alkyl substance (PFAS) included in the Environmental Protection Agency (EPA)'s consolidated PFAS Master List of PFAS Substances. The EPA's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of over 650 toxic chemicals from thousands of U.S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment.

**Government Publication Date: Aug 24, 2021**

**Perfluorinated Alkyl Substances (PFAS) Water Quality:**

[PFAS WATER](#)

The Water Quality Portal (WQP) is a cooperative service sponsored by the United States Geological Survey (USGS), the Environmental Protection Agency (EPA), and the National Water Quality Monitoring Council (NWQMC). This listing includes records from the Water Quality Portal where the characteristic (environmental measurement) is in the Environmental Protection Agency (EPA)'s consolidated PFAS Master List of PFAS Substances.

**Government Publication Date: Jul 20, 2020**

**PFAS TSCA Manufacture and Import Facilities:**

[PFAS TSCA](#)

The US Environmental Protection Agency (EPA) issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) requiring facilities that manufacture or import chemical substances to report to EPA. This list is specific to TSCA Manufacture and Import Facilities with reported per- and poly-fluoroalkyl substances (PFAS). Data file made available by the EPA and includes CDR/Inventory Update Reporting data from 1998 up to 2020. EPA makes notes the following about these data: this data file includes production and importation data for chemicals identified in EPA's CompTox Chemicals Dashboard list of PFAS without explicit structures and list of PFAS structures in DSSTox. Note that some regulations have specific chemical structure requirements that define PFAS differently than the lists in EPA's CompTox Chemicals Dashboard. Reporting information on manufactured or imported chemical substance amounts should not be compared between facilities, as some companies claim Chemical Data Reporting Rule data fields for PFAS information as Confidential Business Information.

**Hazardous Materials Information Reporting System:**

HMIRS

US DOT - Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA) Incidents Reports Database taken from Hazmat Intelligence Portal, U.S. Department of Transportation.

Government Publication Date: Sep 1, 2020

**National Clandestine Drug Labs:**

NCDL

The U.S. Department of Justice ("the Department"), Drug Enforcement Administration (DEA), provides this data as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy.

Government Publication Date: Aug 30, 2022

**Toxic Substances Control Act:**

TSCA

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The CDR enables EPA to collect and publish information on the manufacturing, processing, and use of commercial chemical substances and mixtures (referred to hereafter as chemical substances) on the TSCA Chemical Substance Inventory (TSCA Inventory). This includes current information on chemical substance production volumes, manufacturing sites, and how the chemical substances are used. This information helps the Agency determine whether people or the environment are potentially exposed to reported chemical substances. EPA publishes submitted CDR data that is not Confidential Business Information (CBI).

Government Publication Date: Apr 11, 2019

**Hist TSCA:**

HIST TSCA

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The 2006 IUR data summary report includes information about chemicals manufactured or imported in quantities of 25,000 pounds or more at a single site during calendar year 2005. In addition to the basic manufacturing information collected in previous reporting cycles, the 2006 cycle is the first time EPA collected information to characterize exposure during manufacturing, processing and use of organic chemicals. The 2006 cycle also is the first time manufacturers of inorganic chemicals were required to report basic manufacturing information.

Government Publication Date: Dec 31, 2006

**FTTS Administrative Case Listing:**

FTTS ADMIN

An administrative case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

**FTTS Inspection Case Listing:**

FTTS INSP

An inspection case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

**Potentially Responsible Parties List:**

PRP

Early in the site cleanup process, the U.S. Environmental Protection Agency (EPA) conducts a search to find the Potentially Responsible Parties (PRPs). The EPA looks for evidence to determine liability by matching wastes found at the site with parties that may have contributed wastes to the site. This listing contains PRPs, Noticed Parties, at sites in the EPA's Superfund Enterprise Management System (SEMS).

Government Publication Date: Jan 25, 2023

**State Coalition for Remediation of Drycleaners Listing:**

SCRD DRYCLEANER

The State Coalition for Remediation of Drycleaners (SCRD) was established in 1998, with support from the U.S. Environmental Protection Agency (EPA) Office of Superfund Remediation and Technology Innovation. Coalition members are states with mandated programs and funding for drycleaner site remediation. Current members are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin. Since 2017, the SCRD no longer maintains this data, refer to applicable state source data where available.

Government Publication Date: Nov 08, 2017

**Integrated Compliance Information System (ICIS):**

ICIS

The U.S. Environmental Protection Agency's Enforcement and Compliance History Online system incorporates data from the Integrated Compliance Information System - National Pollutant Discharge Elimination System (ICIS-NPDES). ICIS-NPDES is an information management system maintained by the Office of Compliance to track permit compliance and enforcement status of facilities regulated by the NPDES under the Clean Water Act. This data includes permit, inspection, violation and enforcement action information for applicable ICIS records.

**Government Publication Date: Oct 15, 2022**

**Drycleaner Facilities:**

FED DRYCLEANERS

A list of drycleaner facilities from Enforcement and Compliance History Online (ECHO) data as made available by the U.S. Environmental Protection Agency (EPA), sourced from the ECHO Exporter file. The EPA tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments.

**Government Publication Date: Dec 11, 2022**

**Delisted Drycleaner Facilities:**

DELISTED FED DRY

List of sites removed from the list of Drycleaner Facilities (sites in the EPA's Integrated Compliance Information System (ICIS) with NAIC or SIC codes identifying the business as a drycleaner establishment).

**Government Publication Date: Dec 11, 2022**

**Formerly Used Defense Sites:**

FUDS

Formerly Used Defense Sites (FUDS) are properties that were formerly owned by, leased to, or otherwise possessed by and under the jurisdiction of the Secretary of Defense prior to October 1986, where the Department of Defense (DOD) is responsible for an environmental restoration. The FUDS Annual Report to Congress (ARC) is published by the U.S. Army Corps of Engineers (USACE). This data is compiled from the USACE's Geospatial FUDS data layers and Homeland Infrastructure Foundation-Level Data (HIFLD) FUDS dataset.

**Government Publication Date: Jul 12, 2022**

**Former Military Nike Missile Sites:**

FORMER NIKE

This information was taken from report DRXTH-AS-IA-83A016 (Historical Overview of the Nike Missile System, 12/1984) which was performed by Environmental Science and Engineering, Inc. for the U.S. Army Toxic and Hazardous Materials Agency Assessment Division. The Nike system was deployed between 1954 and the mid-1970's. Among the substances used or stored on Nike sites were liquid missile fuel (JP-4); starter fluids (UDKH, aniline, and furfuryl alcohol); oxidizer (IRFNA); hydrocarbons (motor oil, hydraulic fluid, diesel fuel, gasoline, heating oil); solvents (carbon tetrachloride, trichloroethylene, trichloroethane, stoddard solvent); and battery electrolyte. The quantities of material a disposed of and procedures for disposal are not documented in published reports. Virtually all information concerning the potential for contamination at Nike sites is confined to personnel who were assigned to Nike sites. During deactivation most hardware was shipped to depot-level supply points. There were reportedly instances where excess materials were disposed of on or near the site itself at closure. There was reportedly no routine site decontamination.

**Government Publication Date: Dec 2, 1984**

**PHMSA Pipeline Safety Flagged Incidents:**

PIPELINE INCIDENT

A list of flagged pipeline incidents made available by the U.S. Department of Transportation (US DOT) Pipeline and Hazardous Materials Safety Administration (PHMSA). PHMSA regulations require incident and accident reports for five different pipeline system types.

**Government Publication Date: Mar 31, 2021**

**Material Licensing Tracking System (MLTS):**

MLTS

A list of sites that store radioactive material subject to the Nuclear Regulatory Commission (NRC) licensing requirements. This list is maintained by the NRC. As of September 2016, the NRC no longer releases location information for sites. Site locations were last received in July 2016.

**Government Publication Date: May 11, 2021**

**Historic Material Licensing Tracking System (MLTS) sites:**

HIST MLTS

A historic list of sites that have inactive licenses and/or removed from the Material Licensing Tracking System (MLTS). In some cases, a site is removed from the MLTS when the state becomes an "Agreement State". An Agreement State is a State that has signed an agreement with the Nuclear Regulatory Commission (NRC) authorizing the State to regulate certain uses of radioactive materials within the State.

**Government Publication Date: Jan 31, 2010**

**Mines Master Index File:**

MINES

The Master Index File (MIF) is provided by the United State Department of Labor, Mine Safety and Health Administration (MSHA). This file, which was originally created in the 1970's, contained many Mine-IDs that were invalid. MSHA removes invalid IDs from the MIF upon discovery. MSHA applicable data includes the following: all Coal and Metal/Non-Metal mines under MSHA's jurisdiction since 1/1/1970; mine addresses for all mines in the database except for Abandoned mines prior to 1998 from MSHA's legacy system (addresses may or may not correspond with the physical location of the mine itself); violations that have been assessed penalties as a result of MSHA inspections beginning on 1/1/2000; and violations issued as a result of MSHA inspections conducted beginning on 1/1/2000.

**Surface Mining Control and Reclamation Act Sites:**

[SMCRA](#)

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by the Office of Surface Mining Reclamation and Enforcement (OSMRE) to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of Abandoned Mine Land (AML) impacts, as well as information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Government Publication Date: Aug 18, 2022

**Mineral Resource Data System:**

[MRDS](#)

The Mineral Resource Data System (MRDS) is a collection of reports describing metallic and nonmetallic mineral resources throughout the world. Included are deposit name, location, commodity, deposit description, geologic characteristics, production, reserves, resources, and references. This database contains the records previously provided in the Mineral Resource Data System (MRDS) of USGS and the Mineral Availability System/Mineral Industry Locator System (MAS/MILS) originated in the U.S. Bureau of Mines, which is now part of USGS. The USGS has ceased systematic updates of the MRDS database with their focus more recently on deposits of critical minerals while providing a well-documented baseline of historical mine locations from USGS topographic maps.

Government Publication Date: Mar 15, 2016

**DOE Legacy Management Sites:**

[LM SITES](#)

The U.S. Department of Energy (DOE) Office of Legacy Management (LM) currently manages radioactive and chemical waste, environmental contamination, and hazardous material at over 100 sites across the U.S. The LM manages sites with diverse regulatory drivers (statutes or programs that direct cleanup and management requirements at DOE sites) or as part of internal DOE or congressionally-recognized programs, such as but not limited to: Formerly Utilized Sites Remedial Action Program (FUSRAP), Uranium Mill Tailings Radiation Control Act (UMTRCA Title I, Title II), Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Resource Conservation and Recovery Act (RCRA), Decontamination and Decommissioning (D&D), Nuclear Waste Policy Act (NWPA). This site listing includes data exported from the DOE Office of LM's Geospatial Environmental Mapping System (GEMS). GEMS Data disclaimer: The DOE Office of LM makes no representation or warranty, expressed or implied, regarding the use, accuracy, availability, or completeness of the data presented herein.

Government Publication Date: Dec 1, 2022

**Alternative Fueling Stations:**

[ALT FUELS](#)

This list of alternative fueling stations is sourced from the Alternative Fuels Data Center (AFDC). The U.S. Department of Energy's Office of Energy Efficiency & Renewable Energy launched the AFDC in 1991 as a repository for alternative fuel vehicle performance data, which provides a wealth of information and data on alternative and renewable fuels, advanced vehicles, fuel-saving strategies, and emerging transportation technologies. The data includes Biodiesel (B20 and above), Compressed Natural Gas (CNG), Electric, Ethanol (E85), Hydrogen, Liquefied Natural Gas (LNG), Propane (LPG) fuel type locations.

Government Publication Date: Jan 3, 2023

**Superfunds Consent Decrees:**

[CONSENT DECREES](#)

This list of Superfund consent decrees is provided by the Department of Justice, Environment & Natural Resources Division (ENRD) through a Freedom of Information Act (FOIA) applicable file. This listing includes Consent Decrees for CERCLA or Superfund Sites filed and/or as proposed within the ENRD's Case Management System (CMS) since 2010. CMS may not reflect the latest developments in a case nor can the agency guarantee the accuracy of the data. ENRD Disclaimer: Congress excluded three discrete categories of law enforcement and national security records from the requirements of the FOIA; response is limited to those records that are subject to the requirements of the FOIA; however, this should not be taken as an indication that excluded records do, or do not, exist.

Government Publication Date: Jan 11, 2023

**Air Facility System:**

[AFS](#)

This EPA retired Air Facility System (AFS) dataset contains emissions, compliance, and enforcement data on stationary sources of air pollution. Regulated sources cover a wide spectrum; from large industrial facilities to relatively small operations such as dry cleaners. AFS does not contain data on facilities that are solely asbestos demolition and/or renovation contractors, or landfills. ECHO Clean Air Act data from AFS are frozen and reflect data as of October 17, 2014; the EPA retired this system for Clean Air Act stationary sources and transitioned to ICIS-Air.

Government Publication Date: Oct 17, 2014

**Registered Pesticide Establishments:**

[SSTS](#)

List of active EPA-registered foreign and domestic pesticide-producing and device-producing establishments based on data from the Section Seven Tracking System (SSTS). The Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Section 7 requires that facilities producing pesticides, active ingredients, or devices be registered. The list of establishments is made available by the EPA.

Government Publication Date: Mar 30, 2022

**Polychlorinated Biphenyl (PCB) Transformers:**

PCBT

Locations of Transformers Containing Polychlorinated Biphenyls (PCBs) registered with the United States Environmental Protection Agency. PCB transformer owners must register their transformer(s) with EPA. Although not required, PCB transformer owners who have removed and properly disposed of a registered PCB transformer may notify EPA to have their PCB transformer de-registered. Data made available by EPA.

**Government Publication Date: Oct 15, 2019**

**Polychlorinated Biphenyl (PCB) Notifiers:**

PCB

Facilities included in the national list of facilities that have notified the United States Environmental Protection Agency (EPA) of Polychlorinated Biphenyl (PCB) activities. Any company or person storing, transporting or disposing of PCBs or conducting PCB research and development must notify the EPA and receive an identification number.

**Government Publication Date: Nov 3, 2022**

**State**

**Incidents:**

SPILLS

A list of incidents reported to the Kentucky Department of Environmental Protection (Kentucky DEP) where hazardous materials may have been spilled and/or released.

**Government Publication Date: Dec 12, 2022**

**Clandestine Drug Laboratory Locations:**

CDL

The Kentucky Department of Environmental Protection's (DEP) Division of Waste Management Superfund Branch maintains this list of clandestine methamphetamine laboratory locations.

**Government Publication Date: Feb 15, 2023**

**Permitted Mine Boundaries:**

MINE

Boundaries of approved permitted mines for surface and underground mining in Kentucky. This includes western and eastern coal fields; active, inactive, and released permits. This data set is made available by the Division of Mine Permits, Kentucky Department for Natural Resources.

**Government Publication Date: Feb 21, 2023**

**Tribal**

**No Tribal additional environmental record sources available for this State.**

**County**

**No County additional environmental record sources available for this State.**

# Definitions

**Database Descriptions:** This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

**Detail Report:** This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

**Distance:** The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

**Direction:** The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

**Elevation:** The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

**Executive Summary:** This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

**Map Key:** The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

**Unplottables:** These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

# **Appendix E**

# **Physical Setting Report**





## Property Information

Order Number:	23040300681p
Date Completed:	April 4, 2023
Project Number:	237800383
Project Property:	Hummingbird Solar Project N/A Flemingsburg KY
Coordinates:	
Latitude:	38.4687183
Longitude:	-83.6461623
UTM Northing:	4259646.52765 Meters
UTM Easting:	269678.052858 Meters
UTM Zone:	UTM Zone 17S
Elevation:	888.80 ft
Slope Direction:	E

Topographic Information.....	2
Hydrologic Information.....	32
Geologic Information.....	60
Soil Information.....	74
Wells and Additional Sources.....	115
Summary.....	130
Detail Report.....	132
Radon Information.....	138
Appendix.....	139
Liability Notice.....	141

The ERIS **Physical Setting Report - PSR** provides comprehensive information about the physical setting around a site and includes a complete overview of topography and surface topology, in addition to hydrologic, geologic and soil characteristics. The location and detailed attributes of oil and gas wells, water wells, public water systems and radon are also included for review.

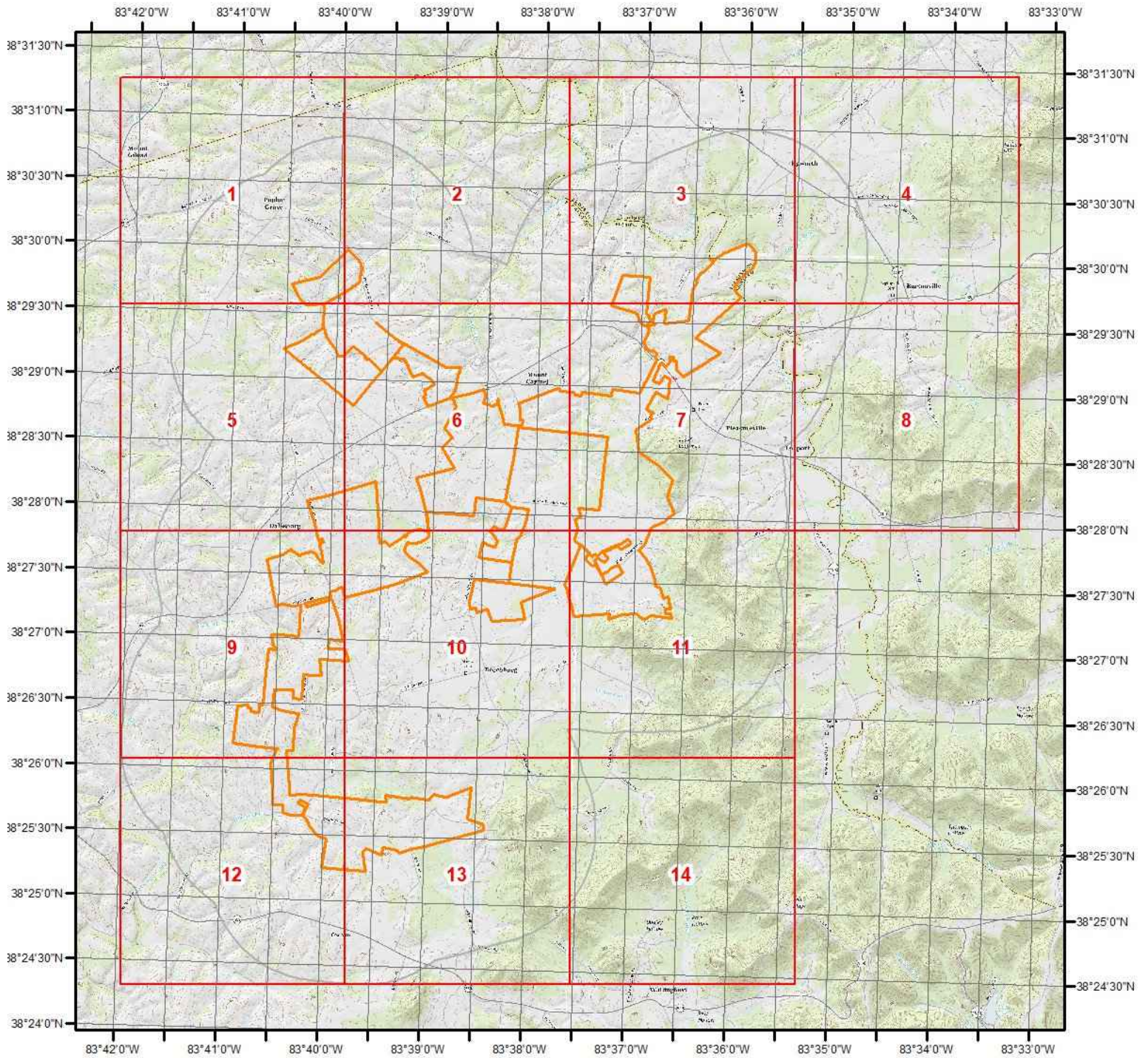
The compilation of both physical characteristics of a site and additional attribute data is useful in assessing the impact of migration of contaminants and subsequent impact on soils and groundwater.

