

Wetland Delineation Report

Big Timber & Reinking Roads Site

Town of Rutland, Kane County, Illinois December 13, 2024

Project Number: 20241389

Big Timber & Reinking Roads Site

Town of Rutland, Kane County, Illinois December 13, 2024

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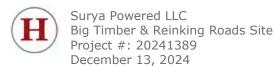
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Table of Contents

1.0	Introduction	4
2.0	Methods	5
2.1	Wetlands	5
3.0	Results and Discussion	7
3.1	Desktop Review	7
Ta	able 1. Summary of NRCS Mapped Soils within the Study Area	8
3.2	Field Review	. 10
Ta	able 2. Summary of Wetlands Identified within the Study Area	. 11
3.3	Other Considerations	. 13
4.0	Conclusion	. 14
5.0	References	. 15

- Appendix A | Figures and Kane County ADID Map
- Appendix B | APT Analysis
- Appendix C | Wetland Determination Data Sheets
- Appendix D | Site Photographs
- Appendix E | Delineator Qualifications
- Appendix F | Off-Site Analysis



1.0 Introduction

Heartland Ecological Group, Inc. ("Heartland") completed a wetland determination and delineation on the Big Timber and Reinking Roads site on November 6, 2024 at the request of Surya Powered LLC. Fieldwork was completed by Eric C. Parker, SPWS (Appendix E, Qualifications). The 108.64-acre site (the "Study Area") is southwest of the intersection of Interstate Highway (IH) 90 and Illinois Route (IR) 47, in Sections 18, 19, and 20, T42N, R7E, Town of Rutland, Kane County, IL (Figure 1, Appendix A). The purpose of the wetland determination and delineation was to determine the location and extent of wetlands and jurisdictional waterways or water bodies within the Study Area.

Five (5) wetland areas totaling approximately 3.78 acres were delineated and mapped within the Study Area (Figure 6, Appendix A). One (1) waterway, the Kishwaukee River, and no (0) waterbodies (e.g., lakes, reservoirs, or ponds) were observed within, or immediately adjacent to, the Study Area. One (1) ADID wetlands are mapped within the Study Area. ADID wetland #440 is mapped just outside the Study Area to the southeast and ADID wetland #434 is just inside the study area to the southwest (ADID exhibit, Appendix A).

Wetlands, waterways, and water bodies discussed in this report may be subject to federal regulation under the jurisdiction of the U.S. Army Corps of Engineers (USACE), state regulation under the jurisdiction of the Illinois Environmental Protection Agency (IEPA), and local or county zoning authorities. Heartland recommends this report be submitted to local authorities, the IEPA, and USACE for final jurisdictional review and concurrence.



Surya Powered LLC Big Timber & Reinking Roads Site

Project #: 20241389 December 13, 2024

2.0 Methods

2.1 Wetlands

Wetlands were determined and delineated using the criteria and methods described in the USACE Wetlands Delineation Manual, T.R. Y-87-1 ("1987 Corps Manual") and the applicable Regional Supplement to the Corps of Engineers Wetland Delineation Manual.

Determinations and delineations utilized available resources including the U.S. Geological Survey's (USGS) *WI 7.5 Minute Series (Topographic) Map* (Figure 2, Appendix A), the Natural Resource Conservation Service's (NRCS) Soil Survey Geographic Database (SSURGO), U.S. Department of Agriculture's (USDA) *Web Soil Survey* (Figure 3, Appendix A), the U.S. Fish and Wildlife Service's (USFWS) *National Wetland Inventory* mapping (Figure 4, Appendix A), and the Illinois Geospatial Data Clearinghouse's *Illinois Height Modernization (ILHMP): LiDAR data* (Figure 5, Appendix A). The USGS *National Hydrography Dataset* is included on Figures 2 and 4, Appendix A. A map showing Kane County ADID (Advanced Identification) wetlands is included in Appendix A.

Wetland determinations were completed on-site at sample points, often along transects, using the three (3) criteria (vegetation, soil, and hydrology) approach per the 1987 Corps Manual and the Regional Supplement. Procedures in these sources were followed to demonstrate that, under normal circumstances, wetlands were present or not present based on a predominance of hydrophytic vegetation, hydric soils, and wetland hydrology.

Atypical conditions were encountered within the Study Area due to the presence of agricultural fields including row-cropping in areas with soils that may be hydric based on the Web Soil Survey. Therefore, procedures for managed plant communities in the Problematic hydrophytic vegetation section described in Chapter 5 of the Regional Supplement were used. Historical aerial imagery was reviewed for evidence of crop stress, saturation, or inundation signatures. Sample point placements for the wetland delineation were partially determined based on such signatures.

In actively farmed areas within the Study Area where hydric soils may be present, methods described in Chapter 5 (Difficult Wetland Situations) of the Regional Supplement were followed. Available aerial imagery was analyzed using procedures described in the *Guidance*



Surya Powered LLC Big Timber & Reinking Roads Site

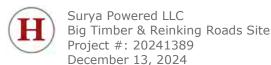
Project #: 20241389 December 13, 2024

for Offsite Hydrology/Wetland Determinations (USACE and Minnesota Board of Water and Soil Resources, July 2016 - "July 2016 Guidance") and the ECS-Wetland Mapping Conventions per Illinois Bulletin No. IL 190-8-4, December 1997 (1997 Illinois Guidance). However, FSA slides were not utilized. An off-site aerial imagery analysis (Off-Site Analysis) was completed to document the presence or absence of wetland signatures and assist in the wetland determination. A wetland signature is evidence, recorded by aerial imagery, of ponding, flooding, or impacts of saturation for sufficient duration to meet wetland hydrology and possibly wetland vegetation criteria. Wetland signatures often vary based on the type and seasonal date of the aerial imagery. For example, there are seven (7) standardized signature types in actively farmed settings described in the July 2016 Guidance and in the Illinois Guidance. To assist in interpretations of wetland signatures, a WETS analysis was used to compare antecedent precipitation in the three (3) months leading up to each aerial image to the long-term (30-year) precipitation averages and standard deviation to determine if antecedent precipitation conditions for each image was normal, wet, or dry. Areas within agricultural fields are typically determined to be wetland if hydric soils and wetland hydrology indicators are present and aerial images taken in the five (5) (or more) most recent normal antecedent precipitation images show at least one (1) of the wetland signatures per the July 2016 Guidance and Illinois Guidance. Although the Off-Site Analysis concentrates on imagery taken under normal antecedent precipitation conditions, the images determined to be taken under wet and dry antecedent precipitation conditions were also analyzed and considered. Determinations and delineation of wetlands in agricultural areas are typically based on an outline of the largest wetland signature on an image taken under "normal" antecedent conditions and based on the consistency of the signatures (1997 Illinois Guidance).

Given the farmed status of the wetlands that were delineated, a Floristic Quality Assessment (FQA) was not completed.

Recent weather conditions influence the visibility or presence of certain wetland hydrology indicators. An assessment of recent precipitation patterns helps to determine if climatic/hydrologic conditions were typical when the field investigation was completed. Therefore, a review of antecedent precipitation in the 90 days leading up to the field investigation was completed. Using an Antecedent Precipitation Tool (APT) analysis developed by the USACE (Deters & Gutenson 2021), the amount of precipitation over these

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90 days was compared to averages and standard deviation thresholds observed over the past 30 years to generally represent if conditions encountered during the investigation were normal, wet, or dry. Recent precipitation events in the weeks prior to the investigation were also considered while interpreting wetland hydrology indicators. Finally, the Palmer Drought Severity Index was checked for long-term drought or moist conditions (NOAA, 2018).

The uppermost wetland boundary and sample points were identified and marked with wetland flagging and located with a Global Navigation Satellite System (GNSS) receiver capable of sub-meter accuracy. In some cases, wetland flagging was not utilized to mark the boundary, and the location was only recorded with a GNSS receiver, particularly in active agricultural areas. The GNSS data was then used to map the wetlands using ESRI ArcGIS ProTM software.

Field-observed waterways and waterbodies within the Study Area were identified and mapped in this investigation if they may be under federal, state, or local zoning authority or were previously identified on Figures 2 and 4. Culverts associated with ditches and waterways were also identified and located with GPS if they were adjacent to wetland boundaries.

3.0 Results and Discussion

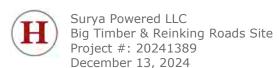
3.1 Desktop Review

Climatic Conditions and Growing Season

According to the APT analysis using the previous 90 days of precipitation data, conditions encountered at the time of the November 6, 2024 fieldwork were expected to be drier than normal for the time of year (Appendix B). The Palmer Drought Severity Index was checked as part of the APT analysis, and the long-term conditions at the time of the fieldwork were in the mild drought range. Fieldwork was completed outside the dry season based on long-term regional hydrology data utilized in the WebWIMP Climatic Water Balance and computed as part of the APT analysis.

General Topography and Land Use

The topography within the Study Area was rolling with various hills, depressions, swales, and slopes. A topographic high of approximately 918 feet above mean sea level (msl) is



found in the northwest portion of the Study Area adjacent to Reinking Road. Topographic lows of approximately 902 feet above msl may be found along the bank of the Kishwaukee River near the southern edge of the Study Area (Figures 2 and 5, Appendix A). Land use within the Study Area consisted primarily of agricultural row cropping. Surrounding areas are composed of mostly of other agricultural properties, with some commercial and residential properties to the southeast. General drainage is to the south following lower elevation topographic breaks to the Kishwaukee River.

Soil Mapping

Soils mapped by the NRCS Soil Survey within the Study Area, and their hydric status are summarized in Table 1. Wetlands identified during the field investigation are located primarily within areas mapped as hydric soils (Figure 3, Appendix A).

Table 1. Summary of NRCS Mapped Soils within the Study Area

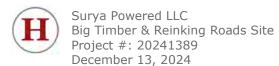
Soil symbol: Soil Unit Name	Soil Unit Component	Soil Unit Component Percentage	Landform	Hydric status
103A: Houghton muck, 0-2% slopes	Houghton- Muck	84-95	Depressions	Yes
	Houghton- Ponded	2-5	Depressions	Yes
		1-3	Lakebeds (relict)	Yes
	Adrian	1-3	Lakebeds (relict)	Yes
	Willette- Muck	0-3	Depressions	Yes
	Edwards	1-2	Depressions	Yes
125A: Selma loam, 0-2% slopes	Selma- Drained	88-100	Lake plains, stream terraces, outwash plains	Yes
	Harpster- Drained	0-3	Depressions on outwash plains and lake plains	Yes
	Orthents, loamy	0-3	Outwash plains, lake plains	No
	Urban land	0-3	Ground moraines	No
	Houghton- Drained	0-3	Depressions on outwash plains and lake plains	Yes
134C2: Camden silt loam, 5-10% slopes, eroded	Camden- Eroded	90-98	Stream terraces	No
	Drummer- Drained	1-4	Stream terraces and swales on outwash plains and till plains	Yes



Surya Powered LLC Big Timber & Reinking Roads Site

Project #: 20241389 December 13, 2024

	Huntsville-	0-2	Flood plains	No
	Occasionally			
	flooded		_	
	Millbrook	0-2	Stream terraces	No
	Senachwine	0-2	End and ground	No
	-Eroded		moraines	
149A: Brenton silt	Brenton	91-100	Outwash plains, stream	No
loam, 0-2% slopes			terraces	
	Drummer-	0-9	Swales on till plains and	Yes
	Drained		outwash plains	
152A: Drummer	Drummer-	90-100	Stream terraces and	Yes
silty clay loam, 0-	Drained		swales on outwash	
2% slopes			plains and till plains	
·	Peotone-	0-9	Depressions on outwash	Yes
	Drained		plains	
	Harpster-	0-9	Depressions on outwash	Yes
	Drained	0 0	plains	. 00
219A: Millbrook silt	Millbrook	90	Outwash plains, stream	No
loam, 0-2% slopes	1 mibrook	30	terraces	110
10d111, 0 2 70 310pc3	Pella	3	Ground moraines,	Yes
	i ella	3	outwash plains, lake	163
			plains	
	Drummer	3	Outwash plains, ground	Yes
	Didililiei	3	moraines	165
570B: Martinsville	Martinsville	92	Stream terraces,	No
silt loam, 2-4%	Martinsville	32	outwash plains	NO
I			outwasii piailis	
slopes	Selma	3	Outwork plains strong	Yes
	Seima	3	Outwash plains, stream	res
	D-II-		terraces	
	Pella	3	Ground moraines,	Yes
			outwash plains, lake	
663B B 34			plains	
662B: Barony silt	Barony	92	Stream terraces,	No
loam, 2-5% slopes	_		outwash plains	
	Drummer	3	Outwash plains, ground	Yes
			moraines	
663A: Clare silt	Clare	92-100	Outwash plains, stream	No
loam, 0-2% slopes			terraces	
	Drummer-	0-8	Outwash plains, stream	Yes
	Drained		terraces	
668B: Somonauk	Somonauk	92	Outwash plains, stream	No
silt loam, 2-5%			terraces	
slopes				
	Drummer	3	Outwash plains, ground	Yes
			moraines	
	•			



Wetland and ADID Mapping

The National Wetlands Inventory (NWI) mapping (Figure 4, Appendix A) identifies one (1) wetland area within the Study Area, a riverine wetland (R5UBH) located along the banks of the Kishwaukee River on the south boundary. One (1) "high functional value" ADID wetland (USEPA and USACE, 2004) is mapped within the Study Area, wetland #434, along the southwest boundary. ADID wetland #440 is mapped immediately southeast of the Study Area (Appendix A).

Waterway and Water Body Mapping

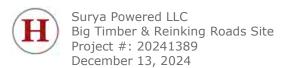
The NHD data included on Figures 2 and 4 (Appendix A) identifies one (1) waterway, the Kishwaukee River, located along the southern boundary of the Study Area. No waterbodies are depicted in the Study Area itself, but waterbodies are mapped offsite to the immediate west and south of the Study Area. One of these waterbodies appear to be artificial pond for agricultural properties to the south, while another appears to be an occasionally flooded depression to the west of the Study Area.

Off-Site Analysis

Agricultural fields within the Study Area have mapped hydric or potentially hydric soils and were the focus of the Off-Site Analysis (Appendix F). From the aerial imagery, in farmed depressional and swale areas, the primary wetland hydrology indicator of Inundation Visible on Aerial Imagery (B7) and the secondary wetland hydrology indicators of "Saturation Visible on Aerial Imagery" (C9) and "Stunted or Stressed Plants" (D1) were noted.

