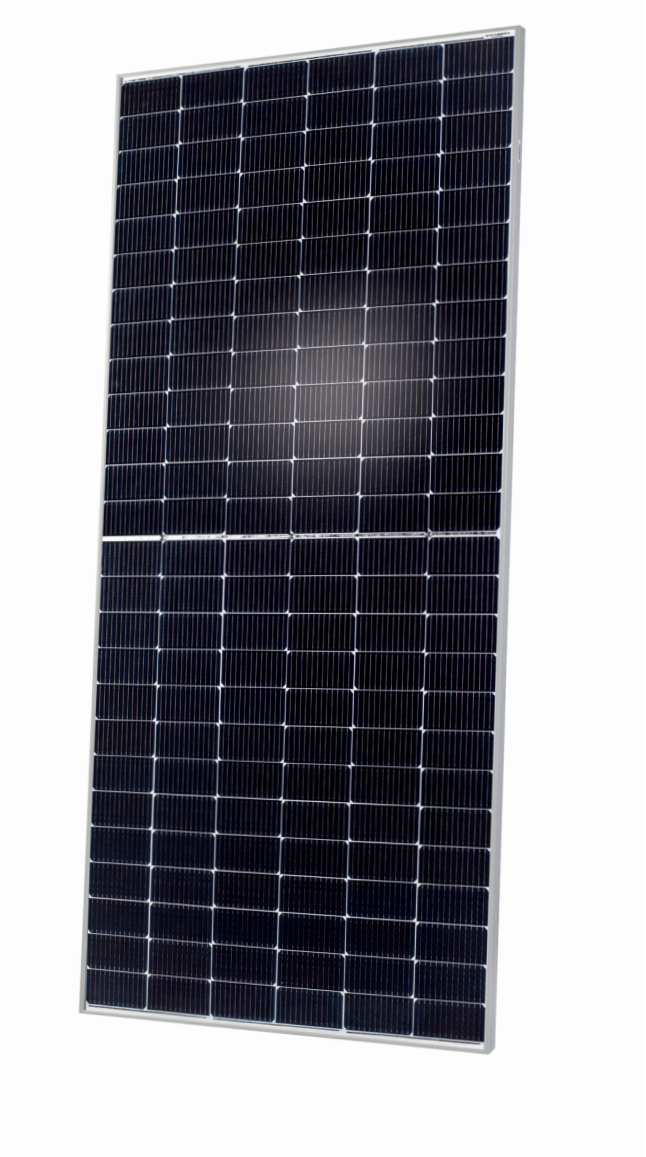
EXHIBIT H – EQUIPMENT SPEC SHEETS

Modules (Solar Panels)

Q.PEAK DUO XL-G11S SERIES

580-595 Wp | 156 Cells
21.3 % Maximum Module Efficiency

MODEL Q.PEAK DUO XL-G11S.3 / BFG



Bifacial energy yield gain of up to 21%

Bifacial Q.ANTUM solar cells make efficient use of light shining on the module rear-side for radically improved LCOE.

Low electricity generation costs

Q.ANTUM DUO technology with optimized module layout to boost module power and improve LCOE.

A reliable investment

Double glass module design enables extended lifetime with 12-year product warranty and improved 30-year performance warranty[1].

Enduring high performance

Long-term yield security with Anti LID and Anti PID Technology[2], Hot-Spot Protect.

Frame for versatile mounting options

High-tech aluminum alloy frame protects from damage, enables use of a wide range of mounting structures and is certified regarding IEC for high snow (5400 Pa) and wind loads (2400 Pa).

Innovative all-weather technology

Optimal yields, whatever the weather with excellent low-light and temperature behavior.

[1] See data sheet on rear for further information.
[2] APT test conditions according to IEC / TS 62804-1:2015 method B (–1500 V, 168 h) including post treatment according to IEC 61215-1-1 Ed. 2.0 (CD)

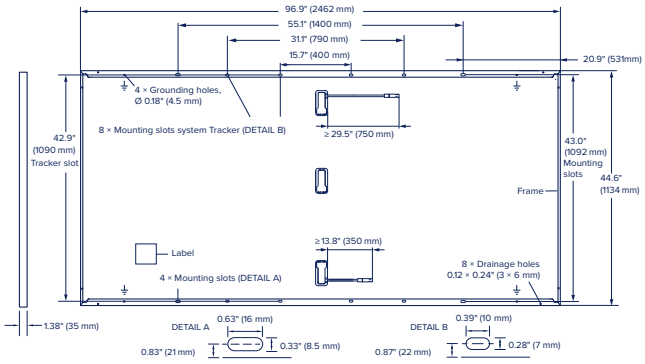
The ideal solution for:

Ground-mounted solar power plants

Q.PEAK DUO XL-G11S SERIES

Mechanical Specification

Format	96.9 in × 44.6 in × 1.38 in (including frame) (2462 mm × 1134 mm × 35 mm)
Weight	76.9 lbs (34.9kg)
Front Cover	0.08 in (2.0 mm) thermally pre-stressed glass with anti-reflection technology
Back Cover	0.08 in (2.0 mm) semi-tempered glass
Frame	Anodised aluminium
Cell	6 × 26 monocrystalline Q.ANTUM solar half cells
Junction box	2.09-3.98 × 1.26-2.36 × 0.59-0.71 in (53-101 mm × 32-60 mm × 15-18 mm), Protection class IP67, with bypass diodes
Cable	4 mm² Solar cable; (+) ≥ 29.5 in (750 mm), (−) ≥ 13.8 in (350 mm)
Connector	Stäubli MC4; Stäubli MC4-Evo2; - IP68



Electrical Characteristics

POWER CLASS				580		585		590		595	
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC[1] (POWER TOLERANCE +5 W / −0 W)					BSTC*		BSTC*		BSTC*		BSTC*
Minimum	Power at MPP[1]	P_{MPP}	[W]	580	634.4	585	639.9	590	645.4	595	650.8
	Short Circuit Current[1]	I_{SC}	[A]	13.69	14.99	13.72	15.01	13.74	15.04	13.77	15.07
	Open Circuit Voltage[1]	V_{OC}	[V]	53.55	53.74	53.57	53.76	53.60	53.79	53.63	53.82
	Current at MPP	I_{MPP}	[A]	13.03	14.25	13.07	14.30	13.12	14.36	13.17	14.41
	Voltage at MPP	V_{MPP}	[V]	44.53	44.52	44.75	44.74	44.96	44.95	45.18	45.17
	Efficiency[1]	η	[%]	≥ 20.8		≥ 21.0		≥ 21.1		≥ 21.3	

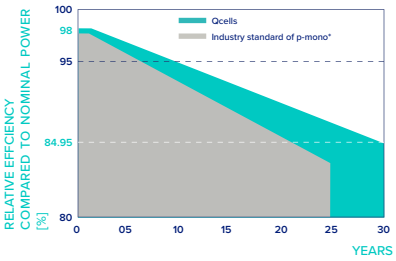
Bifaciality of P_{MPP} and I_{SC} 70 % ± 5 % • Bifaciality given for rear side irradiation on top of STC (front side) • According to IEC 60904-1-2

[1]Measurement tolerances P_{MPP} ± 3 %; I_{SC}, V_{OC} ± 5 % at STC: 1000 W/m²; *at BSTC: 1000 W/m² + φ × 135 W/m², φ = 70 % ± 5 %, 25 ± 2 °C, AM 1.5 according to IEC 60904-3

MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT[2]						
Minimum	Power at MPP	P_{MPP}	[W]	436.7	440.5	444.2	448.0
	Short Circuit Current	I_{SC}	[A]	11.03	11.05	11.07	11.09
	Open Circuit Voltage	V_{OC}	[V]	50.64	50.67	50.69	50.72
	Current at MPP	I_{MPP}	[A]	10.25	10.30	10.34	10.38
	Voltage at MPP	V_{MPP}	[V]	42.60	42.79	42.97	43.15

[1]Measurement tolerances P_{MPP} ± 3 %; I_{SC}; V_{OC} ± 5 % at STC: 1000 W/m², 25 ± 2 °C, AM 1.5 according to IEC 60904-3 • [2]800 W/m², NMOT, spectrum AM 1.5

Qcells PERFORMANCE WARRANTY

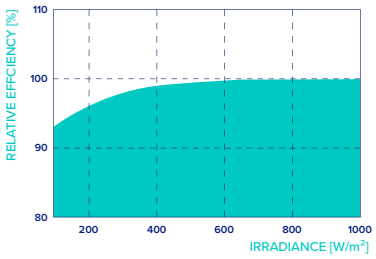


At least 98 % of nominal power during first year. Thereafter max. 0.45 % degradation per year. At least 93.95 % of nominal power up to 10 years. At least 84.95 % of nominal power up to 30 years.

All data within measurement tolerances. Full warranties in accordance with the warranty terms of the Qcells sales organisation of your respective country.

*Standard terms of guarantee for the 5 PV companies with the highest production capacity in 2021 (February 2021)

PERFORMANCE AT LOW IRRADIANCE



Typical module performance under low irradiance conditions in comparison to STC conditions (25 °C, 1000 W/m²).

TEMPERATURE COEFFICIENTS

Temperature Coefficient of I_{SC}	α	[%/K]	+0.04	Temperature Coefficient of V_{OC}	β	[%/K]	−0.27
Temperature Coefficient of P_{MPP}	γ	[%/K]	−0.34	Nominal Module Operating Temperature	NMOT	[°F]	108 ± 5.4 (42 ± 3 °C)

Properties for System Design

Maximum System Voltage	V_{SYS}	[V]	1500	PV module classification	Class II
Maximum Series Fuse Rating		[A DC]	25	Fire Rating based on ANSI / UL 61730	TYPE 29[4]
Max. Design Load, Push / Pull[3]		[lbs / ft²]	75 (3600 Pa) / 33 (1600 Pa)	Permitted Module Temperature on Continuous Duty	−40 °F up to +185 °F (−40 °C up to +85 °C)
Max. Test Load, Push / Pull[3]		[lbs / ft²]	113 (5400 Pa) / 50 (2400 Pa)		

[3] See Installation Manual

[4] New Type is similar to Type 3 but with metallic frame

Qualifications and Certificates

UL 61730, CE-compliant,
IEC 61215:2016,
IEC 61730:2016,
U.S. Patent No. 9,893,215
(solar cells)

C Certified US
UL 61730

TÜVRheinland CERTIFIED
www.tuv.com
ID 1111220277

Qcells pursues minimizing paper output in consideration of the global environment.

Note: Installation instructions must be followed. Contact our technical service for further information on approved installation of this product.

Hanwha Q CELLS America Inc. 400 Spectrum Center Drive, Suite 1400, Irvine, CA 92618, USA | TEL +1 949 748 59 96 | EMAIL hqc-inquiry@qcells.com | WEB www.qcells.com

Inverters

SIEMENS
Ingenuity for life

blueplanet 125 TL3

Transformerless, three-phase string inverter

The trendsetter among inverters

- Optimized for solar power plants with 1500 volt modules
- Extensive grid management functions
- Special properties for extreme climatic conditions
- Farsighted technical features for future requirements
- Lean commissioning and maintenance via remote services

Technical Data

DC input data	125 TL3
Max. recommended PV generator power	187 500 W
MPP range	875 – 1300 V
Operating range	875 – 1450 V
Rated DC voltage / start voltage	900 V / 1000 V
Max. no-load voltage	1500 V
Max. input current	160 A
Max. short circuit current $I_{sc\ max}$	300 A
Number of MPP tracker	1
Connection per tracker	1 - 2
AC output data	**125 TL3**
Rated output	125 000 VA
Max. power	137 500 VA
Line voltage	600 V (3P+PE)
Voltage range (Ph-Ph)	480 – 760 V
Rated frequency (range)	50 Hz / 60 Hz (45 – 65 Hz)
Rated current	3 x 120.3 A
Max. current	3 x 132.3 A
Reactive power / cos phi	0 – 100 % Som / 0.3 ind. – 0.30 cap.
Max. total harmonic distortion (THD)	≤ 3 %
Number of grid phases	3

General data	125 TL3
Max. efficiency	99.2 %
Europ. efficiency	99.1 %
CEC efficiency	99.0 %
Standby consumption	< 10 W
Circuitry topology	transformerless
Mechanical data	**125 TL3**
Display	LEDs
Control units	webserver, supports mobile devices
Interfaces	Ethernet (Modbus TCP, Sunspec) RS485 (Modbus RTU, Sunspec, KACO-protocol) USB, optional: 4-DI, WIFI
Fault signalling relay	potential-free NOC max. 30 V / 1 A
DC connection	cable lug, max. 240 mm² (0.372 in2) Cu or Al
AC connection	cable lug, max. 240 mm² (0.372 in2) Cu or Al
Ambient temperature	-25 °C – +60 °C ①
Humidity	0 – 100 %
Max. installation elevation (above MSL)	3000 m
Min. distance from coast	500 m
Cooling	temperature controlled fan
Protection class	IP66 / NEMA 4X
Noise emission	59.2 db (A)
H x W x D	719 x 699 x 450 mm
Weight	78.2 kg
Certifications	**125 TL3**
Safety	UL62109-1, UL1741 SA, CSA-C22.2 No. 62109-1, CSA-C22.2 No. 62109-2, CSA-C22.2 No. 107.1 IEC 62109-1/-2, EN 61000-6-1/-2/-3, EN 61000-3-11/-12
Grid connection rule	overview see homepage / download area

① Power derating at high ambient temperatures

Versions	S	XL
Number of DC inputs	1 - 2	1 - 2
DC switch	–	✓
DC SPD	Type 1 + 2	Type 1 + 2
AC SPD	○	○
RS485 interface SPD	○	○
Ethernet interface SPD	○	○
PID Set	○	○

standard = ✓ upgradeable = ○

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Siemens Industry, Inc.
3617 Parkway Ln.
Peachtree Corners, GA 30092

For more information, including service or parts, please contact our Customer Support Center.
Phone: +1 (800) 333-7421

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Article No. SIDS-T40053-00-4AUS
Printed in USA

EXHIBIT I – FAA NOTICE CRITERIA TOOL

Federal Aviation Administration

The FAA is currently experiencing delays in processing off-airport aeronautical studies. These delays are currently resulting in an approximate 15 additional days in processing time. The FAA will continue to work aeronautical studies on a first come, first served basis. Please take this possible delay into consideration when determining when to submit your case. If your submitted aeronautical study requires priority and 60 days has elapsed since submission, please contact the OEG Specialist for your state with the rationale for your request and it will be reviewed for escalation. The issue causing these delays is actively being mitigated and is expected to be resolved around August.

« OE/AAA

Notice Criteria Tool

Notice Criteria Tool - Desk Reference Guide V_2018.2.0

The requirements for filing with the Federal Aviation Administration for proposed structures vary based on a number of factors: height, proximity to an airport, location, and frequencies emitted from the structure, etc. For more details, please reference CFR Title 14 Part 77.9.

You must file with the FAA at least 45 days prior to construction if:

- your structure will exceed 200ft above ground level
- your structure will be in proximity to an airport and will exceed the slope ratio
- your structure involves construction of a traverseway (i.e. highway, railroad, waterway etc...) and once adjusted upward with the appropriate vertical distance would exceed a standard of 77.9(a) or (b)
- your structure will emit frequencies, and does not meet the conditions of the FAA Co-location Policy
- your structure will be in an instrument approach area and might exceed part 77 Subpart C
- your proposed structure will be in proximity to a navigation facility and may impact the assurance of navigation signal reception
- your structure will be on an airport or heliport
- filing has been requested by the FAA

If you require additional information regarding the filing requirements for your structure, please identify and contact the appropriate FAA representative using the Air Traffic Areas of Responsibility map for Off Airport construction, or contact the FAA Airports Region / District Office for On Airport construction.

The tool below will assist in applying Part 77 Notice Criteria.

* **Structure Type:**	SOLAR | Solar Panel Please select structure type and complete location point information.
Latitude:	39 Deg 10 M 33.27 S N
Longitude:	89 Deg 36 M 04.75 S W
Horizontal Datum:	NAD83
Site Elevation (SE):	560 (nearest foot)
Structure Height :	10 (nearest foot)
Is structure on airport:	(●) No ( ) Yes

Results

You do not exceed Notice Criteria.

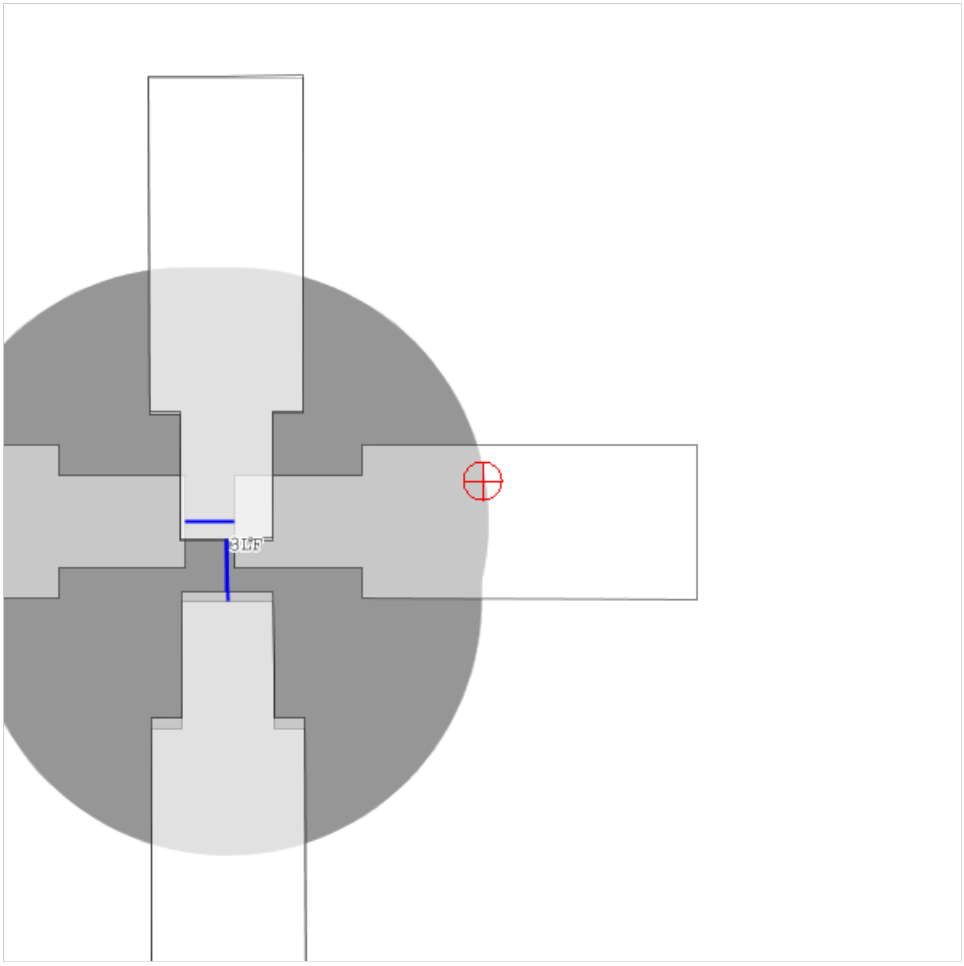
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EXHIBIT J – MEMORANDUM OF LEASE

202400002034
Filed for Record in
MONTGOMERY COUNTY, IL
SANDY LEITHEISER
07/11/2024 01:55 PM
DT0027 70.00
RHSP Surcharge 18.00
Page Count: 5

Prepared by and when
recorded return to:

SRE Solar Origination 2, LLC
Attn: Amy E. Fox
1000 Wilson Blvd, Suite 2400
Arlington, VA 22209
PIN(s): 15-36-300-013

MEMORANDUM OF OPTION TO GROUND LEASE AND GROUND LEASE

This Memorandum of Option ("Memorandum") is entered into on this 5TH day of, FEBRUARY 2024 by and between Dustin Ellinger and Dee Ellinger, having a mailing address of 4388 Illinois Route 16, Litchfield, IL 62056 (hereinafter referred to as "Landlord") and SRE Solar Origination 2, LLC, a Delaware limited liability company, having a mailing address of 1000 Wilson Blvd, Suite 2400, Arlington, VA 22209 (hereinafter referred to as "Tenant").

1. Landlord and Tenant entered into a certain Option to Ground Lease and Ground Lease Agreement ("Agreement") on the 5TH day of FEBRUARY 2024 (the "Effective Date"), pursuant to which Landlord has granted to Tenant an option to (a) lease certain real property more particularly described on Exhibit 1 attached hereto (the "Property") for the purpose of installing, operating and maintaining a solar-powered electric generation facility and/or an energy storage facility (the "Facility" or "Facilities"), and (b) obtain certain easements for access and servicing the Facility. All of the foregoing are set forth in the Agreement.

2. The term of the option commences on the Effective Date and continues for a period of up to 36 months, subject to Tenant's right to extend by 1 additional 12 month period (unless earlier terminated) (the "Option Period"). If Tenant exercises the Option under the Agreement, the "Construction Period" will commence on the Exercise Notice date for a period of up to 12 months. The "Operations Period" shall commence, if at all, immediately following the expiration of the Construction Period (the "Operations Period Commencement Date") and end at 11:59 p.m. on the last day of the month in which the twenty-fifth (25th) anniversary of the Commercial Operation Date occurs, subject to Tenant's right to extend for three (3) periods of five (5) years each, pursuant to the terms and conditions of the Agreement. Without limiting the generality of the foregoing, if Tenant exercises the Option, Landlord grants to Tenant the exclusive right to install, operate and maintain the Facilities on the Property and the exclusive right to convert and capture the free and unobstructed flow of sunlight over the Property and generate electricity therefrom using the Facility.

3. The Agreement also contains a right of first refusal of Tenant to purchase the Property. The method of determining the price under the right of first refusal is contained in the Agreement.

4. This Memorandum is not intended to amend or modify, and shall not be deemed or construed as amending or modifying, any of the terms, conditions or provisions of the Agreement, all of which are hereby ratified and affirmed. In the event of a conflict between the provisions of this Memorandum and the provisions of the Agreement, the provisions of the Agreement shall control. The Agreement shall be binding upon and inure to the benefit of the Parties and their respective heirs, successors, and permitted assigns, subject to the provisions of the Lease.

5. This Memorandum may be executed in any number of counterparts, each of which when executed and delivered shall be an original, and each such counterpart shall, when combined with all other such counterparts, constitute one agreement binding on the Parties hereto.

[Signatures to Follow]

TENANT:
SRE Solar Origination 2, LLC

By: Bal
Name: Barrett LaChance
Its: Authorized Representative

TENANT ACKNOWLEDGMENT

Commonwealth of Virginia)
) ss:
County of Arlington)

On the 8 day of February, 2024, before me personally appeared Barrett LaChance, and acknowledged under oath that he/she is a duly authorized person for SRE Solar Origination 2, LLC, a Delaware limited liability company, the limited liability company named in the attached instrument, and as such was authorized to execute this instrument on behalf of the limited liability company.

Notary Public: DeAnna Johnson
My Commission Expires: 10-31-27

DEANNA D JOHNSON NOTARY PUBLIC REG. #8003731 MY COMMISSION EXPIRES OCT. 31, 2027 COMMONWEALTH OF VIRGINIA

[Tenant's Signature Page to the Memorandum]

LANDLORD

Dustin Ellinger

LANDLORD

Dee Ellinger

LANDLORD ACKNOWLEDGMENTS

State of IL)
) ss:
County of Montgomery)

On the 5th day of FEB., 2024, before me personally appeared Dustin Ellinger, and acknowledged under oath that he is the individual named in the attached instrument, and as such was authorized to execute this instrument.

ERIK D. HYAM
OFFICIAL SEAL
Notary Public, State of Illinois
My Commission Expires
August 09, 2025

Notary Public: _____
My Commission Expires: 9-Aug. 2025

State of IL)
) ss:
County of Montgomery)

On the 5th day of FEB., 2024, before me personally appeared Dee Ellinger, and acknowledged under oath that she is the individual named in the attached instrument, and as such was authorized to execute this instrument.

ERIK D. HYAM
OFFICIAL SEAL
Notary Public, State of Illinois
My Commission Expires
August 09, 2025

Notary Public: _____
My Commission Expires: 09-Aug-2025

[Landlord's Signature Page to the Memorandum]

EXHIBIT 1

DESCRIPTION OF THE PROPERTY

Legal Description:

The Land referred to herein below is situated in the County of Montgomery, State of Illinois, and is described as follows:

PARCEL 1:

All that part of the Northwest quarter of the Northwest quarter of Section 1, lying North of Illinois Route 16 AND all that part of the Northeast quarter of the Northeast quarter of Section 2, lying North of Illinois Route 16, and lying Southeasterly of the former Cleveland, Cincinnati, Chicago and St. Louis Railway Company right-of-way, all in Township 8 North, Range 5 West of the Third Principal Meridian.

EXCEPT any interest in the coal, oil, gas and other mineral rights underlying the land which have been heretofore conveyed or reserved in prior conveyances, and all rights and easements in favor of the estate of said coal, oil, gas and other minerals.

Permanent Parcel No. 15-02-200-029

PARCEL 2:

All that part of the East half of the Southeast quarter of Section 35, lying Southeasterly of the former Cleveland, Cincinnati, Chicago and St. Louis Railway Company right-of-way AND all that part of the West half of the Southwest quarter of Section 36, lying North of Illinois Route 16 and lying Southeasterly of the former Cleveland, Cincinnati, Chicago and St. Louis Railway Company right-of-way, all in Township 9 North, Range 5 West of the Third Principal Meridian.