### Disclaimer

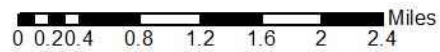
This Report does not provide a full environmental evaluation for the site or adjacent properties. Please see the terms and disclaimer at the end of the Report for greater detail.



# Topographic Information



**Current USGS Topo (2016)**

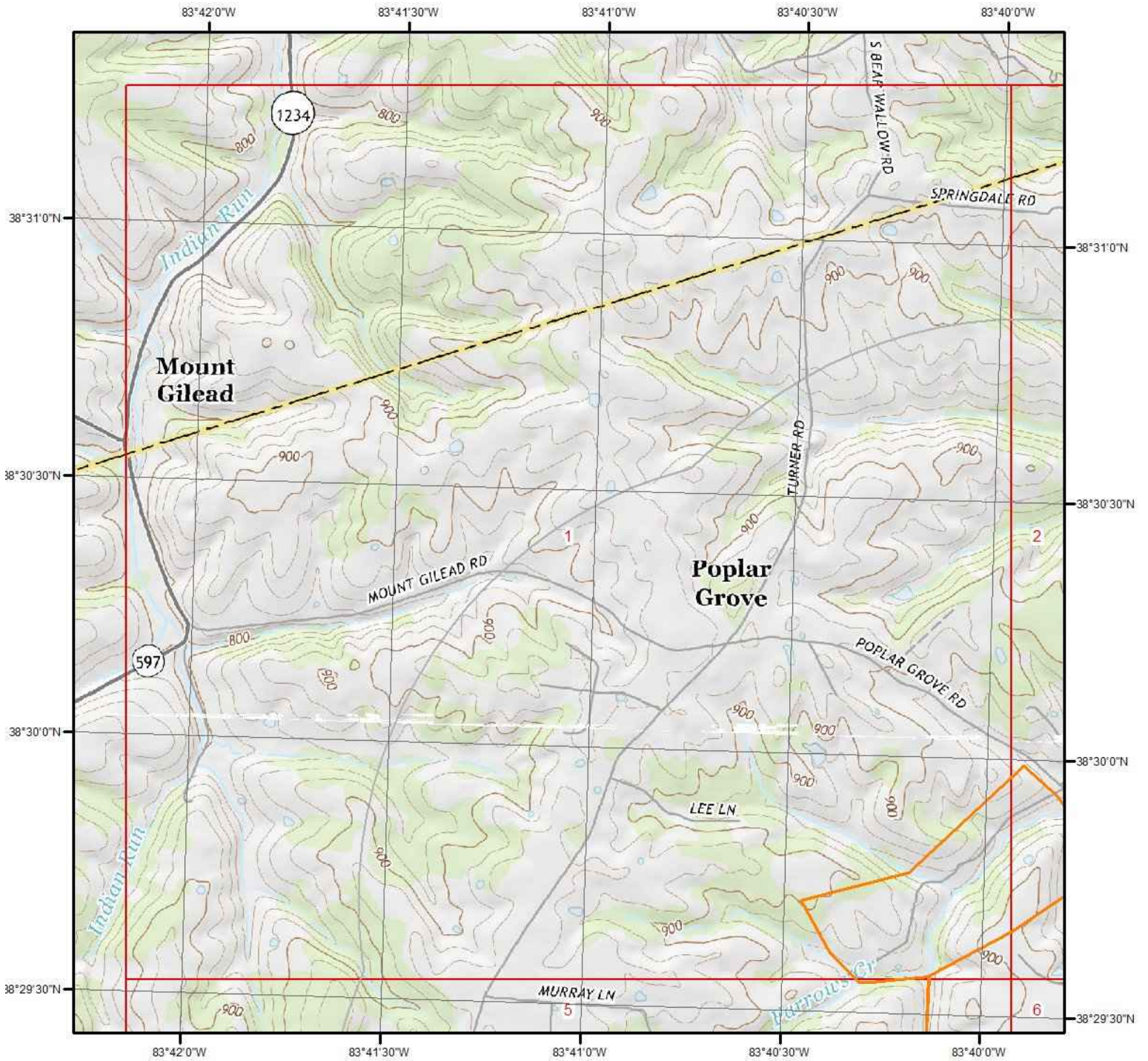


**Quadrangle(s): Burtonville,KY; Charters,KY; Cranston,KY; Elizaville,KY;  
Flemingsburg,KY; Hillsboro,KY; Mays Lick,KY; Orangeburg,KY; Plu**