A total of 28 aerial images were selected and reviewed based on availability and quality of the imagery. Of these images, 17 were taken under normal antecedent precipitation conditions. Signatures were noted in six (6) locations within landscape positions described by the NRCS to support hydric soil components and were the focus of the Off-Site Analysis. At least five (5) of the seven (7) described wetland signatures per the July 2016 Guidance were consistently noted in these areas on imagery taken under normal antecedent precipitation. In imagery taken under both wet and dry antecedent precipitation conditions, such wetland signatures were similarly noted in the same six (6) areas.

Based on the Off-Site Analysis, six (6) areas were potentially wetland prior to the fieldwork. Three (3) areas were determined to be wetlands without a field review based on their high percentage of normal years with wet signatures present and hydric soils. Three (3) were



potentially wetland depending on the results of fieldwork. Based on Heartland's fieldwork on November 6, 2024, five (5) of the six (6) areas were determined to be wetland. The final wetland boundary and wetland determinations were completed in the field based on the extent of hydric soils and the presence of field-based wetland hydrology indicators.

3.2 Field Review

Five (5) wetland areas were identified and delineated within the Study Area. Wetland determination data sheets (Appendix C) were completed at 15 sample points that were representative of the wetland and upland conditions near the boundary and where potential wetlands may be present based on the desktop review and field reconnaissance. Appendix D provides photographs, typically at the sample point locations of the wetlands and adjacent uplands. The wetland boundary and sample point locations are shown on Figure 6 (Appendix A), and the wetlands are summarized in Table 2 and detailed in the following sections.

Table 2. Summary of Wetlands Identified within the Study Area

authorities may have additional restrictions. **See Appendix F.

Wetland ID	Wetland Description	*Surface Water Connections	Acreage (on- site)
W-1	Farmed Wet Meadow	Appearing Isolated in the Landscape	0.39
W-2	Farmed Wet Meadow	Appearing Isolated in the Landscape	1.74
W-3	Farmed Wet Meadow	Appearing Isolated in the Landscape	0.48
W-4	Farmed Wet Meadow	Appearing Isolated in the Landscape	0.36
W-5	Farmed Wet Meadow	Connected to the Kishwaukee River	0.82
		ofessional opinion. USACE has authority for ands and waterways. Local zoning	3.78

<u>Wetlands 1 and 5 (W-1 and W-5)</u>

Wetlands 1 and 5 (W-1 and W-5) are farmed wet meadows. W-1 is positioned within the northwest corner of the study area and W-5 is positioned along the southern boundary in the western portion of the Study Area. The boundaries generally coincided with a poorly defined topographic break preliminarily determined in the Off-Site Analysis and revised in the field based on the extent of hydric soils and/or field-based hydrology indicators.

Wetlands W-1 and W-5 both lacked normal circumstances because of soybean cropping during the 2024 growing season. Due to the results from the Off-Site Analysis, landscape position, hydrological and soil wetland indicators, and nearby vegetation, it was assumed



that hydrophytic vegetation would dominate in both wetlands under normal circumstances. Both W-1 and W-5 may be classified as farmed wet meadow communities.

The Depleted Matrix (F3) and Redox Depressions (F8) indicators were present in W-1, while the Redox Dark Surface (F6) indicator was noted in W-5. The presence of these hydric soil indicators satisfied the hydric soil parameter within both W-1 and W-5.

No primary wetland indicators were present within W-1; however, the Saturation Visible on Aerial Imagery (C9) and the Stunted or Stressed Plants (D1) secondary indicators were both noted. The presence of two secondary indicators satisfies the hydrology parameter for wetlands within W-1. Within W-5, the same secondary indicators were observed; and the primary indicators of High Water Table (A2) and Saturation (A3) were also noted. Through the presence of these indicators, the hydrology parameter was met within W-5.

Wetlands 2, 3, and 4 (W-2, W-3, and W-4)

Wetlands 2, 3, and 4 (W-2, W-3, and W-4) are isolated depressions within an agricultural field to the west of Reinking Road. These wetlands all lacked normal circumstances due to vegetation disturbance caused by soybean cropping during the 2024 growing season. The results of the Off-Site Analysis, landscape position, presence of hydrologic and soil indicators, and professional judgement led the delineator to conclude that hydrophytic vegetation would be dominant under normal circumstances. These wetlands may be classified as farmed wet meadow.

The Depleted Matrix (F3) hydric soil indicator was noted within W-2, W-3, and W-4. The presence of this indicator satisfies the hydric soil parameter for wetlands.

The secondary indicators of Saturation Visible on Aerial Imagery (C9), Stunted or Stressed Plants (D1), and Geomorphic Position (D2) were present within all three wetlands. The primary indicator of Inundation Visible on Aerial Imagery (B7) was also identified within W-2 and W-3. The wetland hydrology parameter is met within W-2, W-3, and W-4 through the presence of these indicators.

Waterways and Water Bodies

One (1) waterway, the Kishwaukee River, was identified and mapped along the southern boundary of the study area. The approximate OHWM of the Kishwaukee River is represented in Appendix A, Figure 6.

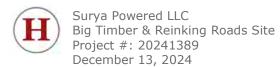


Surya Powered LLC Big Timber & Reinking Roads Site Project #: 20241389

December 13, 2024

3.3 Other Considerations

This report is limited to the identification and delineation of wetlands, waterways, and water bodies within the Study Area. Other regulated environmental resources that result in land use restrictions may be present within the Study Area and may not have been evaluated by Heartland (e.g., wetland buffers, floodplains, cultural resources, and threatened or endangered species).



4.0 Conclusion

Heartland completed a wetland determination and delineation on the Big Timber and Reinking Roads Site on November 6, 2024, at the request of Surya Powered LLC. Fieldwork was completed by Eric C. Parker, SPWS (Appendix E, Qualifications). The 108.64-acre Study Area is southwest of the intersection of IH 90 and IR 47, in Sections 18, 19, and 20, T42N, R7E, Town of Rutland, Kane County, IL (Figure 1, Appendix A).

Five (5) wetland areas totaling approximately 3.78 acres were delineated and mapped within the Study Area (Figure 6, Appendix A). One (1) waterway, the Kishwaukee River, was observed within the Study Area. One (1) highly functional value ADID wetland (#434), as depicted on Kane County GIS mapping, is partially within the Study Area.

Wetlands, waterways, and water bodies discussed in this report may be subject to federal regulation under the jurisdiction of the USACE, state regulation under the jurisdiction of the IEPA, Kane County, and the local zoning authority. Heartland recommends this report be submitted to the USACE and IEPA for final jurisdictional review and concurrence. Review by County and local authorities may be necessary for determination of applicable zoning and setback restrictions.

Heartland recommends that all applicable regulatory agency reviews and permits are obtained prior to beginning work within the Study Area or within or adjacent to wetlands or waterways. Heartland can assist with evaluating the need for additional environmental reviews, surveys, or regulatory agency coordination in consideration of the proposed activity and land use as requested but is outside of the scope of the wetland delineation.

Experienced and qualified professionals completed the wetland determination and delineation using standard practices and professional judgment. Wetland boundaries may be affected by conditions present within the Study Area at the time of the fieldwork. All final decisions on wetlands and their boundaries are made by the USACE. Wetland determination and boundary reviews by regulatory agencies may result in modifications to the findings presented to the Client. These modifications may result from varying conditions between the time the wetland delineation was completed and the time of the review. Factors that influence the findings may include but are not limited to precipitation patterns, drainage modifications, changes or modification to vegetation, and the time of year.



5.0 References

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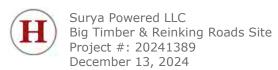
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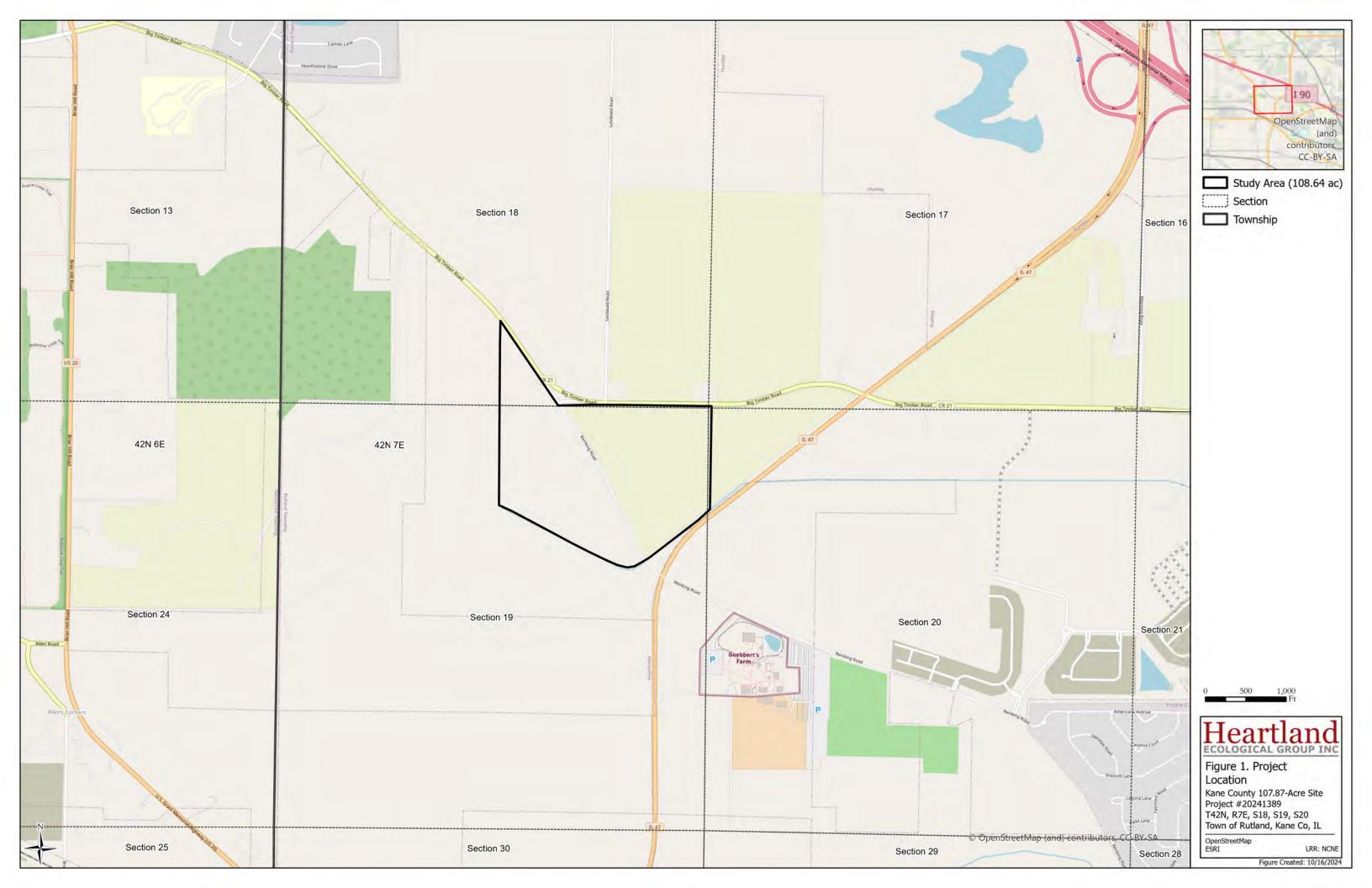