EXCEPT any interest in the coal, oil, gas and other mineral rights underlying the land which have been heretofore conveyed or reserved in prior conveyances, and all rights and easements in favor of the estate of said coal, oil, gas and other minerals.

Permanent Parcel No.

15-36-300-013

Common Address: Vacant Land, E. Illinois Route 16, NW Illinois Route 16, Litchfield, IL

EXHIBIT K – CIVIL SET

MONTGOMERY - ELLINGER SOLAR PROJECT

CIVIL DRAWING SET

EAST ILLINOIS ROUTE 16,
LITCHFIELD, ILLINOIS 62056
MONTGOMERY COUNTY
LAT/LONG: 39.175908, -89.601318

GENERAL NOTES FOR CONTRACTOR

1. THE EPC WILL FURNISH, INSTALL, TEST AND COMPLETE ALL WORK TO THE SATISFACTION OF OWNER IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION; THESE PLANS DO NOT COMPLETELY REPRESENT, ALL SPECIFIC INSTRUCTIONS REQUIRED FOR SITEWORK CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE TO CONSTRUCT ALL IMPROVEMENTS DEPICTED ON THESE PLANS IN ACCORDANCE WITH ALL APPLICABLE RULES, REGULATIONS AND LAWS IN EFFECT AT THE TIME OF CONSTRUCTION.
2. THE EPC SHALL ACCEPT THE SITE AS IS. THE CONTRACTOR SHALL ASSESS CONDITIONS, AND THE KIND, QUALITY AND QUANTITY OF WORK REQUIRED. OWNER MAKES NO GUARANTEE IN REGARD TO THE ACCURACY OF ANY INFORMATION THAT WAS OBTAINED INVESTIGATIONS. THE CONTRACTOR SHALL: MAKE A THOROUGH SITE INSPECTION IN ORDER TO FIELD CHECK EXISTING SITE CONDITIONS; CORRELATE CONDITIONS WITH THE DRAWINGS; AND, RESOLVE ANY POSSIBLE CONSTRUCTION CONFLICTS WITH OWNER PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL PERFORM ADDITIONAL TOPOGRAPHIC SURVEYS HE/SHE DEEMS NECESSARY.
3. THE EPC SHALL, WHEN HE/SHE DEEMS NECESSARY, PROVIDE A WRITTEN REQUEST FOR INFORMATION (RFI) TO OWNER PRIOR TO THE CONSTRUCTION OF ANY SPECIFIC SITE WORK ITEM. THE (RFI) SHALL BE IN A FORM ACCEPTABLE TO PROJECT DIRECTOR IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SITEWORK ITEMS CONSTRUCTED DIFFERENTLY THAN INTENDED OR AS DEPICTED ON THE PLANS.
4. THERE ARE ADDITIONAL NOTES, SPECIFICATIONS AND REQUIREMENTS CONTAINED THROUGHOUT THE PLAN SET AS WELL AS REFERENCES TO SPECIFICATIONS FROM APPLICABLE GOVERNING AUTHORITIES AND INDUSTRY STANDARDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN, REVIEW AND ADHERE TO ALL THESE DOCUMENTS.
5. ALL CONSTRUCTION STAKEOUT FOR THIS PROJECT MUST BE COMPLETED FROM THE SITE SPECIFIC SURVEY CONTROL (HORIZONTAL AND VERTICAL) UPON WHICH THE DESIGN IS BASED. THE CONTRACTOR SHOULD NOT RELY ON OR RE-ESTABLISH SURVEY CONTROL BY GPS OR OTHER METHODS FOR USE IN CONSTRUCTION STAKEOUT OR ANY OTHER PURPOSE FOR THIS PROJECT. ANY DISCREPANCIES BETWEEN THE EXISTING HORIZONTAL OR VERTICAL DATA SHOWN ON THESE DRAWINGS AND THAT ENCOUNTERED IN THE FIELD MUST BE REPORTED TO THE DESIGN TEAM PRIOR TO CONSTRUCTION FOR RESOLUTION.
6. UNDERGROUND UTILITIES AND INFRASTRUCTURE ARE LOCATED IN OR NEAR THE SITE AND MAY BE PRESENT IN AREAS OF PROPOSED WORK. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING AND LOCATING UNDERGROUND UTILITIES AND INFRASTRUCTURE PRIOR TO WORK. IF CONFLICTS WITH PROPOSED WORK ARE OBSERVED, CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY FOR REVIEW. CONTRACTOR SHALL USE EXTREME CARE WHEN WORKING ADJACENT TO EXISTING UNDERGROUND UTILITIES AND INFRASTRUCTURE. DAMAGED UTILITIES AND INFRASTRUCTURE SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.

PROJECT DESCRIPTION

THE PROPOSED SOLAR PROJECT INVOLVES THE CONSTRUCTION OF A SINGLE AXIS TRACKER PHOTOVOLTAIC SYSTEM AND ALL ASSOCIATED ACTIVITIES GENERALLY INCLUDING ACCESS ROADS, UTILITIES, SITE PREPARATION, CLEARING, SITE WORK, AND EROSION & SEDIMENTATION CONTROL MEASURES. THE MODULES TRACK THE SUN THROUGHOUT THE DAY AND GENERATE DC POWER, WHICH IS CONVERTED TO AC POWER THROUGH THE PROJECT INVERTERS AND INTERCONNECTED WITH THE EXISTING ELECTRICAL SYSTEM.

PV ARRAY SUMMARY

ARRAY SPECIFICATIONS	
DC SYSTEM SIZE (kW)	7341.75 kW
AC SYSTEM SIZE (kW)	4990 kW
DC/AC RATIO	1.47
MODULE MODEL	Q.PEAK DUO XL-G11S.3/BFG
MODULE POWER	585 W
MODULE COUNT	12,550
RACKING QUANTITY	(141) 1x75; (29) 1x50; (21) 1x25; SAT
STRING LENGTH	25
STRING QUANTITY	502
INVERTER TYPE	KACO BLUEPLANET 125-TL3-INT
INVERTER QUANTITY	(38) 125 kW, (2) DERATED TO 120 kW
AZIMUTH	180°
TILT ANGLE / PHI LIMITS	±55°
NOMINAL PITCH (FEET)	18.36
INTER-ROW SPACING (FEET)	10.29
GROUND COVERAGE RATIO	0.440
TORQUE TUBE HEIGHT (FEET)	5.3 MIN; 5.8 DESIGN
TRACKER LEADING EDGE (FEET)	2 MIN; 2.5 DESIGN

PROJECT SUMMARY

APPLICANT: MONTGOMERY IL SOLAR 1, LLC

PARCEL NUMBER: 10-36-300-013

LOCATION: EAST ILLINOIS ROUTE 16, LITCHFIELD, ILLINOIS 62056

OWNER: DUSTIN ELLINGER

COUNTY: MONTGOMERY

TOWNSHIP: LITCHFIEL

LOT SIZE: ±33.946 AC

EXISTING USE: AGRICULTURAL

PROPOSED USE: SOLAR ENERGY SYSTEM

LIMITS OF DISTURBANCE: ±28.86 AC

APPROXIMATE SITE ELEVATION: ±563'

LEASE AREA: ±34.14 AC

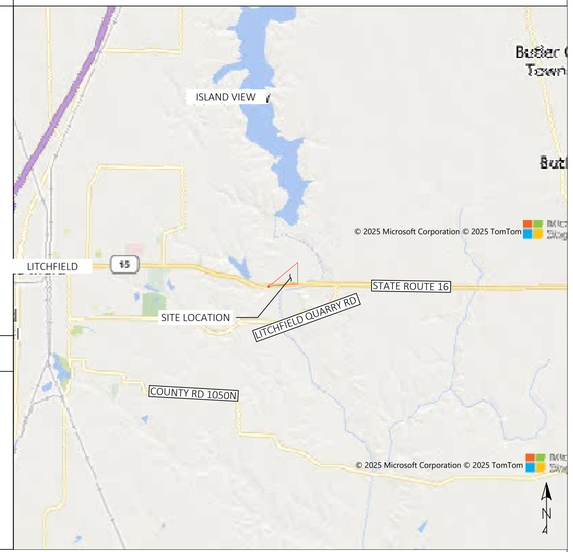
SETBACKS

MINIMUM YARD SETBACK	REQUIRED	PROPOSED
FRONT:	50'	MIN. 50'
SIDE 1 NORTH:	50'	MIN. 50'
SIDE 2 SOUTH:	50'	MIN. 50'
REAR:	50'	MIN. 50'
RIGHT OF WAY:	50'	MIN. 50'
FROM RESIDENCE:	150'	MIN. 150'
MAXIMUM BUILDING HEIGHT	N/A	~12'

*SETBACKS ARE BASED ON MONTGOMERY COUNTY SOLAR ORDINANCE

VICINITY MAP

SCALE: 1" = 5,000'



APPLICABLE CODES AND STANDARDS

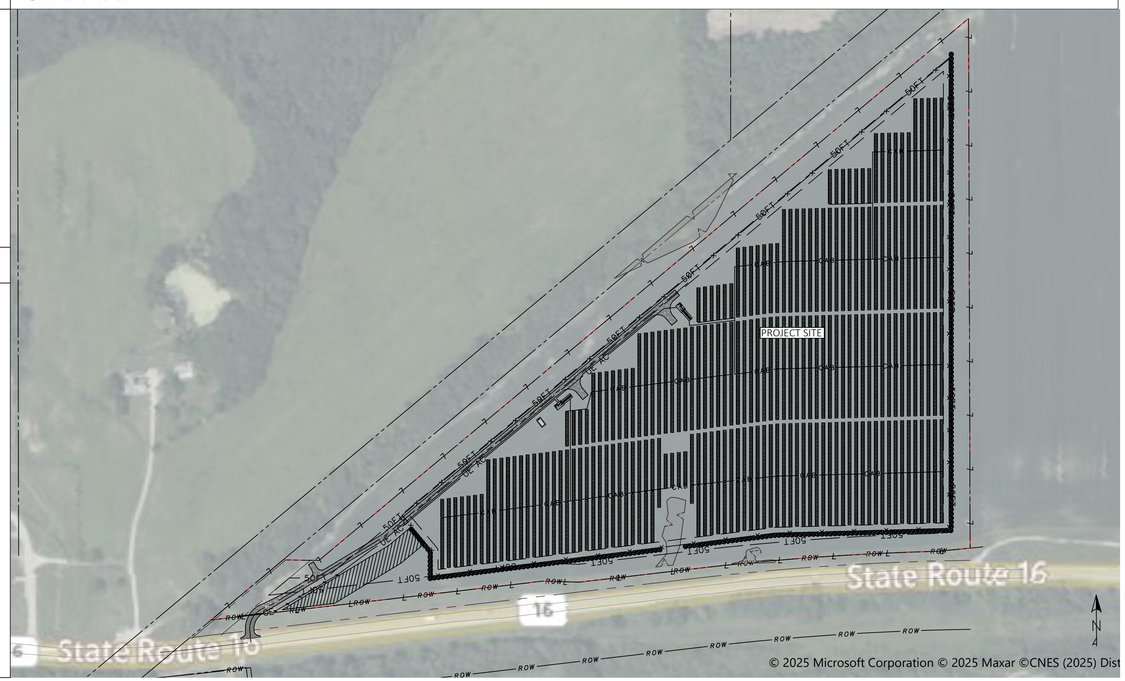
-COUNTY CODE REQUIREMENTS
-SPECIAL USE PERMIT REQUIREMENTS
-DOT DEVELOPMENT STANDARDS
-ILLINOIS PUBLIC ACT 102-1123
-AIMA AGREEMENT

ABBREVIATIONS

AHJ	AUTHORITY HAVING JURISDICTION	IRS	INTER ROW SPACING
APPROX	APPROXIMATELY	LAT	LATITUDE
BLDG	BUILDING	LONG	LONGITUDE
CBW	COLLECTOR BANDWIDTH	MOD	MODULES
CL	CENTERLINE	NEC	NATIONAL ELECTRICAL CODE
CMP	CORRUGATED METAL PIPE	NTS	NOT TO SCALE
DEMO	DEMOLISH	OAE	OR APPROVED EQUAL
DIA	DIAMETER	OC	ON CENTER
EL/ELEV	ELEVATION	OD	OUTSIDE DIAMETER
EX	EXISTING	PAG	POST ABOVE GRADE
FT	FIXED TILT	POI	POINT OF INTERCONNECTION
GALV	GALVANIZED	PV	PHOTOVOLTATIC
GCR	GROUND COVERAGE RATIO	PVC	POLY VINYL CHLORIDE
HDPE	HIGH DENSITY POLYETHYLENE	SAT	SINGLE AXIS TRACKER
ID	INSIDE DIAMETER	SCH	SCHEDULE
IN	INCHES	TTH	TORQUE TUBE HEIGHT
IFC	INTERNATIONAL FIRE CODE	TYP	TYPICAL
ILR	INVERTER LOADING RATIO		
INV	INVERT		

SITE MAP

SCALE: 1" = 200'



DRAWING INDEX

PROJECT DIRECTORY

PROJECT OWNER/APPLICANT
MONTGOMERY IL SOLAR 1, LLC

LANDOWNER:
DUSTIN ELLINGER

AUTHORITY HAVING JURISDICTION
MONTGOMERY COUNTY

ELECTRICAL UTILITY
AMEREN

EPC

CIVIL ENGINEER
DALE JOHNSON, PE

SURVEYOR:
WIGHTMAN

REV	BY	DESCRIPTION	DATE
0	AWS	30% CIVIL SET	03/21/25
1	AMA	REFRESH / SITE PLAN SYNC	05/22/25

DRAWING ISSUE: ☑ PRELIMINARY ☐ PERMITTING ☐ BID ☐ CONSTRUCTION ☐ AS-BUILT ☐ OTHER

SUMMIT RIDGE ENERGY
1000 WILSON BLVD, SUITE 2400
ARLINGTON, VA 22209
WWW.SRENERGY.COM

PE SEAL/CONSULTANT: LICENSED PROFESSIONAL ENGINEER — DALE E. JOHNSON — 062-072744 — OF ILLINOIS

PROJECT: MONTGOMERY - ELLINGER
EAST ILLINOIS ROUTE 16,
LITCHFIELD, ILLINOIS 62056
LAT/LONG: 39.175908, -89.601318
STATE: ILLINOIS
UTILITY: AMEREN
AHJ: MONTGOMERY COUNTY

DRAWING TITLE: COVER SHEET

DWG NO. C-01

NOTES:

1. PARCEL BOUNDARY LINE AND EXISTING CONDITIONS ARE BASED ON ALTA SURVEY PREPARED BY WIGHTMAN ON JULY 3, 2024.
2. WETLAND DELINEATION HAVE BEEN REFERENCED FROM WETLAND SURVEY PREPARED BY EOR ON JULY 2, 2024.
3. PER FLOOD HAZARD BOUNDARY MAP (COMMUNITY PANEL NUMBER 170992 005 A EFFECTIVE DATE JANUARY 9, 1981) THE SURVEYED PARCEL DOES NOT LIE WITHIN A SPECIAL FLOOD HAZARD AREA.
4. THE SURVEY DATUM FOR THIS PROJECT IS ILLINOIS NAD 1983, STATE PLANE COORDINATE SYSTEM, EAST ZONE.
5. A DRAIN TILE SURVEY WAS NOT AVAILABLE AT THE TIME OF PLAN PREPARATION. HOWEVER, THE EPC SHOULD ANTICIPATE THE PRESENCE OF DRAIN TILES ON THE SITE, PLAN FOR THEIR RELOCATION, AND INCLUDE THE ASSOCIATED COSTS IN THE BID.

ISHMAEL LONA G
PARCEL NO.
10-36-300-002
DOCUMENT NO.
200800043538
(TABLE A, ITEM 13)

H & D LANDS LLC
PARCEL NO. 10-36-300-001

DUSTIN ELLINGER
PARCEL NO. 10-36-300-013

BOWLES J & MARY E
BRADLEY PARCEL NO.
10-36-300-014

DUSTIN ELLINGER
PARCEL NO. 10-36-300-013

H & D LANDS LLC
PARCEL NO.
10-35-400-009
DOCUMENT NO.
201000059371
(TABLE A, ITEM
13)

H & D LANDS LLC
PARCEL NO. 10-35-400-011

ISHMAEL LONA G
PARCEL NO.
10-36-300-011

ENCOTECH-ILLINOIS LLC
PARCEL NO. 15-02-200-021

JEFFREY SCHANTER AND JOYCE PAVIA
PARCEL NO. 15-02-200-008

JEFFREY SCHANTER
PARCEL NO. 15-01-100-019

PROJECT SITE

TOP OF TREE ELEVATION = 655.7'
TOP OF TREE ELEVATION = 660.0'
TOP OF TREE ELEVATION =661.1'
TOP OF TREE ELEVATION = 644.4'
TOP OF TREE ELEVATION = 630.8'
TOP OF TREE ELEVATION = 646.0'
TOP OF TREE ELEVATION = 657.9'
TOP OF TREE ELEVATION = 649.2'
TOP OF POLE ELEVATION = 615.8'

EAST LINE 5' WIDE STRIP AND EAST LINE 50' TIMBER REMOVAL EASEMENTS GRANTED TO ILLINOIS POWER AND LIGHT CORPORATION DOC. NO. 23599 IN BOOK 19, PAGE 362

CULVERT
INVERT = 559.22'

CULVERT
INVERT = 557.82'

EX. WETLAND
PER SURVEY (TYP.)

EAST ILLINOIS ROUTE 16
(R/W VARIES, ±34' ASPHALT ROADWAY)

NORTH LINE, 18" (INCHES) WIDE EASEMENT,
GRANTED TO ILLINOIS CONSOLIDATED TELEPHONE COMPANY
DOC. NO. 197019 IN BOOK 79, PAGE 309
(SBSII, ITEM 29)

VARIED RIGHT OF WAY
DOC. NO. 18147 IN BOOK 150, PAGE 29
(SBSII, ITEM 41)

VARIED RIGHT OF WAY
DOC. NO. 18147 IN BOOK 150, PAGE 29

CONTROL POINT
NORTHING = 913592.260
EASTING =2456602.965
ELEV. = 571.229' (NAVD88)

CONTROL POINT
NORTHING = 913665.785
EASTING =2457408.537
ELEV. = 571.406' (NAVD88)

LEGEND

- PROPERTY LINE
- PROPERTY SETBACK
- EXISTING BUILDING
- LIMITS OF DISTURBANCE
- EX. OVERHEAD POWER LINES
- EX. CONTOUR
- STREAM LINE PER NWI
- EX. TREE LINE
- EX. UNDERGROUND ELEC. LINES
- EX. WATER LINES
- EX. GAS LINES
- EX. COMMUNICATIONS LINES
- EX. RIGHT OF WAY
- EX. WETLANDS

100 FEET 0 100 200 300
Scale: 1"=100'

REV	BY	DESCRIPTION	DATE
0	AWS	30% CIVIL SET	03/21/25
1	AMA	REFRESH / SITE PLAN SYNC	05/22/25

DRAWING ISSUE
☑ PRELIMINARY ☐ PERMITTING ☐ BID ☐ CONSTRUCTION ☐ AS-BUILT ☐ OTHER

SUMMIT RIDGE ENERGY
1000 WILSON BLVD, SUITE 2400
ARLINGTON, VA 22209
WWW.SRENERGY.COM

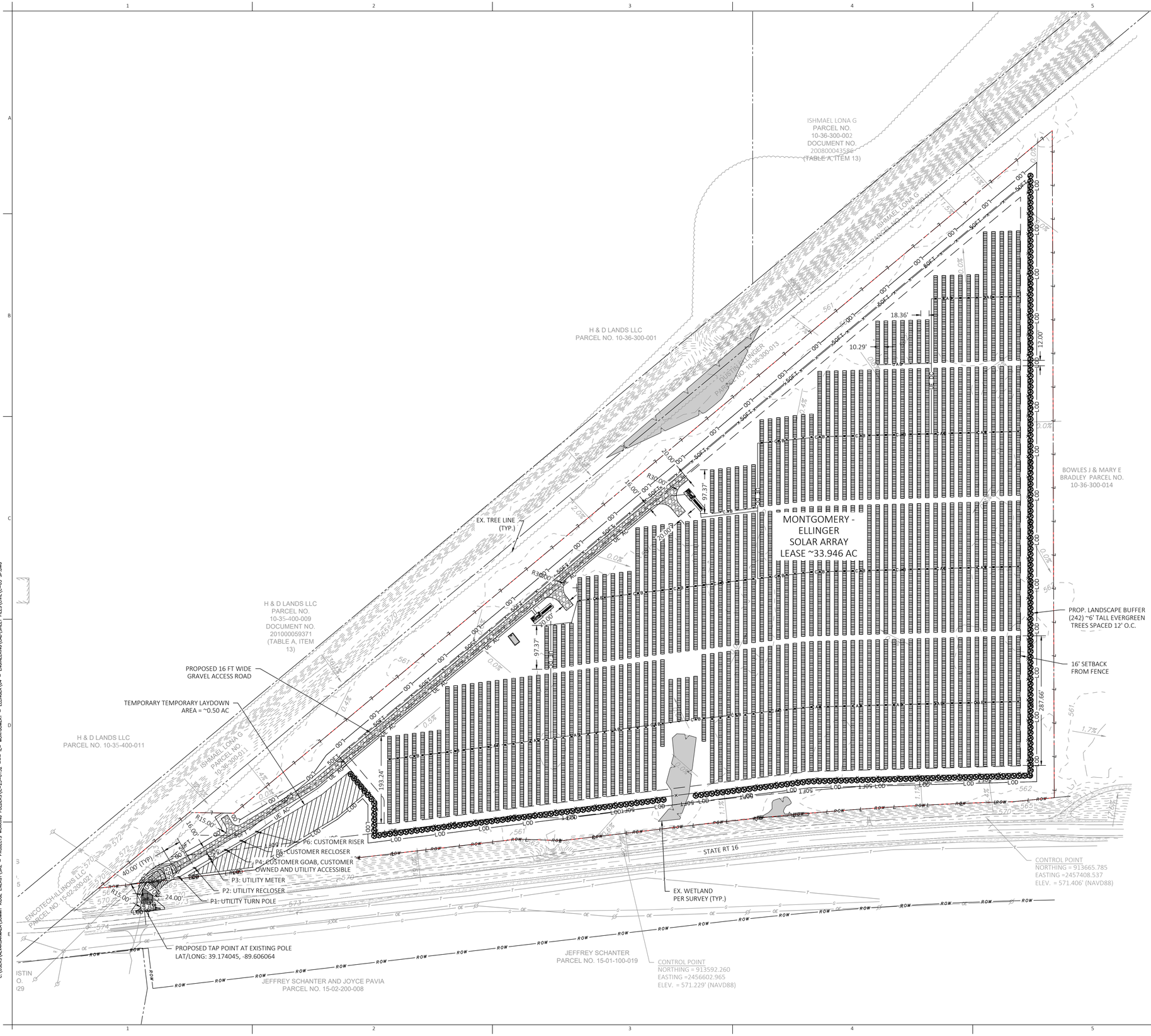
PE SEAL/CONSULTANT:
LICENSED PROFESSIONAL ENGINEER
DALE E. JOHNSON
062-072744
OF ILLINOIS

PROJECT:
MONTGOMERY - ELLINGER
EAST ILLINOIS ROUTE 16,
LITCHFIELD, ILLINOIS 62056
LAT/LONG: 39.175908, -89.601318
STATE: ILLINOIS
UTILITY: AMEREN
AHJ: MONTGOMERY COUNTY

DRAWING TITLE:
EXISTING CONDITIONS PLAN

DWG NO.
C-02

C:\USERS\ALVARONARAN\SUMMIT RIDGE ENERGY\SRE - PROJECTS WORKING FOLDERS\IL-23-0152 ---- IL- MONTGOMERY - ELLINGER\04 - ENGINEERING\CAD\SHEET FILES\CIVIL\C-02 EXLDWG



NOTES:

1. CONTRACTOR SHALL VERIFY SITE CONDITIONS PRIOR TO COMMENCING WORK. THIS WILL INCLUDE TAKING, AT A MINIMUM, PHOTOGRAPHS OF EXISTING PUBLIC ROADWAYS AND SITE FEATURES ONSITE. UPON TERMINATION OF PROJECT, THE PRE-CONSTRUCTION AND POST -CONSTRUCTION PHOTOS OF THE SITE WILL BE PROVIDED IN A SUBMITTAL TO VERIFY NO MAJOR DEGRADATION OF EXISTING INFRASTRUCTURE HAS OCCURRED. IT IS THE CONTRACTORS RESPONSIBILITY TO REMEDY SIGNIFICANT DAMAGE TO EXISTING INFRASTRUCTURE AND SHOULD BE ACCOUNTED FOR IN THE BID.
2. STABILIZE ALL DISTURBED AREAS IN ACCORDANCE WITH PROJECT REQUIREMENTS.
3. POINT OF INTERCONNECTION POLE SERIES TO BE DESIGNED IN ACCORDANCE WITH ELECTRICAL UTILITY STANDARDS.
4. SYSTEM SHALL BE FULLY ENCLOSED AND SECURED BY A FENCE WITH A MINIMUM HEIGHT OF 7 FEET.
5. PROVIDE A KNOX BOX AT THE ENTRANCE GATE FOR EMERGENCY PERSONNEL ACCESS.
6. PROVIDE SIGNAGE AT ENTRY GATE AND ALONG PERIMETER TO THE PROJECT WITH 911 ADDRESS AND 24 HOUR EMERGENCY CONTACT NUMBER.
7. THE PRELIMINARY EARTHWORK QUANTITIES FOR THE SITE ARE SPECIFIC TO THE BEGINNING PORTION OF THE DRIVEWAY. THE EARTHWORK SUMMARY IS 0 CY CUT, 500 CY FILL, AND 500 CY NET FILL. THIS ESTIMATE IS BASED ON A DIRECT COMPARISON BETWEEN EXISTING AND PROPOSED GRADES, WITH NO ADJUSTMENTS MADE FOR SHRINK/SWELL (1:1) OR VARYING MATERIAL TYPES. THE REMAINDER OF THE DRIVEWAY IS ASSUMED TO BE AT GRADE, WITH ONLY MINOR ADJUSTMENTS FOR TOPSOIL REMOVAL. EPC IS RESPONSIBLE FOR PREPARING AN INDEPENDENT QUANTITY TAKEOFF TO BASE THEIR BID.