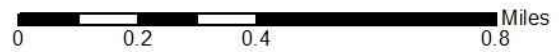


Source: USGS 7.5 Minute Topographic Map

# Topographic Information



## Current USGS Topo - Page 1

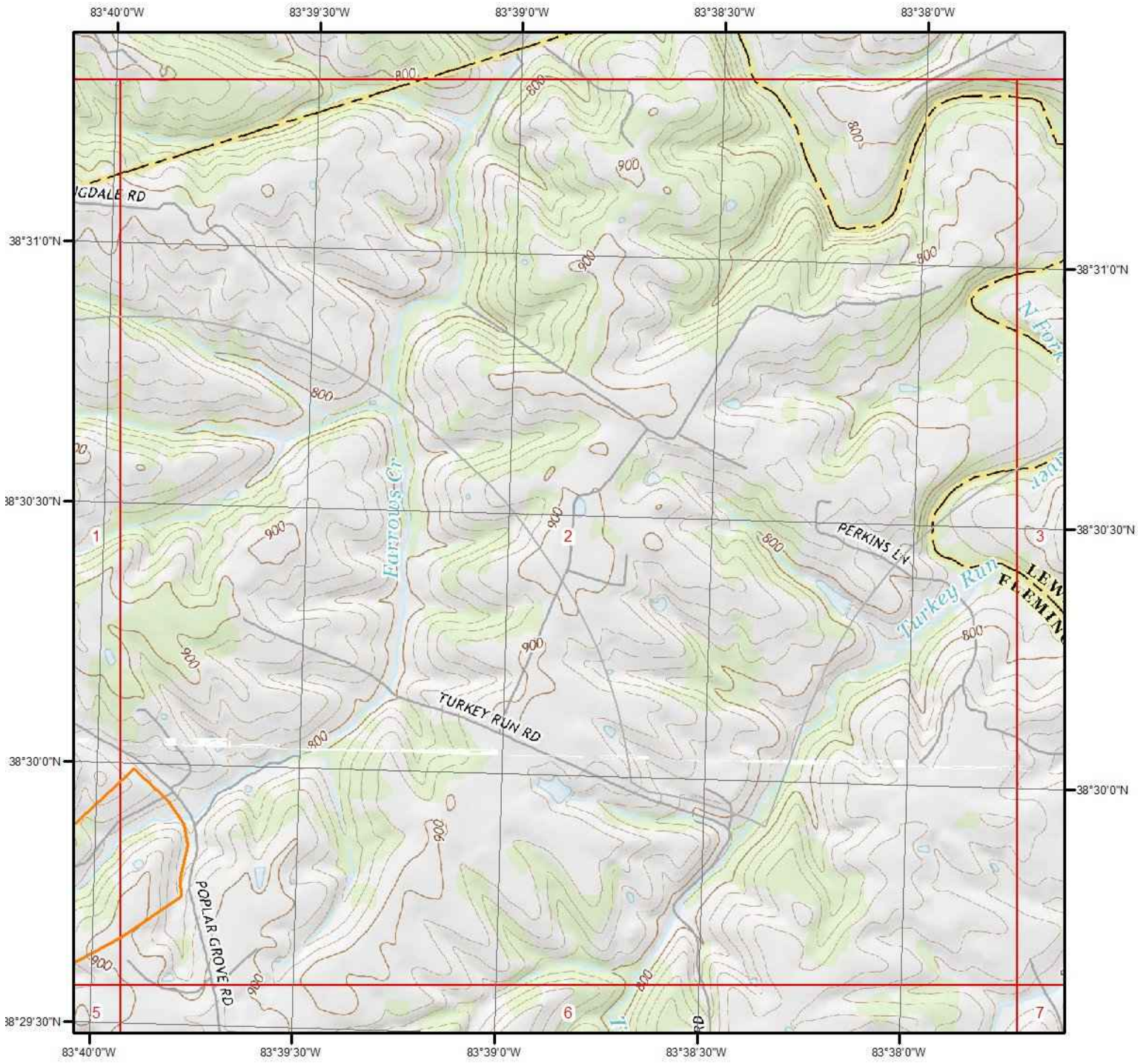


Quadrangle(s): Flemingsburg, KY; Orangeburg, KY

Source: USGS 7.5 Minute Topographic Map



# Topographic Information



## Current USGS Topo - Page 2

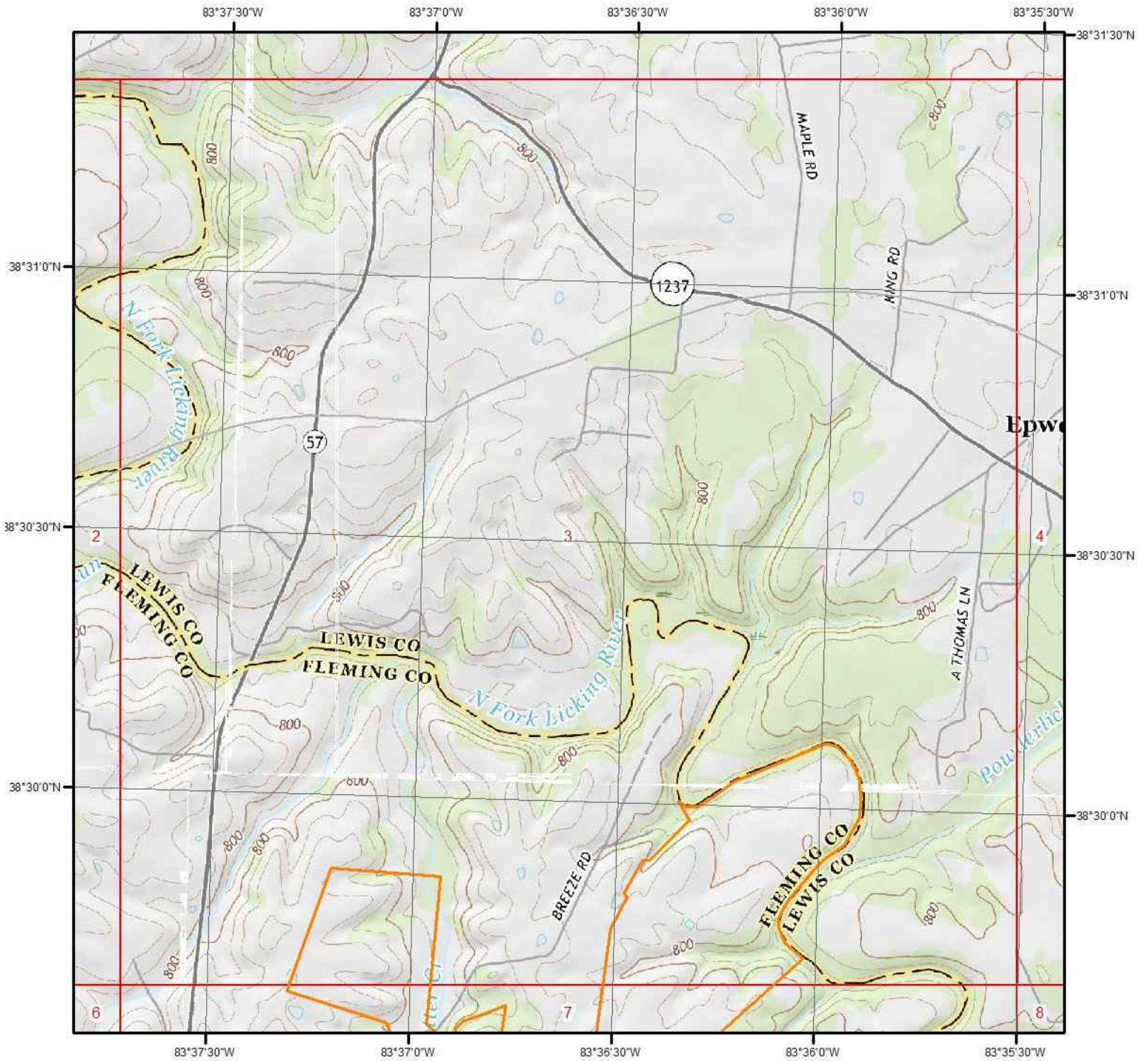


Quadrangle(s): Burtonville, KY; Flemingsburg, KY; Orangeburg, KY

Source: USGS 7.5 Minute Topographic Map



# Topographic Information



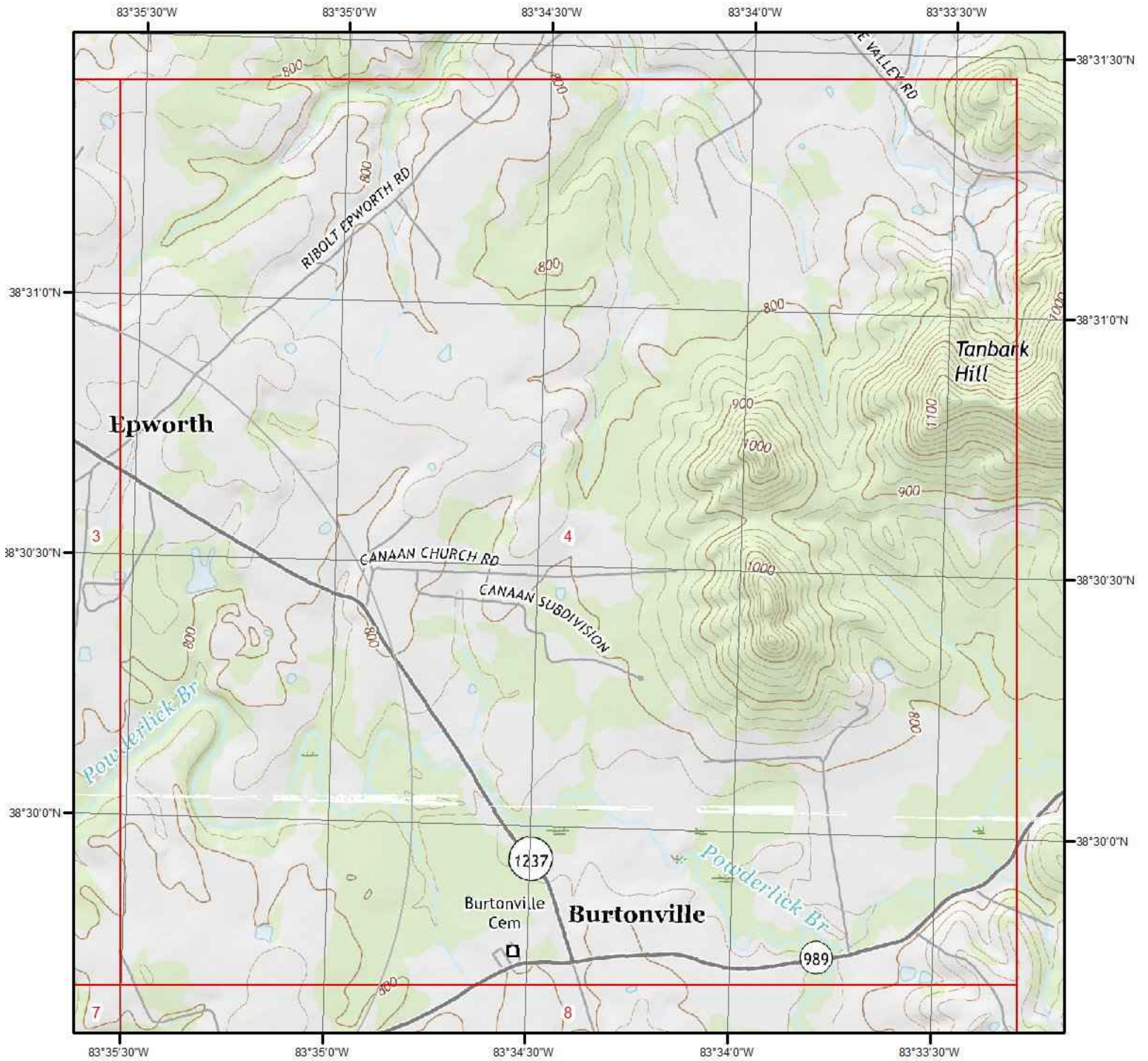
## Current USGS Topo - Page 3

Quadrangle(s): Burtonville, KY; Flemingsburg, KY; Orangeburg, KY; Tollesboro, KY

Source: USGS 7.5 Minute Topographic Map



# Topographic Information



**Current USGS Topo - Page 4**

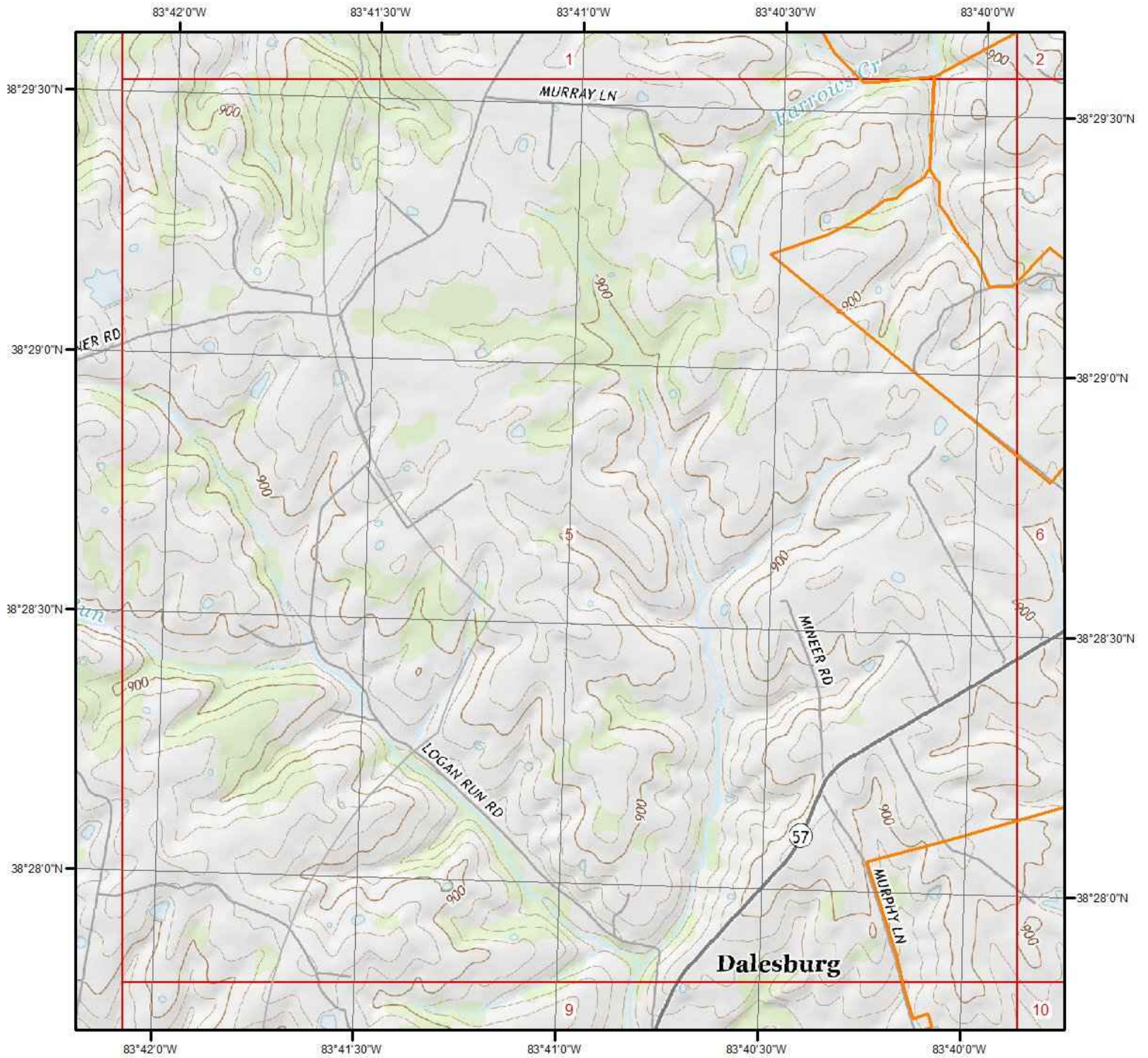


**Quadrangle(s): Burtonville, KY; Tollesboro, KY**

Source: USGS 7.5 Minute Topographic Map



# Topographic Information



**Current USGS Topo - Page 5**

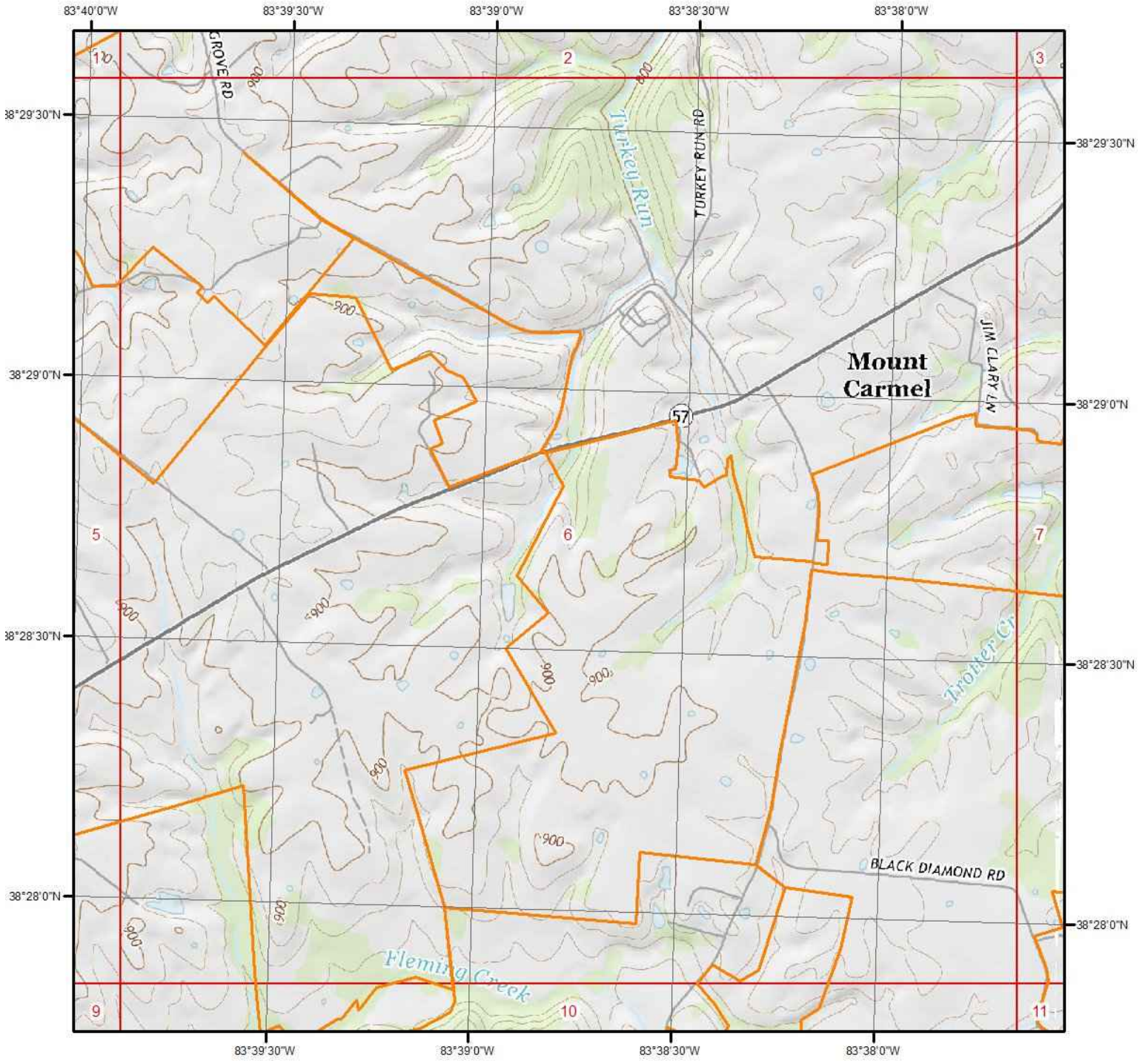


**Quadrangle(s): Flemingsburg, KY**



Source: USGS 7.5 Minute Topographic Map

# Topographic Information



## Current USGS Topo - Page 6

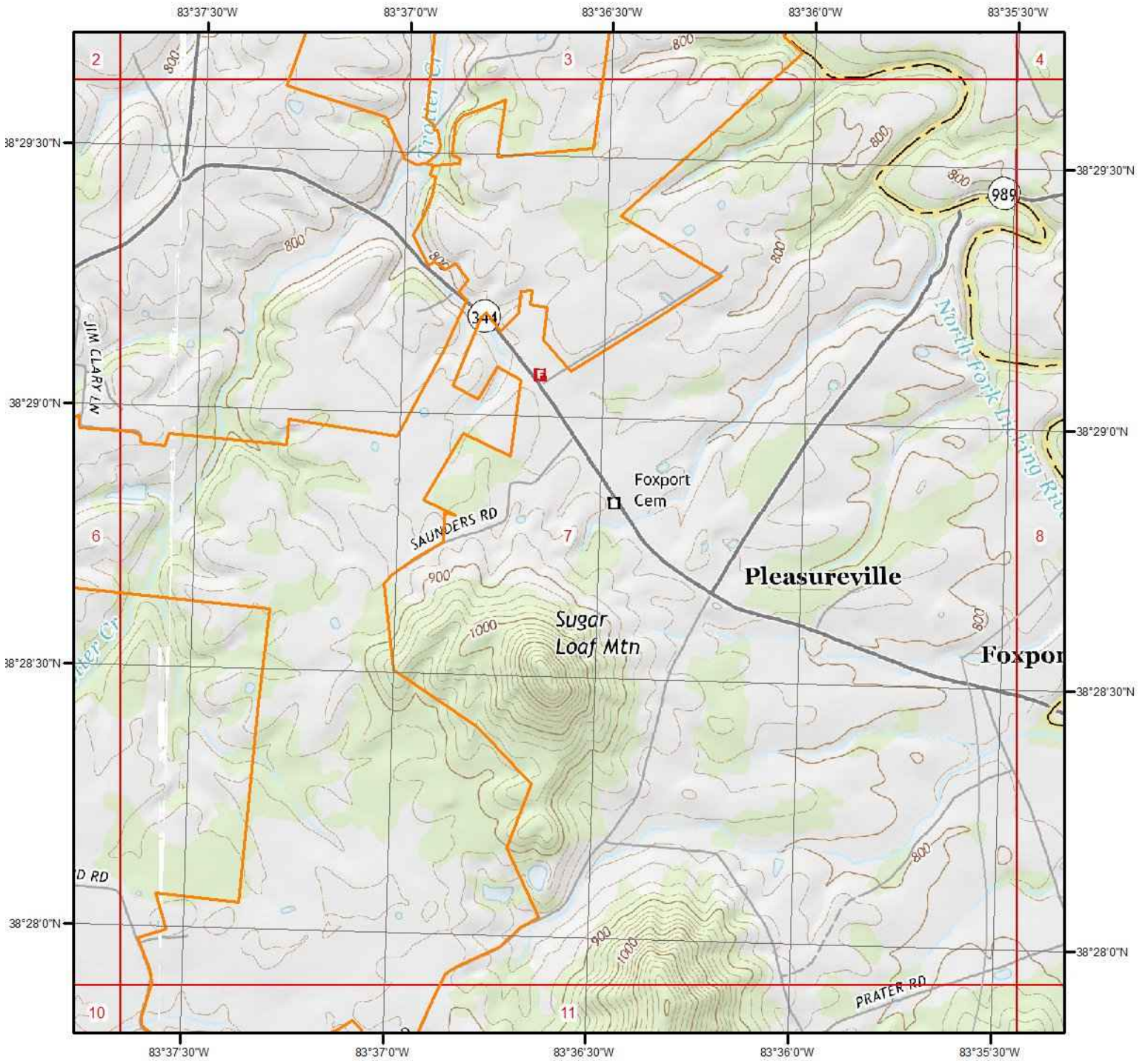


Quadrangle(s): Burtonville, KY; Flemingsburg, KY

Source: USGS 7.5 Minute Topographic Map



# Topographic Information



## Current USGS Topo - Page 7



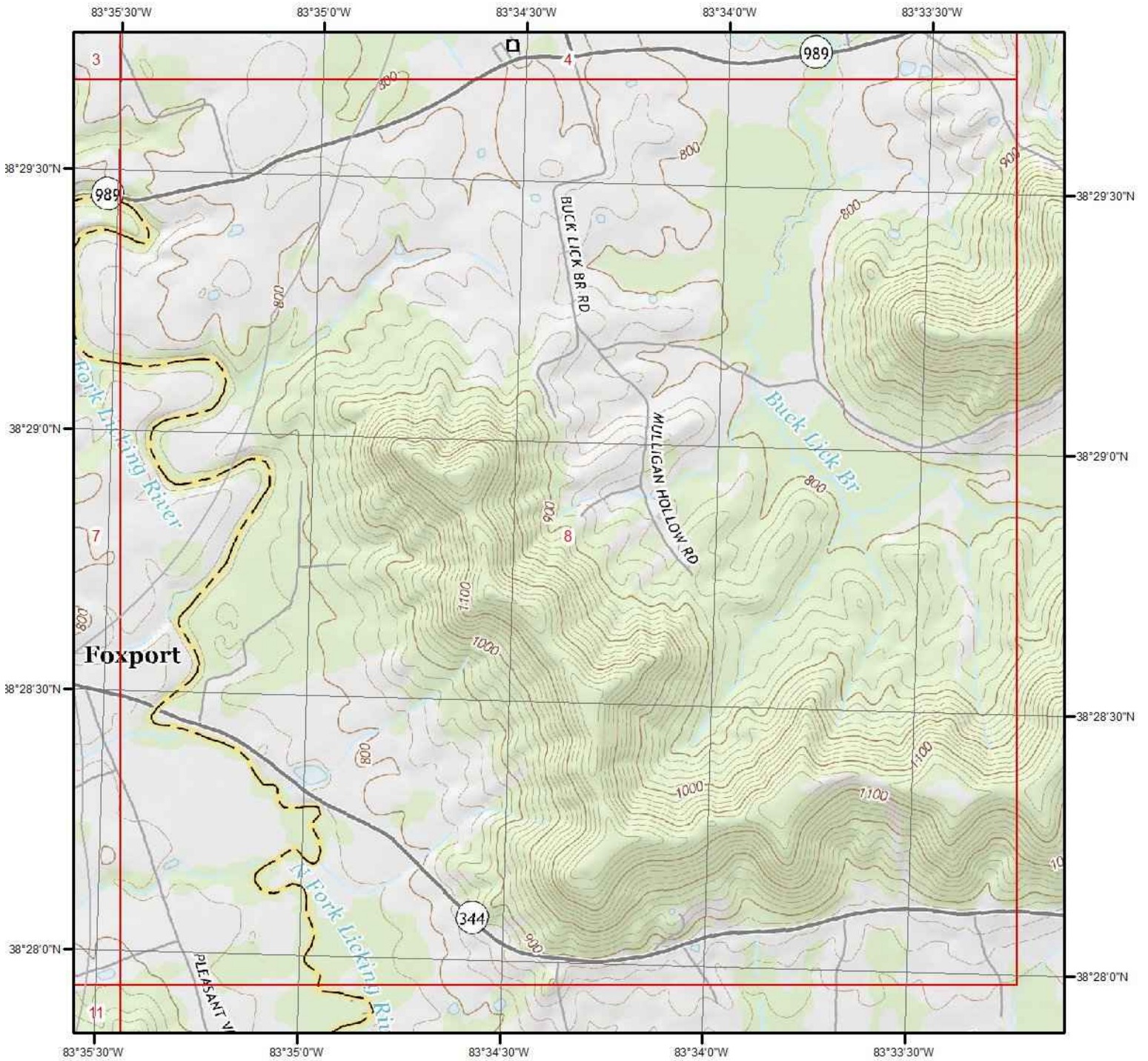
Quadrangle(s): Burtonville, KY; Flemingsburg, KY