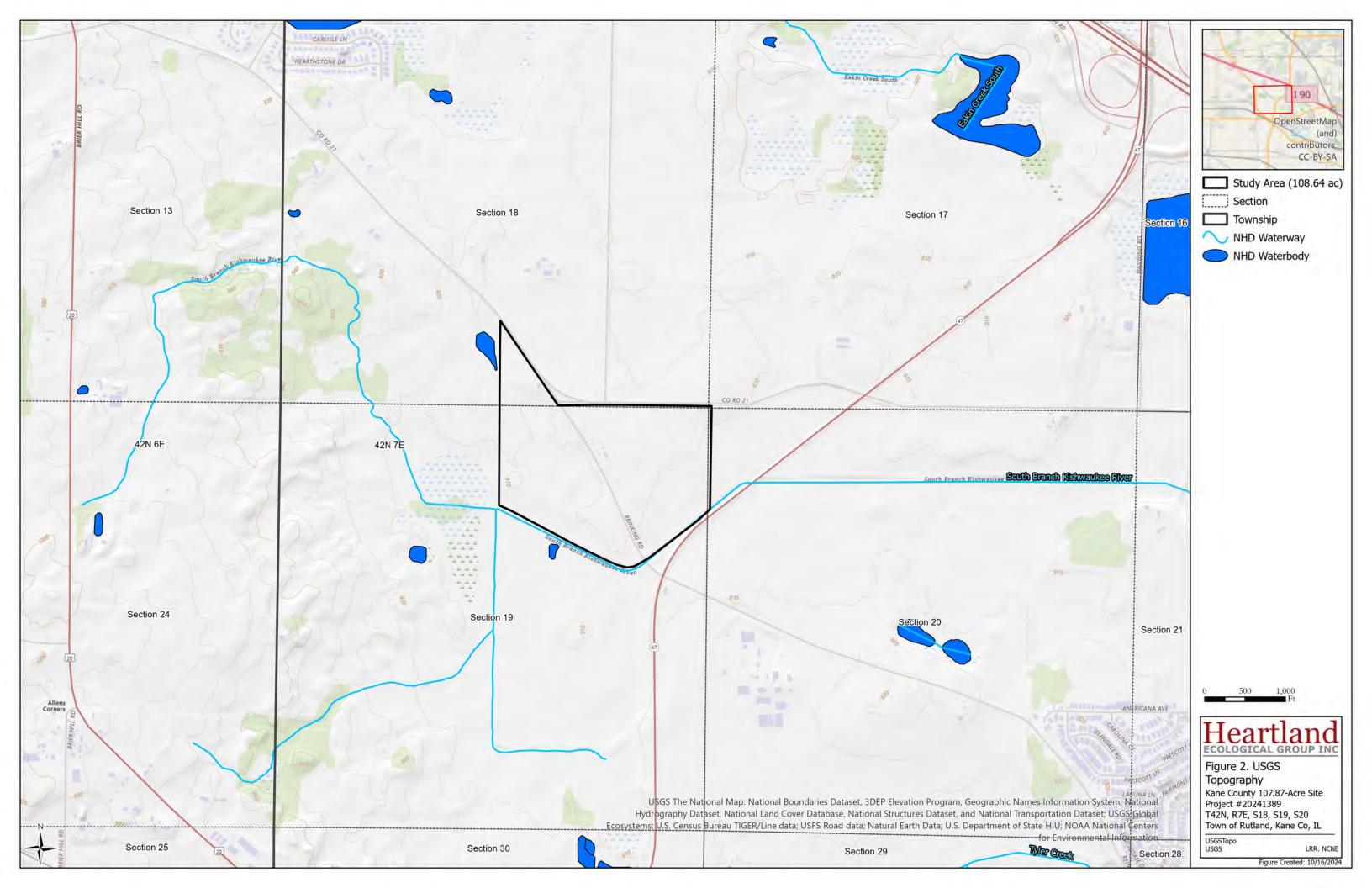
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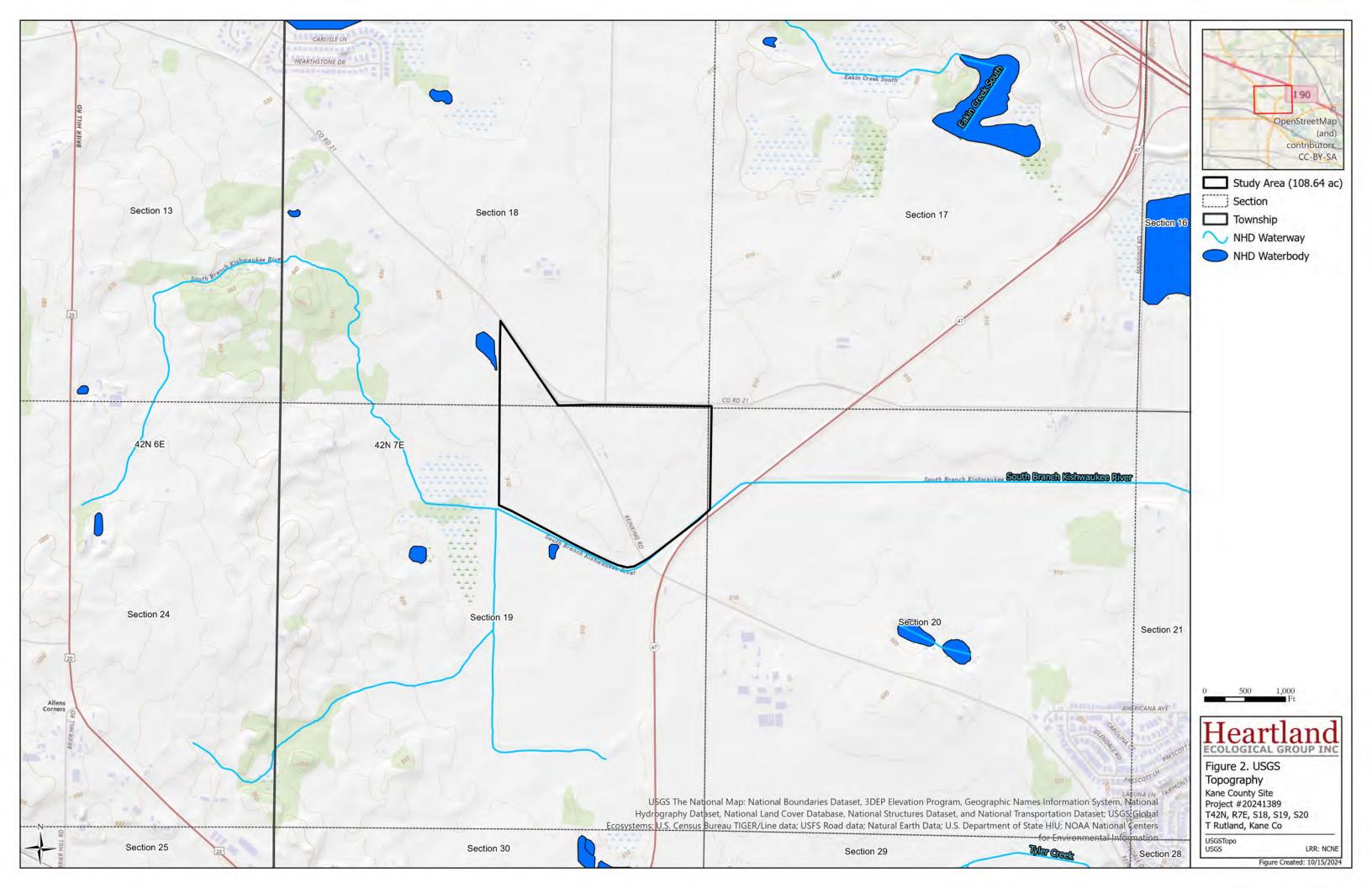
December 13, 2024

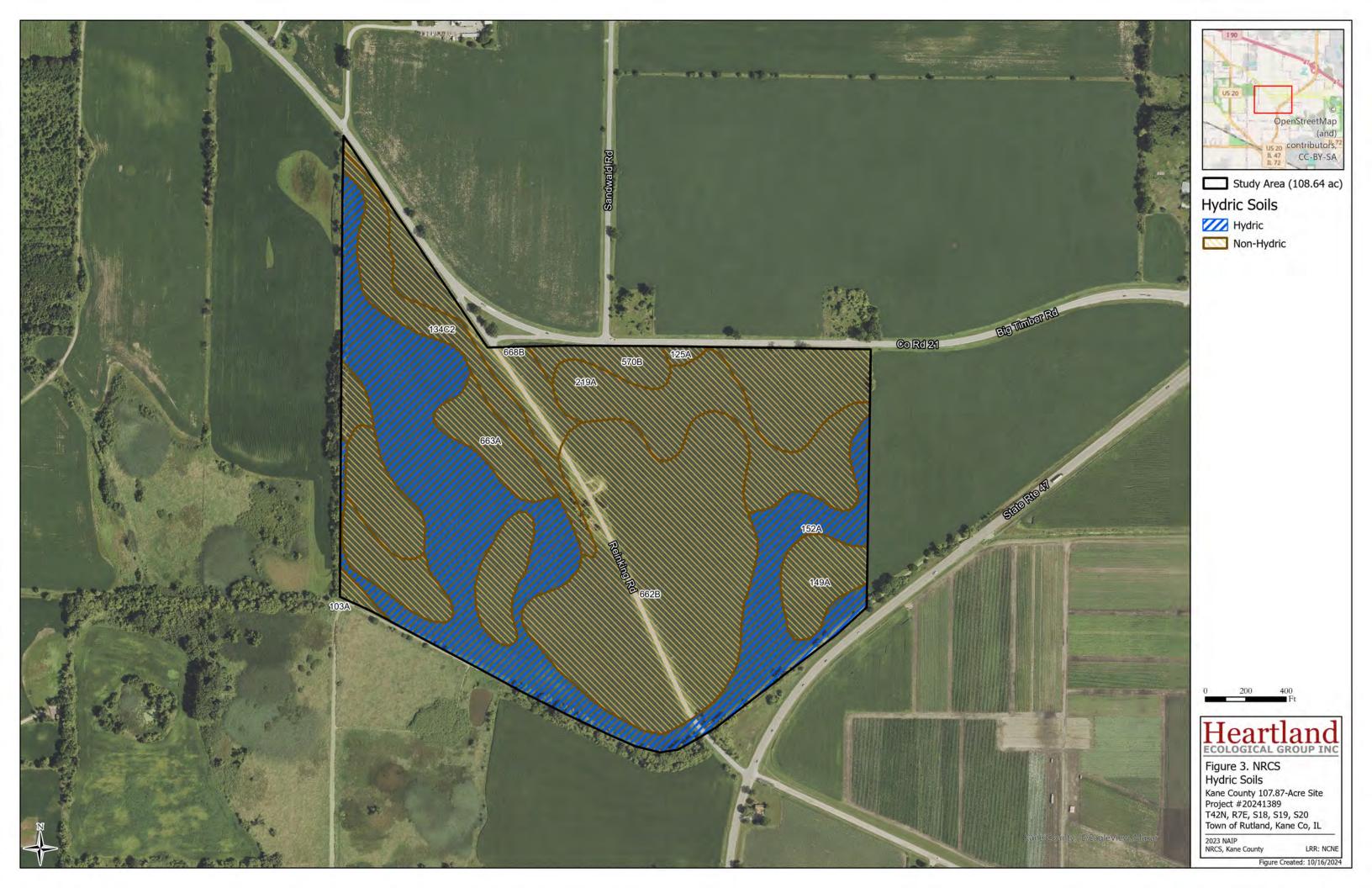
Appendix A | Figures and Kane County ADID Map

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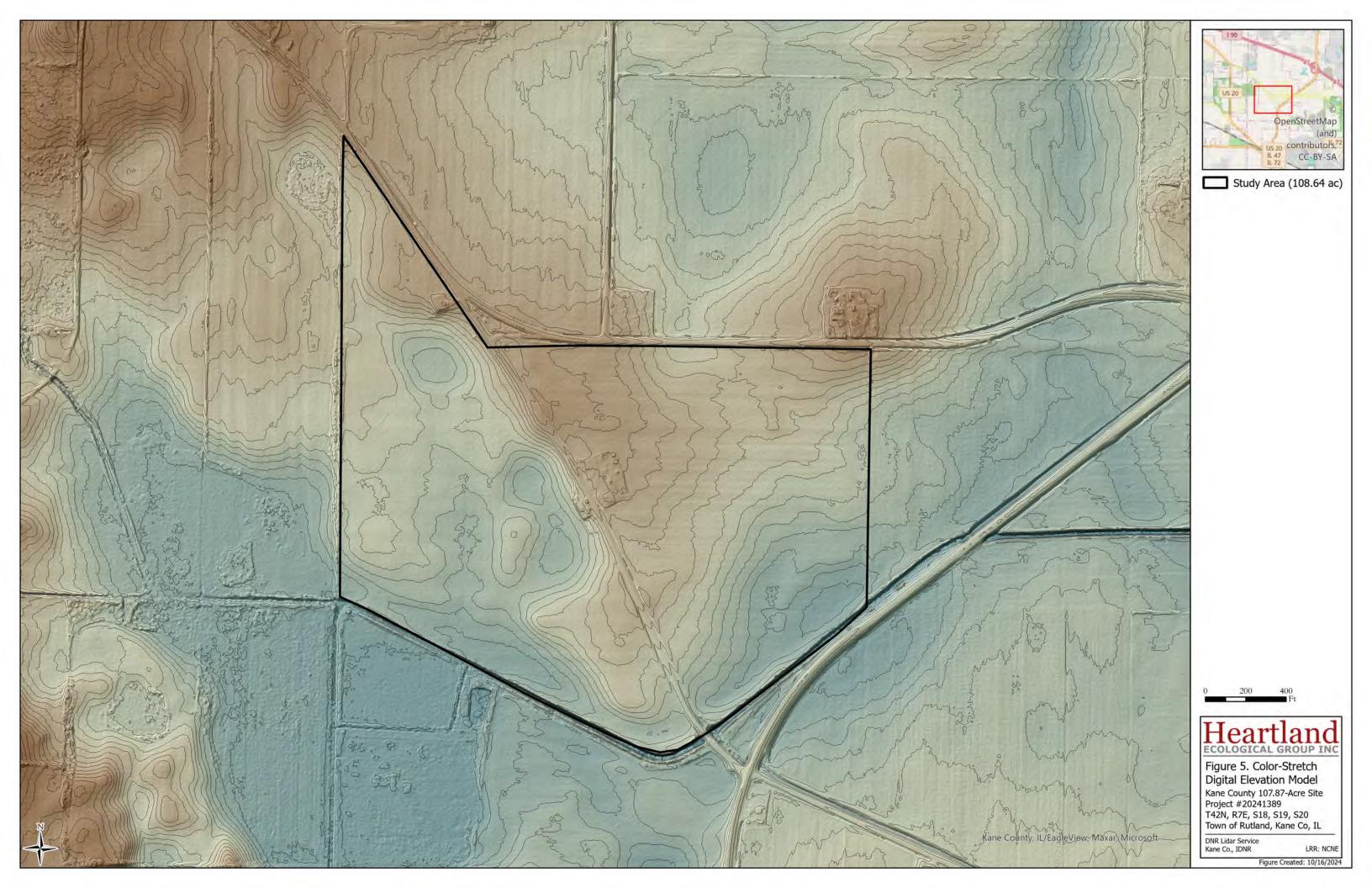