811 SAFETY IS IN YOUR HANDS. EVERY DIG. EVERY TIME.

LEGEND

- PROPERTY LINE
- PROPERTY SETBACK
- PROPOSED FENCE LINE
- PROPOSED LEASE LINE
- EXISTING BUILDING
- LIMITS OF DISTURBANCE
- EX. OVERHEAD POWER LINES
- EX. CONTOUR
- STREAM LINE PER NWI
- EX. TREE LINE
- EX. UNDERGROUND ELEC. LINES
- EX. WATER LINES
- EX. GAS LINES
- EX. COMMUNICATIONS LINES
- EX. RIGHT OF WAY
- FENCE GATE
- STORAGE SHED

100 FEET 0 100 200 300

Scale: 1"=100'

REV	BY	DESCRIPTION	DATE
0	AWS	30% CIVIL SET	03/21/25
1	AMA	REFRESH / SITE PLAN SYNC	05/22/25

DRAWING ISSUE
- ☑ PRELIMINARY
- ☐ PERMITTING
- ☐ BID
- ☐ CONSTRUCTION
- ☐ AS-BUILT
- ☐ OTHER

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PE SEAL/CONSULTANT:
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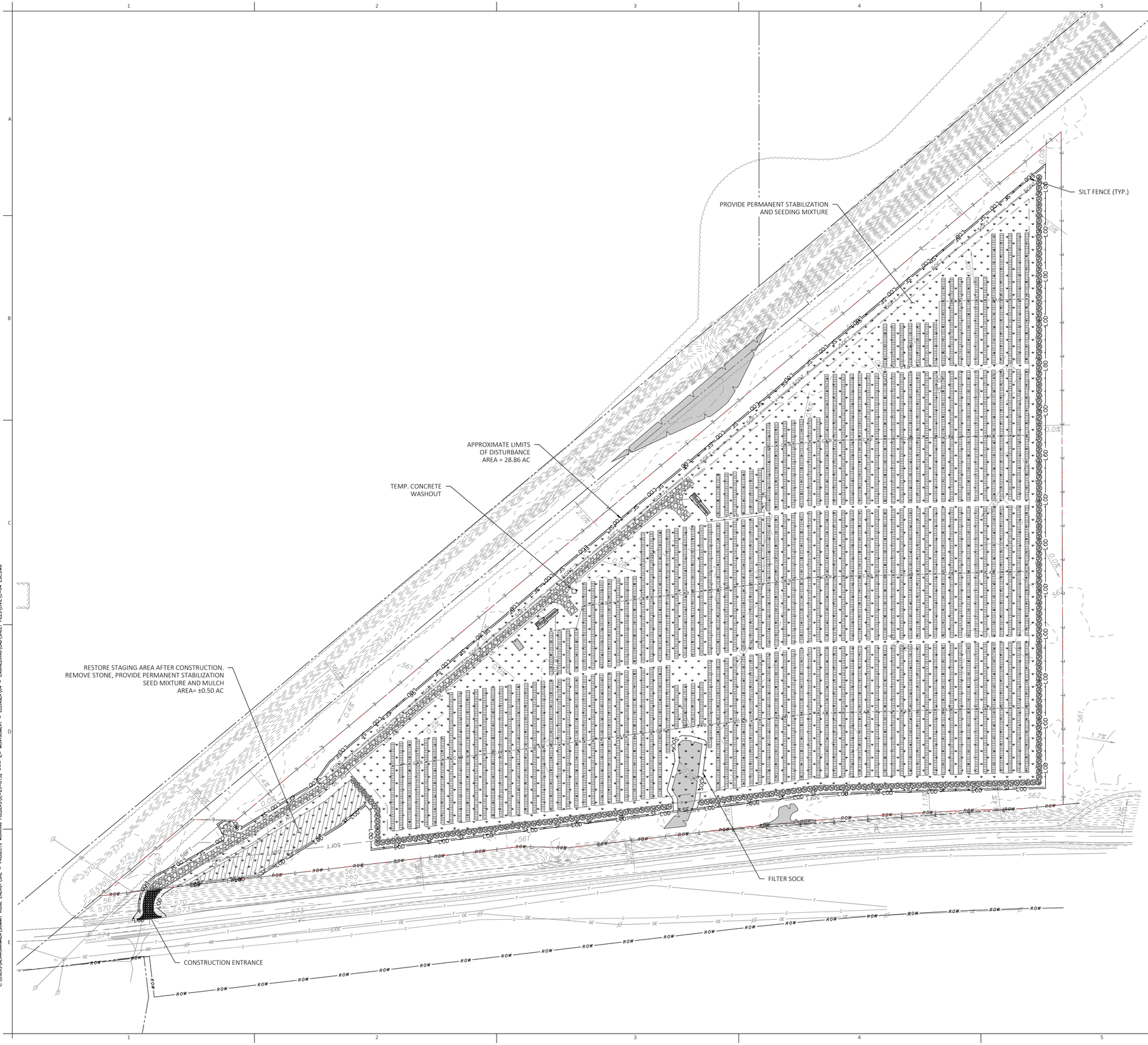
OF ILLINOIS

PROJECT:
MONTGOMERY - ELLINGER
EAST ILLINOIS ROUTE 16,
LITCHFIELD, ILLINOIS 62056
LAT/LONG: 39.175908, -89.601318
STATE: ILLINOIS
UTILITY: AMEREN
AHJ: MONTGOMERY COUNTY

DRAWING TITLE:
SITE PLAN

DWG NO.
C-03

C:\USERS\ALVARORANZA\SUMMIT RIDGE ENERGY\SRE - PROJECTS WORKING FOLDERS\IL-23-0152 ---- IL- MONTGOMERY - ELLINGER\04 - ENGINEERING\CAD\SHEET FILES\CIVIL\C-03 SP.DWG



NOTES:

1. THIS DRAWINGS ILLUSTRATES THE PROPOSED LAYOUT FOR BEST MANAGEMENT PRACTICES (BMPs) TO CONTROL EROSION AND SEDIMENT AT THE PROJECT SITE. ACTUAL CONFIGURATIONS MAY VARY SOMEWHAT FROM WHAT IS ILLUSTRATED TO FACILITATE CONSTRUCTION ACCESS AND PHASING. CONTRACTOR TO ENSURE ALL MEASURES ARE INSTALLED AND WORKING CORRECTLY.
2. ESTABLISH PERIMETER SEDIMENT CONTROL MEASURES AND CONSTRUCTION PRIOR TO LAND DISTURBING ACTIVITIES.
3. DURING CONSTRUCTION THE GRAVEL DRIVEWAY BASE COURSE CAN BE INSTALLED TO FACILITATE SITE ACCESS. ONCE CONSTRUCTION IS COMPLETE, REPAIR AREAS OF BASE STONE AS NEEDED AND INSTALL TOP COURSE OF AGGREGATE PER THE APPROVED DRIVE DETAIL.
4. THE EPC CONTRACTOR SHALL PROVIDE A QUALIFIED PERSON FOR THE INSPECTIONS OF THE ESC MEASURES AT A MINIMUM OF EVERY 7 DAYS AND WITHIN 2 HOURS OF A ½ INCH OR GREATER RAINFALL /SNOWFALL EVENT. MAINTAIN AN INSPECTION REPORT ONSITE.
5. CLEAR THE SEDIMENT FROM THE PERIMETER SEDIMENT CONTROL MEASURES WHEN IT REACHES ⅓ THE HEIGHT OF THE CONTROL MEASURES.
6. THE EROSION AND SEDIMENT CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL THE SITE IS STABILIZED AND REMOVAL IS ALLOWED BY THE AHJ.
7. NO EXCAVATION SHALL REMAIN OPEN BEYOND EACH WORK DAY. IF AN EXCAVATION IS LEFT OVERNIGHT PROVIDE ADEQUATE ESC AND SAFETY MEASURES.
8. PROVIDE SILT FENCE AROUND SOIL STOCKPILES AND ENSURE NO GREATER THAN A 2:1 SIDE SLOPE.
9. APPLY WATER FOR DUST CONTROL AS NEEDED
10. REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES WITHIN 30 DAYS AFTER ACHIEVING FINAL STABILIZATION. UPON REMOVAL OF PERIMETER SEDIMENT CONTROL MEASURES, SMOOTH THE GRADE AND SEED AND STABILIZE REMAINING DISTURBED AREAS.

VEGETATIVE MAINTENANCE PLAN

THE OPERATION AND MAINTENANCE (O&M) OF ONSITE VEGETATION WILL OCCUR AT THE FREQUENCY OF APPROXIMATELY 2-3 TIMES PER YEAR. THE CONTRACTOR WILL ADJUST SITE MAINTENANCE FREQUENCY BASED ON TIME OF YEAR AND WEATHER CONDITIONS. TO AVOID RUTTING, EROSION, AND SOIL COMPACTION, WEATHER FORECASTS WILL BE CONSULTED AND ON-SITE FIELD INSPECTIONS WILL BE CONDUCTED PRIOR TO MOWING OR CUTTING TO ENSURE THAT THESE PRACTICES OCCUR WHEN THE SITE IS ABLE TO WITHSTAND THIS TYPE OF ACTIVITY. O&M ACTIVITIES INCLUDE THE FOLLOWING:

- PERIMETER MAINTENANCE - THE PERIMETER FENCE LINE WILL BE INSPECTED FOR TRASH AND DEBRIS. COLLECT ITEMS AND DISPOSED OF OFFSITE AT AN APPROPRIATE DISPOSAL SITE. VEGETATIVE GROWTH ALONG THE FENCE LINE WILL ALSO BE TRIMMED AND MAINTAINED TO PREVENT THE GROWTH OF WEEDS OR TALL GRASSES AND COMPLY WITH SAFETY/FIRE REGULATIONS.
- MOWING - MOWING IS A THREE-STEP PROCESS. FIRST, THE MOWER OR BUSH HOG TRIMS THE LARGE AREAS. SECOND, TRIMMERS/WEED WACKERS ARE USED TO CUT AROUND STRUCTURAL ELEMENTS AND OTHER PLACES THE MOWER COULDN'T REACH, TAKING CARE NOT TO DAMAGE ANY CONDUITS. FINALLY, ANY VEGETATION THAT WAS THROWN AND ADHERED TO THE MODULES WILL BE CLEANED. SPOT-MOWING IS RECOMMENDED FOR REDUCING INVASIVE PLANTS WHILE NATIVE SPECIES ARE BECOMING ESTABLISHED. SPOT-MOWING SHOULD BE DONE AT A RAISED HEIGHT TO AVOID DAMAGING NATIVE PLANTS.
- SITE INSPECTIONS - DURING EACH MAINTENANCE VISIT, THE SITE WILL BE INSPECTED FOR SIGNS OF EROSION. ANY AREAS OF CONCERN WILL BE IMMEDIATELY COMMUNICATED TO THE PROJECT OWNER/DEVELOPER TO EVALUATE AND IMPLEMENT CORRECTIVE MEASURES. SHOULD THE CONTRACTOR OBSERVE A NON-TYPICAL CONDITION OR CHANGE IN SITE CONDITIONS, THE PROJECT OWNER/DEVELOPER WILL BE IMMEDIATELY NOTIFIED.
- ACCESS ROAD MAINTENANCE - DURING MAINTENANCE ACTIVITIES, THE ACCESS ROAD WILL BE INSPECTED AND MAINTAINED TO ENSURE THAT VEGETATIVE CREEP DOES NOT OCCUR. THIS WILL INCLUDE THE MOWING OF AT LEAST A 3-FOOT STRIP PARALLELING EACH SIDE OF THE ROAD. ADDITIONALLY, ANY OBSERVED VEGETATIVE CREEP WITHIN THE ROAD WILL BE REMOVED.

PROPOSED PERMANENT SEED MIXTURE
(OR APPROVED EQUAL)

ERNST SEEDS

Ernst Conservation Seeds
8884 Mercer Pike
Meadville, PA 16335
(800) 873-3321 Fax (814) 336-5191
www.ernstseed.com

Date: November 22, 2024

Ernst Solar Farm Seed Mix - ERNMX-186

	Botanical Name	Common Name	Price/Lb
45.50 %	*Festuca rubra*	Creeping Red Fescue	3.30
15.00 %	*Festuca longifolia, 'Sturgeon'*	Hard Fescue, 'Sturgeon'	5.10
15.00 %	*Festuca longifolia, 'Sword II'*	Hard Fescue, 'Sword II'	5.10
10.00 %	*Festuca rubra ssp. commutata*	Chewings Fescue	5.04
5.00 %	*Poa pratensis, 'Navy'*	Kentucky Bluegrass, 'Navy'	3.78
5.00 %	*Poa pratensis, 'Wildhorse'*	Kentucky Bluegrass, 'Wildhorse'	3.78
4.50 %	*Trifolium repens, Dutch*	White Clover, Dutch	8.40
100.00 %		**Mix Price/Lb Bulk:**	**$4.29**

Seeding Rate: 4 lb per 1,000 sq ft

Grasses & Grass-like Species - Herbaceous Perennial; Lawn & Turfgrass Sites; Solar Sites

Provide a 2' clearance between the ground and the solar panels. Mix formulations are subject to change without notice depending on the availability of existing and new products. While the formula may change, the guiding philosophy and function of the mix will

LEGEND

- PROPERTY LINE
- PROPERTY SETBACK (50FT — 50FT)
- LIMITS OF DISTURBANCE (LOD — LOD)
- SOIL BOUNDARIES PER NRCS
- SILT FENCE (SF — SF — SF — SF)
- CONSTRUCTION MATTING
- FILTER SOCK (SOCK)
- CONSTRUCTION ENTRANCE
- STAGING AREA
- PERMANENT SEEDED AREA
- DRAINAGE DIVIDE

100 FEET 0 100 200 300

Scale: 1"=100'

REV	BY	DESCRIPTION	DATE
0	AWS	30% CIVIL SET	03/21/25
1	AMA	REFRESH / SITE PLAN SYNC	05/22/25

DRAWING ISSUE
☑ PRELIMINARY ☐ PERMITTING ☐ BID ☐ CONSTRUCTION ☐ AS-BUILT ☐ OTHER

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PROJECT:
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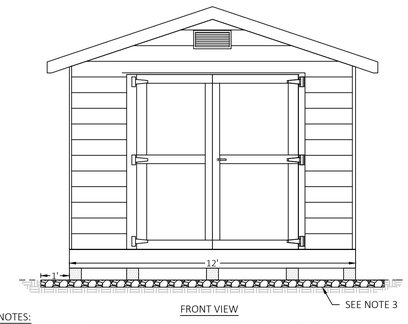
EAST ILLINOIS ROUTE 16,
LITCHFIELD, ILLINOIS 62056
LAT/LONG: 39.175908, -89.601318
STATE: ILLINOIS
UTILITY: AMEREN
AHJ: MONTGOMERY COUNTY

DRAWING TITLE:
EROSION & SEDIMENT CONTROL PLAN

DWG NO.
C-04

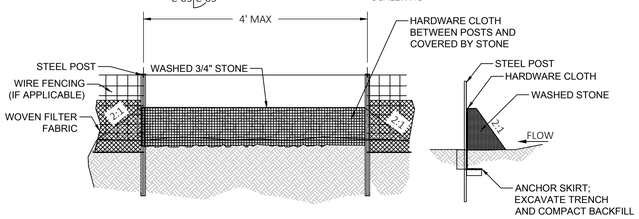
C:\USERS\ALVARAHMAD\SUMMIT RIDGE ENERGY\SRE - PROJECTS WORKING FOLDERS\IL-23-0152 ---- IL- MONTGOMERY - ELLINGER\IN4 - ENGINEERING\CAD\SHEET FILES\CIVIL\C-04 ESC.DWG



FRONT VIEW

NOTES:
1. PROVIDE A 12'x16' PREFABRICATED WOOD SHED FOR PROJECTS THAT ARE 1-2 MW AC SIZE AND A 12'x24' SHED FOR PROJECTS 2-5 MW AC. MANUFACTURER TO BE COUNTRYSIDE BARNS INC, OR APPROVED EQUAL.
2. PROVIDE A METAL ROOF, VINYL SIDING, 6' WIDE DOUBLE SWING DOORS, AND RUBBER FLOOR MATTING.
3. PLACE SHED ON A 5" DEPTH CRUSHED GRAVEL BED EXTENDED 1' MIN. OUTSIDE OF SHED FOOTPRINT. IF A PROJECT HAS ALREADY RECEIVED LOCAL/STATE PERMIT APPROVAL WITHOUT A SHED SHOWN ON APPROVED PLAN, REPLACE THE STONE WITH WITH CONCRETE BLOCKS SUPPORTS (TO AVOID ADDING ADDITIONAL IMPERVIOUS AREA).
4. ALL EXTERIOR EXPOSED LUMBER TO BE PRESSURE TREATED OR PER MANUFACTURER.
5. ENSURE AT LEAST 2% GRADE IS PROVIDED AWAY FROM THE SHED ON ALL SIDES. PROVIDE WATERTIGHT STRUCTURE.
6. METAL CONEX BOX MAY BE USED AS A SUBSTITUTE WITH APPROVAL FROM THE OWNER.

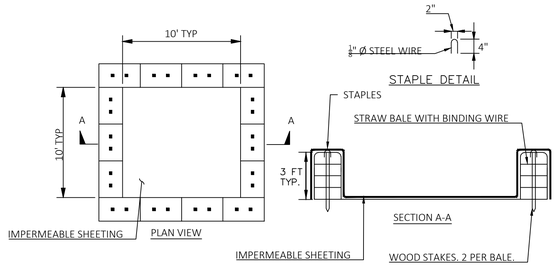
01 STORAGE SHED
C-03 C-05 SCALE: NTS



NOTES:
1. SEDIMENT FILTER OUTLET AND HARDWARE CLOTH SHALL BE 16 INCHES HIGH BUT NO TALLER THAN 18 INCHES.
2. HARDWARE CLOTH SHALL BE ANCHORED TO THE STEEL POSTS SECURELY USING APPROPRIATE ANCHORS. HARDWARE CLOTH SHALL BE KEYED IN A MINIMUM OF 12 INCHES IN LENGTH AND BACKFILLED PROPERLY AS SHOWN IN ABOVE DETAIL.
3. POSTS SHALL BE NO MORE THAN 4 FEET APART.
4. SITE OUTLETS AT ANY POINT SMALL CONCENTRATED FLOWS ARE ANTICIPATED AND AT THE DIRECTION OF THE INSPECTOR. ONE ACRE MAXIMUM DRAINAGE AREA PER OUTLET.

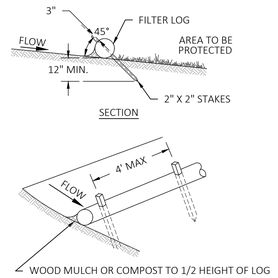
MAINTENANCE NOTES:
1. FILTER OUTLETS SHALL BE INSPECTED BY THE FINANCIALLY RESPONSIBLE PARTY OR HIS AGENT IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS NEEDED SHALL BE MADE IMMEDIATELY.
2. THE STONE SHALL BE REPLACED PROMPTLY AFTER ANY EVENT THAT HAS CLOGGED OR REMOVED IT.
3. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN DEPOSITS REACH HALF THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OUTLET IS REMOVED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

06 SILT FENCE STONE OUTLET
C-04 C-05 SCALE: NTS



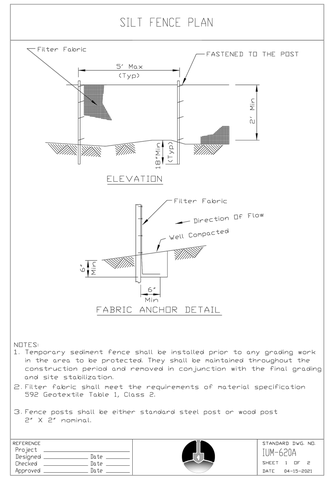
NOTES:
1. CONCRETE WASHOUT AREAS ARE TO BE INSTALLED AT ENTRANCE, LAYDOWN AREA, OR WHERE CONCRETE IS USED FOR THE PROJECT. THE CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON THE SITE.
2. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE WASHOUT AREA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT AREA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
3. THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
4. AT THE END OF CONSTRUCTION, REMOVE ALL CONCRETE, COVER THE DISTURBED AREA WITH TOPSOIL, DRILL SEED AND CRIMP MULCH OR OTHERWISE STABILIZE IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

02 ONSITE CONCRETE WASHOUT STRUCTURE
C-04 C-05 SCALE: NTS

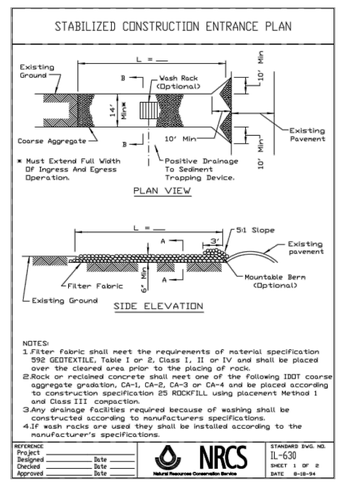


NOTES:
1. FILTER LOGS TO BE WOOD MULCHED OR TRENCHED INTO GROUND. IF OPTING FOR THE TRENCH INSTALLATION, THE LOGS SHALL NOT BE SMALLER THAN 12 INCHES IN DIAMETER.
2. LOGS TO BE FILLED WITH BIODEGRADABLE COMPOST MATERIAL.
3. WOODEN STAKES SHALL BE PLACED DOWNSLOPE OF THE FILTER LOG.
4. EPC TO ENSURE NO CONFLICTS WITH WOODEN STAKES AND EXISTING DRAIN TILES.

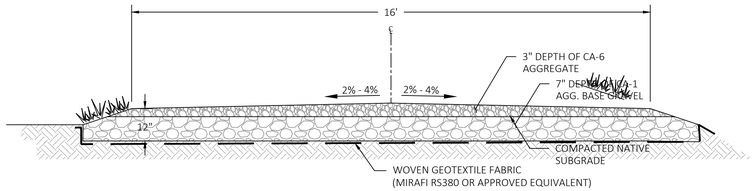
03 FILTER LOG/SOCK
C-04 C-05 SCALE: NTS



04 SILT FENCE
C-04 C-05 SCALE: NTS

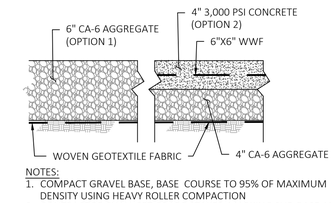


05 STABILIZED CONSTRUCTION ENTRANCE
C-04 C-05 SCALE: NTS



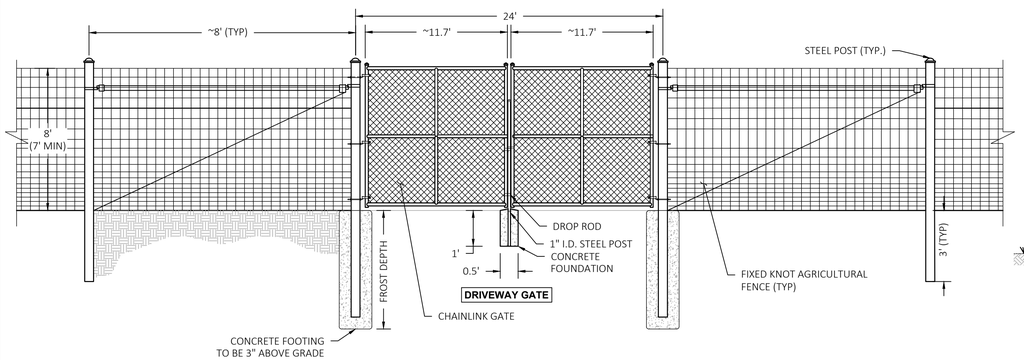
NOTES:
1. EXCAVATE/REMOVE APPROXIMATELY 6 INCHES OF EXISTING TOPSOIL IN DRIVEWAY AREA AND USE IN SUPPORT OF STABILIZING ROADWAY SHOULDERS.
2. GRAVEL SURFACE SHALL SLOPE DOWN FROM EAST TO WEST A MINIMUM OF 2% AND A MAXIMUM OF 4% AS INDICATED.
3. COMPACT SUBGRADE IN ACCORDANCE WITH PROJECT SPECIFICATIONS OR AT A MINIMUM COMPACT EXISTING SUBGRADE TO 95% OF THE MAXIMUM DRY DENSITY AND ±2% OF OPTIMUM MOISTURE CONTENT USING A STANDARD SOIL PROCTOR (ASTM D698). PROOFROLL SUBGRADE PER PROJECT REQUIREMENTS.
4. GRAVEL DRIVEWAY SECTIONS SHALL CONFORM WITH RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER'S REPORT IF PREPARED. CONSULT OWNER IF CONTRADICTIONS BETWEEN THIS DETAIL AND GEOTECHNICAL RECOMMENDATIONS. .