Source: USGS 7.5 Minute Topographic Map





# Topographic Information



**Current USGS Topo - Page 8**

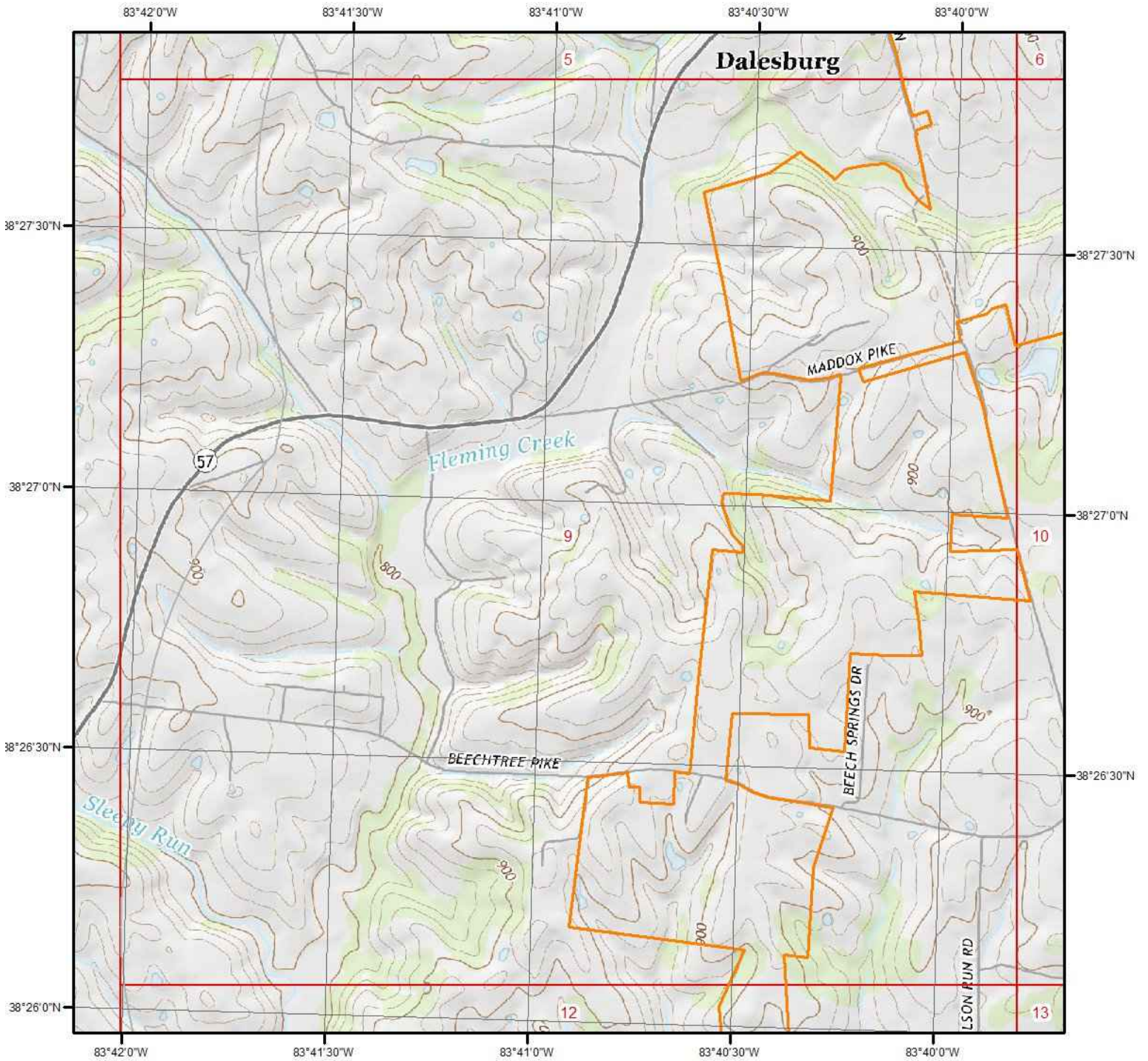


**Quadrangle(s): Burtonville, KY**

Source: USGS 7.5 Minute Topographic Map



# Topographic Information



**Current USGS Topo - Page 9**

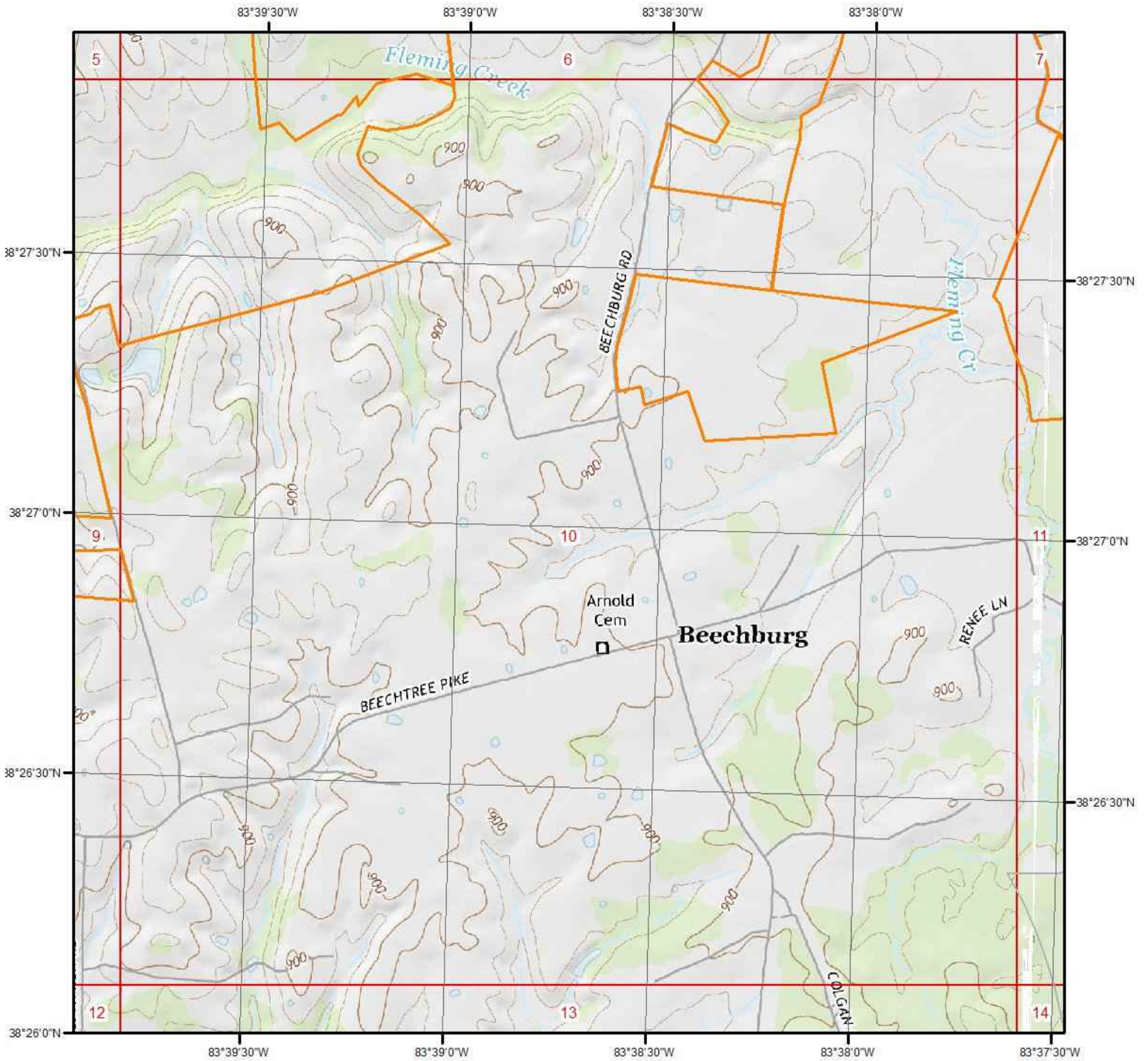


**Quadrangle(s): Flemingsburg, KY**

Source: USGS 7.5 Minute Topographic Map



# Topographic Information



**Current USGS Topo - Page 10**

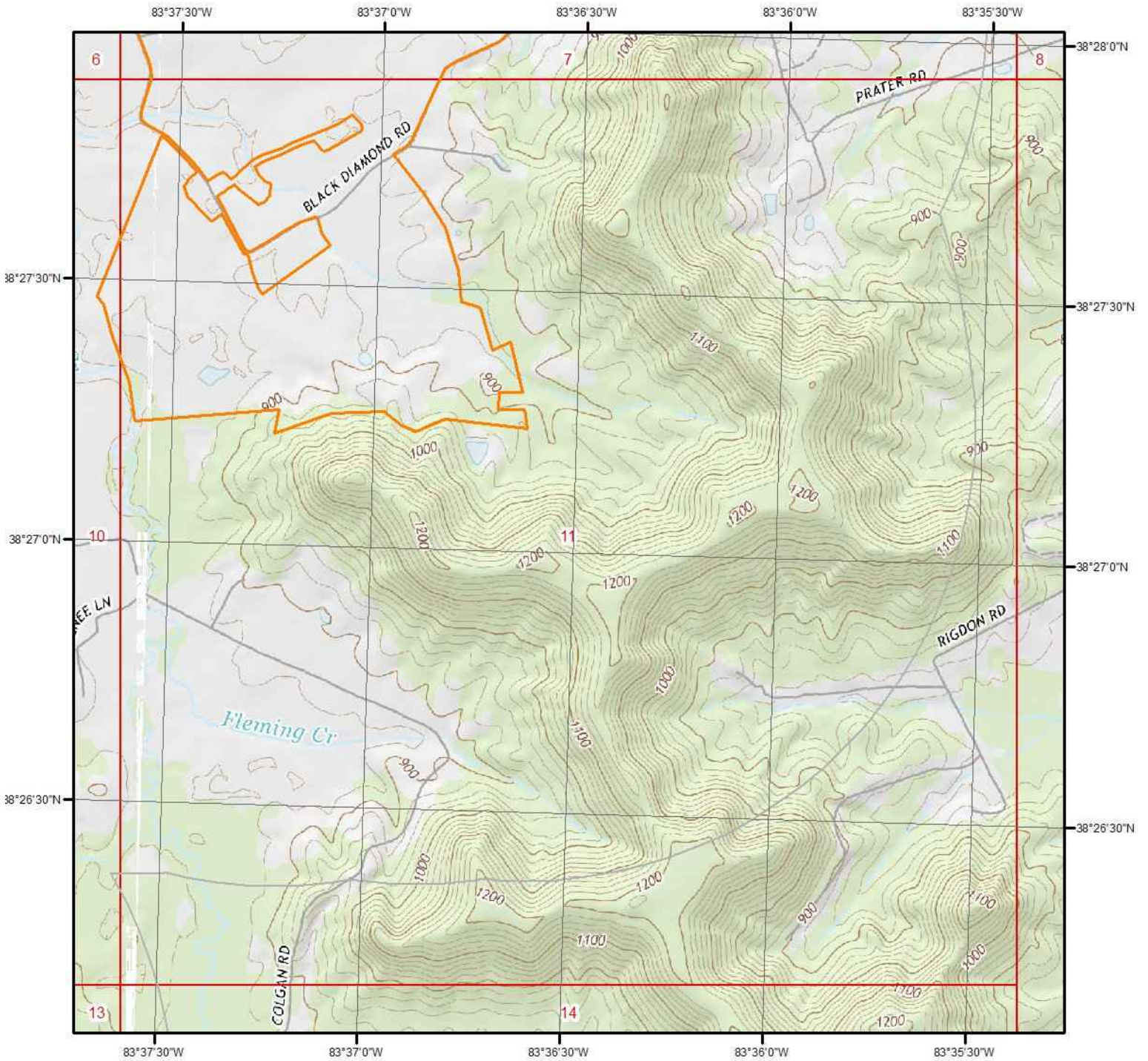


**Quadrangle(s): Burtonville, KY; Flemingsburg, KY**

Source: USGS 7.5 Minute Topographic Map



# Topographic Information



**Current USGS Topo - Page 11**



**Quadrangle(s): Burtonville, KY; Flemingsburg, KY**

Source: USGS 7.5 Minute Topographic Map



# Topographic Information



**Current USGS Topo - Page 12**

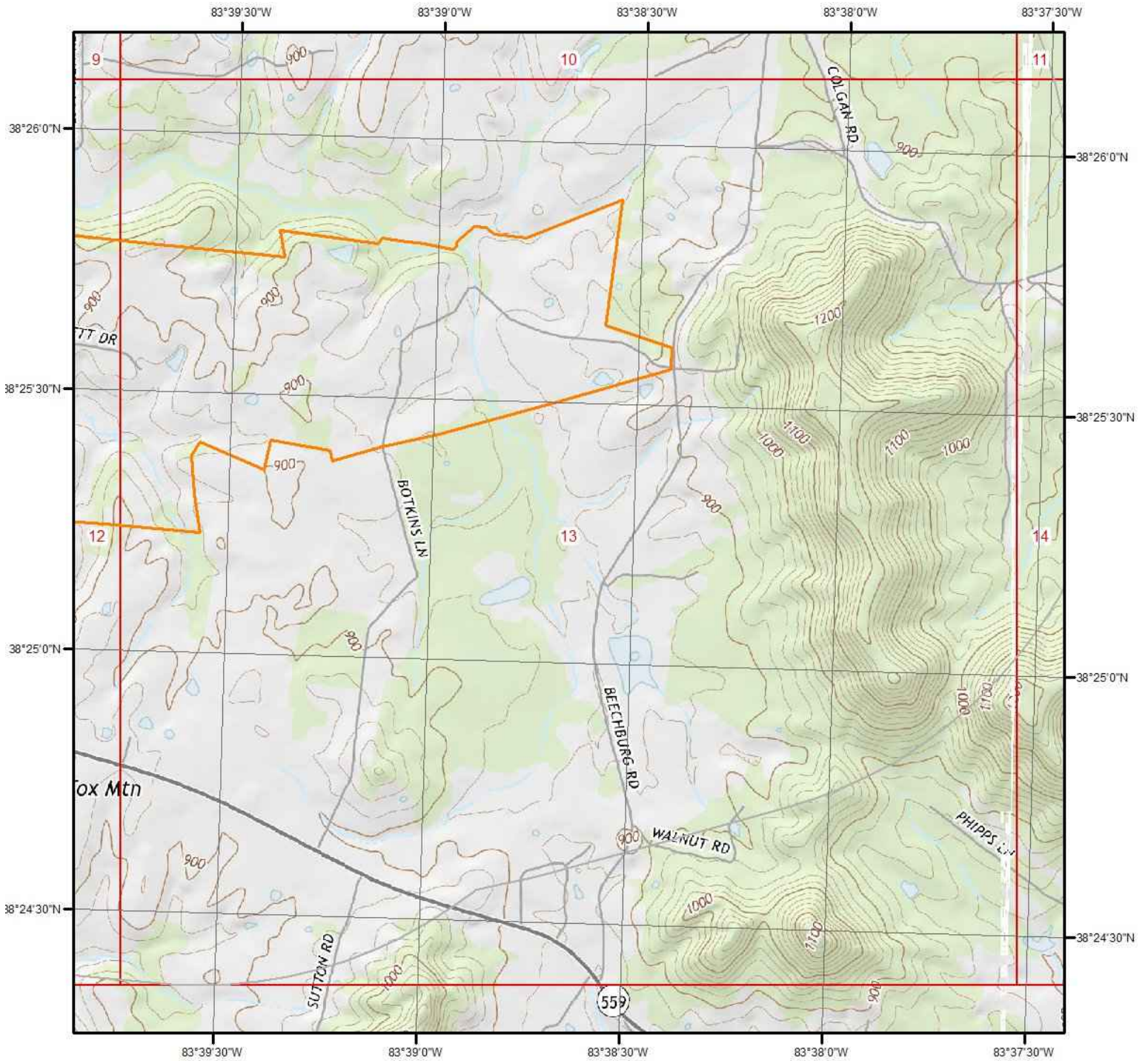


**Quadrangle(s): Flemingburg, KY**

Source: USGS 7.5 Minute Topographic Map



# Topographic Information



**Current USGS Topo - Page 13**

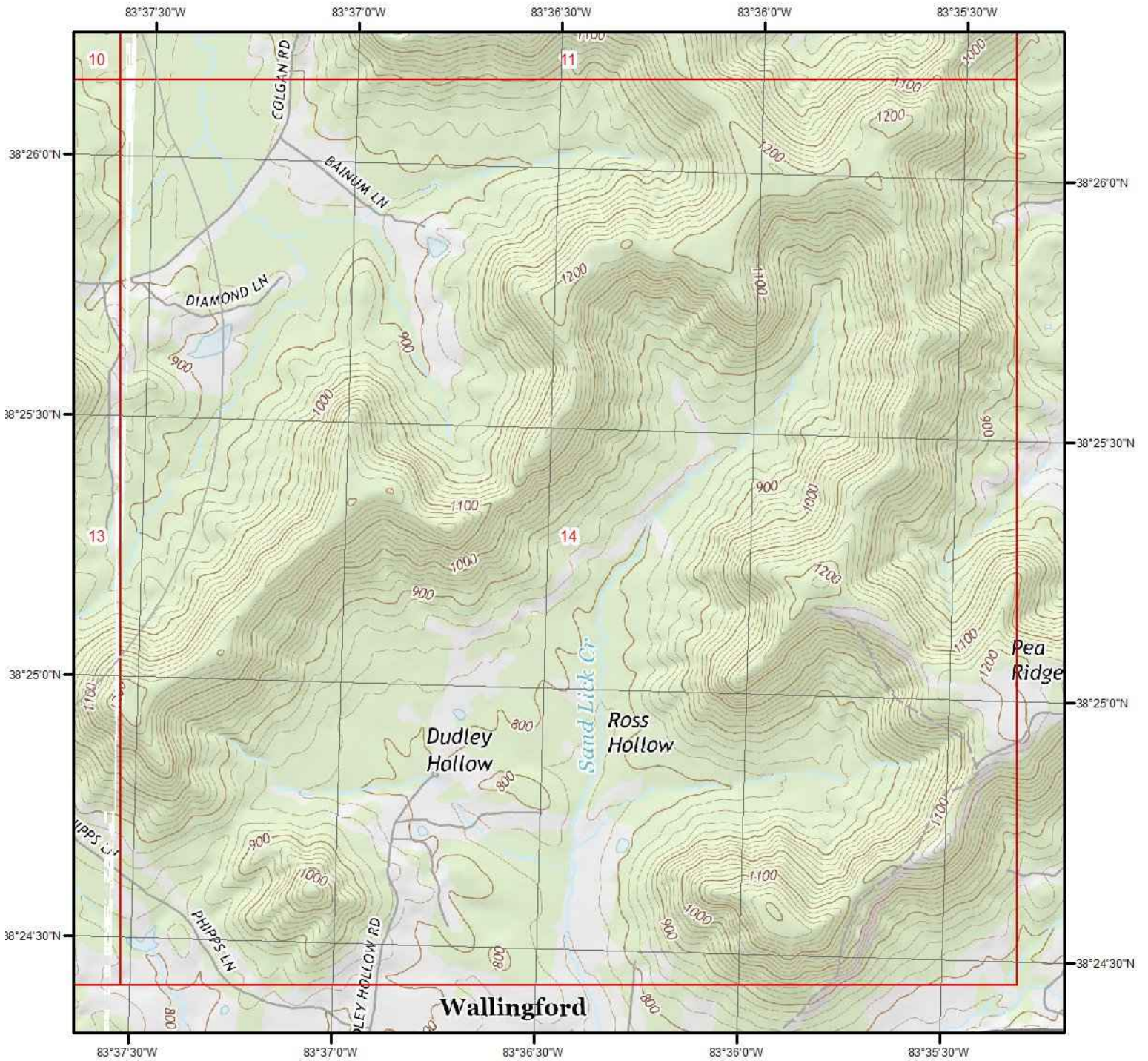


**Quadrangle(s): Burtonville, KY; Flemingsburg, KY**

Source: USGS 7.5 Minute Topographic Map



# Topographic Information



**Current USGS Topo - Page 14**



**Quadrangle(s): Burtonville, KY; Flemingsburg, KY**

Source: USGS 7.5 Minute Topographic Map

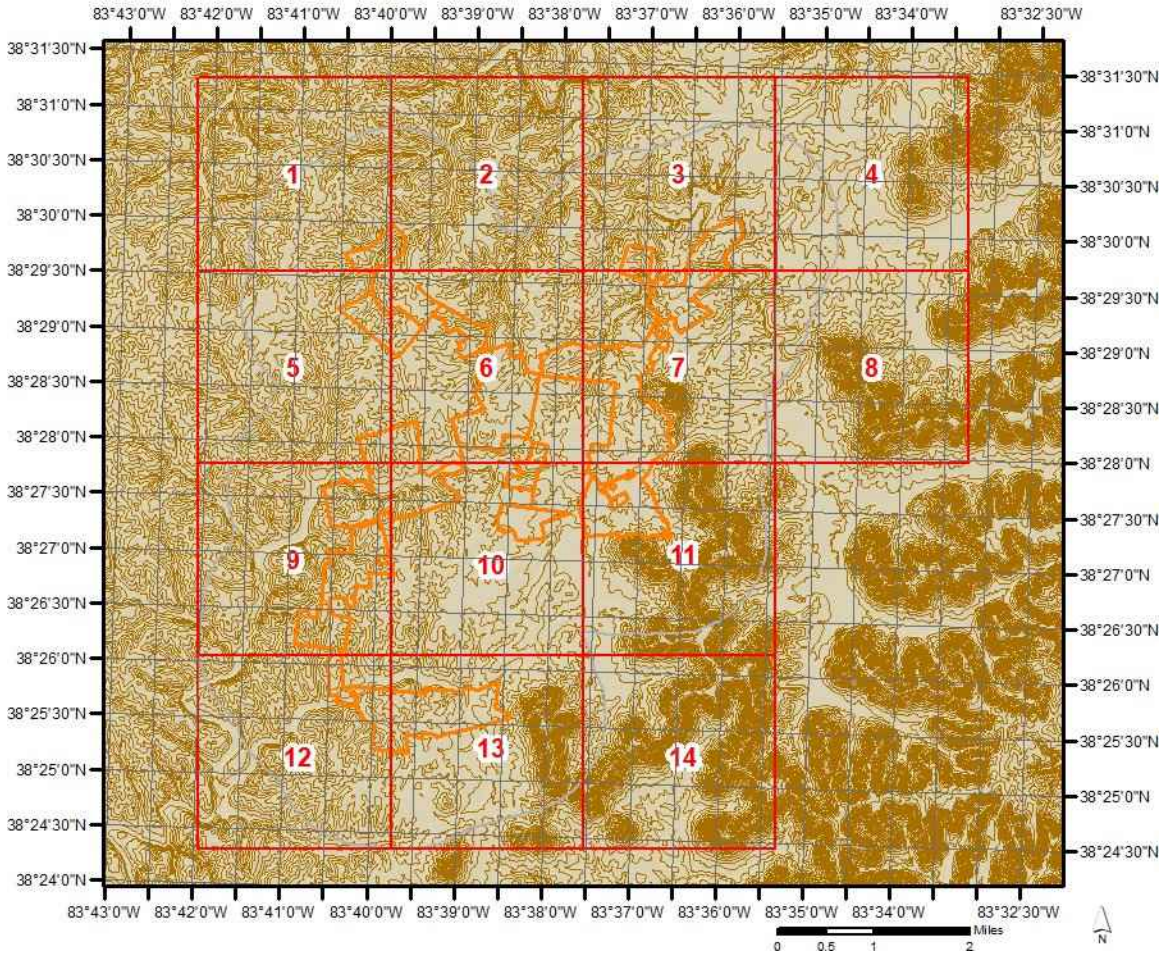


# Topographic Information

The previous topographic map(s) are created by seamlessly merging and cutting current USGS topographic data. Below are shaded relief map(s), derived from USGS elevation data to show surrounding topography in further detail.

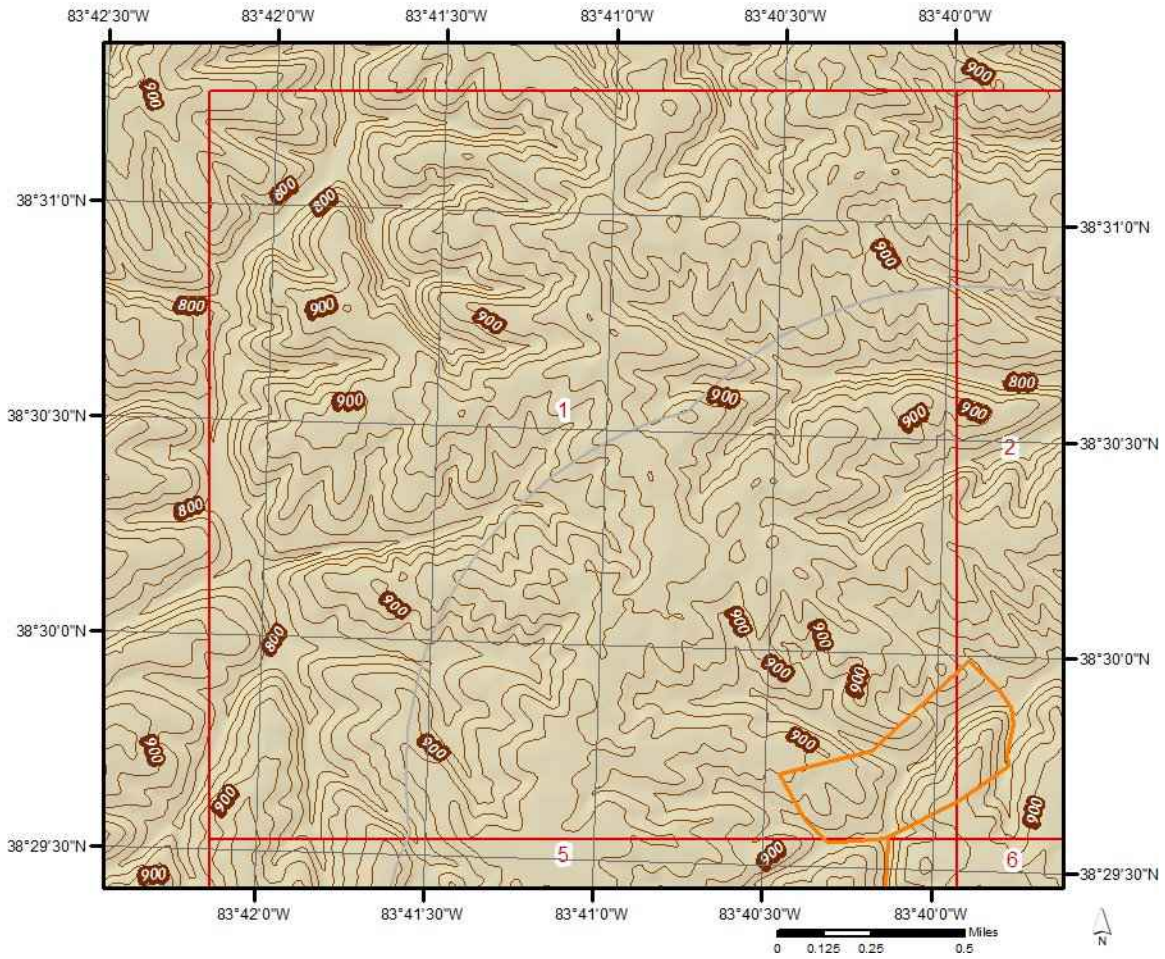
Topographic information at project property:

Elevation: 888.80 ft  
Slope Direction: E

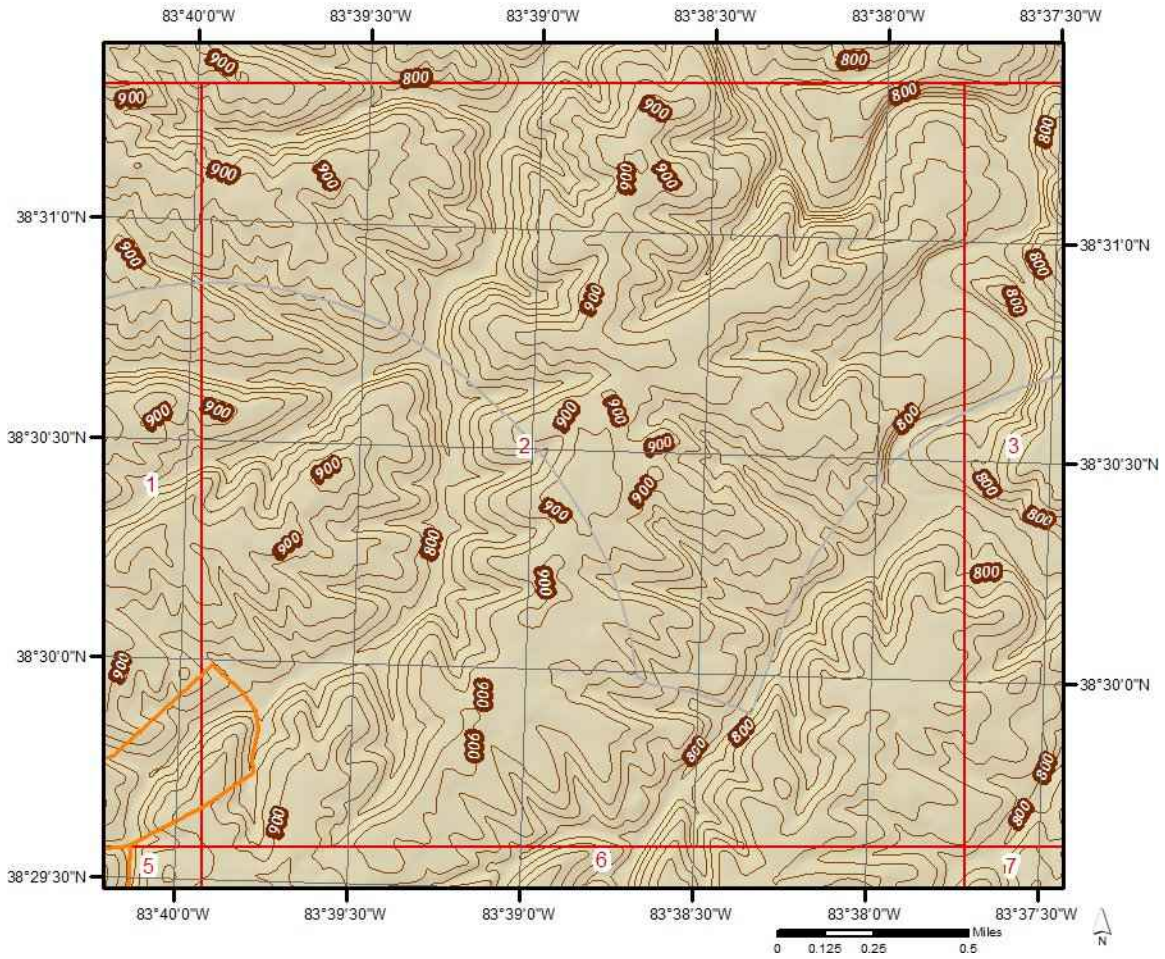




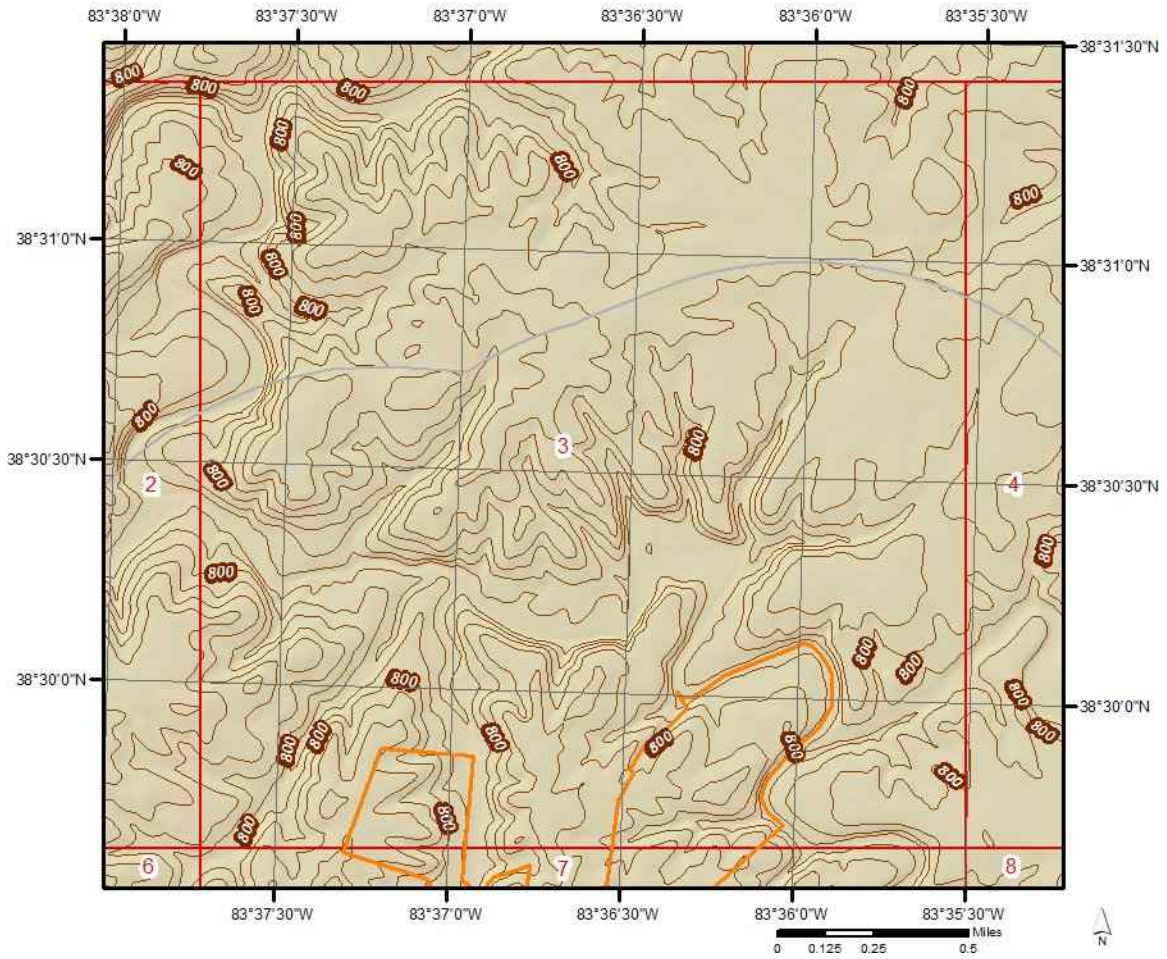
# Topographic Information



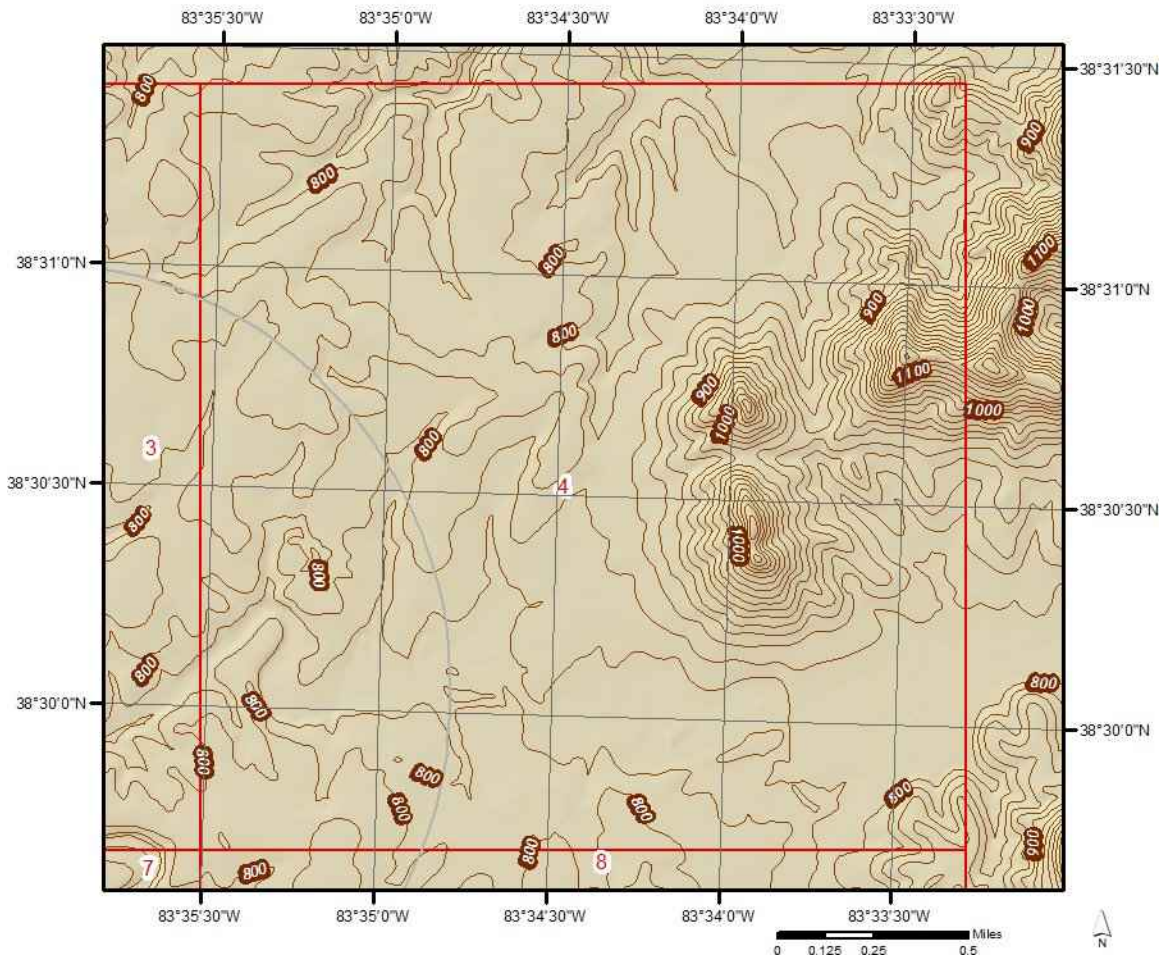
# Topographic Information



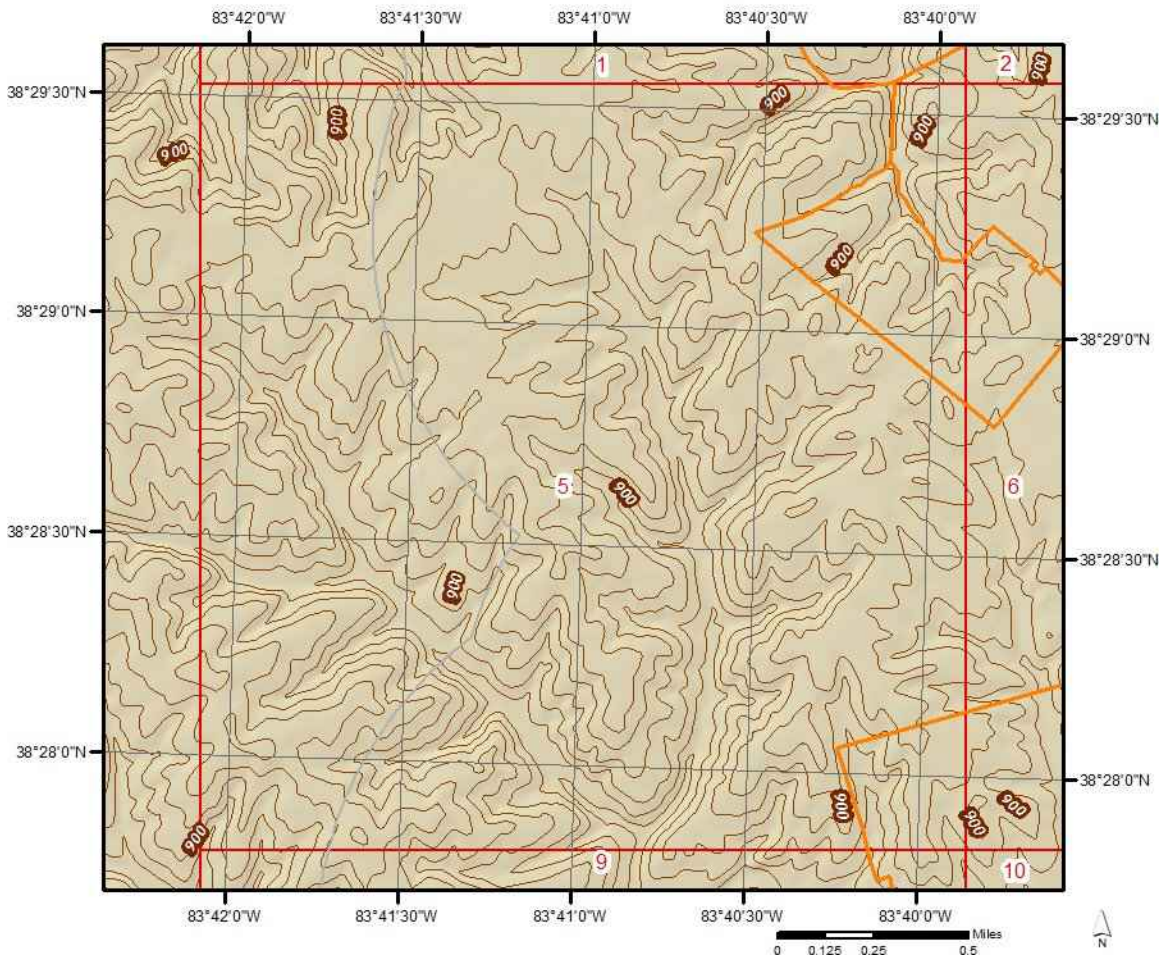
# Topographic Information



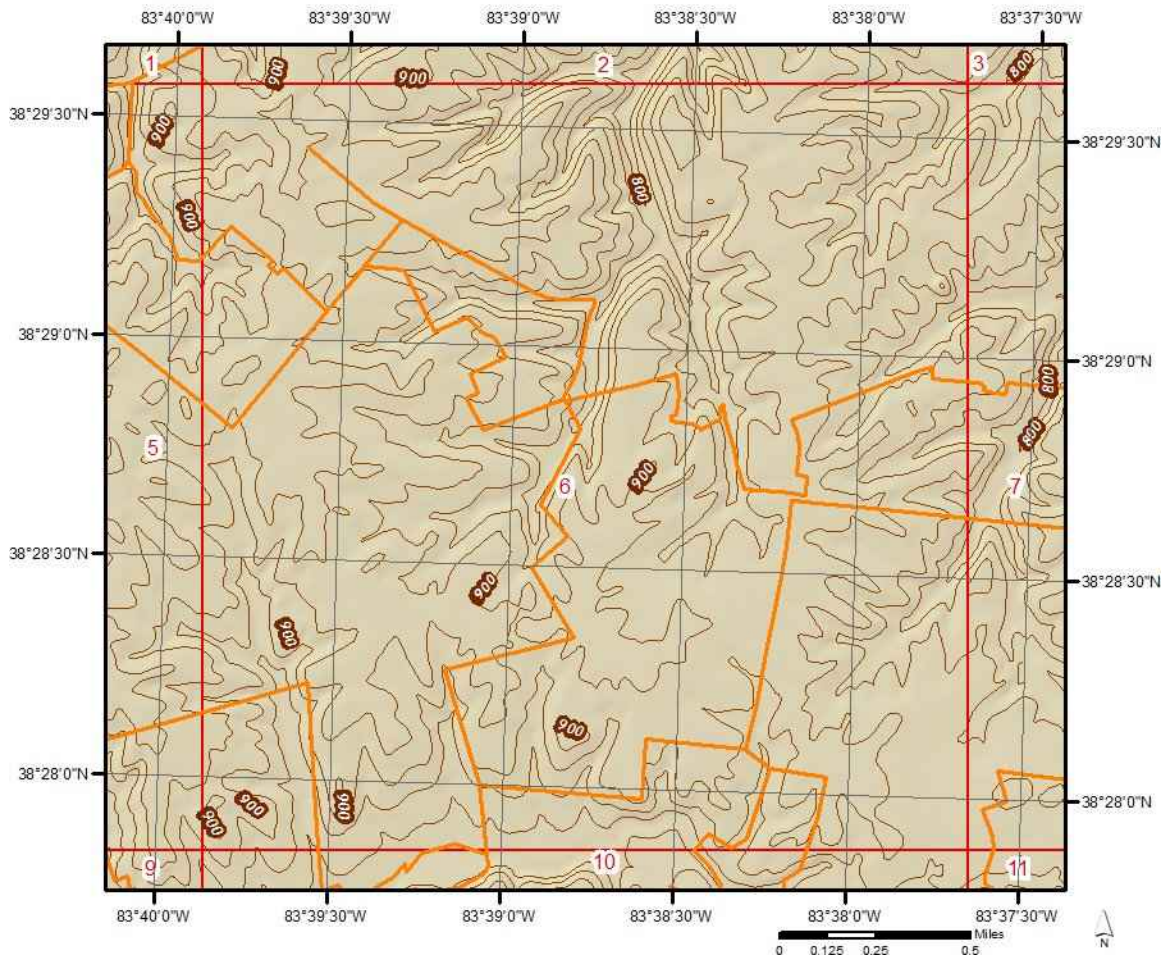
# Topographic Information



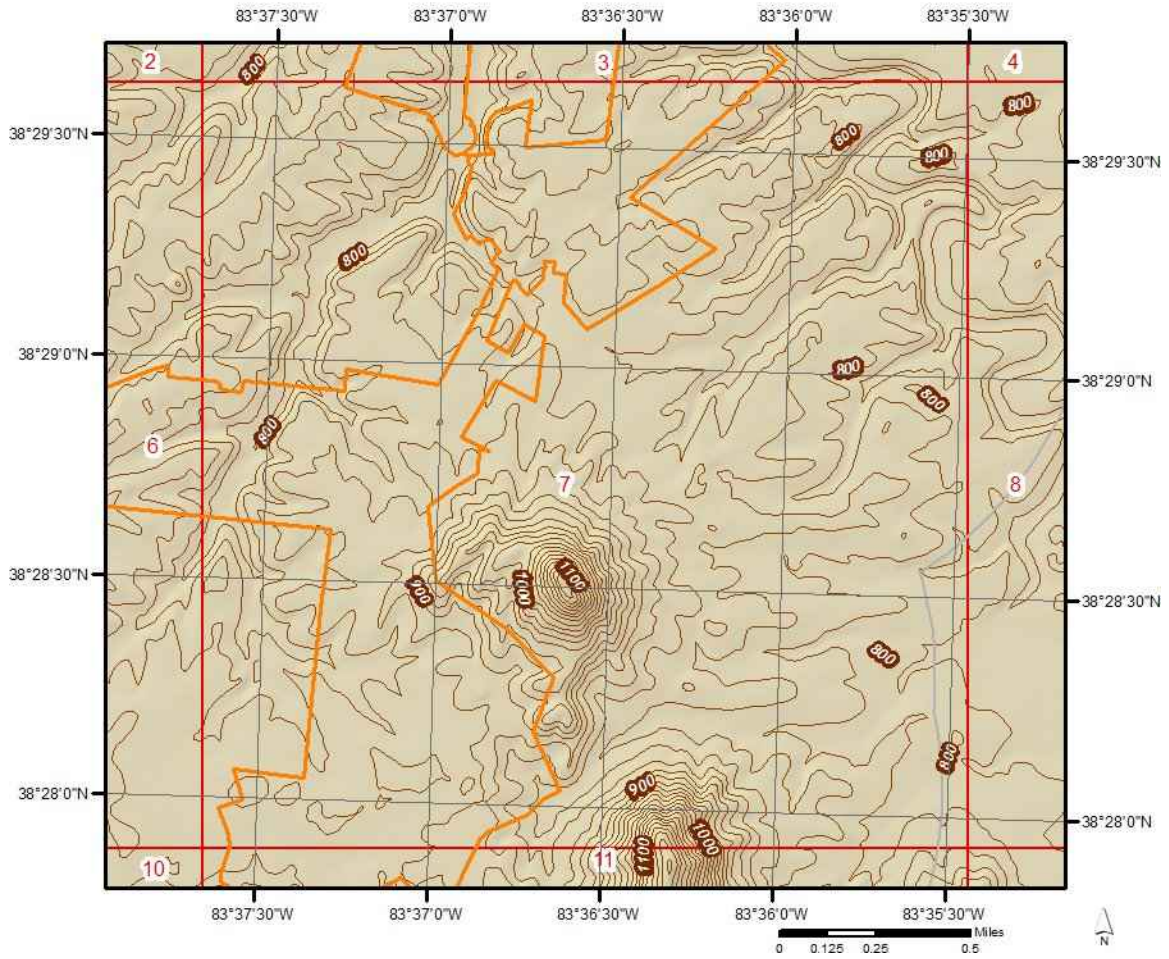
# Topographic Information



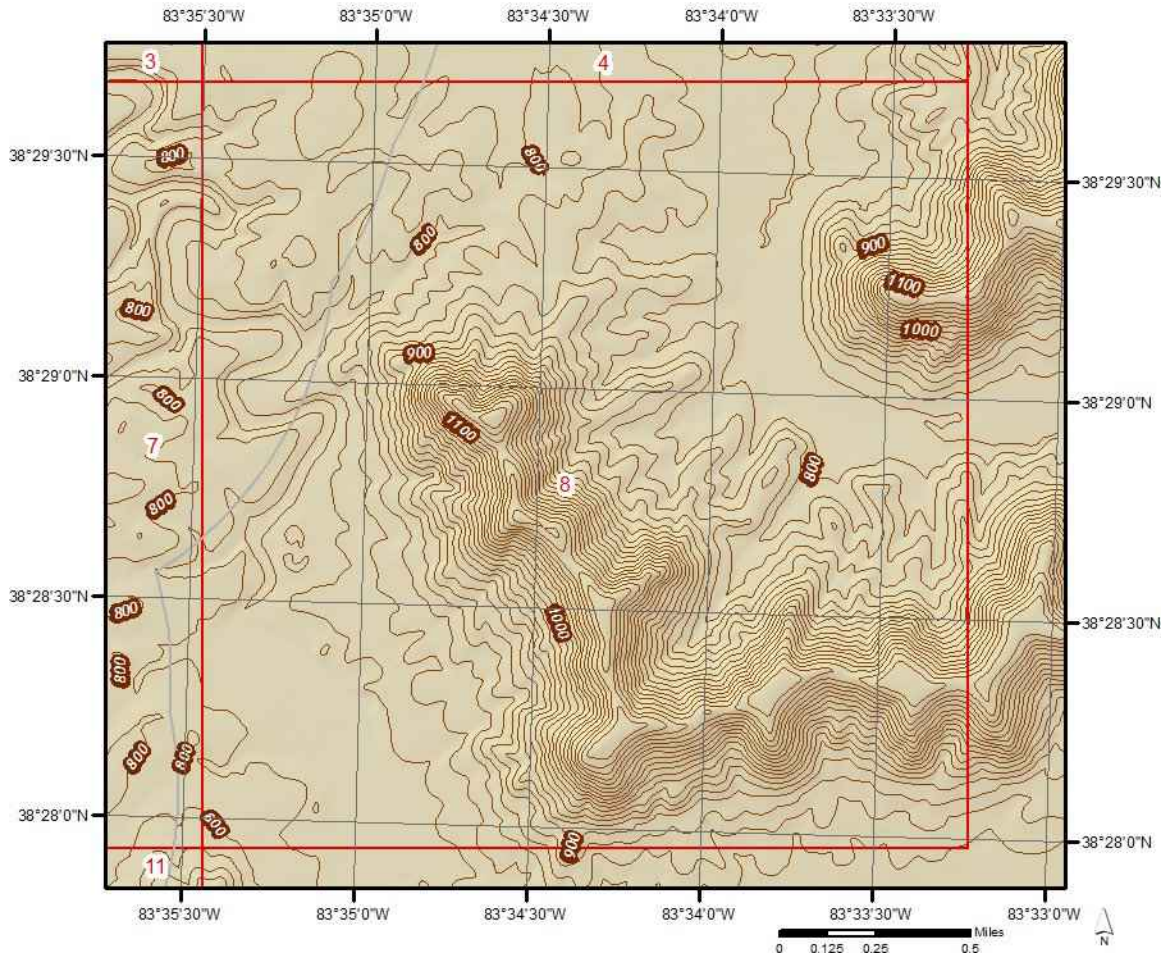
# Topographic Information



# Topographic Information

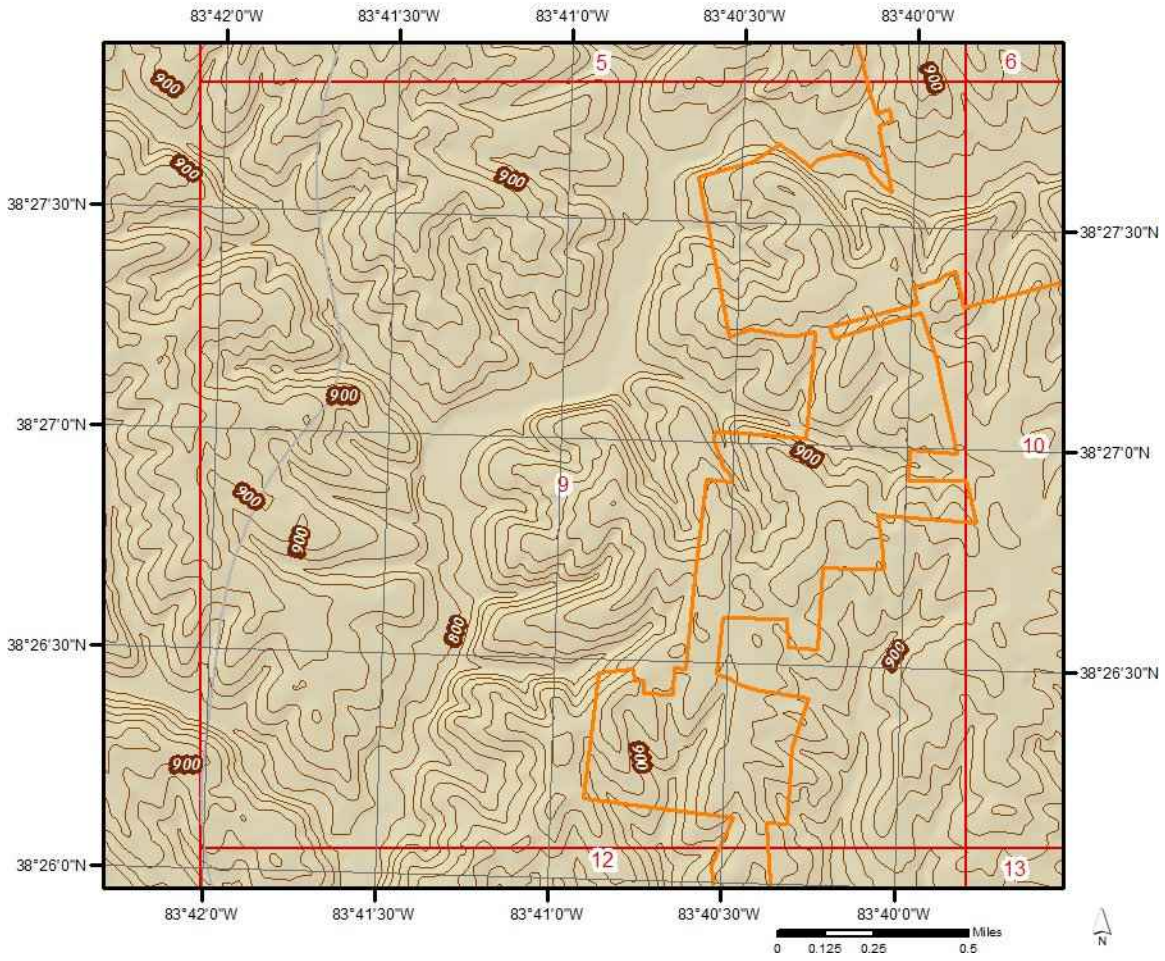


# Topographic Information

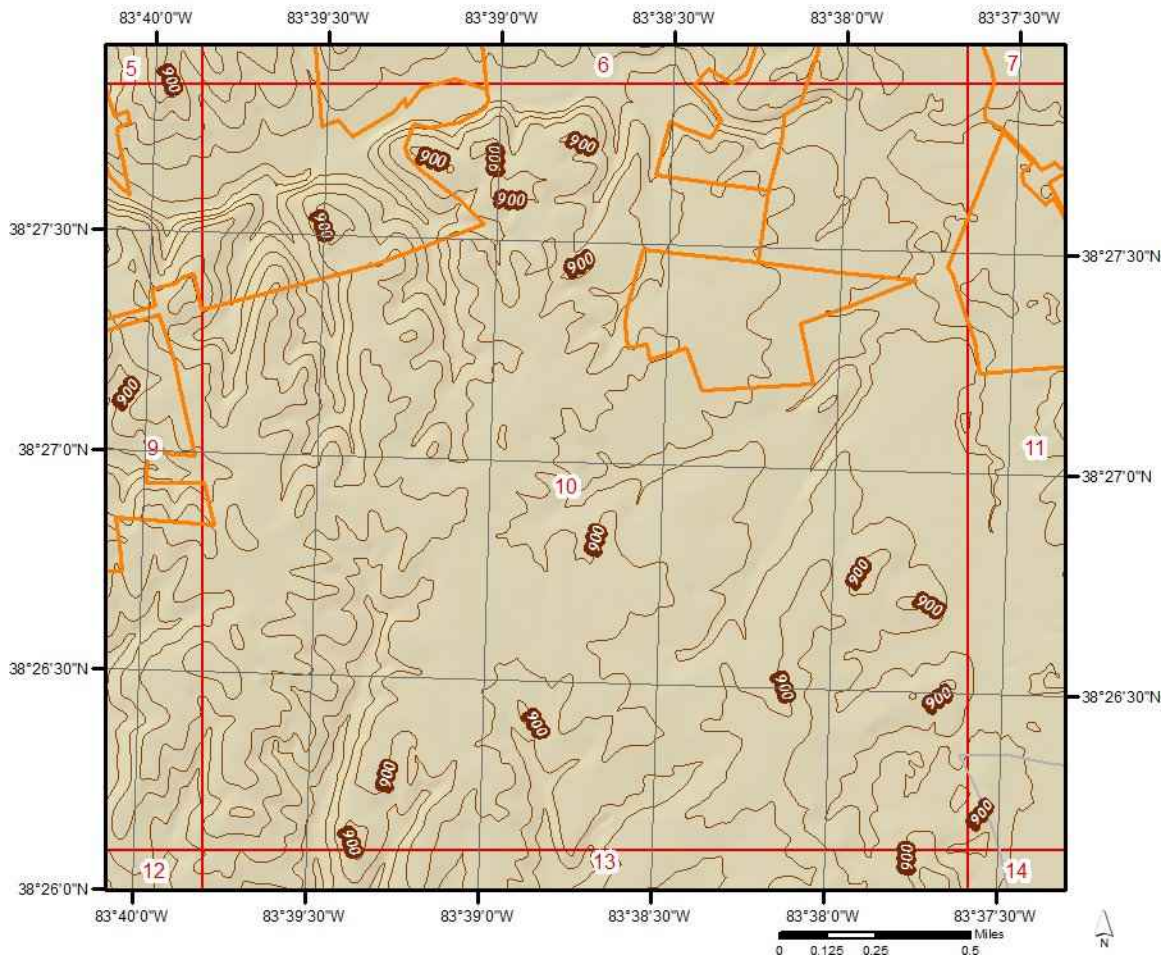




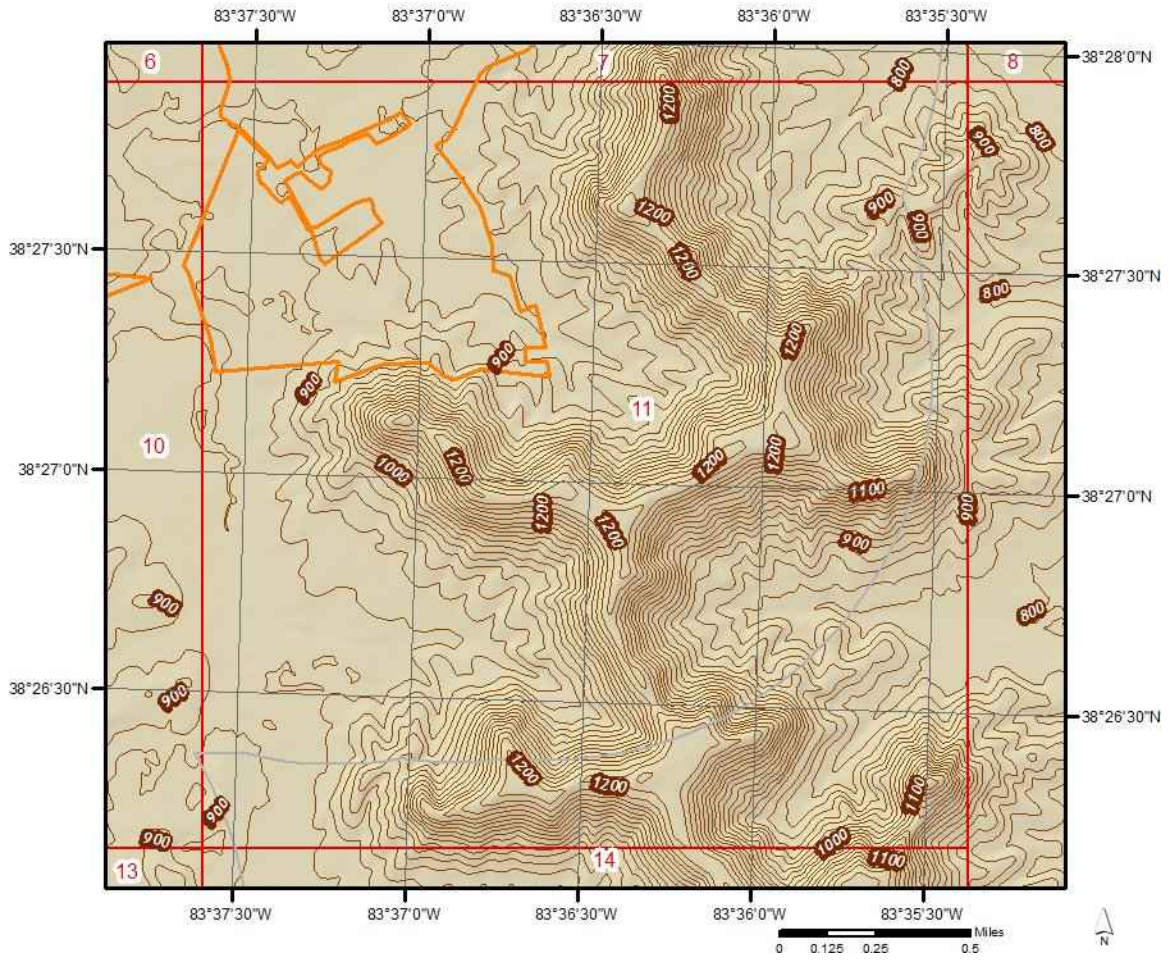
# Topographic Information



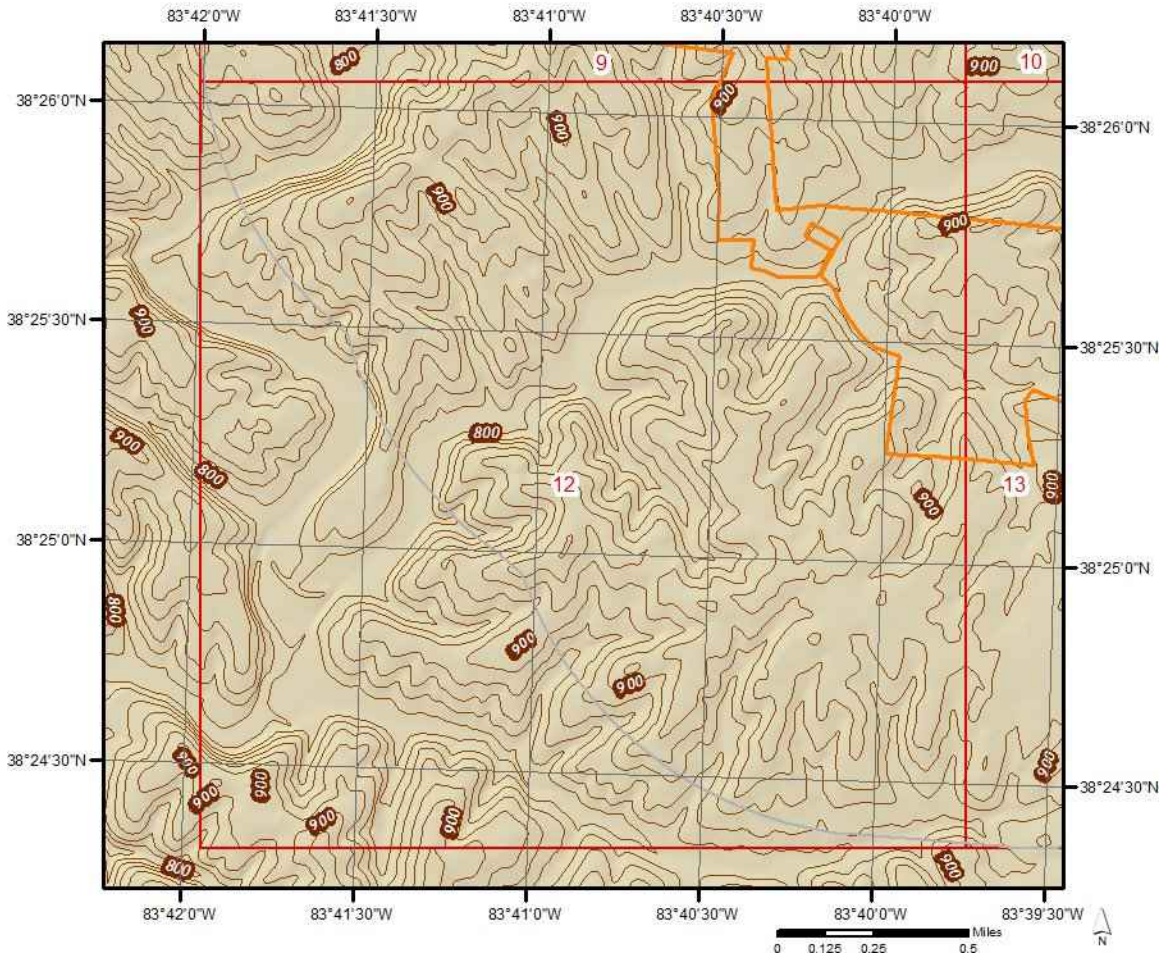
# Topographic Information



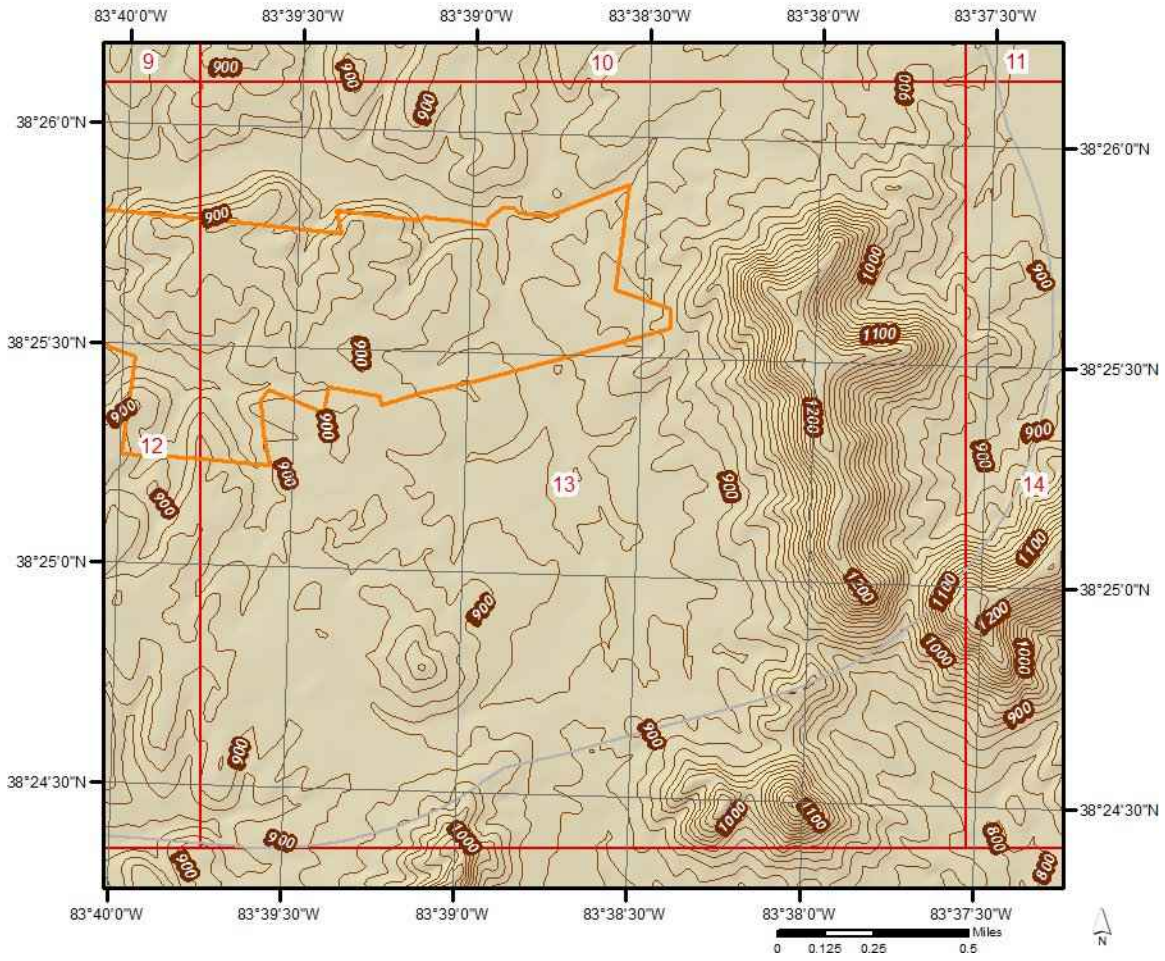
# Topographic Information



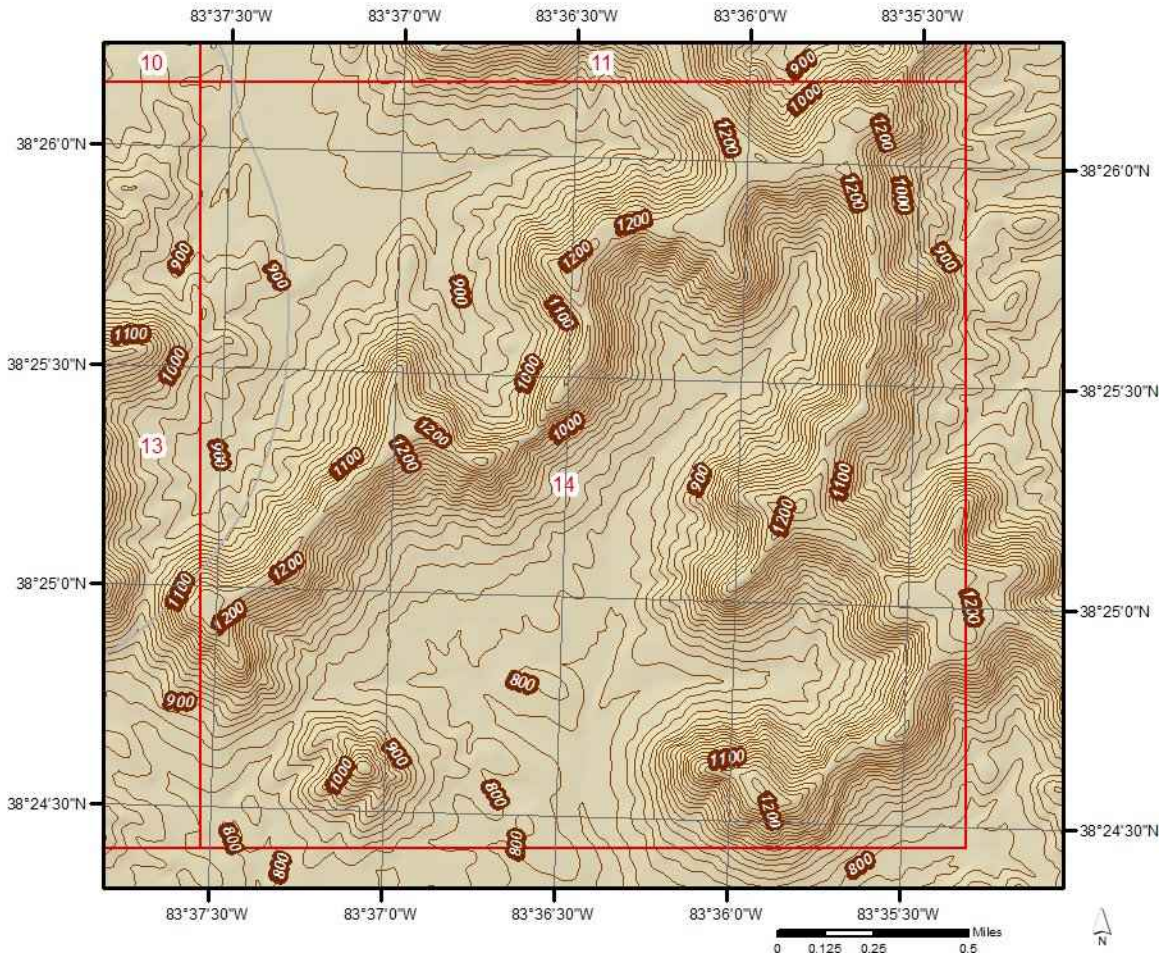
# Topographic Information



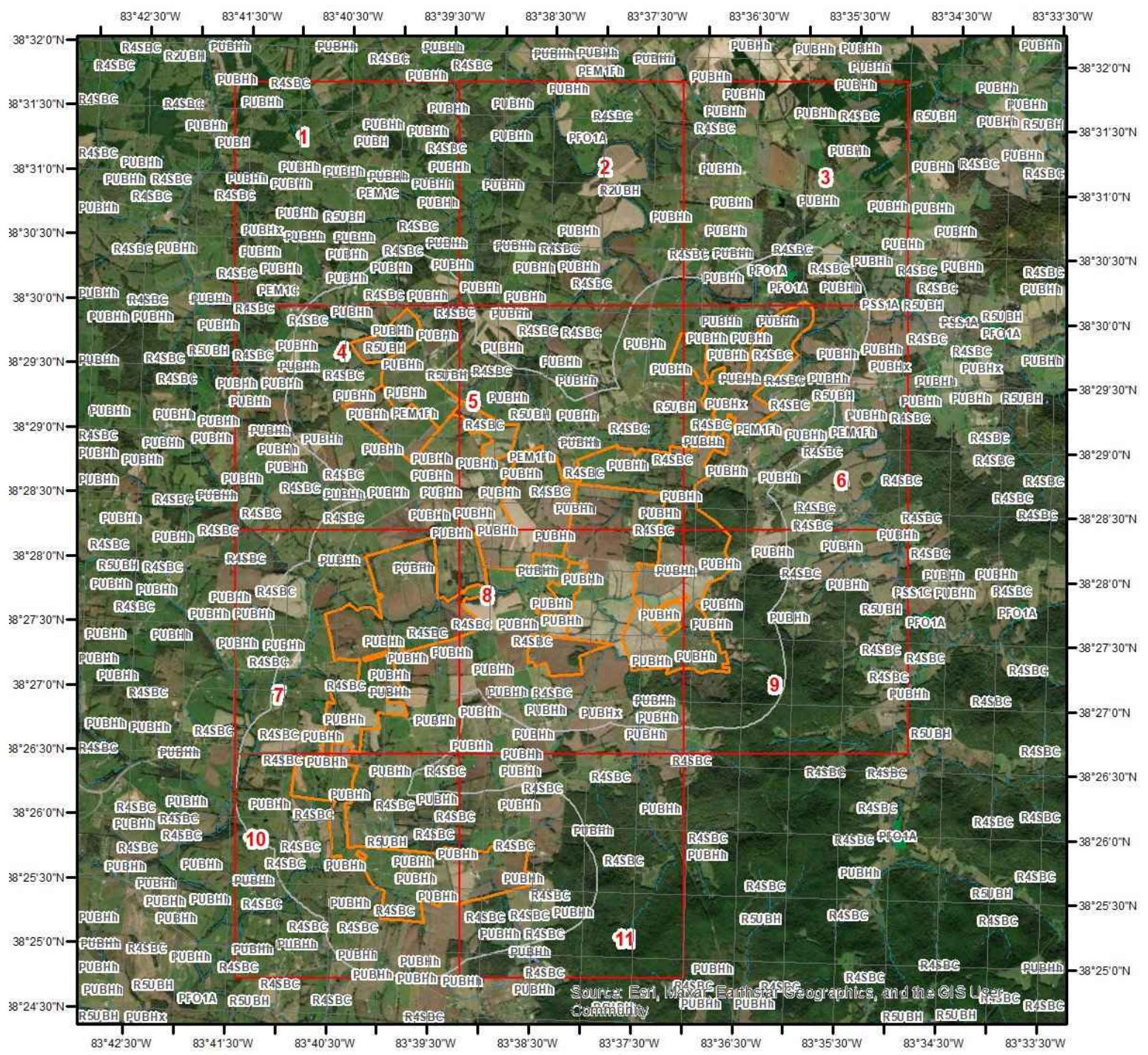
# Topographic Information



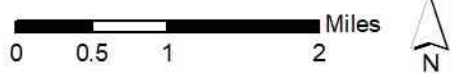
# Topographic Information



# Hydrologic Information



## Wetland

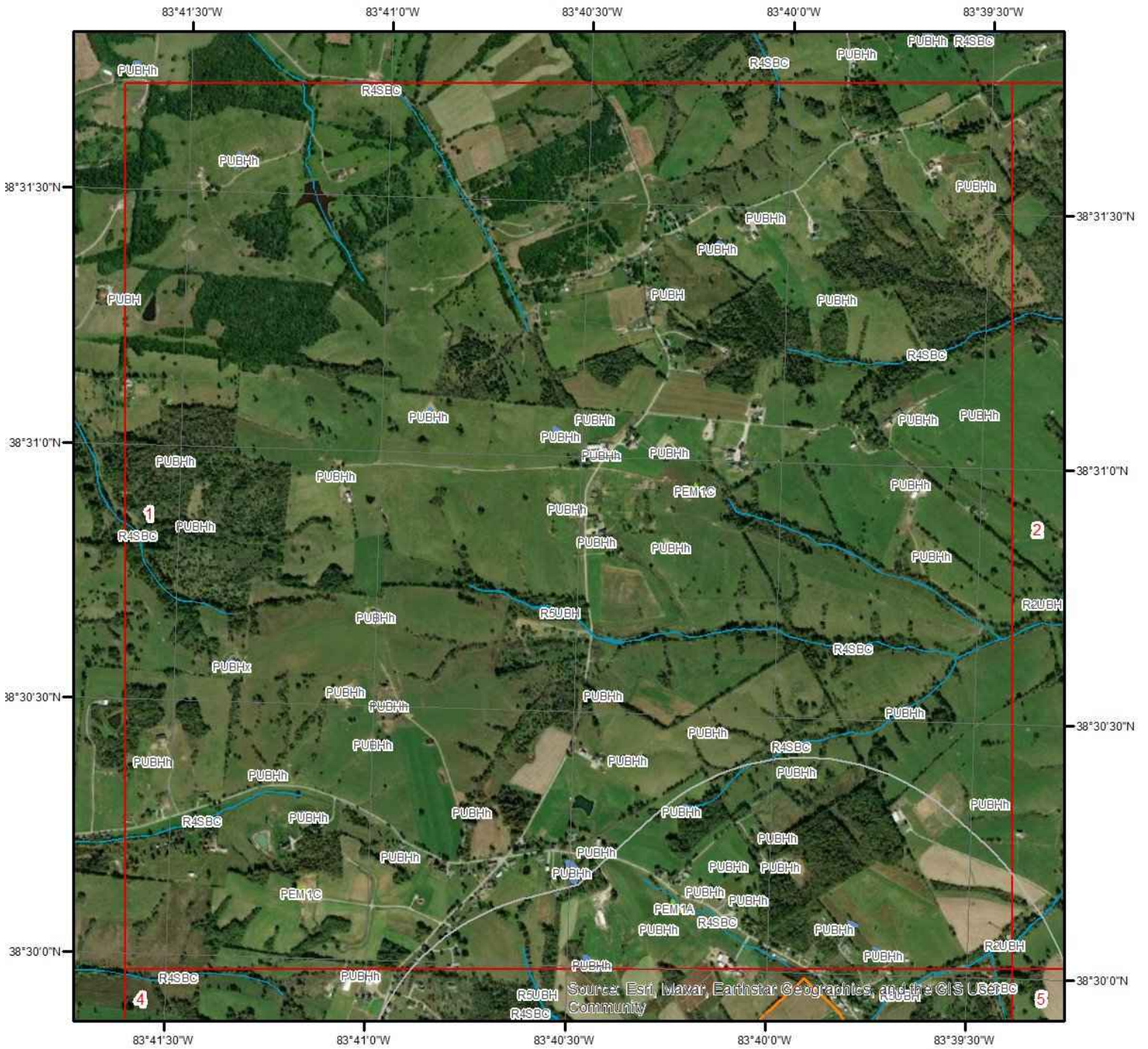


This map shows wetland existence using data from US Fish & Wildlife. Data coverage is shown to the right. Gray indicates no data available in the area.

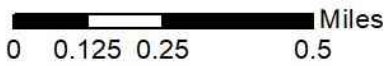
- |   |   |
|---|---|
|  Estuarine and Marine Deepwater    |  Freshwater Pond |
|  Estuarine and Marine Wetland      |  Lake            |
|  Freshwater Emergent Wetland       |  Other           |
|  Freshwater Forested/Shrub Wetland |  Riverine        |