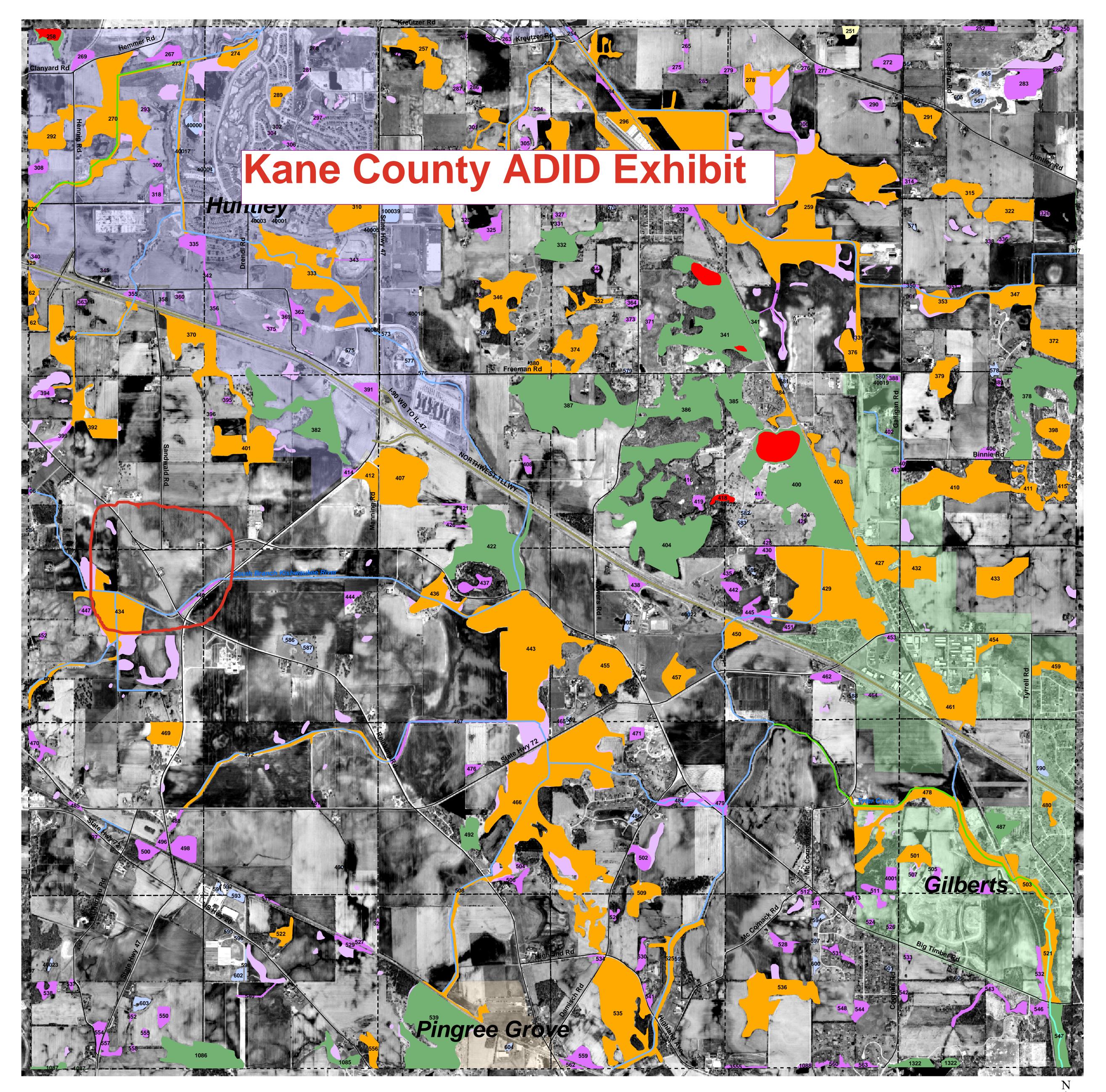






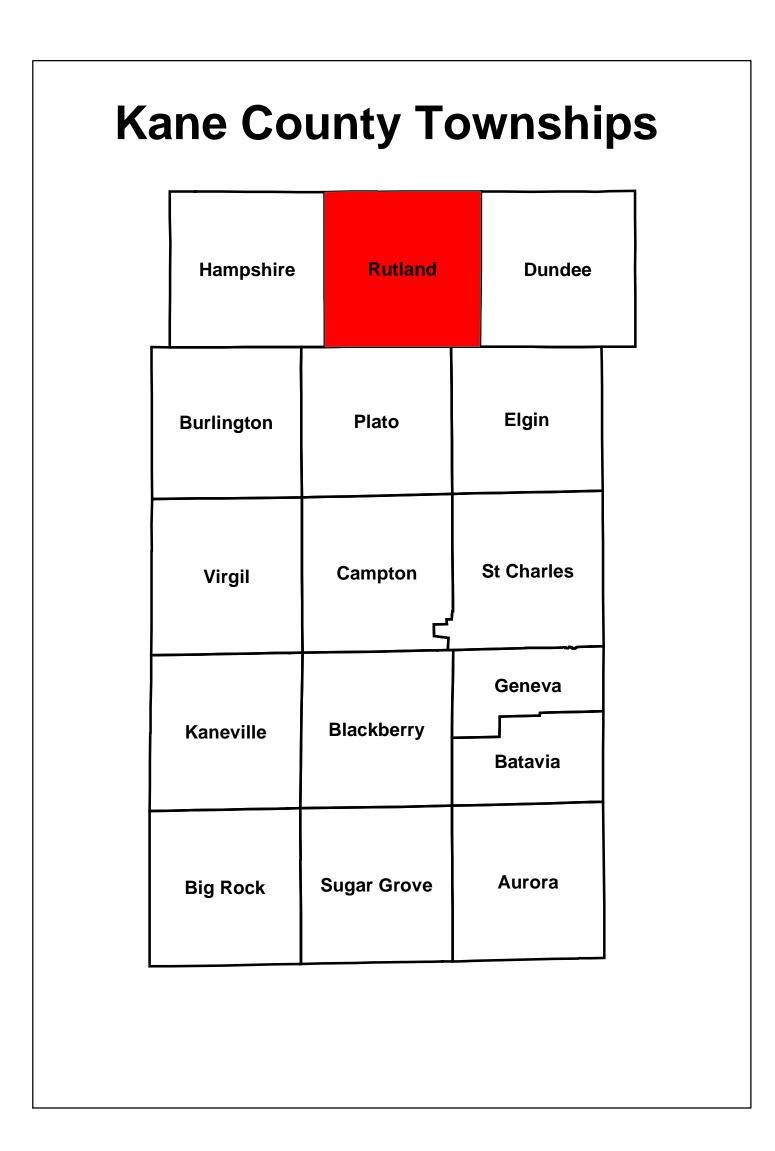


Kane County Advanced Identification of Aquatic Resources (ADID) Rutland Township









Map SectionsExpresswaysMajor Roads

Rivers, Streams, and Ditches Biological Stream Characterization

High Quality

—— C,D, and E Quality

Unrated

Wetland Type

High Habitat Value

High Functional Value

Wetland

Natural Open Water and Fox River

Artificial Ponds

ADID Farmed Wetlands

Islands Fens

NRCS Farmed Wetlands

This map was produced under the Advanced Identification (ADID) Program of the U.S. Environmental Protection Agency and the U.S. Army Corps of Engineers. Descriptions of the wetland inventory methodology and the wetland and stream designation criteria are available in the Kane County ADID Study Methodology.

The wetland boundaries shown are not jurisdictional delineations.

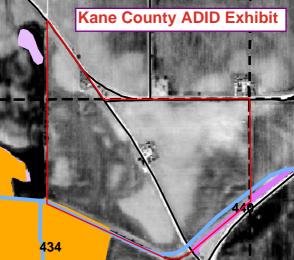
Note: Although the aerial photography displayed on this mapwas taken in 2001, the ADID data was based on aerial photography taken in 1996-1998 and then updated with photography from 2000. For this reason some features present on the 2001 photography may not be reflected in the ADID data

Date of Map Creation: August 30, 2004
L. Barghusen, Senior Environmental Analyst

Watersheds and Non-point Source Programs Branch Region 5 U.S. Environmental Protection Agency

Regulatory Branch U.S. Army Corps of Engineers







Surya Powered LLC Big Timber & Reinking Roads Site Project #: 20241389

December 13, 2024

Appendix B | APT Analysis

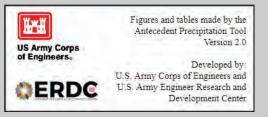
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Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	42.1081410, -88.4572961
Observation Date	2024-11-06
Elevation (ft)	914.337
Drought Index (PDSI)	Mild drought
WebWIMP H ₂ O Balance	Wet Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2024-11-06	2.41063	3.908268	2,46063	Normal	2	3	6
2024-10-07	2.449606	4.259055	1.913386	Dry	1	2	2
2024-09-07	2.409055	3.819291	2.149606	Dry	1	1	1
Result							Drier than Normal - 9



Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted A	Days Normal	Days Antecedent
CRYSTAL LAKE 4NW	42.2611, -88.3953	931,102	11,035	16,765	5.151	10478	85
CRYSTAL LAKE 3.9 WNW	42.2613, -88.3954	930.118	0.015	0.984	0.007	3	3
CRYSTAL LAKE 1.0 WSW	42.2288, -88.3496	894.029	3.232	37.073	1.574	362	2
WOODSTOCK 0.8 SSW	42.3003, -88.4433	948.163	3.655	17.061	1.707	88	0
CRYSTAL LAKE 1.9 SW	42.2147, -88.3588	903.871	3.71	27.231	1.771	20	0
WOODSTOCK 0.7 SW	42.3053, -88.4473	967,848	4.049	36,746	1.971	44	0
BULL VALLEY 2.5 WNW	42.3245, -88.3946	958.005	4.381	26.903	2.089	188	0
WOODSTOCK 3.8 SW	42.2755, -88.495	866,142	5.194	64.96	2,675	18	0
ALGONQUIN 0.7 N	42.1739, -88.2993	832.021	7.774	99.081	4.269	1	0
WOODSTOCK 5NW	42.3628, -88.5314	946,85	9,886	15,748	4.604	54	0
MCHENRY STRATTON LOCK/DAM	42.3097, -88.2533	735.892	7.998	195.21	5.16	95	0
MARENGO	42.2636, -88.6078	814.961	10.867	116.141	6.152	2	0



Surya Powered LLC Big Timber & Reinking Roads Site Project #: 20241389

December 13, 2024

Appendix C | Wetland Determination Data Sheets

Solutions for people, projects, and ecological resources.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: 20241389 Kane Co 107.87-Ac Property	City/County: Kane Cou	nty Sampling Date: 2024-11-06					
Applicant/Owner: Surya Powered	State: Illinois Sampling Point: P1						
Investigator(s): Eric C Parker, SPWS	Section, Township, Range: sec 18 T042N R007E						
Landform (hillslope, terrace, etc.): Toeslope	Local relief ((concave, convex, none): Concave					
Slope (%): <u>0-2</u> Lat: 42.111989	Long: <u>-88.461894</u>	Datum: WGS84					
Soil Map Unit Name: Drummer silty clay loam, 0 to 2 percent slopes		NWI classification: None Depicted					
Are climatic / hydrologic conditions on the site typical for this time of y	ear? Yes No	√ (If no, explain in Remarks.)					
Are Vegetation, Soil, or Hydrology significantly							
Are Vegetation, Soil, or Hydrology naturally pi		eded, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showing		ocations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes No							
Hydric Soil Present? Yes No	is the campied	,					
Wetland Hydrology Present? Yes ✓ No	within a Wetlan	d? Yes No					
Remarks:	1						
APT analysis indicates climatic conditions are in the drier than normal	al range. Ag field planted	in soybeans, now harvested; not NC.					
VEGETATION – Use scientific names of plants.							
Tree Stratum (Plot size: 30' radius) Absolute % Cover	Dominant Indicator Species? Status	Dominance Test worksheet:					
1		Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)					
2		Total Number of Dominant					
3		Species Across All Strata: 0 (B)					
5		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)					
Sapling/Shrub Stratum (Plot size: 15' radius)	_ = Total Cover	Prevalence Index worksheet:					
1		Total % Cover of: Multiply by:					
2.		OBL species0 x 1 =0					
3		FACW species 0 x 2 = 0					
4		FAC species					
5		FACU species 0 x 4 = 0					
Herb Stratum (Plot size: 5' radius)	_ = Total Cover	UPL species $0 \times 5 = 0$					
1		Column Totals: (A) (B)					
2.		Prevalence Index = B/A =					
3.		Hydrophytic Vegetation Indicators:					
4.		1 - Rapid Test for Hydrophytic Vegetation					
5		2 - Dominance Test is >50%					
6		3 - Prevalence Index is ≤3.0 ¹					
7		 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 					
8		✓ Problematic Hydrophytic Vegetation¹ (Explain)					
9		- Problematio Hydrophytic Vegetation (Explain)					
10	= Total Cover	¹ Indicators of hydric soil and wetland hydrology must					
Woody Vine Stratum (Plot size: 30' radius)	_ = Total Cover	be present, unless disturbed or problematic.					
1		Hydrophytic					
2		Vegetation					
0	_ = Total Cover	Present? Yes/_ No					
Remarks: (Include photo numbers here or on a separate sheet.)	_						
Ag field planted in soybeans in 2024 now harvested and chisel plowe							
Adjacent field edge 25 feet to west dominated by Salix interior, Phala under NC given the OSA, landscape position, the other parameters,	iris, and Rubus occidenta and professional judgmei	alis. Assumed hydrophytic vegetation would dominate nt.					

US Army Corps of Engineers Midwest Region – Version 2.0

SOIL Sampling Point: P1

Profile Des	cription: (E	Describe	to the dep	th needed	to docur	nent the i	ndicator	or confir	m the absence of	indicators.)
Depth		Matrix				x Features			_	
(inches)	Color (ı	moist)	%	Color (r	moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-13	_10YR	4/1	80	<u> 10YR</u>	4/3		C	M	SICL _	
13-18	_10YR	4/2	80	<u>10YR</u>	4/4	20	C	M	SICL	
18-24	10YR	5/2	80	10YR	5/4	20	С	М	SIC	
						·		-		
						. ——				•
			· ——			· ——				
						. ——				
¹ Type: C=C			letion, RM=	Reduced I	Matrix, MS	S=Masked	I Sand Gra	ains.		ion: PL=Pore Lining, M=Matrix.
Hydric Soil					Conduc	Diamed Ma	Amire (CA)			r Problematic Hydric Soils ³ :
Histosol	r (A r) pipedon (A2	')				Gleyed Ma			<u> </u>	airie Redox (A16)
	istic (A3)	.)			•	Redox (S5 d Matrix (S	•		— Dark Sur	,
	en Sulfide (<i>A</i>	\4)		_		Mucky Mir				ganese Masses (F12)
	d Layers (A	5)				Gleyed Ma			-	illow Dark Surface (TF12)
_	uck (A10)		(8.4.4)			d Matrix (I			Other (E	xplain in Remarks)
	d Below Dai ark Surface		e (A11)		-	Dark Surfa	ice (F6) irface (F7)		3Indicators of	f hydrophytic vegetation and
I —	Mucky Miner	. ,		$\overline{\checkmark}$		o Dark Su Depressio	. ,			lydrology must be present,
	ucky Peat or		3)				(, ,			sturbed or problematic.
Restrictive										
Type:										
Depth (in	iches):								Hydric Soil Pi	resent? Yes No
Remarks:									-	
HYDROLO	GY									
Wetland Hy	drology Inc	licators:								
Primary Indi	cators (mini	mum of o	ne is requir	ed; check	all that ap	ply)			Secondary	Indicators (minimum of two required)
Surface	Water (A1)			V	Vater-Sta	ined Leave	es (B9)		Surfac	e Soil Cracks (B6)
	ater Table (A	A 2)				una (B13)				ge Patterns (B10)
Saturati						tic Plants	. ,			eason Water Table (C2)
	Marks (B1)					Sulfide Od			, .	sh Burrows (C8)
	nt Deposits	(B2)					res on Livi	-		ition Visible on Aerial Imagery (C9)
I	posits (B3) at or Crust (D4)		·			ed Iron (C4 on in Tilled	,	,	d or Stressed Plants (D1)
	at of Crust (posits (B5)	D4)				Surface (J Solis (C	, <u>—</u>	orphic Position (D2) leutral Test (D5)
	ion Visible o	n Aerial I	magery (B7			Well Data			17.01	reattal rest (Bo)
	y Vegetated				-	olain in Re	, ,			
Field Obser	, ,			-, <u>—</u>			,			
Surface Wat	ter Present?	Y	es 1	Vo √	Depth (in	ches):				
Water Table			es 1			,				
Saturation P	resent?		es 1						tland Hydrology F	Present? Yes <u>√</u> No
(includes ca		e)								
				_			evious ins	pections)	, if available:	
GE and NAIF	aenai imag	gery, OSA	Completed	i. Consiste	ni signati	ire.				
Remarks:										