07 TYPICAL GRAVEL ACCESS DRIVEWAY SECTION
C-03 C-05 SCALE: NTS



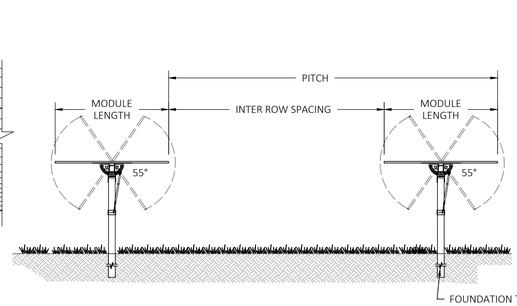
NOTES:
1. COMPACT GRAVEL BASE, BASE COURSE TO 95% OF MAXIMUM DENSITY USING HEAVY ROLLER COMPACTION
2. CONTRACTOR SHALL SET GRADE STAKES MARKING SUB-BASE AND FINISH GRADE ELEVATIONS FOR CONSTRUCTION REFERENCE.

08 INVERTER EQUIPMENT PAD SECTION
C-03 C-05 SCALE: NTS



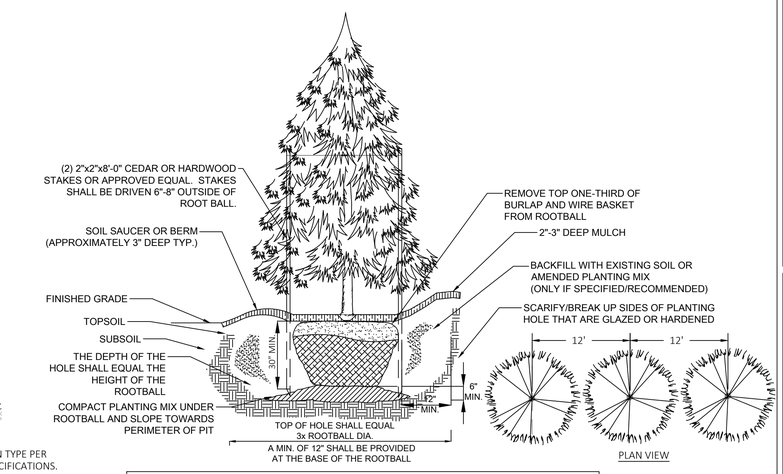
NOTES:
1. PROVIDE H-BRACE POST AT ALL FENCE TERMINATIONS AND CORNERS.
2. LINE POSTS TO BE SPACED 12 FOOT O.C..
3. TERMINAL POSTS SHALL BE 2.5" DIAMETER SCH40 WHILE LINE POSTS SHALL BE 2" DIAMETER SCH40.
4. PROVIDE FIXED AGRIC. KNOT FENCE OR APPROVED EQUAL.
5. PLACE SIGNAGE ON GATES FOR HAZARD/EMERGENCY AS REQD.
6. PROVIDE PROVISIONS FOR KNOX LOCK ON ALL GATES.
7. DETAIL PROVIDED FOR REFERENCE FINAL DESIGN TO BE COORDINATED DURING SHOP DRAWING REVIEW
8. DETAIL PROVIDED FOR REFERENCE PURPOSES; FINAL DESIGN BY FENCING SUPPLIER AND APPROVED BY OWNER.
9. POST TO EXTEND TO FROST DEPTH AT A MINIMUM.

09 PERIMETER FENCE
C-03 C-05 SCALE: NTS



NOTES
1. ARRAY FIELD TO BE RESTORED TO STABILIZED CONDITION IN ACCORDANCE WITH PROJECT REQUIREMENTS.
2. PANEL SPACING MAY VARY, SEE SITE PLAN FOR SPACING REQUIREMENTS.
3. RACKING IS SHOWN FOR REFERENCE PURPOSES AND IS BASED ON THE SOLAR FLEX RACK SYSTEM.
4. SYSTEM TILT IS APPROXIMATELY 55 DEGREES AS PROVIDED BY THE MANUFACTURER.

10 SINGLE AXIS TRACKER SOLAR RACKING SYSTEM (TYP)
C-03 C-05 SCALE: NTS



PLANT SCHEDULE					
TREES	QTY	BOTANICAL / COMMON NAME	SIZE[1]	SIZE[2]	ROOT
TT	242	THUJA OCCIDENTALIS / TECHNY ARBORVITAE	3-4' HT	15-20'	B&B

1. AT THE TIME OF PLANTING
2. MATURE HEIGHT (PLANTINGS SHOWN OR APPROVED EQUAL*

NOTES:
1. TREES SHALL REACH A MATURE HEIGHT OF TWENTY (20) FEET.
2. TREE DETAIL PROVIDED FOR REFERENCE PURPOSES ONLY. EXACT SPECIES TO BE VERIFIED DURING DETAIL DESIGN.
3. PLANT IN SINGLE ROW SUCH THAT SPACING SHOULD BE BASED ON THE AVERAGE DIAMETER OF THE PLANTS AT MATURITY. EACH
4. TREE PLANTING SHALL BEAR SAME RELATIONSHIP TO FINISH GRADE AS IT WAS PRE-DUG IN THE NURSERY.
5. IT IS NOT RECOMMENDED TO AMEND THE EXISTING SOIL BEFORE BACKFILLING THE HOLE UNLESS SOIL CONDITIONS ARE POOR FOR PLANTING. WATER THOROUGHLY TO HELP ENSURE THE REMOVAL OF AIR POCKETS AND PROPERLY SET THE TREE.

11 EVERGREEN TREE PLANTING DETAIL
C-03 C-05 SCALE: NTS

REV	BY	DESCRIPTION	DATE
0	AWS	30% CIVIL SET	03/21/25
1	AMA	REFRESH / SITE PLAN SYNC	05/22/25

DRAWING ISSUE
☑ PRELIMINARY ☐ PERMITTING ☐ BID ☐ CONSTRUCTION ☐ AS-BUILT ☐ OTHER

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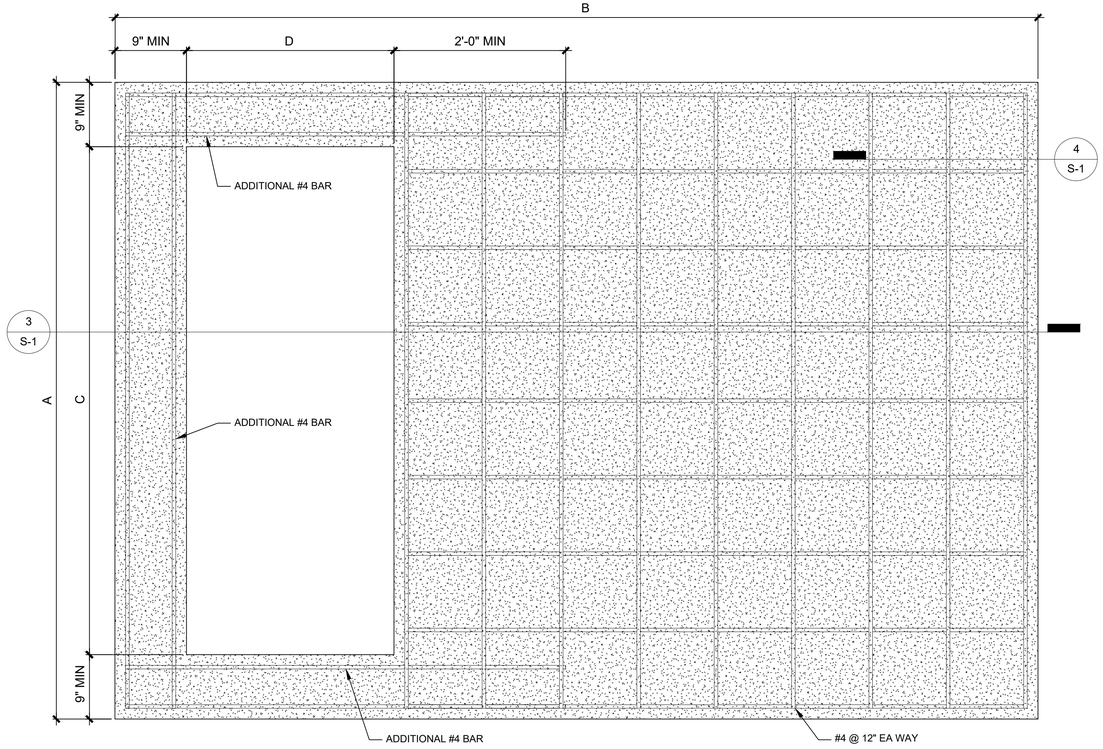
PE SEAL/CONSULTANT:
LICENSED PROFESSIONAL ENGINEER
DALE E. JOHNSON
062-072744
OF ILLINOIS

PROJECT:
MONTGOMERY - ELLINGER
EAST ILLINOIS ROUTE 16,
LITCHFIELD, ILLINOIS 62056
LAT/LONG: 39.175908, -89.601318
UTILITY: AMEREN
AHJ: MONTGOMERY COUNTY
STATE: ILLINOIS

DRAWING TITLE:
CIVIL DETAILS

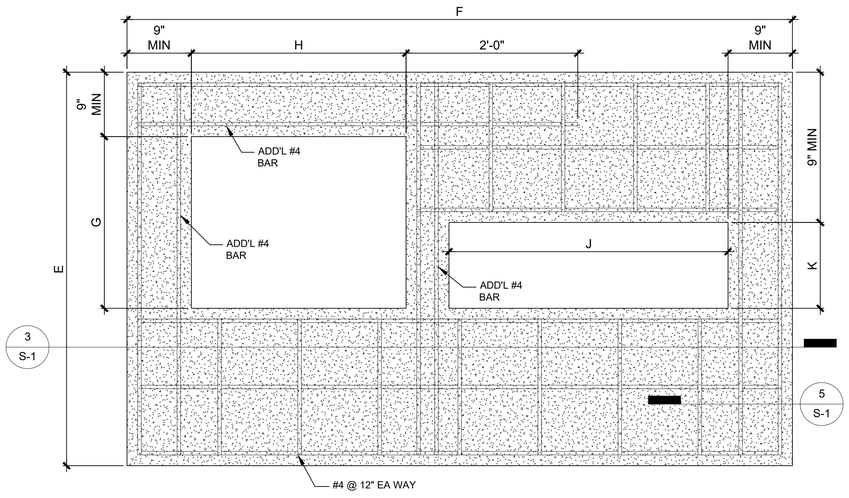
DWG NO.
C-05

C:\USERS\ALWARAMAN2\SUMMIT RIDGE ENERGY\SRE - PROJECTS WORKING FOLDERS\IL-23-0152 ---- IL- MONTGOMERY - ELLINGER\04 - ENGINEERING\CAD\SHEET FILES\DWG\C-05 DT.DWG



TRANSFORMER PAD - PLAN VIEW

SCALE: NTS



SWITCHBOARD PAD - PLAN VIEW

SCALE: NTS

EQUIPMENT / RACKING / FENCING GENERAL NOTES:

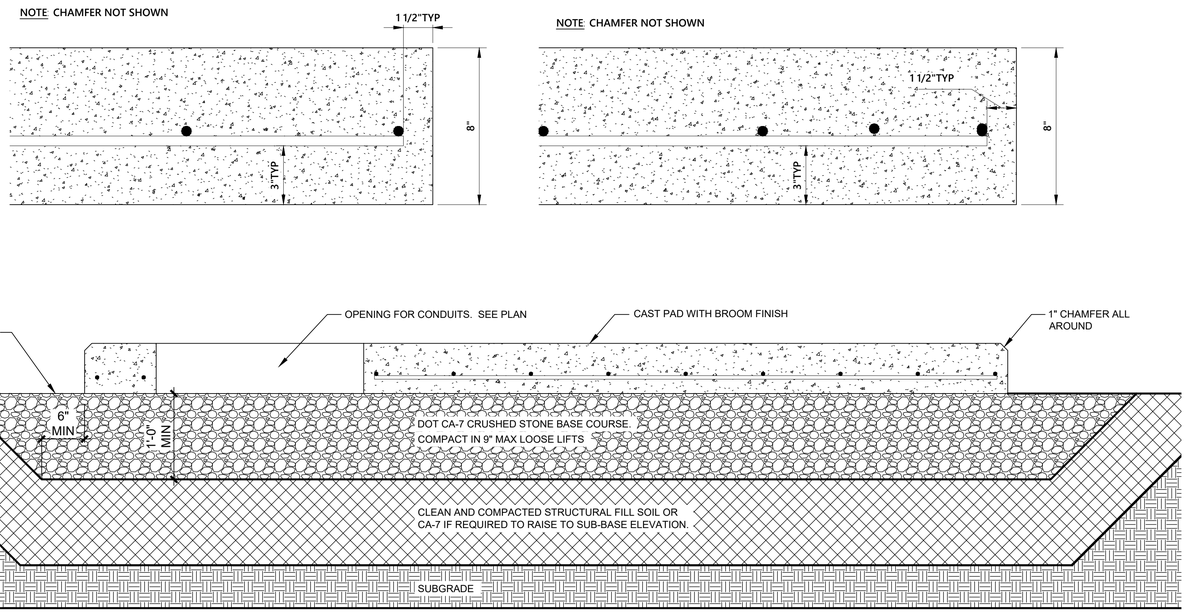
1. MINIMUM WEEKLY REPORTING REQUIREMENTS:
   - 1.1. JHA, JSA FOR THE DAY / WEEKLY
   - 1.2. TOOLBOX SAFETY TALK TOPIC AND SIGN IN SHEET (WEEKLY).
   - 1.3. TASKS IN PROGRESS FOR THE DAY OR WEEK.
   - 1.4. PERCENTAGE COMPLETE OF MILESTONE TASKS, PILES, RACKING, MODULE INSTALL, EQUIPMENT PAD INSTALL, ELECTRICAL EQUIPMENT INSTALL, WIRE MANAGEMENT, MV RUNS.
   - 1.5. SWPPP REPORTS AS NECESSARY PER MANAGEMENT OF THE PERMIT.
   - 1.6. ENDANGERED SPECIES REPORTS AS REQUIRED BY THE REGULATORY AGENCIES.
2. PHOTOS: IT IS SIGNIFICANT THAT EACH PORTION OF ALL INSTALLATION MEASURES IS PHOTOGRAPHED TO BACK UP INSTALLATION QUALITY. PLEASE TAKE DAILY PHOTOS OF WORK THAT IS IN PROGRESS AND INCLUDE THEM IN DAILY / WEEKLY REPORTS.
3. FENCING:
   - 3.1. ALL GAPS TO BE LESS THAN THREE INCHES IN WIDTH. THIS INCLUDES GATES & POSTS.
   - 3.2. ELECTRICAL GROUNDING TO BE PER LOCAL REGULATORY AGENCY'S REQUIREMENTS. THIS INCLUDES GATES AND ISOLATION PANELS.
   - 3.3. GATES WILL NEED HOLD OPEN CATCHES (GROUND POST MOUNTED OR SWING-DOWN STYLE) INSTALLED ON THE OUTSIDE OF FENCE TO SECURE GATES FOR TRAFFIC IN AND OUT OF THE SITE.
   - 3.4. LOCAL FIRE DEPARTMENT REQUIREMENTS TO BE ADHERED TO FOR LOCK-BOXES AND SITE ACCESS.
4. EQUIPMENT:
   - 4.1. GAPS ON DOORS TO BE PROPERLY ADJUSTED SO THAT THEY ARE EVEN. DOORS TO BE LEVEL AND OPERABLE.
   - 4.2. EQUIPMENT TO BE MOUNTED CORRECTLY PER THE MANUFACTURER'S DIRECTION.
   - 4.3. EQUIPMENT CLEARANCE: PROVIDE A THREE FEET, FLAT, SAME GRADE, AREA IN FRONT OF ALL ACCESSIBLE DOORS AND PANELS OF SERVICEABLE EQUIPMENT.
   - 4.4. EQUIPMENT TO BE ANCHORED PER THE MANUFACTURER'S DIRECTION.
   - 4.5. EQUIPMENT TO BE INSTALLED WITH THE CORRECT ORIENTATION AND SQUARE WITH THE PAD.
   - 4.6. EQUIPMENT RACKS: HDG OR SS UNISTRUT CONSTRUCTION TO BE USED.
   - 4.7. EQUIPMENT MOUNTING & HARDWARE TO BE PER THE MANUFACTURERS DIRECTION.
   - 4.8. ALL EQUIPMENT MUST MEET MINIMUM HEIGHT AND SIDE CLEARANCE UPON INSTALL PER DESIGN DRAWINGS.
5. PAINT: DAMAGED PAINT AT PICK-POINTS TO BE TOUCHED UP WITH MATCHING PAINT.
6. ALL HARDWARE TO BE HDG OR SS.
7. EXPOSED SURFACES OF DRILLED HOLES TO BE SPRAYED WITH COLD GALVANIZING SPRAY AFTER DRILLING (PER ASTM 780).
8. UNISTRUT COMPONENTS, OR EQUAL, ALLOWED AT SPLICES AND CONNECTIONS (SPECIFIC CONNECTION HARDWARE IS AVAILABLE). PROVIDE MIN 6" OVERLAP AT EACH SIDE OF SPLICE WITH TWO BOLT STACKS ON EACH SIDE.
9. RUBBER SAFETY END CAPS MUST BE PROVIDED ON ALL OPEN ENDS OF UNISTRUT.
10. DRILLED HOLES MUST NOT BE CLOSER THAN ½" FROM OUTSIDE EDGE OF MEMBERS / PILES.
11. NO BEAM CLAMPS OR COMPRESSION STYLE FITTINGS PERMITTED.
12. ALL CONDUIT MOUNTED TO JUNCTION BOXES OR EQUIPMENT TO INCLUDE BUSHINGS ON INTERIOR AND SEALANT AS NEEDED TO PREVENT RODENTS AND INFESTATIONS.
13. CAMERAS TO BE MOUNTED AT THE HIGHEST POINT OF ALL COMPONENTS TO ALLOW A CLEAR VIEW OF THE GATE AND ARRAYS.
14. SENSORS, AND OTHER REPORTING EQUIPMENT, TO BE INSTALLED AT A HIGH ENOUGH ELEVATION THAT WILL KEEP FROM BEING INTRUDED OR BLOCKED BY OTHER EQUIPMENT.

EQUIPMENT PAD GENERAL NOTES:

1. CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES OF REGULATORY AGENCIES HAVING JURISDICTION.
2. THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND COMPLY WITH THE REQUIREMENTS OF ALL AGENCIES HAVING JURISDICTION OVER THE WORK AND SHALL COORDINATE THEIR WORK WITH THE WORK PERFORMED BY OTHERS FOR THE PROPOSED INSTALLATION.
3. THE CONTRACTOR SHALL MAKE NO DEVIATIONS FROM THE CONTRACT DRAWINGS WITHOUT WRITTEN APPROVAL FROM SUMMIT RIDGE ENERGY ENGINEERING.
4. CONTRACTOR SHALL COORDINATE ALL WORK WITH ALL PUBLIC AND PRIVATE UTILITIES AS WELL AS CITY AND STATE AGENCIES.
5. SEE ELECTRICAL DRAWINGS FOR GROUNDING DETAILS.
6. CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI-318 (BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE).
7. PROVIDE CONCRETE WITH MINIMUM COMPRESSIVE STRENGTH, f'c = 4,000 PSI MINIMUM 28 DAY STRENGTH NORMAL WEIGHT CONCRETE WITH AGGREGATE CONFORMING TO ASTM C33, 1" MAX.
8. CONCRETE SHALL HAVE A TARGET AIR CONTENT OF 5.5%.
9. CONCRETE SHALL HAVE MAXIMUM WATER/CEMENT RATIO=0.45. SLUMP NOT TO EXCEED 4 INCHES WITHOUT THE ADDITION OF WATER REDUCER.
10. THE USE OF CALCIUM CHLORIDE AND OTHER CHLORIDE CONTAINING AGENTS IS STRICTLY PROHIBITED.
11. THE USE OF RECYCLED CONCRETE IS PROHIBITED.
12. PLACEMENT WITH AND CONTACT BETWEEN ALUMINUM ITEMS, INCLUDING ALUMINUM CONDUIT, AND CONCRETE IS PROHIBITED.
13. REINFORCING BARS SHALL BE DEFORMED BARS OF NEW BILLET STEEL CONFORMING TO ASTM A-615 GRADE 60.
14. WHERE 90°, 135°, OR 180° HOOKS ARE SHOWN GRAPHICALLY, PROVIDE ACI STANDARD HOOKS.
15. COLD WEATHER CONCRETING SHALL BE DONE IN ACCORDANCE WITH ACI-306. HOT WEATHER CONCRETING SHALL BE DONE IN ACCORDANCE WITH ACI-305.
16. PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCEMENT AT POSITIONS SHOWN ON THE PLANS AND SECTIONS.
17. NO STRUCTURAL CONCRETE SHALL BE POURED UNTIL THE CONCRETE DESIGN MIXES, CONCRETE PLACEMENT PROCEDURE, LOCATION OF CONSTRUCTION JOINTS, AND SETTING REINFORCING STEEL IS REVIEWED BY SRE ENGINEERING.
18. CONCRETE SAMPLING/TESTING TO BE PERFORMED PER ACI 318.
19. TOP OF CONCRETE FINISH TO BE BROOM FINISHED.
20. SIDES OF CONCRETE FINISH TO BE RUBBED SMOOTH.
21. TOP OF SLABS TO BE FINISHED WITH MINIMUM 2% GRADE TO ENSURE NO PONDING OCCURS.
22. ASSUME AN ALLOWABLE BEARING SOIL PRESSURE = 1500 PSF FOR THE DESIGN OF THE CONCRETE PADS.
23. ALL FORM-WORK TO BE 2X MATERIAL OR LARGER. PLYWOOD IS NOT PERMITTED. MUST BE REMOVED FROM THE EQUIPMENT WINDOWS/BOX-OUTS ONCE CONCRETE IS CURED.
24. CONDUIT IS NOT PERMITTED TO BE BURIED IN THE CONCRETE PADS. BOX-OUTS TO BE FORMED AND USED.
25. CONDUIT BOX-OUTS TO BE FILLED WITH 3/8" PEA GRAVEL OR POLYWATER AFTER ELECTRICAL CONDUIT IS INSTALLED TO PREVENT RODENTS & MOISTURE INSIDE CABINETS AND EQUIPMENT.
26. EXPANSION FITTINGS TO BE INSTALLED AT ALL INTERFACES BETWEEN CONDUIT AND EQUIPMENT ENTRY FOR FROST HEAVE PURPOSES.