# Hydrologic Information



## Wetland Type - Page 1



This map shows wetland existence using data from US Fish & Wildlife. Data coverage is shown to the right. Gray indicates no data available in the area.

- |   |   |
|---|---|
|  Estuarine and Marine Deepwater    |  Freshwater Pond |
|  Estuarine and Marine Wetland      |  Lake            |
|  Freshwater Emergent Wetland       |  Other           |
|  Freshwater Forested/Shrub Wetland |  Riverine        |

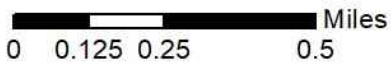




# Hydrologic Information



## Wetland Type - Page 2



This map shows wetland existence using data from US Fish & Wildlife. Data coverage is shown to the right. Gray indicates no data available in the area.



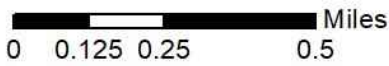
- |   |   |
|---|---|
|  Estuarine and Marine Deepwater    |  Freshwater Pond |
|  Estuarine and Marine Wetland      |  Lake            |
|  Freshwater Emergent Wetland       |  Other           |
|  Freshwater Forested/Shrub Wetland |  Riverine        |



# Hydrologic Information



## Wetland Type - Page 3



This map shows wetland existence using data from US Fish & Wildlife. Data coverage is shown to the right. Gray indicates no data available in the area.

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland

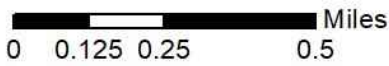
- Freshwater Pond
- Lake
- Other
- Riverine



# Hydrologic Information

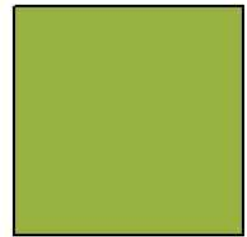


## Wetland Type - Page 4

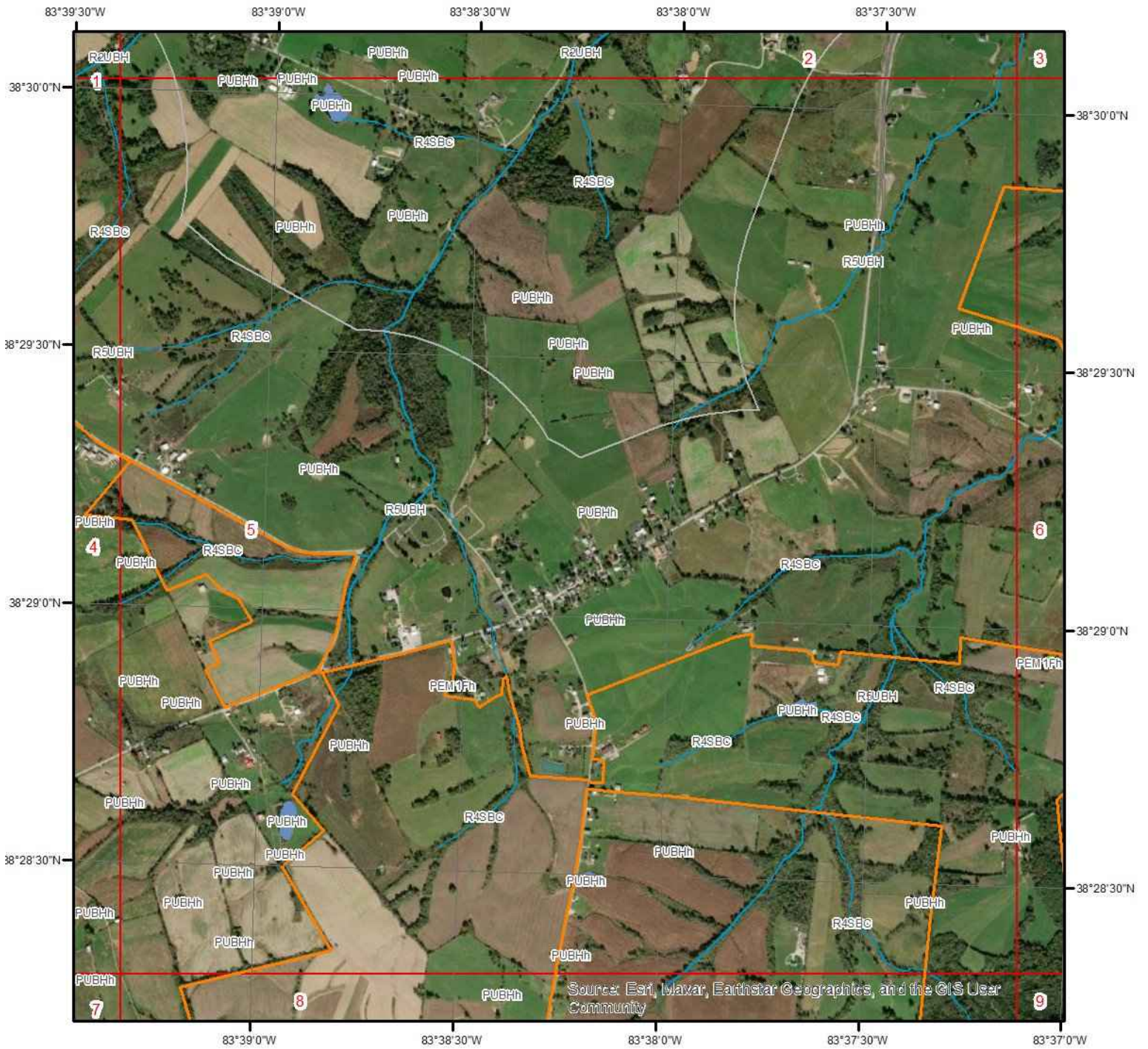


This map shows wetland existence using data from US Fish & Wildlife. Data coverage is shown to the right. Gray indicates no data available in the area.