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: 20241389 Kane Co 107.87-Ac Property	c	ity/Co	ounty:	Kane Cou	nty	S	ampling f	Date: <u>2024-</u>	11-06
Applicant/Owner: Surya Powered					State: Illino	is San	npling Pc	oint: P2	
Investigator(s): Eric C Parker, SPWS	ection, Township, Range: sec 18 T042N R007E								
Landform (hillslope, terrace, etc.): Sideslope			L	ocal relief (concave, conve	k, none): <u>N</u>	one		
Slope (%): <u>3-7</u> Lat: <u>42.111300</u>	L	.ong:	-88.44	3600		Da	atum: <u>W</u>	GS84	
Soil Map Unit Name: Drummer silty clay loam, 0 to 2 percent slo	pes				NWI	classification	on: <u>None</u>	e Depicted	
Are climatic / hydrologic conditions on the site typical for this time	e of year	r? Ye	es	No	✓ (If no, exp	lain in Rem	arks.)		
Are Vegetation, Soil, or Hydrology signifi								es	No <u>√</u>
Are Vegetation, Soil, or Hydrology natura	ally prob	lema	tic?	(If nee	eded, explain an	y answers i	n Remar	ks.)	
SUMMARY OF FINDINGS - Attach site map sho	wing	sam	pling	point lo	cations, tra	nsects, i	mporta	ant featui	es, etc.
Hydrophytic Vegetation Present? Yes No	✓		la 41aa	Commission	Ama				
Hydric Soil Present? Yes No	<u></u>			Sampled n a Wetlan		es	No	/	
Wetland Hydrology Present? Yes No			witiiii	i a vvetian	u: ı		_		
Remarks: APT analysis indicates climatic conditions are in the drier than r	normal r	ange.	Ag fie	eld planted	in soybeans, no	w harvested	յ; not NC) .	
VEGETATION – Use scientific names of plants.									
1 001 11				Indicator Status	Dominance Te Number of Dor				
1					That Are OBL,			0	_ (A)
3					Total Number of Species Across			0	_ (B)
4. 5.					Percent of Don That Are OBL,				(A/B)
	0 =	= Tota	l Cove	er	Prevalence Inc				_ (,,,,,
1					Total % Co			Multiply by:	
2.					OBL species	0	x 1	=0	
3					FACW species	0	x 2	=0	
4					FAC species	0	x 3	=0	
5					FACU species	0	x 4	=0	
- Floriding	0 =	= Tota	I Cove	er	UPL species	0	x 5		
Herb Stratum (Plot size: 5' radius)					Column Totals	:0	(A)	0.00	(B)
1					Prevalen	ce Index =	B/A = _		
3.			-		Hydrophytic '	Vegetation	Indicato	ors:	
4.					1 - Rapid ٦	est for Hyd	rophytic	Vegetation	
5.					2 - Domina	ance Test is	>50%		
6.					3 - Prevale	nce Index i	s ≤3.0 ¹		
7					4 - Morpho	ological Ada	iptations¹	¹ (Provide sı	upporting
8								parate shee	
9					Problema	tic Hydropn	ytic vege	etation (Exp	olain)
10	0 =	= Tota	I Cove	er	¹ Indicators of h				y must
Woody Vine Stratum (Plot size: 30' radius)									
1					Hydrophytic Vegetation				
	0 =	= Tota	ıl Cove	er	Present?	Yes _		No <u>√</u>	
Remarks: (Include photo numbers here or on a separate sheet	t.)			'					
Ag field planted in soybeans in 2024 now harvested and chisel	plowed	. Not	NC. W	eeds not p	resent; some so	ybean gern	nination f	rom seed sp	oillage.

US Army Corps of Engineers

SOIL Sampling Point: P2

	cription. (D		o the dep	Jui needed	to docui	nent the	indicator	or contirr	n the absence	e of indicators.)
Depth		Matrix				x Feature			_	
(inches)	Color (n		%	Color (r	moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-15	<u>10YR</u>	3/1	_100_						SICL	No redox
15-18	_10YR	4/1	95	_10YR	4/2	5	C	M	SICL	
18-24	10YR	4/2	90	10YR	4/4	10	C	M	SICL	
						-				
				-						
	oncentration	, D=Deple	etion, RM:	=Reduced N	Matrix, M	S=Masked	d Sand Gra	ins.		cation: PL=Pore Lining, M=Matrix.
Hydric Soil					Condu (Clayed Me	atrix (CA)			for Problematic Hydric Soils ³ :
Histoso	r (A r) pipedon (A2)					Gleyed Ma				Prairie Redox (A16)
	istic (A3)				-	Redox (S5 d Matrix (\$,			Surface (S7)
Hydroge	en Sulfide (A	4)		_			neral (F1)			langanese Masses (F12)
	d Layers (A5)			-	Gleyed M			-	Shallow Dark Surface (TF12)
	uck (A10)	0 ((8.4.4)			d Matrix (,		Other	(Explain in Remarks)
	d Below Darl ark Surface (e (A11)		=:	Dark Surfa	ace (F6) ırface (F7)		3Indicator	s of hydrophytic vegetation and
	Mucky Minera	,				Depressio				nd hydrology must be present,
	ucky Peat or)		_		- (- /			s disturbed or problematic.
Restrictive	Layer (if obs	served):								
Type:										
Depth (in	iches):								Hydric Soi	I Present? Yes No✓_
Remarks:										
HYDROLC										
Wetland Hy	drology Ind									
Wetland Hy			ne is requi						Second	ary Indicators (minimum of two required)
Wetland Hy Primary Indi Surface	drology Ind cators (minin Water (A1)	num of or	ne is requi	V	Vater-Sta	ined Leav	` ,		Sur	face Soil Cracks (B6)
Wetland Hy Primary Indi Surface High Wa	rdrology Indicators (minin Water (A1) ater Table (A	num of or	ne is requi	V	Vater-Sta Aquatic Fa	ined Leav auna (B13)		Sur	face Soil Cracks (B6) iinage Patterns (B10)
Wetland Hy Primary Indi Surface High Wa	cators (minin Water (A1) ater Table (A on (A3)	num of or	ne is requi	V A T	Vater-Sta Aquatic Fa rue Aqua	ined Leav auna (B13 itic Plants) (B14)		Sur Dra Dry	face Soil Cracks (B6) ninage Patterns (B10) r-Season Water Table (C2)
Wetland Hy Primary Indi Surface High Water M	cators (minin Water (A1) ater Table (A on (A3) Marks (B1)	num of or 2)	ne is requi	V A T F	Vater-Sta Aquatic Fa rue Aqua Hydrogen	ined Leav auna (B13 itic Plants Sulfide O) (B14) dor (C1)	ng Dooto	Sur Dra Dry Cra	rface Soil Cracks (B6) sinage Patterns (B10) r-Season Water Table (C2) syfish Burrows (C8)
Wetland Hy Primary Indi Surface High Water N Sedime	cators (minin Water (A1) ater Table (A on (A3) Marks (B1) nt Deposits (num of or 2)	ne is requi	V A T P	Vater-Sta Aquatic Fa True Aqua Hydrogen Dxidized F	ined Leav auna (B13 itic Plants Sulfide O Rhizosphe) (B14) dor (C1) res on Livi	•	Sur Dra Cra Cra (C3) Sat	rface Soil Cracks (B6) ninage Patterns (B10) r-Season Water Table (C2) nyfish Burrows (C8) uration Visible on Aerial Imagery (C9)
Wetland Hy Primary Indi Surface High Water N Sedime Drift De	rdrology Indicators (mining Water (A1) ater Table (A on (A3) Marks (B1) ant Deposits (posits (B3)	num of or 2) B2)	ne is requi	V T F	Vater-Sta Aquatic Fa True Aqua Hydrogen Dxidized F Presence	ined Leav auna (B13 atic Plants Sulfide O Rhizosphe of Reduce) (B14) dor (C1) res on Livied Iron (C4)	Sur Dra Cra Cra (C3) Sat Stu	face Soil Cracks (B6) sinage Patterns (B10) Season Water Table (C2) syfish Burrows (C8) uration Visible on Aerial Imagery (C9) nted or Stressed Plants (D1)
Wetland Hy Primary Indi Surface High Wa Saturati Water N Sedime Drift De Algal M	rdrology Indicators (mining Water (A1) ater Table (A on (A3) Marks (B1) at Deposits (B3) at or Crust (E	num of or 2) B2)	ne is requi	V T F	Vater-Sta Aquatic Fa True Aqua Hydrogen Dxidized F Presence Recent Iro	ined Leav auna (B13 itic Plants Sulfide O Rhizosphe of Reduce n Reducti) (B14) dor (C1) res on Livied Iron (C4 on in Tilled)	Sur Dra Dry Cra (C3) Sat Stu Ge	rface Soil Cracks (B6) sinage Patterns (B10) r-Season Water Table (C2) registry Burrows (C8) registry Visible on Aerial Imagery (C9) red or Stressed Plants (D1) remorphic Position (D2)
Wetland Hy Primary Indi Surface High Water Now Sedime Drift De Algal Mater Now Sedime	rdrology Indicators (mining Water (A1) atter Table (A on (A3) Marks (B1) att Deposits (B3) att or Crust (Eposits (B5)	num of or 2) B2) 34)		V T F F	Water-Sta Aquatic Fa True Aqua Hydrogen Dxidized F Presence Recent Iro Thin Muck	ined Leave auna (B13 atic Plants Sulfide O Rhizosphe of Reducti n Reducti	(B14) dor (C1) vres on Livied Iron (C4 on in Tilled)	Sur Dra Dry Cra (C3) Sat Stu Ge	face Soil Cracks (B6) sinage Patterns (B10) Season Water Table (C2) syfish Burrows (C8) uration Visible on Aerial Imagery (C9) nted or Stressed Plants (D1)
Wetland Hy Primary Indi Surface High Water Now Sedime Drift De Algal Modern Dep Inundat	rdrology Indicators (mining Water (A1) atter Table (A on (A3) Marks (B1) att Deposits (B3) att or Crust (E posits (B5) ion Visible or	num of or 2) B2) 34) n Aerial In	nagery (B	V T F F T 7) G	Water-Sta Aquatic Fa True Aqua Hydrogen Dxidized F Presence Recent Iro Thin Muck Gauge or	ined Leave auna (B13 stic Plants Sulfide O Rhizosphe of Reduce n Reducti Surface ((B14) dor (C1) res on Livi ed Iron (C4 on in Tilled (C7) (D9))	Sur Dra Dry Cra (C3) Sat Stu Ge	rface Soil Cracks (B6) sinage Patterns (B10) r-Season Water Table (C2) registry Burrows (C8) registry Visible on Aerial Imagery (C9) red or Stressed Plants (D1) remorphic Position (D2)
Wetland Hy Primary Indi Surface High Water Now Sedime Drift De Algal Modern Dep Inundat	rdrology Indicators (mining Water (A1) ater Table (A on (A3) Marks (B1) at Deposits (B3) at or Crust (Eposits (B5) ion Visible or y Vegetated	num of or 2) B2) 34) n Aerial In	nagery (B	V T F F T 7) G	Water-Sta Aquatic Fa True Aqua Hydrogen Dxidized F Presence Recent Iro Thin Muck Gauge or	ined Leave auna (B13 atic Plants Sulfide O Rhizosphe of Reducti n Reducti	(B14) dor (C1) res on Livi ed Iron (C4 on in Tilled (C7) (D9))	Sur Dra Dry Cra (C3) Sat Stu Ge	rface Soil Cracks (B6) sinage Patterns (B10) r-Season Water Table (C2) registry Burrows (C8) registry Visible on Aerial Imagery (C9) red or Stressed Plants (D1) remorphic Position (D2)
Wetland Hy Primary Indi Surface High Wi Saturati Water N Sedime Drift De Algal M Iron De Inundat Sparsel	rdrology Indicators (mining Water (A1) after Table (A on (A3) Marks (B1) after Deposits (B3) after Crust (B5) after Crust (B5	num of or 2) B2) 34) n Aerial In Concave	nagery (B Surface (V T F F T 7) G	Water-Sta Aquatic Fa True Aqua Hydrogen Dxidized F Presence Recent Iro Thin Muck Gauge or D Dther (Exp	ined Leavauna (B13 autic Plants Sulfide O Rhizosphe of Reduce on Reducti Surface (Well Data blain in Re	(B14) (B14) dor (C1) eres on Livi ed Iron (C4 on in Tilled (C7) (D9) emarks)) I Soils (Ce	Sur Dra Dry Cra (C3) Sat Stu Ge	rface Soil Cracks (B6) sinage Patterns (B10) r-Season Water Table (C2) registry Burrows (C8) registry Visible on Aerial Imagery (C9) red or Stressed Plants (D1) remorphic Position (D2)
Wetland Hy Primary Indi Surface High Water Mater Mate	rdrology Indicators (mining Water (A1) atter Table (A on (A3) Marks (B1) attor Crust (B oposits (B3) attor Crust (B oposits (B5) attor Visible or y Vegetated attors:	num of or 2) B2) 34) Aerial In Concave	nagery (B Surface (V T C F T 7) G B8) C	Water-Sta Aquatic Fa True Aqua Hydrogen Dxidized F Presence Recent Iro Thin Muck Gauge or 1 Dther (Exp	ined Leavauna (B13 stic Plants Sulfide O Rhizosphe of Reduce n Reducti Surface (Well Data blain in Reductic)	(B14) (B14) dor (C1) eres on Livi ed Iron (C4 on in Tilled (C7) (D9) emarks)) I Soils (Ce	Sur Dra Dry Cra (C3) Sat Stu Ge	rface Soil Cracks (B6) sinage Patterns (B10) r-Season Water Table (C2) registry Burrows (C8) registry Visible on Aerial Imagery (C9) red or Stressed Plants (D1) remorphic Position (D2)
Wetland Hy Primary Indi Surface High Water Now Sedime Drift De Algal Mount Iron De Inundat Sparsel Field Obser Surface Water Market	rdrology Indicators (mining Water (A1) after Table (Andrews (B1)) and Deposits (B3) at or Crust (B4) at or Crust (B5) at or Visible or by Vegetated arvations: The Present?	num of or 2) B2) 34) n Aerial In Concave Ye	nagery (B Surface (es	V T C F T 7) G B8) C	Vater-Sta Aquatic Fa True Aqua Hydrogen Dxidized Fa Presence Recent Iro Thin Muck Gauge or 1 Dther (Exp Depth (incomplete incomplete)	ined Leave auna (B13 stic Plants Sulfide O Rhizosphe of Reduce in Reducti Surface (Well Data blain in Reduction Redu	(B14) (B14) dor (C1) res on Livi ed Iron (C4 on in Tilled (C7) (D9) emarks)) I Soils (Ce	Sur Dra Cra Stu Stu Ge FAG	rface Soil Cracks (B6) hinage Patterns (B10) r-Season Water Table (C2) hyfish Burrows (C8) huration Visible on Aerial Imagery (C9) hted or Stressed Plants (D1) homorphic Position (D2) C-Neutral Test (D5)
Wetland Hy Primary Indi Surface High Water Management Sedime Drift De Algal Management Iron De Inundat Sparsel Field Obser Surface Water Table Saturation F (includes ca	rdrology Indicators (mining Water (A1) atter Table (A on (A3) Marks (B1) attor Crust (B posits (B5) attor Crust (B posits (B5) attor Crust (B posits (B5) attor Visible or y Vegetated attores: The Present? Present? Present? Present? Present? Present?	B2) Aerial In Concave Ye Ye	nagery (B Surface (es es	V A T C F T 7) G B8) C No✓ No✓	Vater-Sta Aquatic Fa True Aqua Hydrogen Dxidized Fa Presence Recent Iro Thin Muck Gauge or 1 Dther (Exp Depth (ind Depth (ind Depth (ind	ined Leavauna (B13 atic Plants Sulfide O Rhizosphe of Reduce on Reducti Surface (Well Data blain in Re ches): ches): ches):	(B14) (B14) dor (C1) ures on Livi ed Iron (C4 on in Tilled (C7) (D9) emarks)) d Soils (Ce	Sur Dra Cra Stu Stu FAr	rface Soil Cracks (B6) sinage Patterns (B10) r-Season Water Table (C2) registry Burrows (C8) registry Visible on Aerial Imagery (C9) red or Stressed Plants (D1) remorphic Position (D2)
Wetland Hy Primary Indi Surface High Water Management Sedime Drift De Algal Management Iron De Inundat Sparsel Field Obser Surface Water Table Saturation F (includes ca	rdrology Indicators (mining Water (A1) atter Table (A on (A3) Marks (B1) attor Crust (B posits (B3) attor Crust (B posits (B5) attor Crust (B posits (B5) attor Visible or y Vegetated attor Crust (B posits (B5) attor Crust (B5)	B2) Aerial In Concave Ye Ye (stream	magery (B Surface (es es gauge, mo	V A T C F F T 7) G B8) C No✓ No✓ No✓ onitoring we	Vater-Sta Aquatic Fa True Aqua Hydrogen Dxidized Fa Presence Recent Iro Thin Muck Gauge or 1 Dther (Exp Depth (ind Depth (ind Depth (ind	ined Leavauna (B13 atic Plants Sulfide O Rhizosphe of Reduce on Reducti Surface (Well Data blain in Re ches): ches): ches):	(B14) (B14) dor (C1) ures on Livi ed Iron (C4 on in Tilled (C7) (D9) emarks)) d Soils (Ce	Sur Dra Cra Stu Stu FAr	rface Soil Cracks (B6) hinage Patterns (B10) r-Season Water Table (C2) hyfish Burrows (C8) huration Visible on Aerial Imagery (C9) hted or Stressed Plants (D1) homorphic Position (D2) C-Neutral Test (D5)
Wetland Hy Primary Indi Surface High Water Management Sedime Drift De Algal Management Iron De Inundat Sparsel Field Obser Surface Water Table Saturation F (includes ca Describe Re	rdrology Indicators (mining Water (A1) atter Table (A on (A3) Marks (B1) attor Crust (B posits (B3) attor Crust (B posits (B5) attor Crust (B posits (B5) attor Visible or y Vegetated attor Crust (B posits (B5) attor Crust (B5)	B2) Aerial In Concave Ye Ye (stream	magery (B Surface (es es gauge, mo	V A T C F F T 7) G B8) C No✓ No✓ No✓ onitoring we	Vater-Sta Aquatic Fa True Aqua Hydrogen Dxidized Fa Presence Recent Iro Thin Muck Gauge or 1 Dther (Exp Depth (ind Depth (ind Depth (ind	ined Leavauna (B13 atic Plants Sulfide O Rhizosphe of Reduce on Reducti Surface (Well Data blain in Re ches): ches): ches):	(B14) (B14) dor (C1) ures on Livi ed Iron (C4 on in Tilled (C7) (D9) emarks)) d Soils (Ce	Sur Dra Cra Stu Stu FAr	rface Soil Cracks (B6) hinage Patterns (B10) r-Season Water Table (C2) hyfish Burrows (C8) huration Visible on Aerial Imagery (C9) hted or Stressed Plants (D1) homorphic Position (D2) C-Neutral Test (D5)
Wetland Hy Primary Indi Surface High Wi Saturati Water M Sedime Drift De Algal M Iron De Inundat Sparsel Field Obser Surface Wat Water Table Saturation F (includes ca Describe Re GE and NAIF	rdrology Indicators (mining Water (A1) atter Table (A on (A3) Marks (B1) atter Deposits (B3) atter Crust (B5) atter Crust (B5) atter Crust (B5) atter Present? Are Present? Present? Present? Present? Present? Present? Present (Applications) are all and are all ar	B2) B2) Aerial In Concave Ye Ye Ye (stream gery; OSA	magery (B Surface (es es gauge, mo complete	V A T C F T 7) G B8) C No I No I No I onitoring we d.	Vater-Sta Aquatic Fa True Aqua Hydrogen Dxidized F Presence Recent Iro Thin Muck Gauge or Dther (Exp Depth (inc Depth (inc Depth (inc Depth (inc Depth (inc Depth (inc	ined Leavauna (B13 stic Plants Sulfide O Rhizosphe of Reduce on Reducti Surface (Well Data plain in Re ches): ches): photos, pr	(B14) (B14) (dor (C1) (res on Livi (ed Iron (C4) (on in Tilled (C7) (D9) (D9) (emarks) (evious ins) d Soils (Co	Sur Dra Dra Dry Cra (C3) Sat Stu FA	rface Soil Cracks (B6) hinage Patterns (B10) r-Season Water Table (C2) hyfish Burrows (C8) huration Visible on Aerial Imagery (C9) hted or Stressed Plants (D1) homorphic Position (D2) C-Neutral Test (D5)
Wetland Hy Primary Indi Surface High Water Mater Table Saturation F (includes ca Describe Rege and NAIF Remarks:	rdrology Indicators (mining Water (A1) atter Table (A on (A3) Marks (B1) atter Deposits (B3) atter Crust (B5) atter Crust (B5) atter Crust (B5) atter Present? Are Present? Present? Present? Present? Present? Present? Present (Applications) are all and are all ar	B2) B2) Aerial In Concave Ye Ye Ye (stream gery; OSA	magery (B Surface (es es gauge, mo complete	V A T C F T 7) G B8) C No I No I No I onitoring we d.	Vater-Sta Aquatic Fa True Aqua Hydrogen Dxidized F Presence Recent Iro Thin Muck Gauge or Dther (Exp Depth (inc Depth (inc Depth (inc Depth (inc Depth (inc Depth (inc	ined Leavauna (B13 stic Plants Sulfide O Rhizosphe of Reduce on Reducti Surface (Well Data plain in Re ches): ches): photos, pr	(B14) (B14) (dor (C1) (res on Livi (ed Iron (C4) (on in Tilled (C7) (D9) (D9) (emarks) (evious ins) d Soils (Co	Sur Dra Dra Dry Cra (C3) Sat Stu FA	rface Soil Cracks (B6) hinage Patterns (B10) r-Season Water Table (C2) hyfish Burrows (C8) huration Visible on Aerial Imagery (C9) hted or Stressed Plants (D1) homorphic Position (D2) C-Neutral Test (D5)