SPECIAL INSPECTIONS REQUIRED:

CONCRETE REBAR:	SEE IBC 2021, TABLE 1705.3, ITEM 1 (PERIODIC)
POST-INSTALLED ANCHORS:	SEE IBC 2021, TABLE 1705.3, ITEM 4 (PERIODIC)
CONCRETE DESIGN MIX:	SEE IBC 2021, TABLE 1705.3, ITEM 5 (PERIODIC)
CONCRETE STRENGTH TESTS:	SEE IBC 2021, TABLE 1705.3, ITEM 6 (CONTINUOUS)
CURING TEMPERATURE:	SEE IBC 2021, TABLE 1705.3, ITEM 8 (PERIODIC)
FORM WORK:	SEE IBC 2021, TABLE 1705.3, ITEM 12 (PERIODIC)



NOTES:

1. COMPACT SUBGRADE TO 90% OF THE STANARD PROCTORS MAXIMUM DRY DENSITY PER ASTM D-1557 OR PROOFROLL SUBGRADE PRIOR TO PLACING BASE MATERIAL. LIFTS NOT TO EXCEED 9 INCH LOOSE THICKNESS.
2. IF PUMPING/RUTTING IS OBSERVED, OVER EXCAVATE MIN 18" AND REPLACE WITH COMPETENT STRUCTURAL SOIL.
3. SUBGRADE SHALL HAVE A MINIMUM BEARING CAPACITY OF 1,500 PSF.
4. PROVIDE ELECTRICAL GROUNDING PAD IN EACH SLAB CORNER

SECTION 3-S1

SCALE: NTS

REV	BY	DESCRIPTION	DATE
0	AWS	30% CIVIL SET	03/21/25
1	AMA	REFRESH / SITE PLAN SYNC	05/22/25

DRAWING ISSUE: ☑ PRELIMINARY ☐ PERMITTING ☐ BID ☐ CONSTRUCTION ☐ AS-BUILT ☐ OTHER

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ARLINGTON, VA 22209
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PE SEAL/CONSULTANT: LICENSED PROFESSIONAL ENGINEER — DALE E. JOHNSON 062-072744 — OF ILLINOIS

PROJECT: MONTGOMERY - ELLINGER
EAST ILLINOIS ROUTE 16,
LITCHFIELD, ILLINOIS 62056
LAT/LONG: 39.175908, -89.601318
STATE: ILLINOIS
UTILITY: AMEREN
AHJ: MONTGOMERY COUNTY

DRAWING TITLE: STRUCTURAL DETAILS

DWG NO. S-01

C:\USERS\ALVARADAMAZA\SUMMIT RIDGE ENERGY,SRE - PROJECTS WORKING FOLDERS\IL-23-0152 --- IL- MONTGOMERY - ELLINGER,04 - ENGINEERING\CAD\SHEET FILES\STRUCTURAL\S-01 DT.DWG

EXHIBIT L – WETLAND DELINEATION

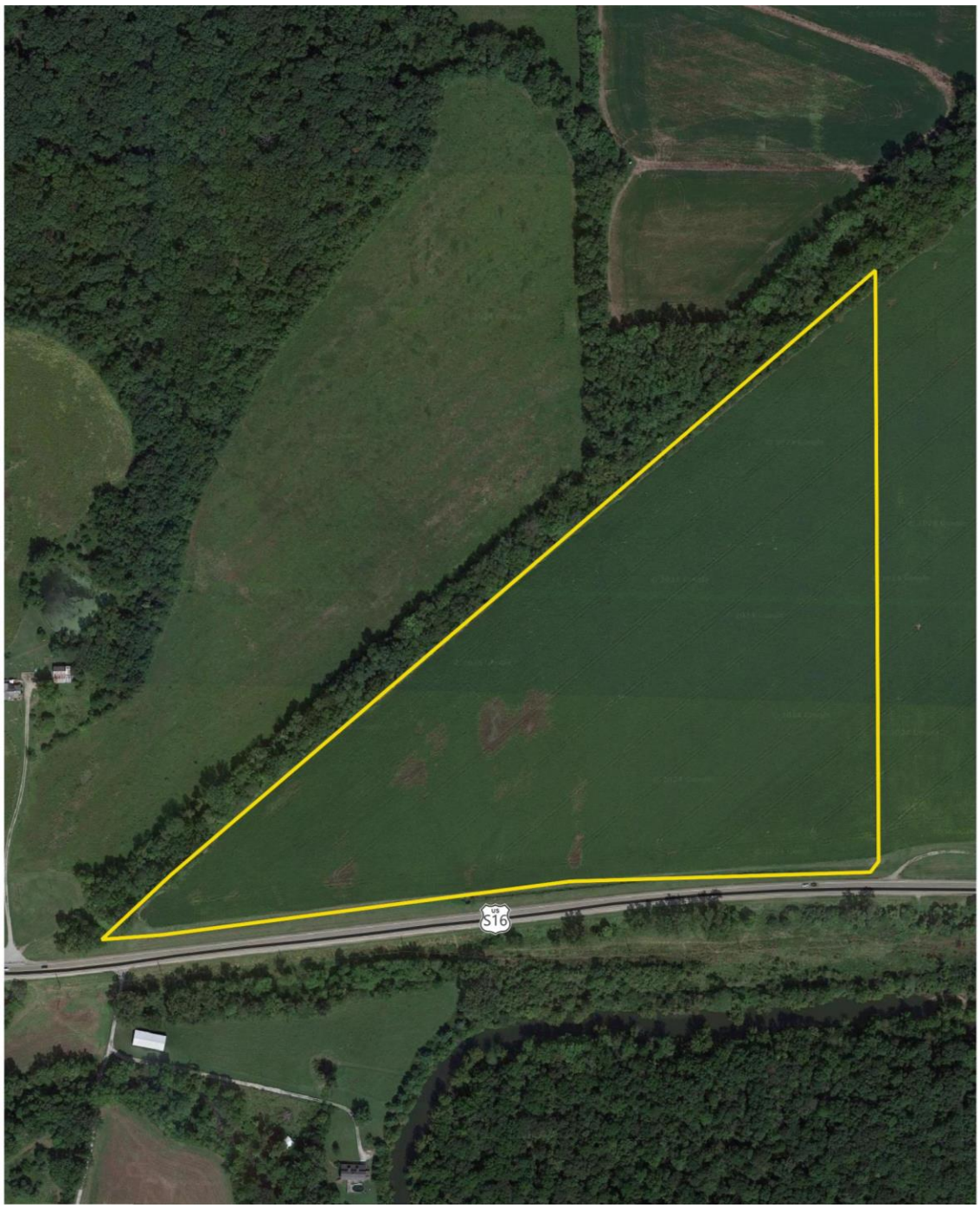
Prepared by Emmons & Olivier Resources, Inc.

Prepared for Summit Ridge Energy

Summit Ridge Energy

Montgomery Wetland and Waters Determination Report

City of Litchfield, Montgomery County, Illinois



7.2.2024

water ecology community

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1. EXECUTIVE SUMMARY

The purpose of this report is to provide Summit Ridge Energy with an evaluation of potential existing wetlands and jurisdictional waters within the **Study Area** (**Figure 1**) that may preclude, constrain, or otherwise affect development of Montgomery Solar. The Study Area encompasses all potential locations for the proposed solar facility, including associated access roads, and seeks to avoid potential wetland impacts. The Study Area aligns with parcel identification number 10-36-300-013 and 15-02-200-029.

The information provided by EOR regarding wetland boundaries is a scientific-based analysis of the wetland and upland conditions present on the site at the time of the fieldwork. The delineation was performed by experienced and qualified professionals using standard practices and sound professional judgment. The ultimate decision on wetland boundaries and jurisdictional determinations rests with the USACE. As a result, there may be adjustments to boundaries based upon review by a regulatory agency. An agency's determination can vary from time to time depending on various factors including – but not limited to – recent precipitation patterns and the season of the year. In addition, the physical characteristics of the site can change over time depending on the weather, vegetation patterns, drainage activities on adjacent parcels, or other events. Any of these factors can change the nature and extent of wetlands on the site.

Results from the offsite wetland analysis identified several areas with potential wetland characteristics, warranting an onsite investigation. **A Level 2 onsite delineation, performed by EOR on June 7, 2024, found that the Study Area contained three wetlands, two of which likely drain to the West Fork Shoal Creek and be considered regulated Waters of the United States (Section 4.3.3).**

EOR recommends submittal of this report to the U.S. Army Corps of Engineers (USACE) for concurrence of delineated wetlands and waters, Illinois Environmental Protection Agency (IEPA), and Illinois Department of Natural Resources (IDNR), to validate the boundary of the delineated wetlands and wetland types in relation to the proposed location for the solar array and associated access roads and utility easements. If proposed impacts are less than 0.1 acres, the project is likely authorized under Nationwide Permit 51 (NWP 51) without need for pre-construction notification to USACE. If impacts greater than 0.10 acres are unavoidable, EOR recommends further consultation regarding design specifics to determine next steps. Likely, an Approved Jurisdictional Determination should be requested from USACE to determine if impacted water are regulated, if the project may be authorized under NWP 51 with pre-construction notification, or if an Individual Permit may be required. Individual Permits require significant review and consultation with the USACE and other agencies, including issue of public notice.

1.1. Review Team and Contact Information

The delineation was performed by Leah Stromberg and Alyssa Wojcik. Hallie Brychel is the lead author of the report.

Wetland Delineator
Leah Stromberg – Environmental Scientist
lstromberg@eorinc.com

Alyssa Wojcik – Permitting Specialist
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Hallie Brychel – Environmental Scientist
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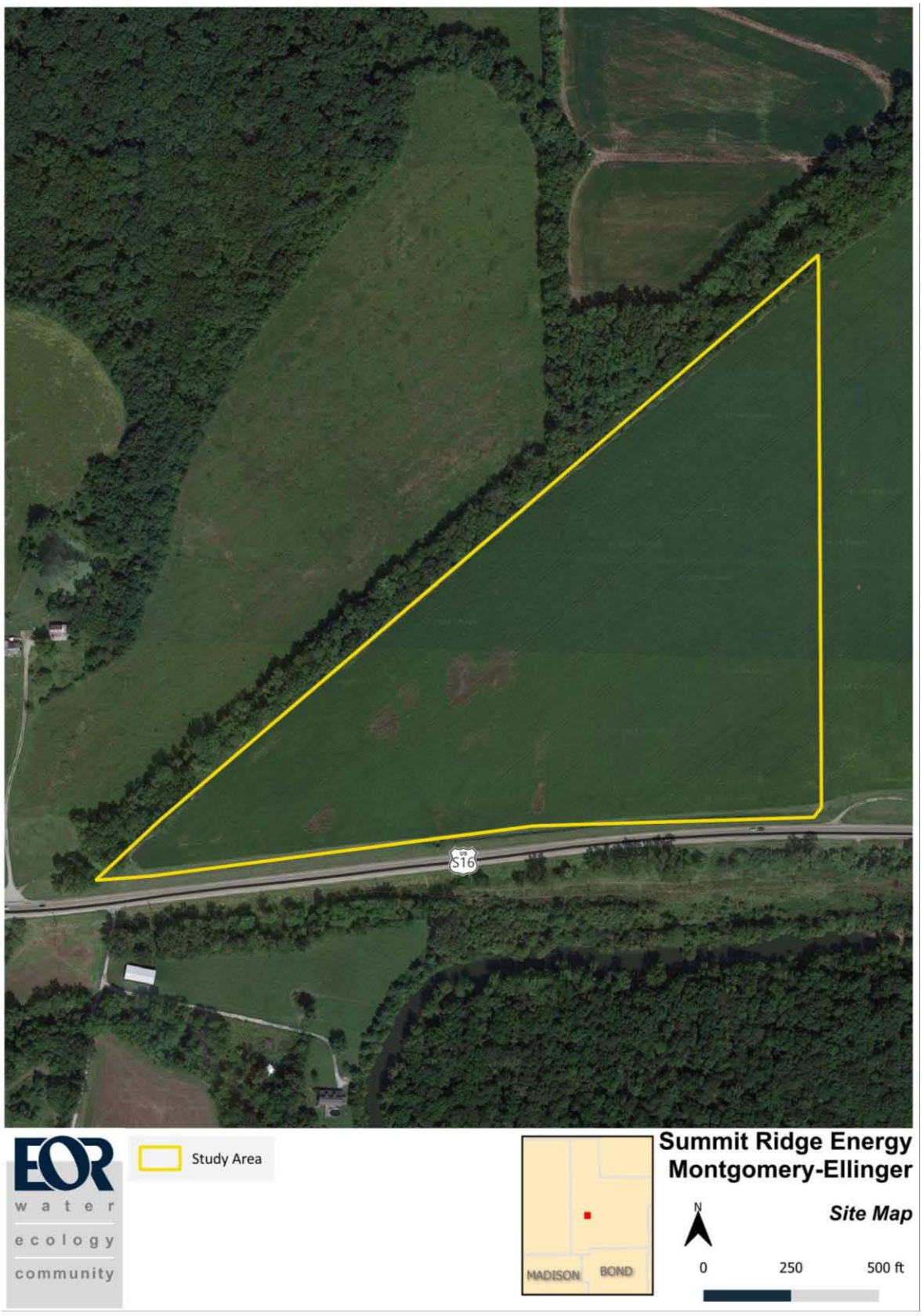


Figure 1. Study Area. Imagery source: Google Satellite

2. INTRODUCTION

The proposed project includes construction of Montgomery-Ellinger Solar within an approximately 37.5-acre site in City of Litchfield, Montgomery County, Illinois. The Study Area is located at 4388 State Route 16, Litchfield, IL. The legal description is the southeastern 1/4 of Section 35, Township 9N, Range 5W, southwestern 1/4 of Section 36, Township 9N, Range 5W, northeastern 1/4 of Section 2, Township 8N, Range 5W, and the northwestern 1/4 of Section 1, Township 8N, Range 5W. The Study Area is located within two (2) parcels (Figure **2**). Construction of the solar facility will take place on private lands, with potential access roads crossing the right-of-way. The Study Area is currently in agricultural production.

3. METHODOLOGY

3.1. Offsite – Level 1 Wetland Delineation

EOR conducted an initial screening and onsite wetland review of the Study Area to evaluate the presence or absence of wetlands within the Study Area. Evaluation of the Study Area began with an initial review of the National Wetland Inventory (NWI) and Soil Survey Geographic (SSURGO) hydric soil classification data. Additionally, offsite evaluation measures included review of historical aerial imagery, Illinois DNR Streams GIS web layer, high-resolution digital elevation data, topographic survey data, and morphological evaluation of the in-situ soil profile.

3.1.1. Supplementary Data Collection

The following data were collected and reviewed prior to reviewing historical aerial imagery in accordance with the NRCS 2011 Illinois Offsite Methods for Wetland Determinations document:

- Illinois statewide high resolution digital elevation data and 1-foot elevation contours (**Figure 3**)
- Natural Resources Conservation Service (NRCS) SSURGO hydric soil classification data (**Figure 4**)
- National Wetland Inventory (NWI) data (**Figure 5**)
- Illinois DNR Streams Web Layer (**Figure 5**)
- National Hydrography Dataset waterbodies (**Figure 5**)

3.1.2. Historical Aerial Imagery Review

Historical aerial imagery was acquired from the National Agriculture Imagery Program (NAIP) and Illinois Department of Transportation (IDOT) (**Appendix A**). Each image was analyzed for antecedent precipitation conditions using the EPA's Antecedent Precipitation Tool.

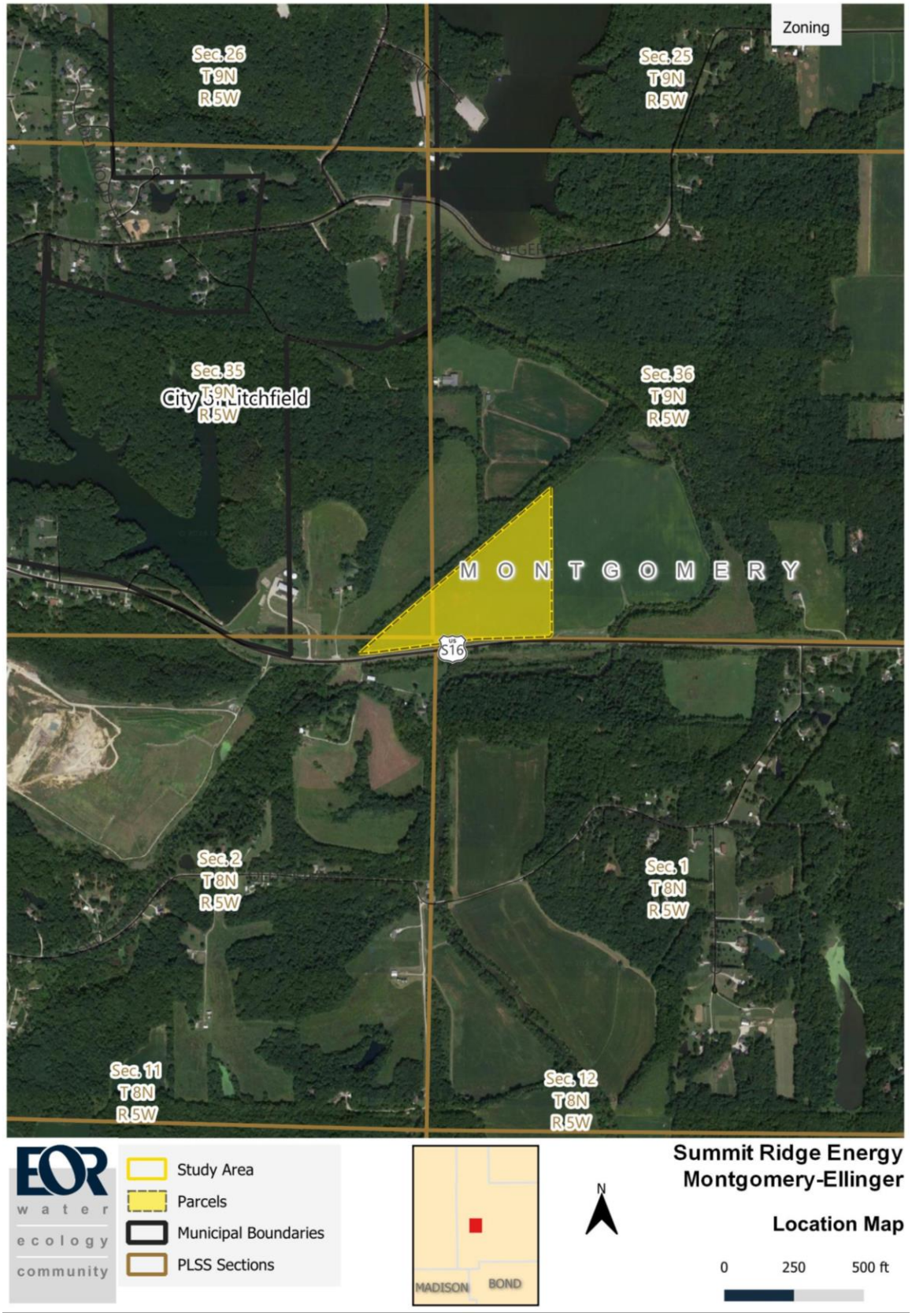


Figure 2. The Study Area is located east of the City of Litchfield.

3.2. Onsite – Level 2 Wetland Delineation Methods

EOR followed the methodology prescribed in the USACE Jurisdictional Determination (JD) Form Instructional Guidebook and outlined in the Midwest Regional Supplement to the 1987 Corps of Engineers Wetland Delineation Manual to delineate wetlands within the Study Area (USACE 2010). If watercourses were present, EOR determined the Ordinary High-Water Mark (OHWM) of streams within the Study Area using physical characteristics described in Regulatory Guidance Letter 05-05. Wetland and upland observations and data were recorded in the field using BioApp's mobile version of the U.S. Army Corps of Engineers Automated Wetland Determination Data Form – Midwest Region. Sample points and delineated boundaries were collected in the field using corrected differential Global Positioning System (GPS) and mapped using ArcMap v. 10.8 and QGIS v. 3.34.

3.2.1. Wetland Indicator Methodology

EOR conducted field work on June 7, 2024, to validate the presence/absence of wetland resources identified through the offsite analysis and to identify wetland boundaries. A transect was established in a representative transition zone of the potential wetland. The transect consisted of sample point in the potential wetland, and if wetland criteria were met, one point in the upland. Soils, vegetation, and hydrology were documented at each sample point and provided in data sheets.

Vegetation

Observed plant species were identified and assigned corresponding Midwest Region wetland indicator status. The wetland probability indicator status of dominant plant species was determined using the 2022 National Wetland Plant List v3.5.

Soils

Soil profiles were collected to a minimum of 24 inches. Soil colors were determined using the Munsell Soil Color Charts. Soils were described to include those hydric indicators immediately below the A-horizon. A hydric soil determination was made based upon soil characterization (texture, color), soil order, ponding, and flooding frequency.

Hydrology

As required in the 1987 Manual, the presence of subsurface hydrology or indicators thereof was characterized in the rooting zone to a minimum of 24 inches. Primary and secondary hydrology indicators were identified according to the Midwest Regional Supplement.

Delineation Boundary Determination

Wetland boundaries were determined after taking into consideration the parameters of soil, hydrology, vegetation, topography, and professional judgment at paired upland and wetland sample points. Boundary GPS data was collected at sufficient and appropriate intervals, depending on curvature and assumed accuracy.

4. RESULTS

4.1. Offsite – Level 1 Wetland Delineation

4.1.1. Topography and Hydrology

Regionally, the Study Area is situated in a glacial landscape within the Illinois Glacial Episode. The site is in an agricultural field with gentle slopes. The site drains from high points along the northern portion of the Study Area to the southwest portion of the Study Area(**Figure 3**). Elevations range from 565 feet above mean sea level along the south west and south eastern site boundaries to 561 feet near the southwest portion of the Study Area.

4.1.2. Soils Data

NRCS SSURGO data mapped two Predominantly Non-Hydric soil units in the Study Area (**Figure 4**, **Table 1**). Hydric ratings were based on those identified in the SSURGO database.

Table 1. NRCS Soils and Hydric Rating

Unit symbol	Soil Unit	Drainage class	Hydric Classification	Acres
3451cA	Lawson silt loam, cool mesic, 0 to 2 percent slopes, frequently flooded	Somewhat poorly drained	Predominantly Non-Hydric	32.8
3225A	Holton silt loam, 0 to 2 percent slopes, frequently flooded	Somewhat poorly drained	Predominantly Non-Hydric	4.6

4.1.3. Water Resources Data

No mapped wetlands, public waterbodies, or watercourses were identified within the Study Area. The West Fork Shoal Creek is located 0.2 miles northeast and 380 feet south of the Study Area. Mapped NWI riverine features and wetlands were identified north, east, and south of the Study Area (**Figure 5**).

No digital floodplain data (FEMA) was available for the vicinity of the Study Area. The Study Area is unlikely to be at significant risk from flooding, as no major rivers or lakes are located directly adjacent to the Study Area.

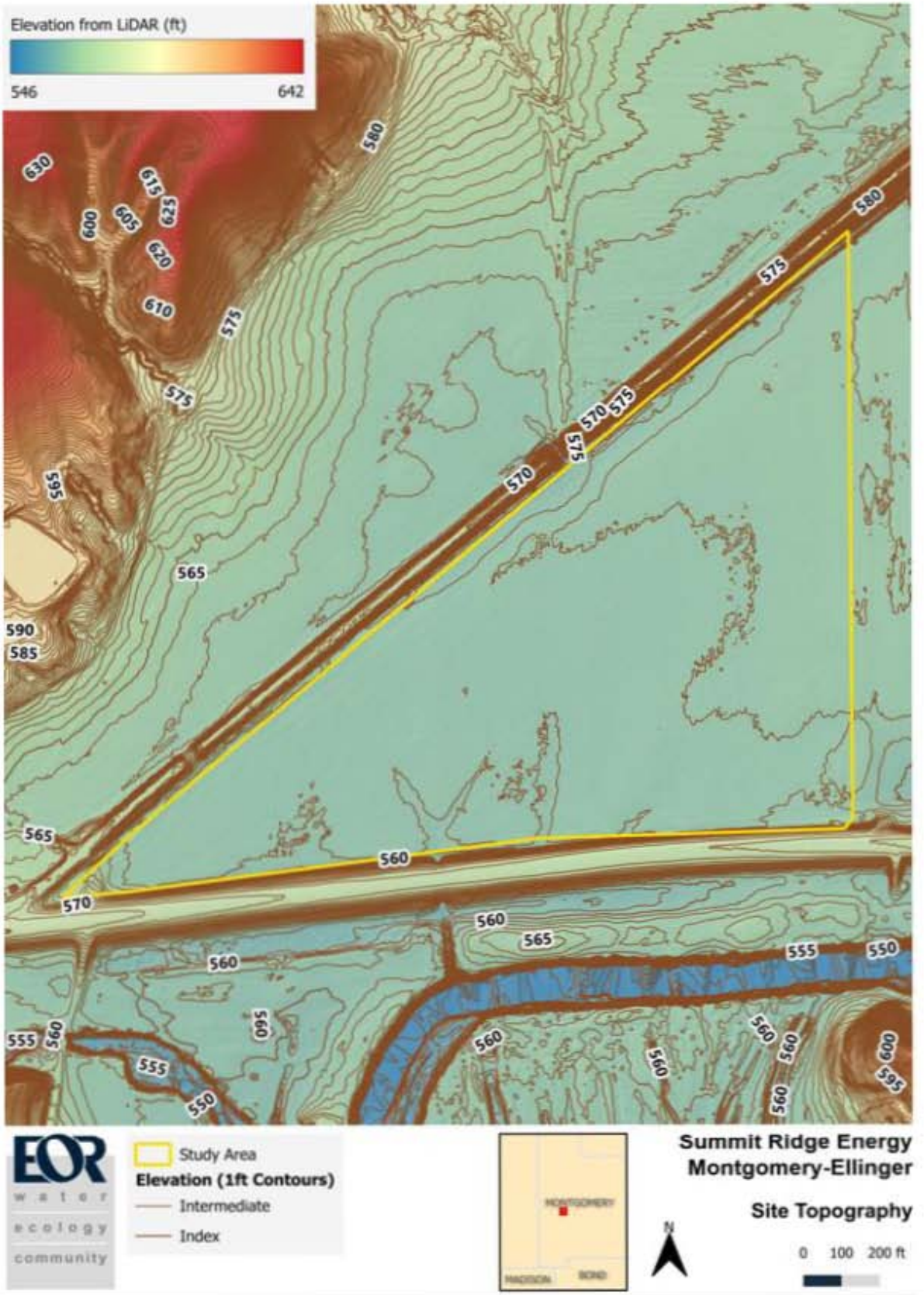


Figure 3. Topography is mostly flat with overland drainage generally directed toward the **southwest portion of the Study Area**.