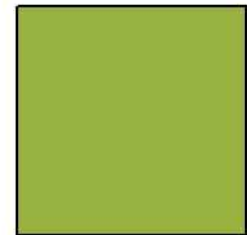
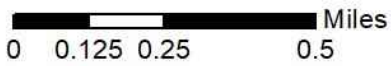
- |   |   |
|---|---|
|  Estuarine and Marine Deepwater    |  Freshwater Pond |
|  Estuarine and Marine Wetland      |  Lake            |
|  Freshwater Emergent Wetland       |  Other           |
|  Freshwater Forested/Shrub Wetland |  Riverine        |



# Hydrologic Information



## Wetland Type - Page 5



This map shows wetland existence using data from US Fish & Wildlife. Data coverage is shown to the right. Gray indicates no data available in the area.

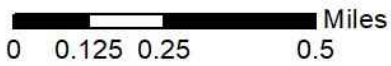
- |   |   |
|---|---|
| <span style="display: inline-block; width: 20px; height: 10px; background-color: #008080; border: 1px solid black;"></span> Estuarine and Marine Deepwater    | <span style="display: inline-block; width: 20px; height: 10px; background-color: #6495ED; border: 1px solid black;"></span> Freshwater Pond |
| <span style="display: inline-block; width: 20px; height: 10px; background-color: #90EE90; border: 1px solid black;"></span> Estuarine and Marine Wetland      | <span style="display: inline-block; width: 20px; height: 10px; background-color: #00008B; border: 1px solid black;"></span> Lake            |
| <span style="display: inline-block; width: 20px; height: 10px; background-color: #9ACD32; border: 1px solid black;"></span> Freshwater Emergent Wetland       | <span style="display: inline-block; width: 20px; height: 10px; background-color: #A0522D; border: 1px solid black;"></span> Other           |