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: 20241389 Kane Co 107.87-Ac Property		City/C	ounty:	Kane Cou	nty Sampling Date: 2024-11-06
Applicant/Owner: Surya Powered					State: Illinois Sampling Point: P3
Investigator(s): Eric C Parker, SPWS		Sectio	n, Tov	vnship, Rar	nge: sec 18 T042N R007E
Landform (hillslope, terrace, etc.): Swale			L	ocal relief ((concave, convex, none): Concave
Slope (%): 0-2 Lat: 42.110356		Long:	-88.46	80991	Datum: WGS84
Soil Map Unit Name: Drummer silty clay loam, 0 to 2 per					
Are climatic / hydrologic conditions on the site typical for					
					Normal Circumstances" present? Yes No/
Are Vegetation, Soil, or Hydrology					eded, explain any answers in Remarks.)
					ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No 🗸				
Hydric Soil Present? Yes				Sampled	
Wetland Hydrology Present? Yes			withi	n a wetian	d? Yes No✓
Remarks:		•			
APT analysis indicates climatic conditions are in the drie	er than normal	range	. Ag fie	eld planted	in soybeans, now harvested; not NC.
VEGETATION – Use scientific names of plan	ts.				
Tree Stratum (Plot size: 30' radius)	Absolute % Cover			Indicator	Dominance Test worksheet:
1					Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
2					(vy
3					Total Number of Dominant Species Across All Strata:1 (B)
4.					` ` ,
5					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.00 (A/B)
451 12	0	= Tota	al Cove	er	
Sapling/Shrub Stratum (Plot size: 15' radius)					Prevalence Index worksheet:
1					
2					FACW species x 1 = 0
3					FAC species x 3 =
4					FACU species 5 x 4 = 20
5		= Tota	al Cove	er	UPL species 0 x 5 = 0
Herb Stratum (Plot size: 5' radius)			OOV	0 1	Column Totals: (A) (B)
1. VERONICA ARVENSIS	5			FACU	
2					Prevalence Index = B/A = 4.0
3					Hydrophytic Vegetation Indicators:
4					1 - Rapid Test for Hydrophytic Vegetation
5					2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹
6					4 - Morphological Adaptations ¹ (Provide supporting
7					data in Remarks or on a separate sheet)
8					Problematic Hydrophytic Vegetation ¹ (Explain)
9 10					
Woody Vine Stratum (Plot size: 30' radius)	5.0	= Tota	al Cove	er	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1					Hydrophytic
2					Vegetation
	0	= Tota	al Cove	ar .	Present? Yes No
Remarks: (Include photo numbers here or on a separa		_ 10ta	ai CUV	5 1	
Ag field planted in soybeans in 2024 now harvested and spillage.	•	d . Not	NC. S	parse weed	ds present; some soybean germination from seed

SOIL Sampling Point: P3

Profile Des	cription: (D	Describe	to the dep	th needed	to docur	ment the i	indicator	or confi	rm the absenc	e of indicators.)					
Depth <u>Matrix</u>				Redox Features					_						
(inches)	Color (moist) %			Color (moist) % Type				_Loc ²	<u>Texture</u>	Remarks					
0-13	_10YR	3/1	<u> 100</u>			-			_ <u>L</u>	No redox					
13-18	<u>10YR</u>	5/2	60	_10YR_	5/6	20	C	M	_ SL	Mixed matrix					
	10YR	3/1	20						SL						
18-24	10YR	3/1	95	10YR	3/3	5	С	M	SICL						
					0,0		. <u> </u>								
									_	- <u> </u>					
						-									
						-				<u> </u>					
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.															
-	Hydric Soil Indicators:									Indicators for Problematic Hydric Soils ³ :					
Histosol	` '			_		Gleyed Ma			Coast Prairie Redox (A16)						
	pipedon (A2 istic (A3)	.)				Redox (S5 d Matrix (S			— Dark	— Dark Surface (S7)					
	en Sulfide (A	\4)				Mucky Mir	,		Iron-Manganese Masses (F12)						
	d Layers (A					Gleyed Ma			Very	Very Shallow Dark Surface (TF12)					
I	uck (A10)					d Matrix (Other (Explain in Remarks)						
I — ·	d Below Dai		e (A11)	_	-	Dark Surfa	` '		2						
I	ark Surface /lucky Miner	. ,		_		d Dark Su Depressio	ırface (F7)		³ Indicators of hydrophytic vegetation and wetland hydrology must be present,						
	ucky lyiiriei ucky Peat or		3)		_ Nedox I	Depressio	115 (1 0)			s disturbed or problematic.					
Restrictive	-									o diotal do a problemation					
Type:		•													
Depth (in	ches):								Hydric So	il Present? Yes No <u>√</u>					
Remarks:															
HYDROLO	GY														
Wetland Hy	drology Inc	licators:													
Primary Indi	cators (mini	mum of o	ne is requi	red; check	all that ap	ply)			Second	dary Indicators (minimum of two required)					
Surface	Water (A1)			V	Vater-Sta	ined Leav	es (B9)		Surface Soil Cracks (B6)						
High Wa	High Water Table (A2)				Aquatic Fa	auna (B13)		Drainage Patterns (B10)						
Saturati	Saturation (A3)				rue Aqua	itic Plants	(B14)		Dry-Season Water Table (C2)						
Water M	1arks (B1)			F	Hydrogen	Sulfide O	dor (C1)		Crayfish Burrows (C8)						
Sedime	nt Deposits	(B2)		0	Oxidized F	Rhizosphe	res on Liv	ing Root	s (C3) Sa	turation Visible on Aerial Imagery (C9)					
l — .	posits (B3)						ed Iron (C4			unted or Stressed Plants (D1)					
	at or Crust (B4)					on in Tille	d Soils (0		eomorphic Position (D2)					
l — ·	oosits (B5)		(D			Surface (` '		FA	.C-Neutral Test (D5)					
	on Visible o		• • • • • • • • • • • • • • • • • • • •	′ —	-	Well Data	, ,								
	y Vegetated	Concave	: Ѕипасе (і	B8) C	otner (Exp	olain in Re	emarks)	1							
Field Obser				Na /	Danth (in	-1\.									
Surface Water Present? Yes No Depth (inches):															
Water Table Present? Yes No ✓ Depth (inches): Saturation Present? Yes No ✓ Depth (inches): Wet									Methond Hydrology Brasses Vac						
(includes capillary fringe)															
			gauge, mo	nitoring we	ell, aerial p	photos, pr	evious ins	pections), if available:						
GE and NAIF	aerial imag	gery; OSA	complete	d.											
Remarks:															
No wetland hydrology indicators observed, no saturation. Tile network present, no D2.															