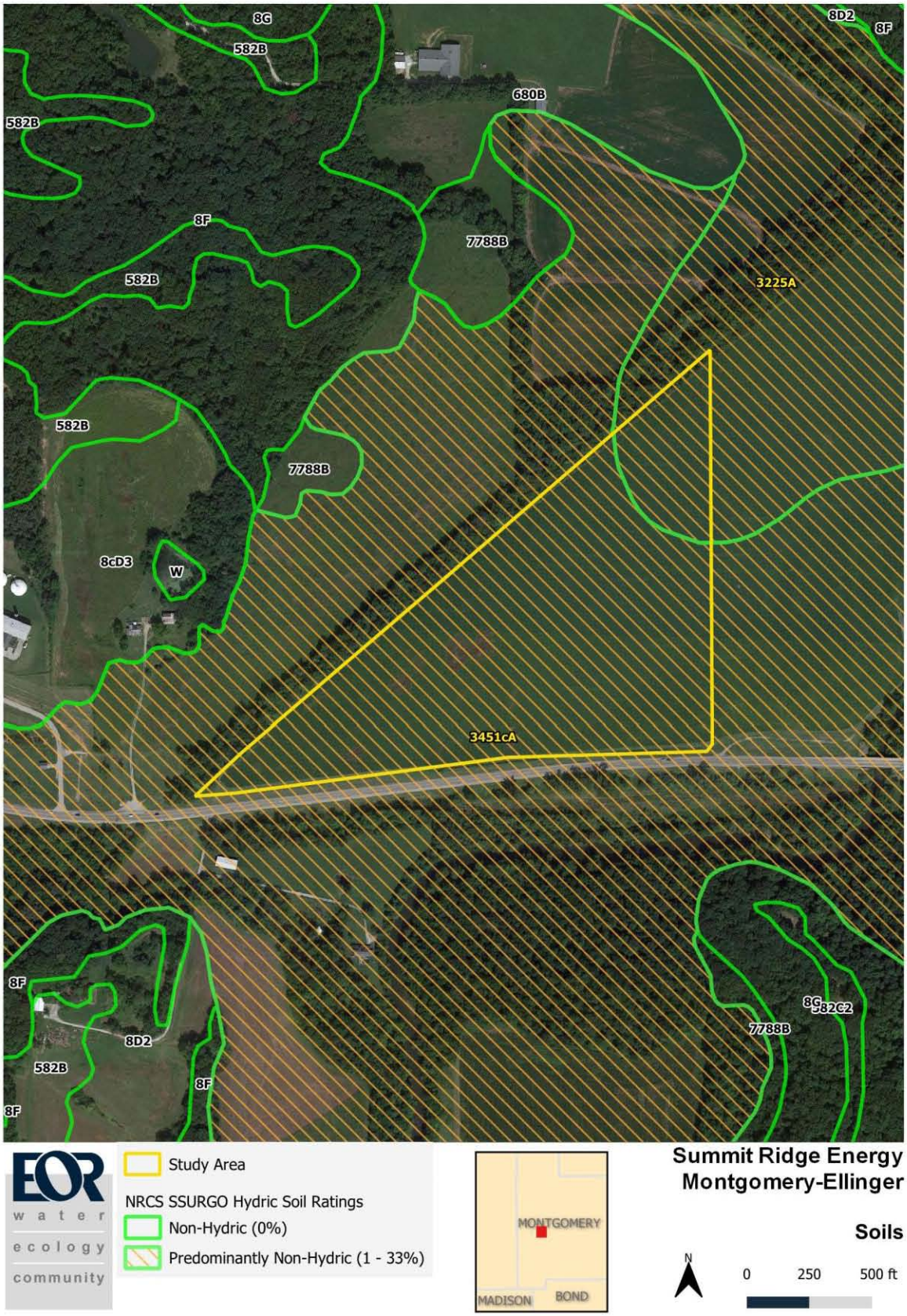


Figure 4. NRCS SSURGO data mapped two Predominantly Non-Hydric soil units in the Study Area.

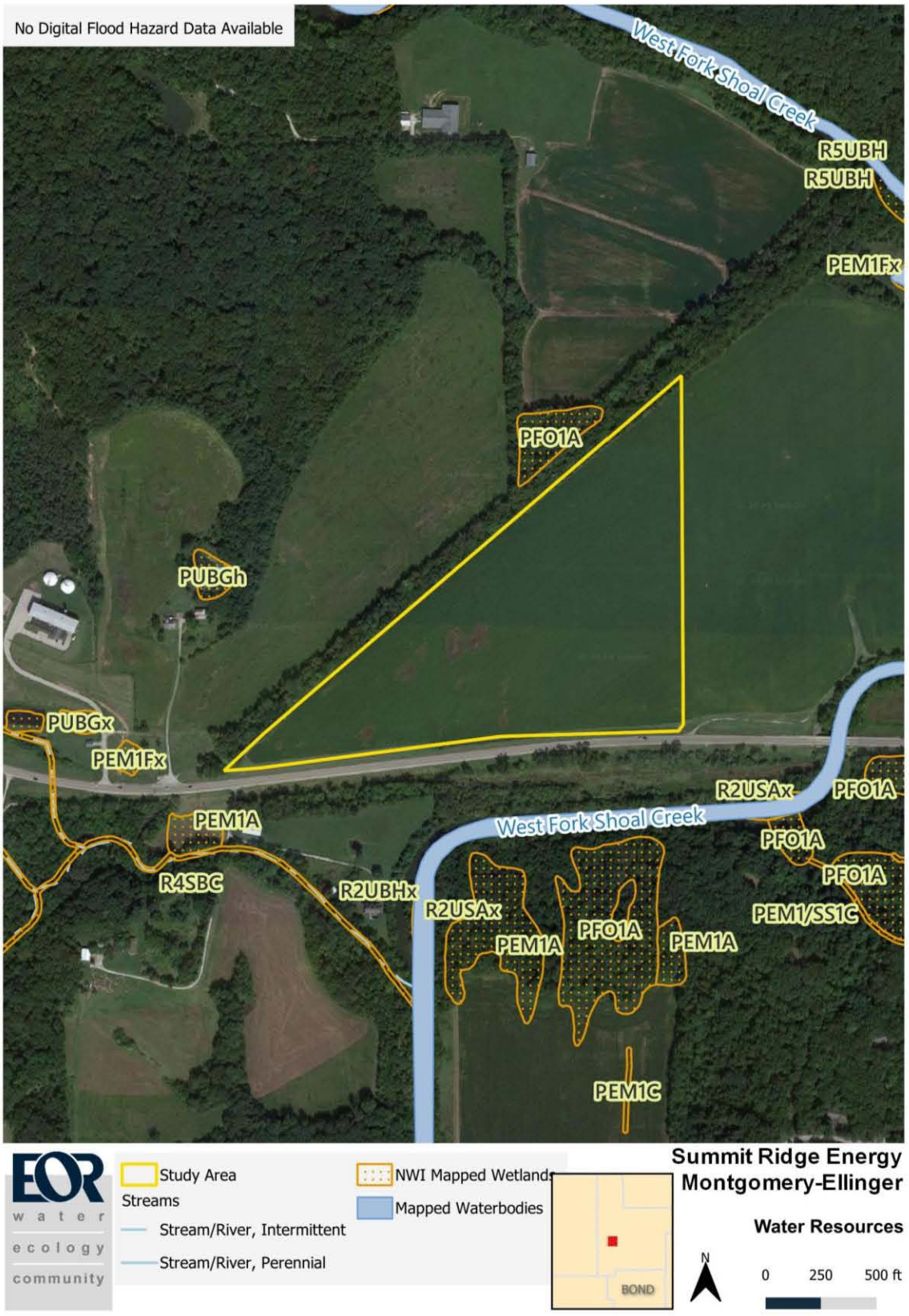


Figure 5. No mapped wetlands, streams, or waterbodies were identified within the Study Area. Wetland and waterway features were identified south, west, and north of the Study Area.

4.2. Aerial Imagery Analysis

EOR reviewed fourteen (14) photos from 1998 to 2021 (**Appendix A**). Of these, five images with known capture dates in the growing season had normal antecedent precipitation levels in the three months preceding the image date.

Table 2. Aerial Imagery and Antecedent Precipitation

Image Capture Date	Image Source	Antecedent Precipitation (1981-2010)
4/11/1998	NAPP	N/A
3/06/2005	NAPP	N/A
2005*	NAIP	N/A
2006*	NAIP	N/A
2007*	NAIP	N/A
2010*	NAIP	N/A
2011*	IDOT	N/A
8/25/ 2011	NAIP	Normal
6/12/2012	NAIP	Normal
7/11/2014	NAIP	Dry
09/05/2015	NAIP	Normal
6/26/2017	NAIP	Normal
7/20/2019	NAIP	Wet
7/05/2021	NAIP	Normal

*Antecedent precipitation not analyzed for images with unknown date of capture or from supplemental historical imagery.

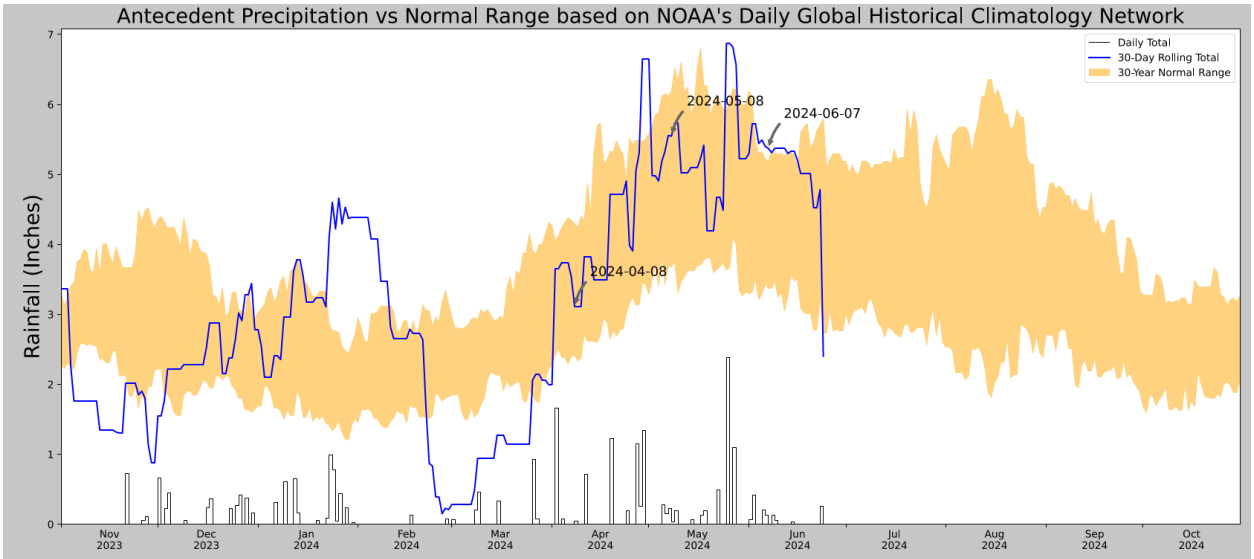
4.2.1. Level 1 Delineation Findings

Analysis of the high-resolution LiDAR data, current and historical site images, and SSURGO soils data identified several areas with potential wetland characteristics, (**Appendix A**) warranting an onsite evaluation. A Level 2 (onsite) delineation was performed to confirm the presence/absence of wetlands, and to delineate the boundaries of all potential wetlands within the Study Area, if present.

4.3. Onsite – Level 2 Wetland Delineation Results

4.3.1. Antecedent Precipitation

The wetland delineation was conducted on June 7, 2024. Antecedent precipitation data from the EPA's Antecedent Precipitation Tool indicated that the three-month antecedent precipitation was wetter than normal prior to the field visit, with the previous month receiving a wetter than normal amount of precipitation. The Palmer Drought Severity Index indicated mild drought for the region as of May 2024 (**Figure 6**).



Coordinates	39.1761735, -89.6002119
Observation Date	2024-06-07
Elevation (ft)	561.845
Drought Index (PDSI)	Incipient drought (2024-05)
WebWIMP H_2O Balance	Dry Season

30 Days Ending	30th %ile (in)	70th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2024-06-07	3.371654	5.183465	5.370079	Wet	3	3	9
2024-05-08	3.680315	6.19252	5.547244	Normal	2	2	4
2024-04-08	2.416536	4.3	3.110236	Normal	2	1	2
Result							Wetter than Normal - 15

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
MT OLIVE 1 E	39.0728, -89.7014	669.948	8.968	108.103	5.005	11124	85
MOUNT OLIVE 0.4 S	39.0664, -89.7281	679.134	1.499	9.186	0.688	98	5
LITCHFIELD 0.8 SE	39.1696, -89.644	679.134	7.362	9.186	3.381	60	0
LITCHFIELD 0.2 SE	39.1737, -89.6541	688.976	7.418	19.028	3.479	6	0
STAUNTON 1.5 WSW	39.0012, -89.8125	600.066	7.748	69.882	4.028	1	0
STAUNTON 4.3 SSW	38.954, -89.8166	587.927	10.277	82.021	5.468	1	0
HILLSBORO	39.1611, -89.4919	629.921	12.781	40.027	6.263	60	0
MEDORA 1 S	39.1561, -90.1392	606.955	24.165	62.993	12.396	2	0

Figure 6. Antecedent precipitation total was wetter than normal for the preceding three-month period, with the preceding month receiving a wetter than normal amount of precipitation.

4.3.2. Wetland Descriptions

EOR identified three wetlands within the Study Area (**Figure 7)** all in drainage areas. Two of these features are located within the south-central portion of the Study Area and one is in the north-central portion. Sample points 1U, 3U, and 4U were taken to delineate the boundary of the wetlands.

Wetlands are depressional drainage areas that are seasonally flooded on agricultural land (wetland points 1W, 3W, 4W, and upland points 1U, 3U, and 4U). Primary hydrology indicators Algal mat or crust (B4) were observed during the field visit. Secondary hydrology indicators Geomorphic Position (D2), Surface soil crack (B6), and Saturation visible on aerial imagery (C9) were also observed. Soils met hydric soil indicator Redox Dark Surface (F6), Depleted Matrix (F7), and Depleted Below Dark Surface (A11).

Additional details of sample points can be found in the site photographs and data sheets included in **Appendix B.**

Table 3. Wetland Descriptions

ID	Size (Acres)	Sampling Point(s)	Cowardin Wetland Type Wetland Description	Jurisdictional (EOR Opinion)
Wetland 1	0.34	1W	**PEMAf** Seasonally flooded/ farmed	No
Wetland 2	0.05	3W	**PEMAf** Seasonally flooded/ farmed	Yes
Wetland 3	0.19	4W	**PEMAf** Seasonally flooded/ farmed	Yes

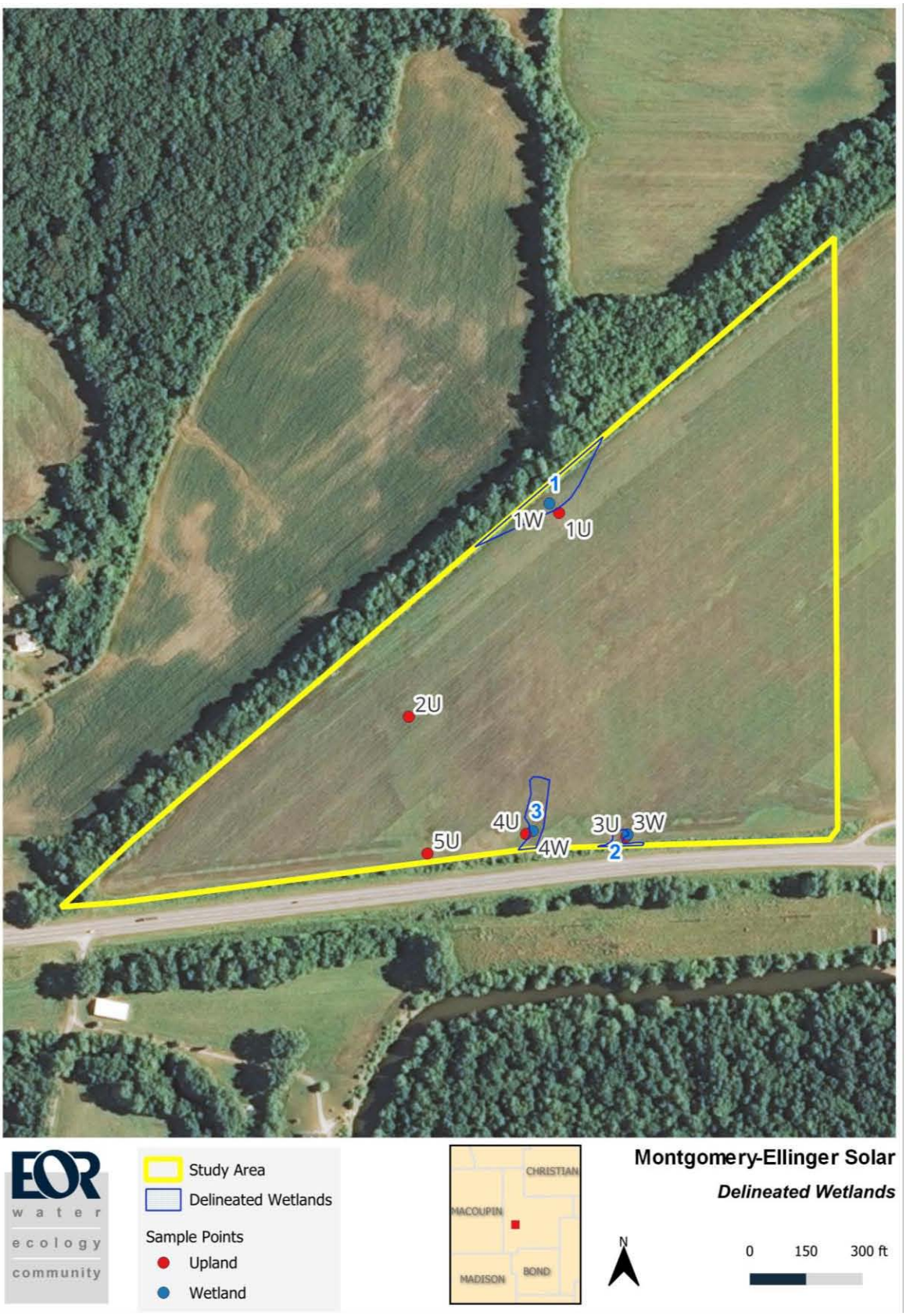


Figure 7. Three wetlands were identified in the Study Area. Wetlands 2 and 3 likely connect to WOTUS.

4.3.3. Jurisdictional Interpretation

Once aquatic features are identified, the next regulatory consideration is whether the features are jurisdictional Waters of the United States (WOTUS) subject to Section 404 of the CWA and/or Section 10 of the Rivers and Harbors Act, as administered by the USACE and EPA. Only the USACE can make determinations on the jurisdictional status of waters. However, EOR has provided interpretations of likely jurisdictional status of delineated resources within the Study Area based on regulatory guidance current as the publication date of this report.

EOR's opinion is that Wetlands 2 and 3 that drain to the ditch along the southern boundary drain offsite and connect to the West Fork Shoal Creek, which is likely jurisdictional (WOTUS). Wetland 1 is a seasonally flooded basin that likely meets exclusions for jurisdiction.

5. CONCLUSIONS

This wetland and Waters of the U.S investigation was undertaken to assist with the planning and permitting of Montgomery Solar in Montgomery County, Illinois. The purpose and objective of the wetland delineation was to identify the extent and spatial arrangement of wetlands and other potential Waters of the U.S. within the Study Area.

EOR identified three wetlands during the site visit on June 7, 2024, two of which may be considered jurisdictional. Only the U.S. Army Corps of Engineers (USACE) can make determinations on the jurisdictional status of waters. Jurisdictional Waters of the U.S. and regulated resources under Section 404 of the Clean Water Act are regulated under the Clean Water Act.

6. RECOMMENDATIONS

EOR recommends submittal of this report to USACE for concurrence of the delineated wetlands and waters. Design should avoid impacts to wetlands and waters to the maximum extent practicable. **If proposed impacts are less than 0.10 acre, the project is likely authorized under Nationwide Permit 51 (NWP 51) without need for pre-construction notification with USACE (Appendix C)**. If impacts greater than 0.10 acre are unavoidable, EOR recommends further consultation regarding design specifics to determine next steps. Likely, an Approved Jurisdictional Determination should be requested from USACE to determine if impacted waters are regulated, if the project may be authorized under NWP 51 with pre-construction notification, or if an Individual Permit may be required. Individual Permits require significant review and consultation with the USACE and other agencies, including issue of public notice.

7. APPENDIX A: HISTORICAL AERIAL IMAGE REVIEW

Imagery/NAPP_1998

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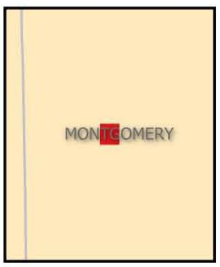
EOR water ecology community

Study Area



Summit Ridge Energy
Montgomery-Ellinger

Historical Imagery

N 0 250 500 ft

Imagery/NAPP_2005

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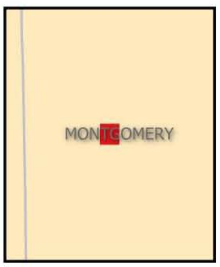
Study Area



Summit Ridge Energy
Montgomery-Ellinger

Historical Imagery

N 0 250 500 ft

Imagery/NAIP_2005

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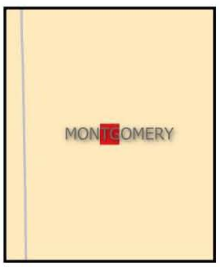
Study Area

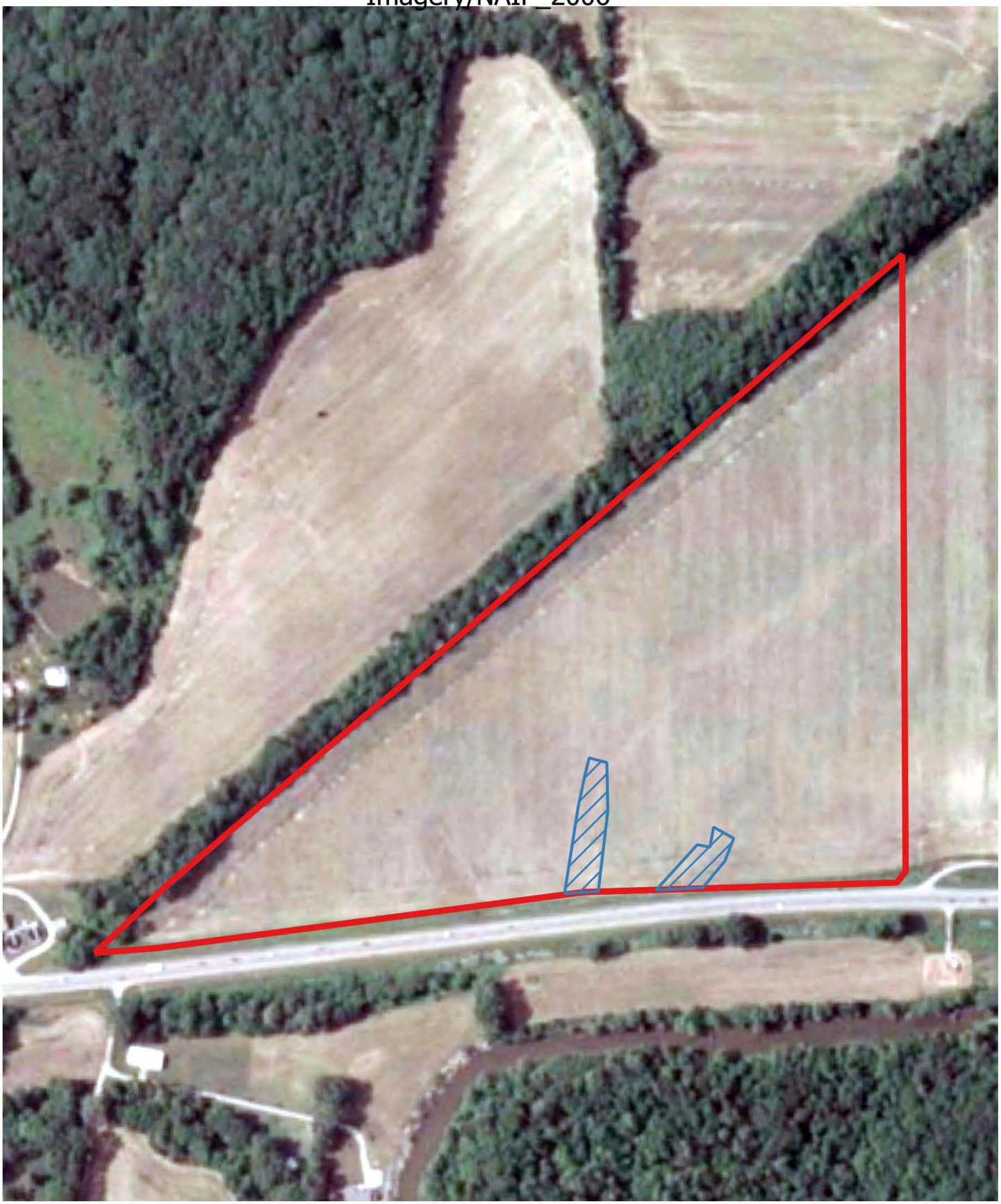


Summit Ridge Energy
Montgomery-Ellinger

Historical Imagery

N 0 250 500 ft

Imagery/NAIP_2006



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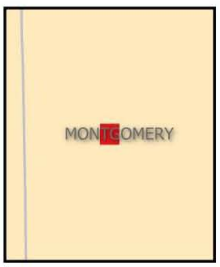
EOR water ecology community