| <span style="display: inline-block; width: 20px; height: 10px; background-color: #008000; border: 1px solid black;"></span> Freshwater Forested/Shrub Wetland | <span style="display: inline-block; width: 20px; height: 10px; background-color: #00CED1; border: 1px solid black;"></span> Riverine        |



# Hydrologic Information



## Wetland Type - Page 6



This map shows wetland existence using data from US Fish & Wildlife. Data coverage is shown to the right. Gray indicates no data available in the area.

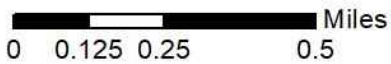
- |   |   |
|---|---|
|  Estuarine and Marine Deepwater    |  Freshwater Pond |
|  Estuarine and Marine Wetland      |  Lake            |
|  Freshwater Emergent Wetland       |  Other           |
|  Freshwater Forested/Shrub Wetland |  Riverine        |



# Hydrologic Information



## Wetland Type - Page 7



This map shows wetland existence using data from US Fish & Wildlife. Data coverage is shown to the right. Gray indicates no data available in the area.

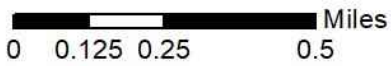
- |   |   |
|---|---|
|  Estuarine and Marine Deepwater    |  Freshwater Pond |
|  Estuarine and Marine Wetland      |  Lake            |
|  Freshwater Emergent Wetland       |  Other           |
|  Freshwater Forested/Shrub Wetland |  Riverine        |



# Hydrologic Information



## Wetland Type - Page 8



This map shows wetland existence using data from US Fish & Wildlife. Data coverage is shown to the right. Gray indicates no data available in the area.

- |   |   |
|---|---|
|  Estuarine and Marine Deepwater    |  Freshwater Pond |
|  Estuarine and Marine Wetland      |  Lake            |
|  Freshwater Emergent Wetland       |  Other           |
|  Freshwater Forested/Shrub Wetland |  Riverine        |