WETLAND DETERMINATION DATA FORM - Midwest Region

Applicant/Owner Surya Powered State Illinois Sampling Point P4	Project/Site: 20241389 Kane Co 107.87-Ac Property	City/C	ounty:	Kane Cou	unty Sampling Date: <u>2024-11-06</u>							
Landform (hillistope, terrace, etc.): Depression	Applicant/Owner: Surya Powered					State: Illin	ois	Sampl	ling Poin	t: <u>P4</u>		
Slope (%): 0-2	Investigator(s): Eric C Parker, SPWS											
Are climate / hydrologic conditions on the site typical for this time of year? Yes	Landform (hillslope, terrace, etc.): Depression			Lo	ocal relief ((concave, conv	ex, none): <u>Con</u>	cave			
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	Slope (%): 0-2 Lat: 42.110061		Long:	-88.46	0471			_ Datı	ım: WG	S84		
Are Vegetation	Soil Map Unit Name: Drummer silty clay loam, 0 to 2 perce	nt slopes				NV	VI classif	ication	: None E	Depicted		
Are Vegetation	Are climatic / hydrologic conditions on the site typical for thi	s time of yea	ar? Y	es	No	✓ (If no, ex	xplain in	Remar	ks.)			
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, e Hydrophytic Vegetation Present? Hydric Soil Present? Yes No										N	o <u>/</u>	
Hydrophytic Vegetation Present? Yes \(\subseteq No \) No \(\text{Hydric Soil Present?} \) Yes \(\subseteq No \) Wetland Hydrology Present? Yes \(\subseteq No \) No \(\text{Methand Hydrology Present?} \) Yes \(\subseteq No \) No \(\text{Methand Hydrology Present?} \) Yes \(\supseteq No \) No \(\text{Methand Hydrology Present?} \) Yes \(\supseteq No \) No \(\text{Methand Hydrology Present?} \) Yes \(\supseteq No \) No \(\text{Methand Hydrology Present?} \) Yes \(\supseteq No \) No \(\text{Methand Hydrology Present?} \) Yes \(\supseteq No \) No \(\text{Methand Hydrology Present?} \) Yes \(\supseteq No \) No \(\text{Methand Hydrology Present?} \) Yes \(\supseteq No \) No \(\text{Methand Hydrology Present?} \) No \(Methand	Are Vegetation, Soil, or Hydrologyı	naturally pro	blema	itic?	(If ne	eded, explain a	any answ	ers in I	Remarks	s.)		
Hydric Soil Present? Wetland Hydrology Present? Yes	SUMMARY OF FINDINGS – Attach site map	showing	sam	pling	point lo	ocations, tr	ansect	s, im	portan	nt feature	s, etc.	
Hydric Soil Present? Wetland Hydrology Present? Yes	Hydrophytic Vegetation Present? Yes ✓ N	lo										
Wetland Hydrology Present? Yes	Hydric Soil Present? Yes N				•							
APT analysis indicates climatic conditions are in the drier than normal range. Ag field planted in soybeans, now harvested; not NC. VEGETATION — Use scientific names of plants. Tree Stratum (Plot size:30' radius)	Wetland Hydrology Present? Yes N	lo		WILIIII	i a vvetiali	iu r	<u> </u>	NO				
Absolute Species Stratum Court Species Status Status Species Status Statu		than normal	range	. Ag fie	eld planted	in soybeans, n	ow harve	ested; r	not NC.			
Absolute Species Stratum Court Species Status Status Species Status Statu												
Tree Stratum (Plot size: 30' radius)	VEGETATION – Use scientific names of plants		Dom	ninant l	Indicator	Dominance '	Tost wor	rkshoo	+-			
Total Number of Dominant Species Across All Strata: O (B)		% Cover	Spe	cies?	Status	Number of Do	ominant	Specie	s	0	(4)	
3.						That Are OBL	_, FACW	, or FA	.C:	0	(A)	
A.										0	(B)	
Sapling/Shrub Stratum (Plot size: 15' radius)											(D)	
Sapling/Shrub Stratum (Plot size: 15' radius) Prevalence Index worksheet: Total % Cover of: Multiply by:											(A/B)	
Total % Cover of: Multiply by:		_	= Tota	al Cove	er							
OBL species O x 1 = O										ultiply by.		
FACW species O x 2 = O												
4												
Herb Stratum (Plot size: 5' radius)						FAC species		0	x 3 =	0		
Herb Stratum (Plot size: 5' radius) Column Totals: 0 (A) 0.00 (E	5					FACU specie					_	
1	List Otatus (District Finding)	0	= Tota	al Cove	er	· ·					_	
2. Prevalence Index = B/A =						Column Total	ls:	0	(A)	0.00	(B)	
3.						Prevale	nce Inde	x = B/	'A =			
4												
5						1 - Rapid	l Test for	Hydro	phytic Ve	egetation		
6						2 - Domii	nance Te	est is >	50%			
7 4 - Morphological Adaptations¹ (Provide supporti data in Remarks or on a separate sheet) 9 4 - Morphological Adaptations¹ (Provide supporti data in Remarks or on a separate sheet) — Problematic Hydrophytic Vegetation¹ (Explain) 10 1 Indicators of hydric soil and wetland hydrology must						3 - Preva	lence Ind	ex is ≤	≤3.0 ¹			
9 Problematic Hydrophytic Vegetation¹ (Explain) 10 1Indicators of hydric soil and wetland hydrology must												
10	8								•			
0 = Total Cover Indicators of hydric soil and wetland hydrology musi	9					Problem	iatic Hydi	ropnyti	c vegeta	ation (Expi	ain)	
Woody Vine Stratum (Plot size: 30' radius) be present, unless disturbed or problematic.	10			al Cove		¹ Indicators o	f hydric s	oil and	l wetland	l hydrology	must	
	Woody Vine Stratum (Plot size: 30' radius)		- 100	ai Cove	žI	be present, ι	unless di	sturbed	d or prob	lematic.		
1 Hydrophytic	1					Hydronhytic						
2 Vegetation	2	_				Vegetation			,			
Present? Yes No		0	= Tota	al Cove	er	Present?	Y	es	<u>∕</u> N	o		
Remarks: (Include photo numbers here or on a separate sheet.)	Remarks: (Include photo numbers here or on a separate	sheet.)				•						

US Army Corps of Engineers

Profile Des	cription: (E	escribe	to the dep	th needed	to docur	ment the i	indicator o	or confir	m the absence	e of indicators.)
Depth		Matrix			Redo	x Feature	s			
(inches)	Color (ı		%	Color (moist)	<u>%</u>	Type'	Loc ²	<u>Texture</u>	Remarks
0-8	_10YR	3/1	<u> 100</u>						L	No redox
8-15	<u>10YR</u>	4/1	90	_10YR_	4/3	10	<u>C</u>	M	L	
15-20	10YR	4/2	90	10YR	4/4	10	C	M	L	
20-24	10YR	2/1	100						SIL	No redox
						-				
										· ———
										·
1									2.	. ————
¹ Type: C=C Hydric Soil			etion, RM=	=Reduced	Matrix, M	S=Masked	Sand Gra	ins.		cation: PL=Pore Lining, M=Matrix. s for Problematic Hydric Soils ³ :
*					Candy	Clayed Ma	atrix (C4)			•
Histoso	r (AT) pipedon (A2	1				Gleyed Ma				t Prairie Redox (A16)
	istic (A3)	,			-	Redox (S5 d Matrix (S	•			Surface (S7)
l ——	en Sulfide (<i>A</i>	(4)		_		Mucky Mir				Manganese Masses (F12)
l .	d Layers (A	5)				Gleyed Ma			-	Shallow Dark Surface (TF12)
	uck (A10)		(4.44)			d Matrix (I	,		Other	(Explain in Remarks)
	d Below Dai ark Surface		e (A11)		_	Dark Surfa	ice (F6) irface (F7)		3Indicator	s of hydrophytic vegetation and
_	dik Sunace Mucky Miner	` ,			-	Depression	. ,			nd hydrology must be present,
	ucky Peat or		3)			- op. 000.0	(. 0)			s disturbed or problematic.
Restrictive	Layer (if ob	served):								
Type:										
Depth (in	iches):								Hydric Soi	I Present? Yes <u>√</u> No
Remarks:									·	
HYDROLC	GY									
Wetland Hy	drology Inc	licators:								
Primary Indi	cators (mini	mum of o	ne is requi	red; check	all that ap	ply)			Second	lary Indicators (minimum of two required)
Surface	Water (A1)			\	Nater-Sta	ined Leav	es (B9)		Su	rface Soil Cracks (B6)
High Wa	ater Table (A	\ 2)			Aquatic Fa	auna (B13)		Dra	ainage Patterns (B10)
Saturati	. ,					itic Plants			-	y-Season Water Table (C2)
Water N	. ,				-	Sulfide O		_	,	ayfish Burrows (C8)
Sedime		(B2)					res on Livi	-	· · —	turation Visible on Aerial Imagery (C9)
Drift De		D4\					ed Iron (C4	•		inted or Stressed Plants (D1)
Algal M	at of Crust (posits (B5)	D4)		· · · · · · · · · · · · · · · · · · ·		Surface (on in Tilled	Solis (C		omorphic Position (D2) C-Neutral Test (D5)
✓ Inundat		n Aerial I	magery (B			Well Data			'^	C-Neutral Test (D3)
	y Vegetated		• • •	· —	•	olain in Re	` '			
Field Obser	, ,		(-							
Surface Wat		Y	es l	No <u>√</u>	Depth (in	ches):				
Water Table				No <u>√</u>						
Saturation F				No <u>√</u>				l l	land Hydrolog	gy Present? Yes <u>√</u> No
(includes ca		e)								
				_	ell, aerial _l	photos, pr	evious insp	pections)	, if available:	
GE and NAIF	aenai imag	jery, OSA	Completed	u.						
Remarks:	nrocont but	000/:	1 to be =:==	الحاد المادة	ofunation -	laives #-	. other	amataur	the OSA Jac-1	acono position other budget acuit dis-t
and profession	•		i ιο be suπ	icieritiy dys	siurictiona	ıı giveri ine	oner par	ameters,	ine OSA, iand	scape position, other hydrology indicators,

Project/Site: 20241389 Kane Co 107.87-Ac Property	(City/Cou	unty: <u>Kane C</u>	ounty	Sampling Date: 2024-11-06					
Applicant/Owner: Surya Powered				State: Illinois	Sampling Point: P5					
Investigator(s): Eric C Parker, SPWS		Section	, Township, F	Range: <u>sec 19 T042N R</u>	.007E					
Landform (hillslope, terrace, etc.): Depression			Local relie	ef (concave, convex, nor	ne): <u>Conc</u>	ave				
Slope (%): <u>0-2</u> Lat: <u>42.107509</u>		Long: <u>-</u> {	88.457940		Datu	m: WGS84				
Soil Map Unit Name: Drummer silty clay loam, 0 to 2 perce	nt slopes			NWI clas	sification:	None Depic	ted			
Are climatic / hydrologic conditions on the site typical for thi	s time of yea	ar? Yes	s No	(If no, explain i	n Remark	s.)				
Are Vegetation, Soil, or Hydrologys	significantly	disturbe	ed? Are	e "Normal Circumstance	s" presen	t? Yes	No			
Are Vegetation, Soil, or Hydrologyr	naturally pro	blemati	c? (If	needed, explain any ans	wers in F	lemarks.)				
SUMMARY OF FINDINGS - Attach site map	showing	samp	oling point	locations, transe	cts, imp	ortant fe	atures	s, etc.		
Hydrophytic Vegetation Present? Yes N	lo		e the Sample	od Aroa						
Hydric Soil Present? Yes N			s the Sample within a Wetl		1	No				
Wetland Hydrology Present? Yes _ ✓ N	lo									
Remarks: APT analysis indicates climatic conditions are in the drier t	han normal	range. /	Ag field plante	ed in soybeans, now har	vested; n	ot NC.				
VEGETATION – Use scientific names of plants										
Tree Stratum (Plot size: 30' radius)	Absolute % Cover		nant Indicator							
1		-		Number of DominarThat Are OBL, FAC				(A)		
3.				Total Number of Do		0		(B)		
4 5				Percent of Dominan That Are OBL, FAC				(A/B)		
Sapling/Shrub Stratum (Plot size: 15' radius)	0	= Total	Cover	Prevalence Index v	vorkshee	ıt:				
1				Total % Cover of			/ by:			
2.				OBL species	0	x 1 =	0	_		
3				FACW species				_		
4				FAC species				_		
5				_ FACU species				_		
Herb Stratum (Plot size: 5' radius)	0	= Total	Cover	UPL species				_		
1				Column Totals:		(A) <u>U</u>	0.00	_ (B)		
2.				Prevalence In	dex = B/A	<i>t</i> =		_		
3.				Hydrophytic Vege	tation Inc	dicators:				
4				_ 1 - Rapid Test f	or Hydrop	hytic Vegeta	ition			
5				2 - Dominance	Test is >5	0%				
6				3 - Prevalence I	Index is ≤	3.0 ¹				
7				4 - Morphologic	al Adapta	ations¹ (Provi n a separate	de supr	oorting		
8				Problematic Hy		•		in)		
9				- Froblematic Hy	/dropriytic	vegetation	(Explai	111)		
10		= Total	Cover	1 Indicators of hydric be present, unless				nust		
1										
2.				─ Hydrophytic_ Vegetation						
	0	= Total	Cover		Yes <u>√</u>	No				
Remarks: (Include photo numbers here or on a separate	sheet.)									
Ag field planted in soybeans in 2024 now harvested and cl										