Study Area

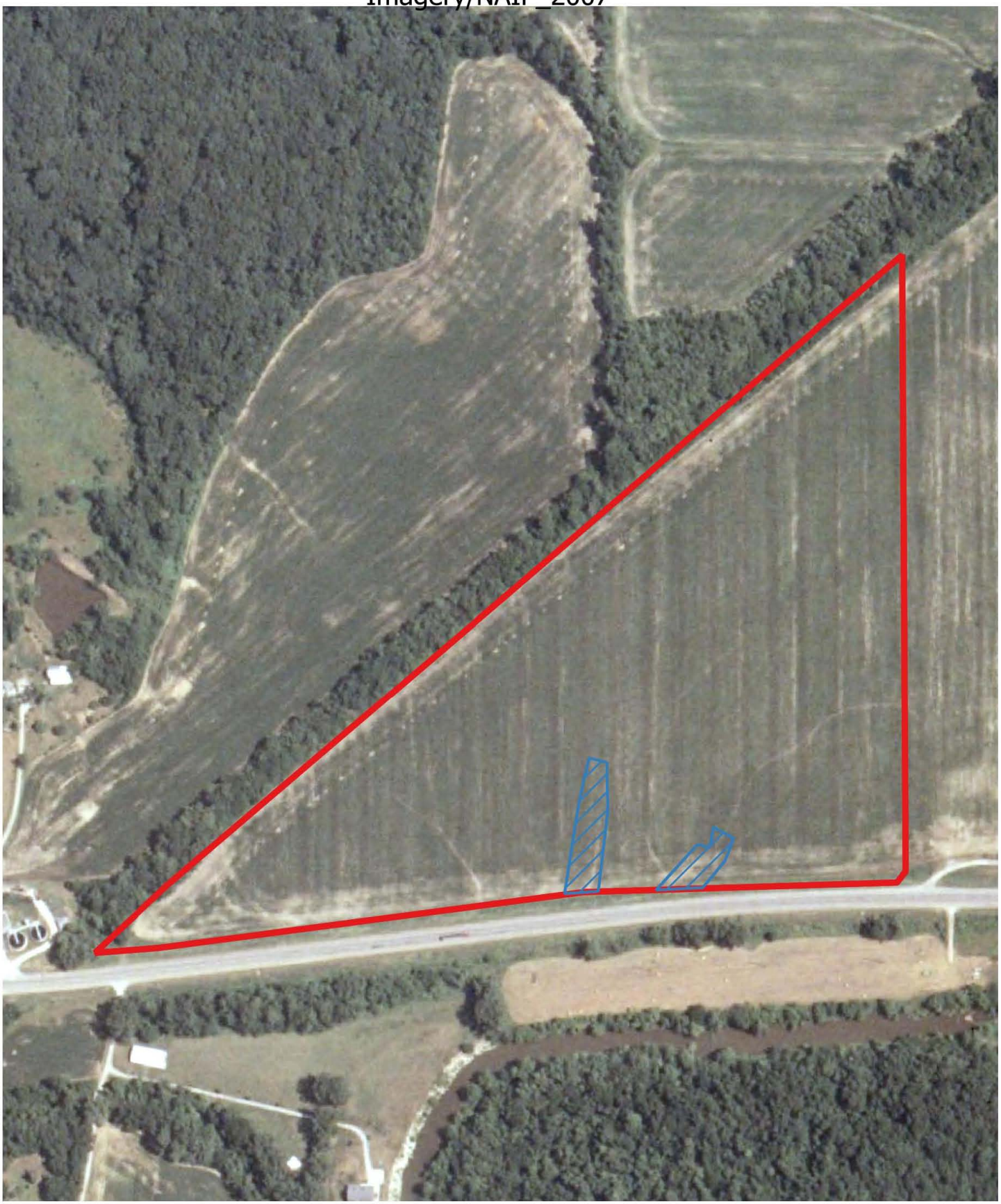


Summit Ridge Energy
Montgomery-Ellinger

Historical Imagery

N 0 250 500 ft

Imagery/NAIP_2007



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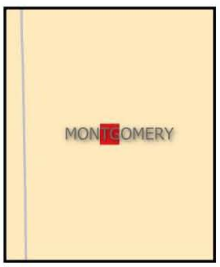

Summit Ridge Energy
Montgomery-Ellinger

Historical Imagery

N 0 250 500 ft

Imagery/NAIP_2010

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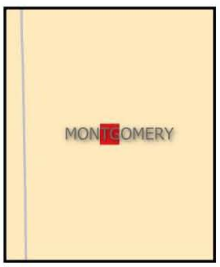
Study Area



Summit Ridge Energy
Montgomery-Ellinger

Historical Imagery

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Imagery/IDOT_Spring_2011

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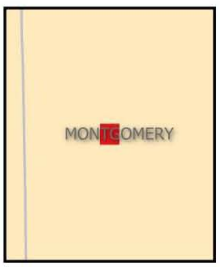
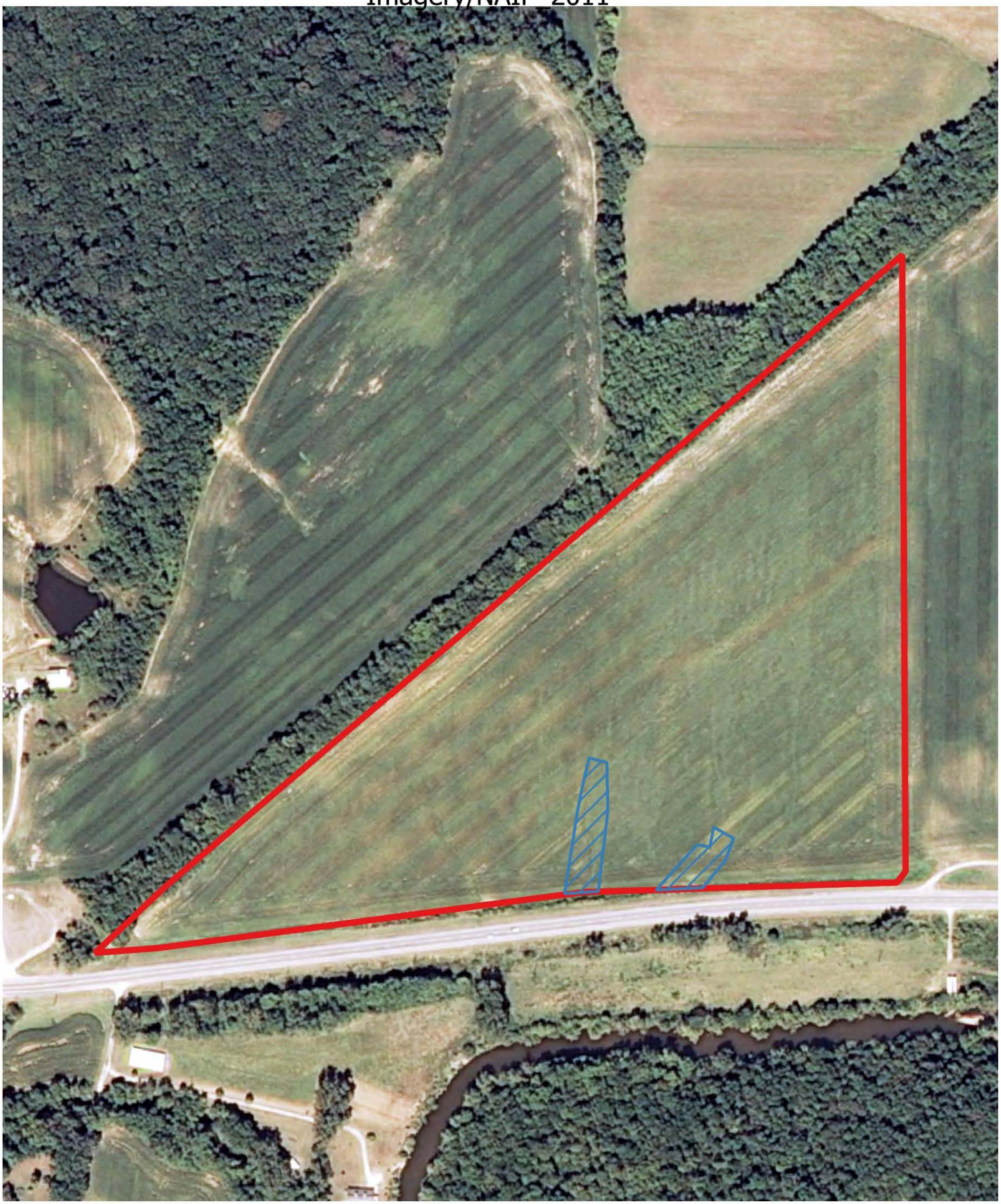


Summit Ridge Energy
Montgomery-Ellinger

Historical Imagery

N 0 250 500 ft

Imagery/NAIP_2011



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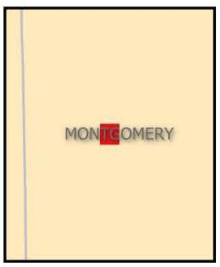
EOR water ecology community

Study Area

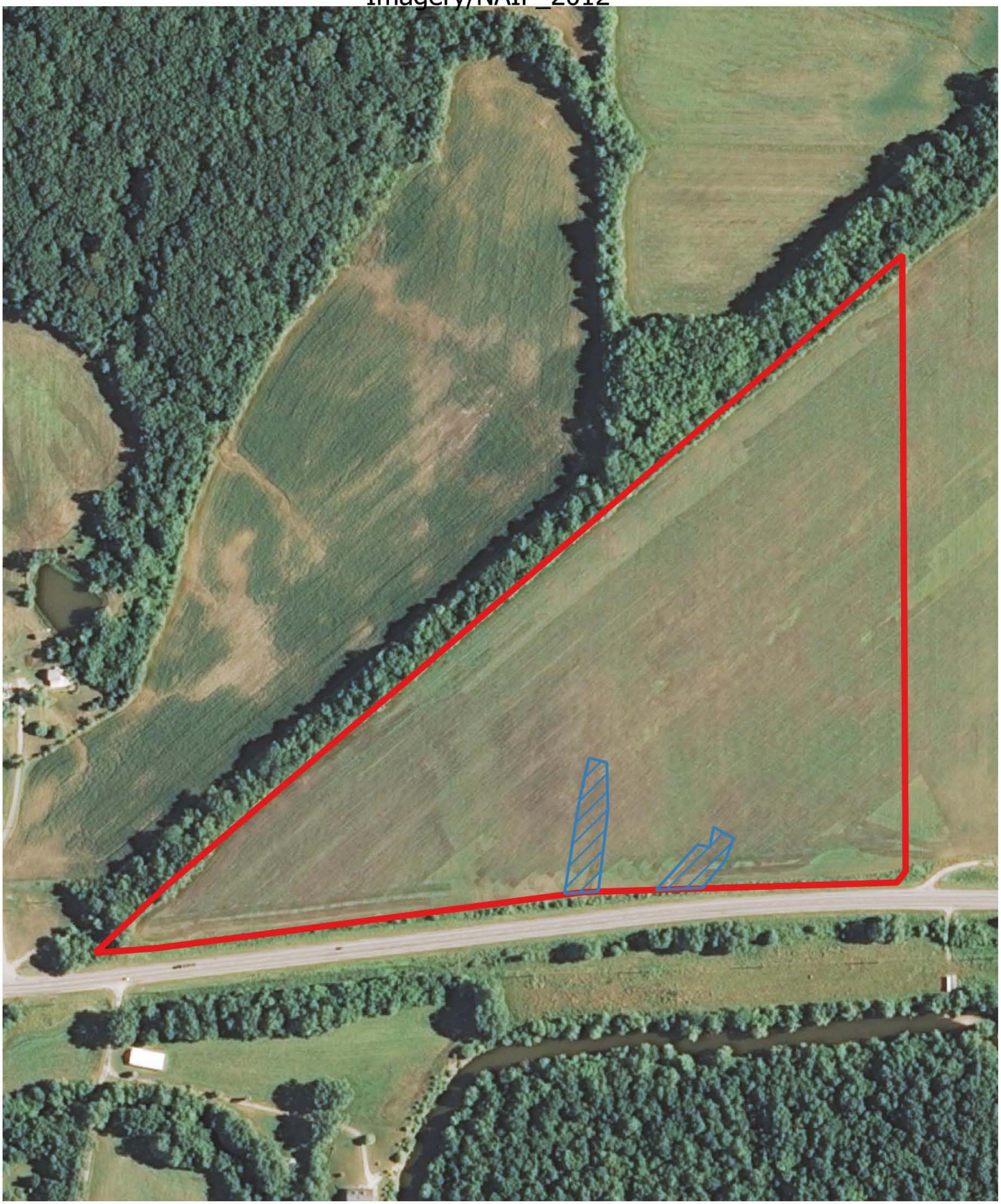


Summit Ridge Energy
Montgomery-Ellinger

Historical Imagery

N 0 250 500 ft

Imagery/NAIP_2012



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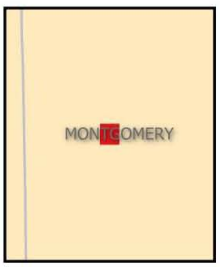
EOR water ecology community

Study Area

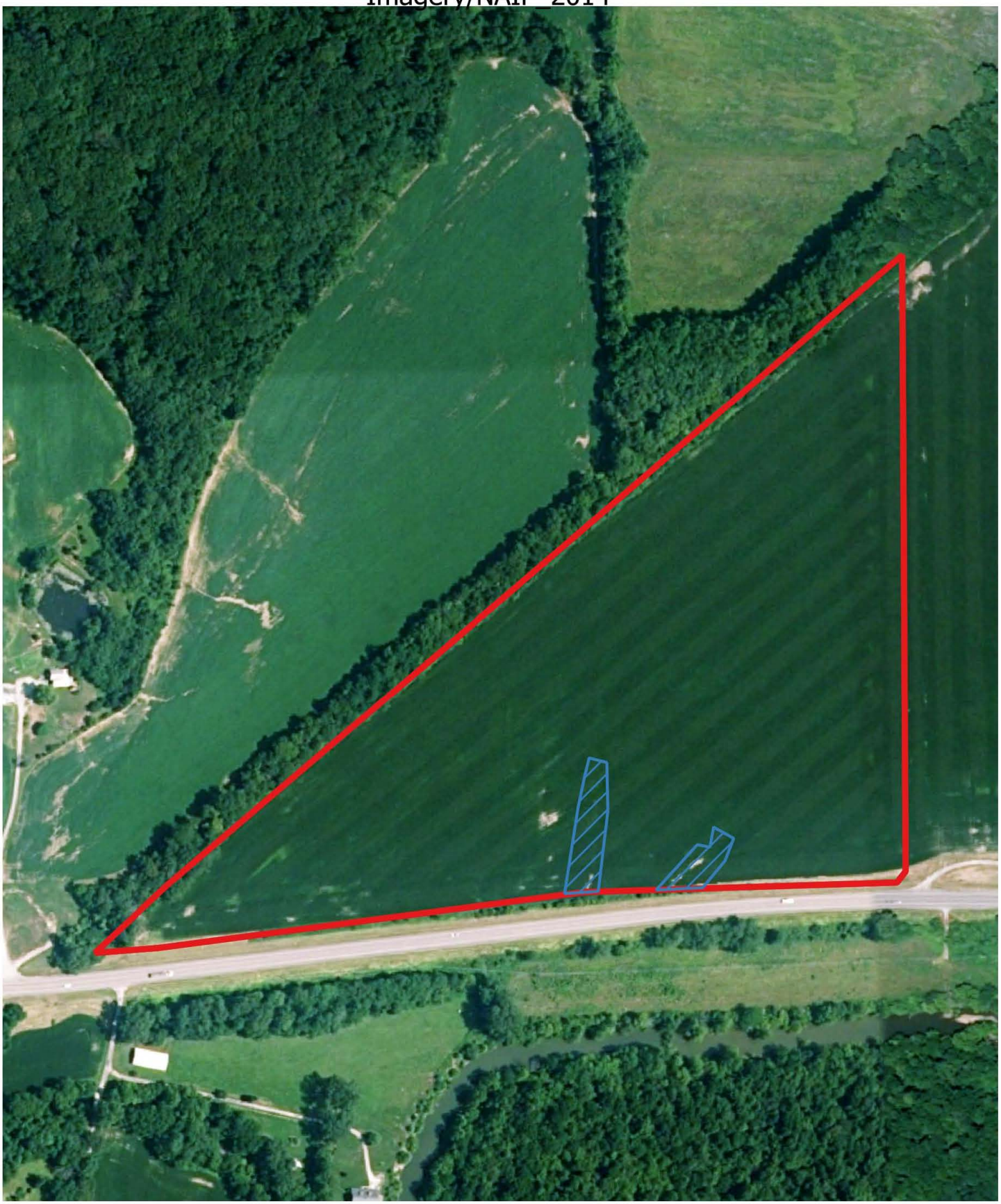


Summit Ridge Energy
Montgomery-Ellinger

Historical Imagery

N 0 250 500 ft

Imagery/NAIP_2014



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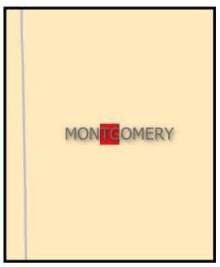
EOR water ecology community

Study Area

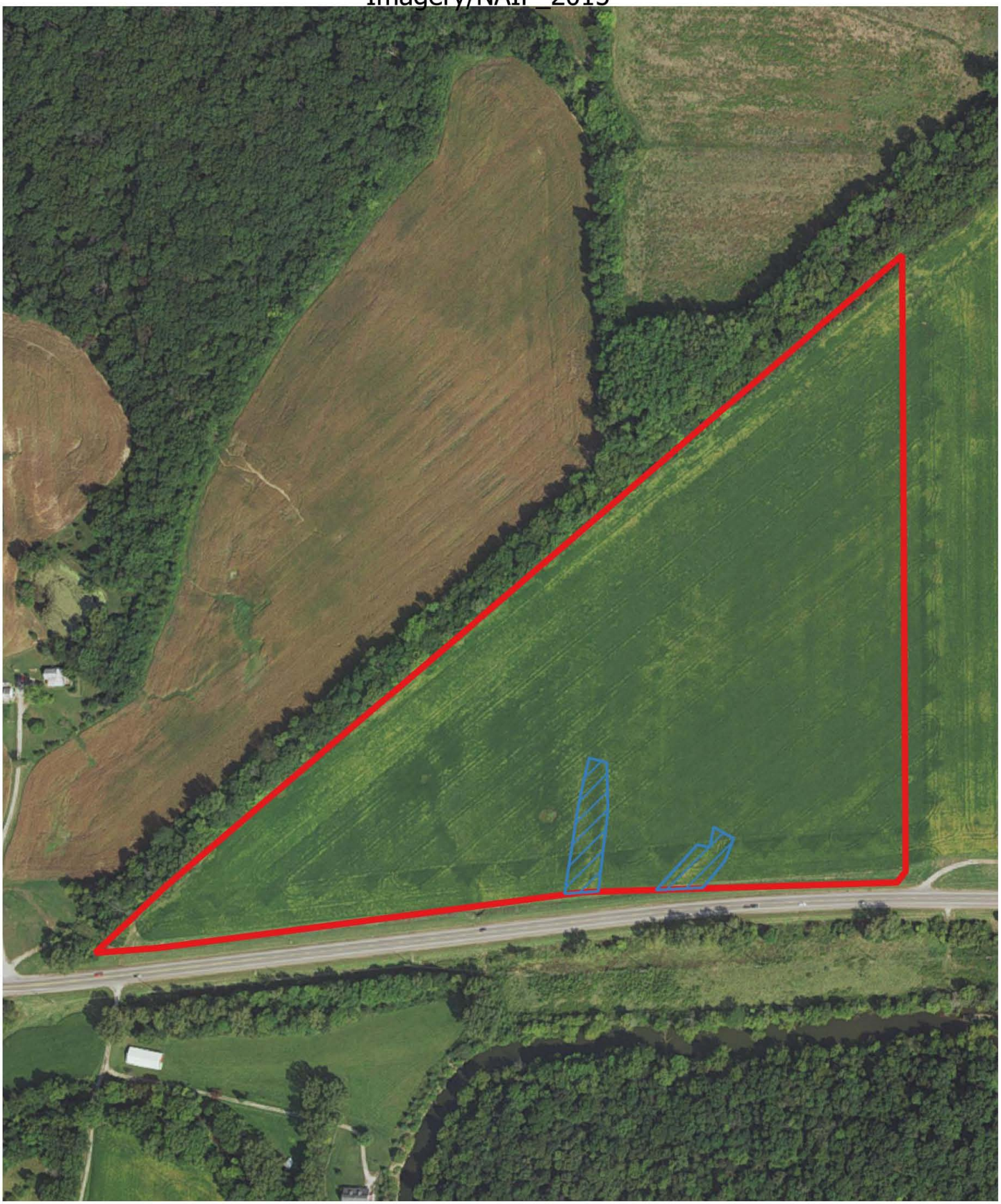


Summit Ridge Energy
Montgomery-Ellinger

Historical Imagery

N 0 250 500 ft

Imagery/NAIP_2015



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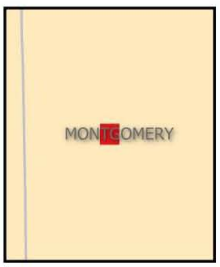
EOR water ecology community

Study Area



Summit Ridge Energy
Montgomery-Ellinger

Historical Imagery

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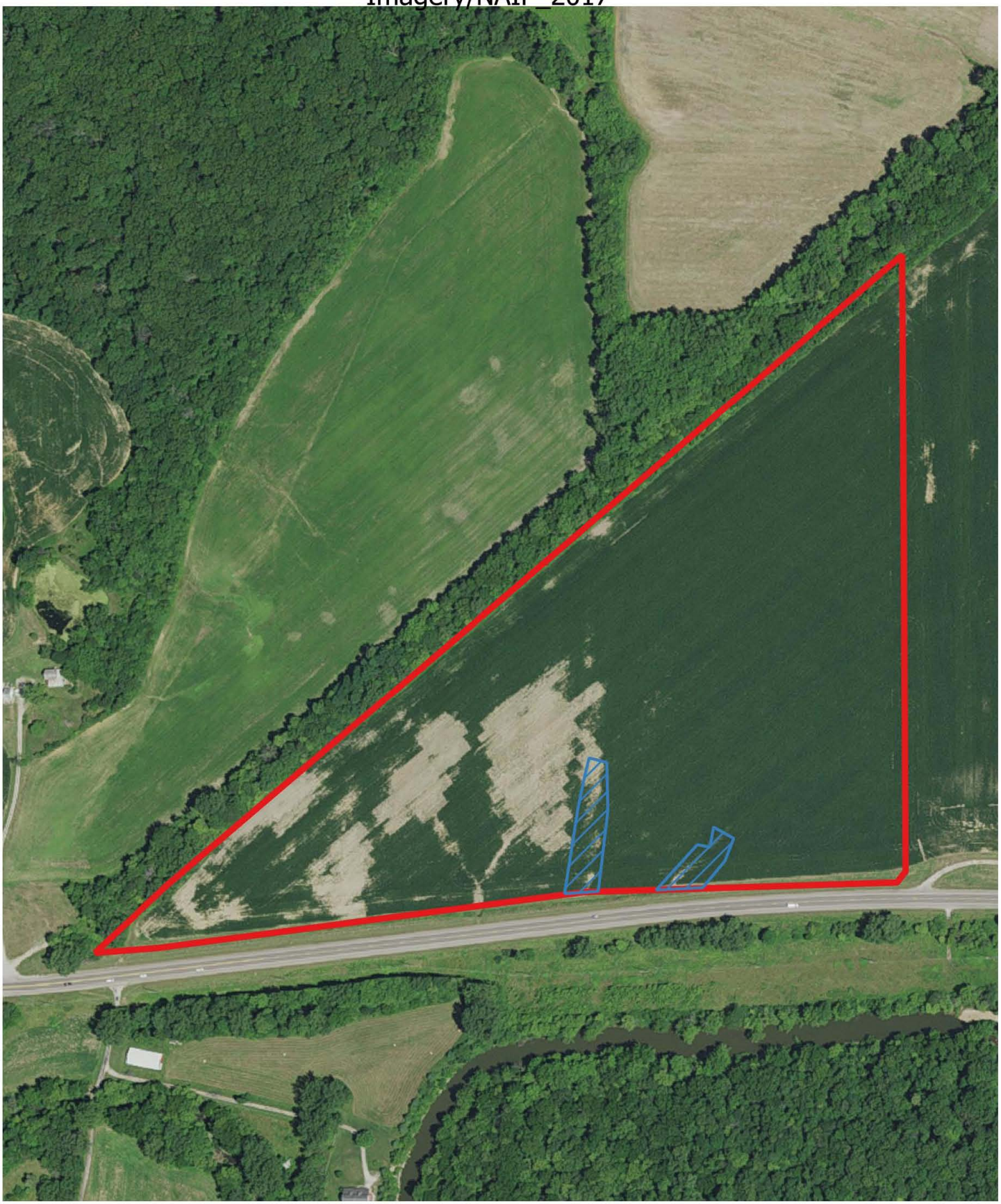
Imagery/NAIP_2017



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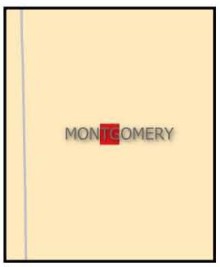
EOR water ecology community

Study Area



Summit Ridge Energy
Montgomery-Ellinger

Historical Imagery

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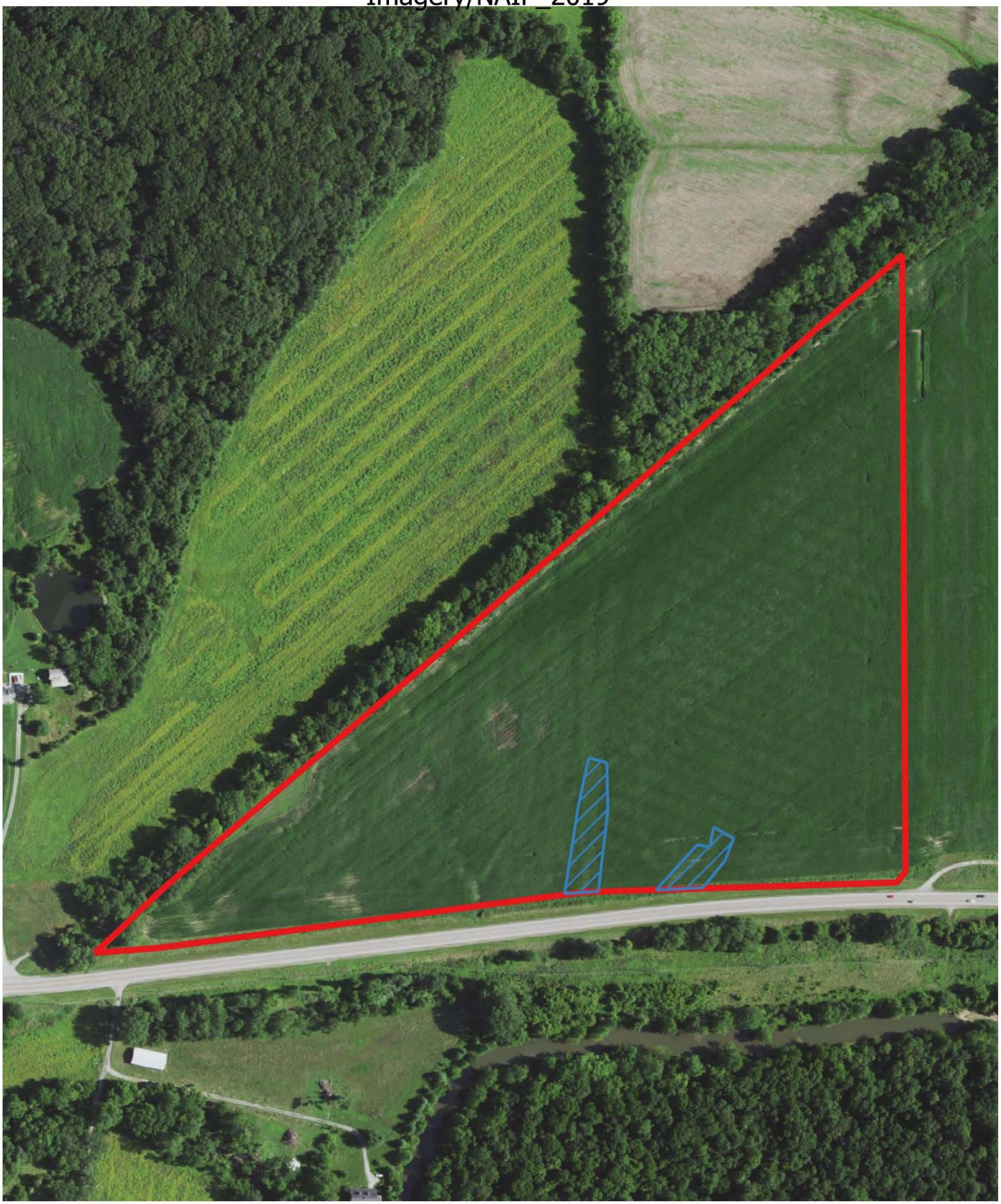
Imagery/NAIP_2019



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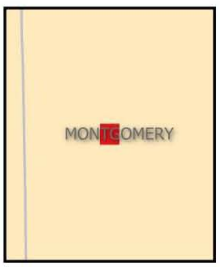
EOR water ecology community

Study Area



Summit Ridge Energy
Montgomery-Ellinger

Historical Imagery

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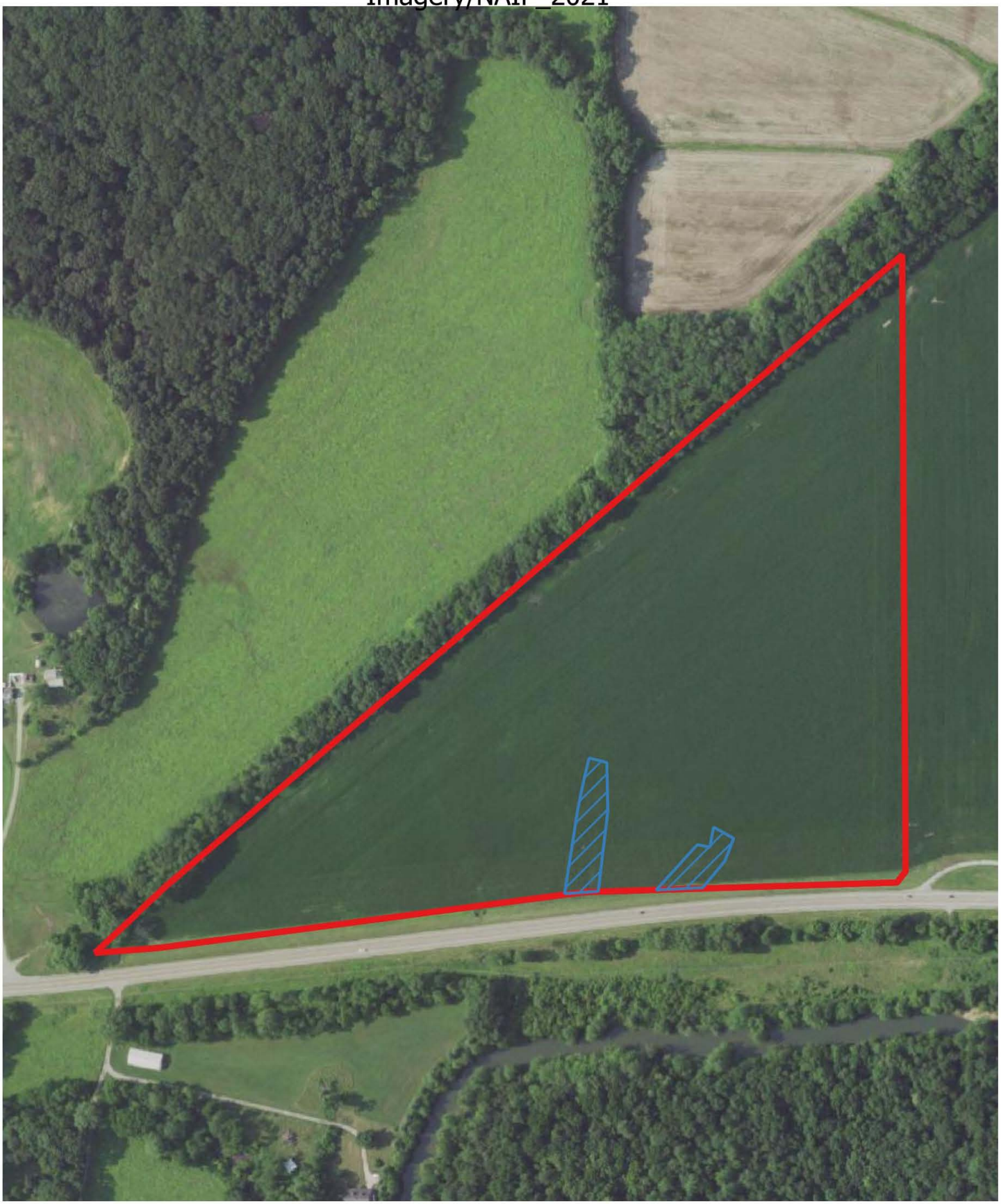
Imagery/NAIP_2021



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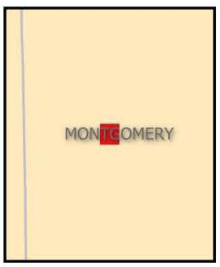
EOR water ecology community

Study Area



Summit Ridge Energy
Montgomery-Ellinger

Historical Imagery

N 0 250 500 ft

8. APPENDIX B: WETLAND DATA SHEETS AND SITE PHOTOGRAPHS

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Montgomery-Ellinger City/County: Montgomery County Sampling Date: 2024-06-06

Applicant/Owner: Summit Ridge Energy State: Illinois Sampling Point: 1U

Investigator(s): Leah Stromberg , Alyssa Wojcik Section, Township, Range: sec 36 T009N R005W

Landform (hillslope, terrace, etc.): Shoulder Local relief (concave, convex, none): Convex

Slope (%): 0-2 Lat: 39.176869 Long: -89.601528 Datum: WGS84

Soil Map Unit Name: Lawson silt loam, cool mesic, 0 to 2 percent slopes, frequently flooded NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No ✔ (If no, explain in Remarks.)

Are Vegetation ✔, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ No ✔

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____ No ✔	**Is the Sampled Area within a Wetland?** **Yes** ____ **No** ✔
Hydric Soil Present?	Yes ____ No ✔	
Wetland Hydrology Present?	Yes ____ No ✔	

Remarks:
Not normal circumstances due to disturbed vegetation - agricultural row crops.
Climatic conditions not typical - wetter than normal antecedent precipitation.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5)			
1. *Ipomoea hederacea*	4	Y	FAC
2. *Amaranthus tricolor*	3	Y	UPL
3. *Amaranthus retroflexus*	1	N	FACU
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	8.0 = Total Cover		
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0.00	x 1 =	0.00
FACW species	0.00	x 2 =	0.00
FAC species	4.00	x 3 =	12.00
FACU species	1.00	x 4 =	4.00
UPL species	3.00	x 5 =	15.00
Column Totals:	8.00 (A)		31.00 (B)

Prevalence Index = B/A = 3.88

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** ____ **No** ✔

Remarks: (Include photo numbers here or on a separate sheet.)
planted in agricultural row crops.

SOIL

Sampling Point: 1U

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-10	10YR 3/2	100					FSL	
10-24	10YR 3/2	98	10YR 5/6	2	C	M	FSL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ Coast Prairie Redox (A16)
- ___ Dark Surface (S7)
- ___ Iron-Manganese Masses (F12)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No ✔

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No ✔ Depth (inches): _____

Water Table Present? Yes _____ No ✔ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No ✔ Depth (inches): _____

Wetland Hydrology Present? Yes _____ No ✔

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

1U
2024-06-06

Lat/Long: 39.176864, -89.601524

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Montgomery-Ellinger City/County: Montgomery County Sampling Date: 2024-06-06

Applicant/Owner: Summit Ridge Energy State: Illinois Sampling Point: 1W

Investigator(s): Leah Stromberg , Alyssa Wojcik Section, Township, Range: sec 36 T009N R005W

Landform (hillslope, terrace, etc.): Footslope Local relief (concave, convex, none): Concave

Slope (%): 0-2 Lat: 39.176938 Long: -89.601618 Datum: WGS84

Soil Map Unit Name: Lawson silt loam, cool mesic, 0 to 2 percent slopes, frequently flooded NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No ✔ (If no, explain in Remarks.)

Are Vegetation ✔, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ No ✔

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✔ No ____	**Is the Sampled Area within a Wetland?** **Yes ✔ No ____**
Hydric Soil Present?	Yes ✔ No ____	
Wetland Hydrology Present?	Yes ✔ No ____	

Remarks:
Not normal circumstances due to disturbed vegetation - agricultural row crops.
Climatic conditions not typical - wetter than normal antecedent precipitation.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Ulmus americana*	40	Y	FACW
2.			
3.			
4.			
5.			
	40.0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5)			
1. *Atriplex prostrata*	5	Y	FAC
2. *Helianthus tuberosus*	1	N	FACU
3. *Setaria viridis*	1	N	UPL
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	7.0 = Total Cover		
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0.00	x 1 =	0.00
FACW species	40.00	x 2 =	80.00
FAC species	5.00	x 3 =	15.00
FACU species	1.00	x 4 =	4.00
UPL species	1.00	x 5 =	5.00
Column Totals:	47.00 (A)		104.00 (B)

Prevalence Index = B/A = 2.21

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

✔ 2 - Dominance Test is >50%

✔ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes ✔ No ____**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 1W

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-8	10YR 3/1	100					SIL	
8-12	10YR 3/1	90	10YR 5/6	10	C	M	CL	
12-13	10YR 3/1	70	10R 5/6	30	C	M	CL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ✔ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ Coast Prairie Redox (A16)
- ___ Dark Surface (S7)
- ___ Iron-Manganese Masses (F12)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: Gravel

Depth (inches): 13

Hydric Soil Present? Yes ✔ **No** ___

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ✔ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ✔ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ✔ Geomorphic Position (D2)
- ✔ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ___ No ✔ Depth (inches): ___

Water Table Present? Yes ___ No ✔ Depth (inches): ___

Saturation Present? (includes capillary fringe) Yes ___ No ✔ Depth (inches): ___

Wetland Hydrology Present? Yes ✔ **No** ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Montgomery-Ellinger City/County: Montgomery County Sampling Date: 2024-06-06

Applicant/Owner: Summit Ridge Energy State: Illinois Sampling Point: 2U

Investigator(s): Leah Stromberg , Alyssa Wojcik Section, Township, Range: sec 36 T009N R005W

Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): Microtopography

Slope (%): 0-2 Lat: 39.175385 Long: -89.602952 Datum: WGS84

Soil Map Unit Name: Lawson silt loam, cool mesic, 0 to 2 percent slopes, frequently flooded NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No ✔ (If no, explain in Remarks.)

Are Vegetation ✔, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ No ✔

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____ No ✔	**Is the Sampled Area within a Wetland?** **Yes** ____ **No** ✔
Hydric Soil Present?	Yes ____ No ✔	
Wetland Hydrology Present?	Yes ____ No ✔	

Remarks:
Not normal circumstances due to disturbed vegetation - agricultural row crops.
Climatic conditions not typical - wetter than normal antecedent precipitation.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5)			
1. *Cyperus rotundus*	1		
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	1.0 = Total Cover		
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 0 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ____ (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0.00	x 1 =	0.00
FACW species	0.00	x 2 =	0.00
FAC species	0.00	x 3 =	0.00
FACU species	0.00	x 4 =	0.00
UPL species	0.00	x 5 =	0.00
Column Totals:	0.00 (A)		0.00 (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

__ 1 - Rapid Test for Hydrophytic Vegetation

__ 2 - Dominance Test is >50%

__ 3 - Prevalence Index is ≤3.0[1]

__ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** ____ **No** ✔

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 2U

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-15	10YR 3/2	100					SIL	
15-24	10YR 3/3	97	10YR 5/6	3	C	M	SICL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ Coast Prairie Redox (A16)
- ___ Dark Surface (S7)
- ___ Iron-Manganese Masses (F12)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No ✔

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ✔ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No ✔ Depth (inches): _____

Water Table Present? Yes _____ No ✔ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ✔ No _____ Depth (inches): 24

Wetland Hydrology Present? Yes _____ No ✔

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

2U
2024-06-06

Lat/Long: 39.175392, -89.602957

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Montgomery-Ellinger City/County: Montgomery County Sampling Date: 2024-06-07

Applicant/Owner: Summit Ridge Energy State: Illinois Sampling Point: 3U

Investigator(s): Leah Stromberg Section, Township, Range: sec 36 T009N R005W

Landform (hillslope, terrace, etc.): Sideslope Local relief (concave, convex, none): Convex

Slope (%): 0-2 Lat: 39.174498 Long: -89.600917 Datum: WGS84

Soil Map Unit Name: Lawson silt loam, cool mesic, 0 to 2 percent slopes, frequently flooded NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No ✔ (If no, explain in Remarks.)

Are Vegetation ✔, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ No ✔

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____ No ✔	**Is the Sampled Area within a Wetland?** **Yes** ____ **No** ✔
Hydric Soil Present?	Yes ____ No ✔	
Wetland Hydrology Present?	Yes ____ No ✔	

Remarks:
Not normal circumstances due to disturbed vegetation - agricultural row crops.
Climatic conditions not typical - wetter than normal antecedent precipitation.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5)			
1. *Ipomoea purpurea*	7	Y	FACU
2. *Amaranthus retroflexus*	3	Y	FACU
3. *Ranunculus abortivus*	1	N	FACW
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	11.0 = Total Cover		
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0.00	x 1 =	0.00
FACW species	1.00	x 2 =	2.00
FAC species	0.00	x 3 =	0.00
FACU species	10.00	x 4 =	40.00
UPL species	0.00	x 5 =	0.00
Column Totals:	11.00 (A)		42.00 (B)

Prevalence Index = B/A = 3.82

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** ____ **No** ✔

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 3U

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-16	10YR 3/2						SICL	
16-24	10YR 3/2	96	10YR 5/6	4	C	PL	SIL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ Coast Prairie Redox (A16)
- ___ Dark Surface (S7)
- ___ Iron-Manganese Masses (F12)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No ✔

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No ✔ Depth (inches): _____

Water Table Present? Yes _____ No ✔ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No ✔ Depth (inches): _____

Wetland Hydrology Present? Yes _____ No ✔

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

3U
2024-06-07

Lat/Long: 39.174480, -89.600928

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Montgomery-Ellinger City/County: Montgomery County Sampling Date: 2024-06-07

Applicant/Owner: Summit Ridge Energy State: Illinois Sampling Point: 3W

Investigator(s): Leah Stromberg , Alyssa Wojcik Section, Township, Range: sec 36 T009N R005W

Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave

Slope (%): 0-2 Lat: 39.174513 Long: -89.600902 Datum: WGS84

Soil Map Unit Name: Lawson silt loam, cool mesic, 0 to 2 percent slopes, frequently flooded NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No ✔ (If no, explain in Remarks.)

Are Vegetation ✔, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ No ✔

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✔ No ____	**Is the Sampled Area within a Wetland?** **Yes ✔ No ____**
Hydric Soil Present?	Yes ✔ No ____	
Wetland Hydrology Present?	Yes ✔ No ____	

Remarks:
Not normal circumstances due to disturbed vegetation - agricultural row crops.
Climatic conditions not typical - wetter than normal antecedent precipitation.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5)			
1. *Ipomoea purpurea*	15	Y	FACU
2. *Oryza sativa*	4	Y	OBL
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	19.0 = Total Cover		
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	4.00	x 1 =	4.00
FACW species	0.00	x 2 =	0.00
FAC species	0.00	x 3 =	0.00
FACU species	15.00	x 4 =	60.00
UPL species	0.00	x 5 =	0.00
Column Totals:	19.00 (A)		64.00 (B)

Prevalence Index = B/A = 3.37

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes ✔ No ____**

Remarks: (Include photo numbers here or on a separate sheet.)
Assumed vegetation. Planted in agricultural row crops.

SOIL

Sampling Point: 3W

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-3	10YR 3/1	100					SIL	
3-7	10YR 3/1	98	10YR 5/6	2			SIL	
7-10	10YR 3/1	90	10YR 4/6	10	C	M	SICL	
10-24	10YR 5/1	80	7.5YR 4/6	20	C	M	SICL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ✔ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ✔ Depleted Matrix (F3)
- ✔ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ Coast Prairie Redox (A16)
- ___ Dark Surface (S7)
- ___ Iron-Manganese Masses (F12)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ✔ No ___

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ✔ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ✔ Geomorphic Position (D2)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ___ No ✔ Depth (inches): _____

Water Table Present? Yes ___ No ✔ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ___ No ✔ Depth (inches): _____

Wetland Hydrology Present? Yes ✔ No ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:


3W
2024-06-07
Lat/Long: 39.174514, -89.600940

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Montgomery-Ellinger City/County: Montgomery County Sampling Date: 2024-06-07

Applicant/Owner: Summit Ridge Energy State: Illinois Sampling Point: 4U

Investigator(s): Leah Stromberg, Alyssa Wojcik Section, Township, Range: sec 36 T009N R005W

Landform (hillslope, terrace, etc.): Headslope Local relief (concave, convex, none): Convex

Slope (%): 0-2 Lat: 39.174522 Long: -89.601857 Datum: WGS84

Soil Map Unit Name: Lawson silt loam, cool mesic, 0 to 2 percent slopes, frequently flooded NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No ✔ (If no, explain in Remarks.)

Are Vegetation ✔, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ No ✔

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____ No ✔	**Is the Sampled Area within a Wetland?** **Yes** ____ **No** ✔
Hydric Soil Present?	Yes ____ No ✔	
Wetland Hydrology Present?	Yes ____ No ✔	

Remarks:
Not normal circumstances due to disturbed vegetation - agricultural row crops.
Climatic conditions not typical - wetter than normal antecedent precipitation.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5)			
1. *Ipomoea purpurea*	3	N	FACU
2. *Cyperus rotundus*	1	N	FAC
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	4.0 = Total Cover		
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 0 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ____ (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0.00	x 1 =	0.00
FACW species	0.00	x 2 =	0.00
FAC species	1.00	x 3 =	3.00
FACU species	3.00	x 4 =	12.00
UPL species	0.00	x 5 =	0.00
Column Totals:	4.00 (A)		15.00 (B)

Prevalence Index = B/A = 3.75

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** ____ **No** ✔

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 4U

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-7	10YR 3/2	100					SIL	
7-24	10R 3/2	98	10YR 4/6	2	C	M	SIL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ Coast Prairie Redox (A16)
- ___ Dark Surface (S7)
- ___ Iron-Manganese Masses (F12)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No ✔

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No ✔ Depth (inches): _____

Water Table Present? Yes _____ No ✔ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No ✔ Depth (inches): _____

Wetland Hydrology Present? Yes _____ No ✔

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Montgomery-Ellinger City/County: Montgomery County Sampling Date: 2024-06-07

Applicant/Owner: Summit Ridge Energy State: Illinois Sampling Point: 4W

Investigator(s): Leah Stromberg , Alyssa Wojcik Section, Township, Range: sec 36 T009N R005W

Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave

Slope (%): 0-2 Lat: 39.174544 Long: -89.601795 Datum: WGS84

Soil Map Unit Name: Lawson silt loam, cool mesic, 0 to 2 percent slopes, frequently flooded NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No ✔ (If no, explain in Remarks.)

Are Vegetation ✔, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ No ✔

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✔ No ____	**Is the Sampled Area within a Wetland?** **Yes ✔ No ____**
Hydric Soil Present?	Yes ✔ No ____	
Wetland Hydrology Present?	Yes ✔ No ____	

Remarks:
Not normal circumstances due to disturbed vegetation - agricultural row crops.
Climatic conditions not typical - wetter than normal antecedent precipitation.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5)			
1. *Cyperus rotundus*	1	N	FAC
2. *Ipomoea purpurea*	1	N	FACU
3. *Poa compressa*	1	N	FACU
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	3.0 = Total Cover		
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 0 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ____ (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0.00	x 1 =	0.00
FACW species	0.00	x 2 =	0.00
FAC species	1.00	x 3 =	3.00
FACU species	2.00	x 4 =	8.00
UPL species	0.00	x 5 =	0.00
Column Totals:	3.00 (A)		11.00 (B)

Prevalence Index = B/A = 3.67

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes ✔ No ____**

Remarks: (Include photo numbers here or on a separate sheet.)
Assumed vegetation. Planted in agricultural row crops.

SOIL

Sampling Point: 4W

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-3	10YR 4/2	100					SIL	
3-8	10YR 4/2	98	10YR 5/6	2	C	M	SIL	
8-12	10YR 4/2	93	10YR 5/6	5	C	M	SIL	
			7.5YR 4/3	2	C	M	SIL	
12-24	10YR 4/2	85	10YR 5/6	15	C	PL	SIL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ✔ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ Coast Prairie Redox (A16)
- ___ Dark Surface (S7)
- ___ Iron-Manganese Masses (F12)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ✔ No ___

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ✔ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ✔ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ✔ Geomorphic Position (D2)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ___ No ✔ Depth (inches): _____

Water Table Present? Yes ___ No ✔ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ___ No ✔ Depth (inches): _____

Wetland Hydrology Present? Yes ✔ No ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

4W
2024-06-07

Lat/Long: 39.174552, -89.601799

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Montgomery-Ellinger City/County: Montgomery County Sampling Date: 2024-06-07

Applicant/Owner: Summit Ridge Energy State: Illinois Sampling Point: 5U

Investigator(s): Leah Stromberg , Alyssa Wojcik Section, Township, Range: sec 01 T008N R005W

Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): _____

Slope (%): _____ Lat: 39.174384 Long: -89.602786 Datum: WGS84

Soil Map Unit Name: Lawson silt loam, cool mesic, 0 to 2 percent slopes, frequently flooded NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No ✔ (If no, explain in Remarks.)

Are Vegetation ✔, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No ✔

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____ No ✔	**Is the Sampled Area within a Wetland?** Yes _____ No ✔
Hydric Soil Present?	Yes _____ No ✔	
Wetland Hydrology Present?	Yes _____ No ✔	

Remarks:
Not normal circumstances due to disturbed vegetation - agricultural row crops.
Climatic conditions not typical - wetter than normal antecedent precipitation.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5)			
1. *Ipomoea purpurea*	6	Y	FACU
2. *Cyperus rotundus*	4	Y	FAC
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	10.0 = Total Cover		
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0.00	x 1 =	0.00
FACW species	0.00	x 2 =	0.00
FAC species	4.00	x 3 =	12.00
FACU species	6.00	x 4 =	24.00
UPL species	0.00	x 5 =	0.00
Column Totals:	10.00 (A)		36.00 (B)

Prevalence Index = B/A = 3.6

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes _____ No ✔

Remarks: (Include photo numbers here or on a separate sheet.)
Planted in agricultural row crops.

SOIL

Sampling Point: 5U

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-5	10YR 3/2	100					SIL	
5-20	10YR 3/2	99	10YR 4/6	1	C	M	SIL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ Coast Prairie Redox (A16)
- ___ Dark Surface (S7)
- ___ Iron-Manganese Masses (F12)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No ✔

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ✔ Geomorphic Position (D2)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No ✔ Depth (inches): _____

Water Table Present? Yes _____ No ✔ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No ✔ Depth (inches): _____

Wetland Hydrology Present? Yes _____ No ✔

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:


5U
2024-06-07
Lat/Long: 39.174439, -89.602788