Profile Des	cription: (E	Describe	to the dep	th needed	to docu	ment the	indicator	or con	firm t	he absence	e of indicators.)
Depth		Matrix				x Feature		. 2	, 	- .	
(inches)	Color (ı		<u>%</u>	Color (r	noist)	%	Type ¹	Loc ²		Texture	Remarks
0-8	<u>10YR</u>	4/1	_100_							L	No redox
<u>8-16</u>	<u>10YR</u>	4/1	<u>90</u>	<u> 10YR</u>	4/4	10	<u>C</u>	M		L	
<u>16-24</u>	<u>10YR</u>	3/1	_100_			_				SIL	No redox
1 _T 0-0		- D-D		- Dadwaad 1	14-4-iv 114					21.0	action. DI - Dave Living M-Matrix
¹ Type: C=C Hydric Soil			etion, RIVI=	Reduced i	viatrix, ivi	S=IVIasked	Sand Gra	ains.			cation: PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :
Histosol					Sandy	Gleyed Ma	atrix (S4)				Prairie Redox (A16)
	pipedon (A2	?)				Redox (S5					, ,
	istic (A3)	,			•	d Matrix (S	,				Surface (S7)
	en Sulfide (A			_		Mucky Mir					Manganese Masses (F12)
	d Layers (A	5)			-	Gleyed Ma	, ,			-	Shallow Dark Surface (TF12)
	uck (A10) d Below Dai	rk Surface	- (Δ11)			ed Matrix (Dark Surfa				Other	(Explain in Remarks)
	ark Surface		5 (A11)		=		ırface (F7)			3Indicator	s of hydrophytic vegetation and
	/lucky Miner	. ,				Depressio	, ,				nd hydrology must be present,
	ucky Peat o		3)							unless	s disturbed or problematic.
Restrictive	Layer (if ob	served):									
Type:											
Depth (in	ches):									Hydric Soi	I Present? Yes <u>√</u> No
Remarks:											
HYDROLO	GY										
Wetland Hy		dicators:									
Primary India			ne is requir	ed: check	all that ar	(vlac				Second	ary Indicators (minimum of two required)
	Water (A1)					ined Leav	es (B9)				face Soil Cracks (B6)
	ater Table (A					auna (B13	` ,				ninage Patterns (B10)
Saturati		,				atic Plants					-Season Water Table (C2)
	1arks (B1)					Sulfide O	` '			-	yfish Burrows (C8)
Sedime	nt Deposits	(B2)		c	Oxidized I	Rhizosphe	res on Liv	ing Roo	ots (C	3) <u>√</u> Sat	uration Visible on Aerial Imagery (C9)
Drift De	posits (B3)			F	Presence	of Reduce	ed Iron (C4	!)		✓ Stu	nted or Stressed Plants (D1)
Algal Ma	at or Crust (B4)		F	Recent Iro	n Reducti	on in Tilled	d Soils	(C6)	✓ Ge	omorphic Position (D2)
. —	oosits (B5)			_		Surface (` '			FA	C-Neutral Test (D5)
	on Visible o				-	Well Data					
	y Vegetated	Concave	Surface (E	38) <u> </u>	Other (Ex	plain in Re	emarks)				
Field Obser				. /	5						
Surface Wat			es								
Water Table			es								
Saturation P (includes ca			es 1	Vo <u>√</u>	Depth (in	ches):		- w	Vetlan	d Hydrolog	yy Present? Yes <u>√</u> No
Describe Re	corded Data	a (stream	gauge, mo	nitoring we	ell, aerial	photos, pr	evious ins	pection	ns), if	available:	
GE and NAIF	aerial imaç	gery; OSA	completed	d.							
Remarks:											
				ent but ass	umed to	be sufficie	ntly dysfur	nctional	l give	n the OSA, o	other hydrology parameters, landscape
position, and	protessiona	aı juagme	nt.								
l											

Project/Site: 20241389 Kane Co 107.87-Ac Property	c	City/County: Kane County Sampling Date: 202							
Applicant/Owner: Surya Powered					State: Illinois	Samp	ling Poir	nt: <u>P6</u>	
Investigator(s): Eric C Parker, SPWS	§	Sectio	n, Tow	nship, Ran	ge: sec 18 T042I	N R007E			
Landform (hillslope, terrace, etc.): Saddle			L	ocal relief (concave, convex,	none): Con	vex		
Slope (%): 0-2 Lat: 42.107858	L	ong:	-88.45	8052		Dati	um: WG	S84	
Soil Map Unit Name: Drummer silty clay loam, 0 to 2 percent slo	opes				NWI c	classification	: None	Depicted	
Are climatic / hydrologic conditions on the site typical for this tim	ne of yea	r? Ye	es	No	✓ (If no, expla	ain in Remai	rks.)		
Are Vegetation, Soil, or Hydrology signif								s N	.o <u>/</u>
Are Vegetation, Soil, or Hydrology natur									
SUMMARY OF FINDINGS – Attach site map sho									s, etc.
Hydrophytic Vegetation Present? Yes No	✓		1- 41	0	A				
Hydric Soil Present? Yes No	✓			Sampled n n a Wetlan		s	No	/	
Wetland Hydrology Present? Yes No			WILLIII	ii a wetian	u: 1e	s		<u>v</u>	
Remarks: APT analysis indicates climatic conditions are in the drier than	normal r	ange	. Ag fie	eld planted	in soybeans, now	harvested;	not NC.		
VEGETATION – Use scientific names of plants.									
Tree Stratum (Plot size: 30' radius) % 1	Cover	Spec	cies?		Number of Domi That Are OBL, F	nant Specie	:S	0	(A)
2				I	Total Number of Species Across			0	(B)
4.			al Cove		Percent of Domi That Are OBL, F				(A/B)
Sapling/Shrub Stratum (Plot size: 15' radius)		- 1016	ai Cove	21	Prevalence Inde	ex workshe	et:		
1					Total % Cov			ultiply by:	
2					OBL species				
3					FACW species				_
4					FAC species FACU species				_
5	0 =		al Cov		UPL species		_ x4= _ x5=		_
Herb Stratum (Plot size: 5' radius)		= 10ta	ai Cove	31	Column Totals:			0.00	(B)
1					Prevalence	e Index = B	/Δ =		
2					Hydrophytic V				
3					1 - Rapid Te	•			
4					2 - Dominar	-		-9	
5				I	3 - Prevalen				
7					4 - Morphol	ogical Adapt	ations¹ ((Provide sup	porting
8.								arate sheet)	
9					Problemation	c Hydrophyti	ic Veget	ation¹ (Expla	ain)
10		 = Tota	al Cove	er	¹ Indicators of hy be present, unle				must
1				ŀ					
2.					Hydrophytic Vegetation			_	
Remarks: (Include photo numbers here or on a separate shee		= Tota	al Cove	er	Present?	Yes		lo <u>√</u>	
Ag field planted in soybeans in 2024 now harvested and chisel	,	. Not	NC. W	/eeds not p	resent; some soyl	bean germir	nation fro	om seed spil	lage.

Profile Des	cription: (E	Describe	to the dep	th needed	to docur	nent the i	indicator	or conf	firm the a	bsence	e of indicators.)
Depth		Matrix				x Feature			_		
(inches)	Color (ı	moist)	%	Color (ı	moist)	%	Type ¹	Loc ²		xture	Remarks
0-15	_10YR	4/1	_100_							SIL	No redox
<u>15-20</u>	_10YR	4/1	95_	<u>10YR</u>	4/2	5	C	M	<u>S</u>	ICL	
20-24	10YR	5/2	85_	10YR	4/4	15	C	M	s	SIC	
	_							-			
										2	- <u></u>
¹ Type: C=C Hydric Soil			letion, RM=	Reduced I	Matrix, MS	S=Masked	d Sand Gra	ains.	lna		ocation: PL=Pore Lining, M=Matrix. s for Problematic Hydric Soils ³ :
_					Sandy (Cloudd Ma	atrix (C1)				·
Histosol	r (AT) pipedon (A2)				Gleyed Ma Redox (S5				_	t Prairie Redox (A16)
	istic (A3)	-,				d Matrix (S					Surface (S7)
Hydroge	en Sulfide (<i>A</i>	\ 4)				Mucky Mir	,		_		Manganese Masses (F12)
	d Layers (A	5)			-	Gleyed Ma				-	Shallow Dark Surface (TF12)
I —	uck (A10)		- (0.44)			d Matrix (_ Other	(Explain in Remarks)
	d Below Dai ark Surface		e (A11)		_	Dark Surfa	ace (F6) ırface (F7)		3 _{1r}	ndicator	rs of hydrophytic vegetation and
	Mucky Miner	` '				Dark St Depressio	, ,		!!		nd hydrology must be present,
	ucky Peat or		3)		=	•	` ,				s disturbed or problematic.
Restrictive	Layer (if ob	served):									
Type:											
Depth (in	iches):								Hyd	Iric Soi	Il Present? Yes No✓_
Remarks:									•		
HYDROLO											
Wetland Hy											
Primary Indi	cators (minii	mum of o	ne is requir								lary Indicators (minimum of two required)
	Water (A1)					ined Leav	, ,		-		rface Soil Cracks (B6)
	ater Table (A	42)				auna (B13			-		ainage Patterns (B10)
Saturati	, ,					tic Plants			-		y-Season Water Table (C2)
	Marks (B1) nt Deposits	(B2)				Sulfide O	res on Livi	ina Doo			ayfish Burrows (C8) turation Visible on Aerial Imagery (C9)
	posits (B3)	(62)					ed Iron (C4	-			unted or Stressed Plants (D1)
l —	at or Crust (B4)					on in Tilled	•			omorphic Position (D2)
ı —	osits (B5)	,				Surface (. , .		C-Neutral Test (D5)
Inundati	ion Visible o	n Aerial I	magery (B7	') (Gauge or \	Well Data	(D9)				
Sparsel	y Vegetated	Concave	e Surface (E	38) (Other (Exp	olain in Re	emarks)				
Field Obser	vations:										
Surface Wat	ter Present?	Y	es 1	Vo <u>√</u>	Depth (in	ches):		_			
Water Table	Present?	Υ	es 1	Vo <u>√</u>	Depth (in	ches):		_			
Saturation P			es 1	Vo <u>√</u>	Depth (in	ches):		_ w	etland H	ydrolog	gy Present? Yes No/_
(includes ca Describe Re			gauge, mo	nitoring we	ell, aerial p	ohotos, pr	evious ins	pection	ns), if avail	able:	
GE and NAIF				_				•	,,		
Remarks:											
No wetland h	nydrology ind	dicators o	bserved, n	o saturatio	n. Tile net	twork pres	sent and a	ssumed	d to be su	fficiently	y functional in this area.

Project/Site: 20241389 Kane Co 107.87-Ac Property	(City/Count	ty: Kane Cou	ınty	oling Date: 2	2024-11	-06		
Applicant/Owner: Surya Powered				State: Illinois	_ Samplir	ng Point: P	oint: P7		
Investigator(s): Eric C Parker, SPWS	;	Section, T	ownship, Rai	nge: <u>sec 19 T042N R</u>	007E				
Landform (hillslope, terrace, etc.): Depression			Local relief	(concave, convex, nor	ne): <u>Conc</u> a	ave			
Slope (%): 0-2 Lat: 42.108207	ا	Long: <u>-88</u>	.458384		Datur	n: WGS84			
Soil Map Unit Name: Clare silt loam, 0 to 2 percent slopes				NWI class	sification:	None Depic	cted		
Are climatic / hydrologic conditions on the site typical for th	is time of yea	ar? Yes _	No	✓ (If no, explain i	n Remark	s.)			
Are Vegetation, Soil, or Hydrology	significantly	disturbed?	? Are "	Normal Circumstance	s" present	? Yes	No	o <u> </u>	
Are Vegetation, Soil, or Hydrology	naturally pro	blematic?	(If ne	eded, explain any ans	wers in R	emarks.)			
SUMMARY OF FINDINGS – Attach site map				ocations, transed	cts, imp	ortant fe	ature	s, etc.	
Hydrophytic Vegetation Present? Yes I	No	la d	the Commission						
Hydric Soil Present? Yes 1			the Sampled thin a Wetlar		/ 1	No			
Wetland Hydrology Present? Yes <u>√</u> I	No	Wit	umi a weda	iu: res_			-		
Remarks: APT analysis indicates climatic conditions are in the drier	than normal	range. Ag	field planted	in soybeans, now har	vested; no	ot NC.			
VEGETATION – Use scientific names of plants	3 .								
<u>Tree Stratum</u> (Plot size: <u>30' radius</u>) 1.		Species'	nt Indicator ? Status	Number of Dominan That Are OBL, FAC	t Species)	(A)	
2				Total Number of Do Species Across All S		0)	(B)	
4. 5.		= Total Co		Percent of Dominan That Are OBL, FAC				(A/B)	
Sapling/Shrub Stratum (Plot size: 15' radius)		- Total Ci	ovei	Prevalence Index v	vorksheef	t:			
1				Total % Cover of			y by:		
2				OBL species				_	
3				FACW species FAC species				_	
4				FAC species				_	
5		= Total Co	over	UPL species		x 5 =		=	
Herb Stratum (Plot size: 5' radius)				Column Totals:			0.00	_ _ (B)	
1				Prevalence Inc	dex = B/A	\ =			
2				Hydrophytic Vege		_			
4.				1 - Rapid Test fo	or Hydrop	hytic Veget	ation		
5.				2 - Dominance	Test is >50	ე%			
6.				3 - Prevalence I	ndex is ≤3	3.0 ¹			
7.				4 - Morphologic	al Adapta	tions¹ (Prov	ide sup	porting	
8				data in Rema		•		:>	
9				Problematic Hy	/aropnytic	vegetation	(Expla	in)	
10		= Total Co	over	¹ Indicators of hydric be present, unless				must	
1				Hydrophytic					
2				Vegetation	. ,	,			
		= Total Co	over	Present?	Yes <u>√</u>	No			
Remarks: (Include photo numbers here or on a separate	,								
Ag field planted in soybeans in 2024 now harvested and c									

Profile Des	cription: (E	Describe	to the dep	th needed	to docur	nent the	indicator	or conf	firm the	absence	e of indicators.)
Depth		Matrix			Redo	x Feature					
(inches)	Color (ı	moist)	%	Color (ı	moist)	%	Type ¹	Loc ²	<u> </u>	exture	Remarks
0-8	_10YR_	4/1	_100_							L	No redox
8-20	_10YR	4/1	93_	<u>10YR</u>	4/3	7	C	M		SICL	
20-24	10YR	4/1	90_	10YR	4/3	10	C	M	;	SICL	
						·					· ———
						· ——					
1										2.	. ————
¹ Type: C=C Hydric Soil			letion, RM=	Reduced I	Matrix, MS	S=Masked	d Sand Gra	ains.	1.		ocation: PL=Pore Lining, M=Matrix. s for Problematic Hydric Soils ³ :
•					Sandy C	Noved Ma	atrix (C1)				•
Histoso	r (AT) pipedon (A2	')				Gleyed Ma			_		t Prairie Redox (A16)
	istic (A3)	• /				Redox (S5 d Matrix (S	•				Surface (S7)
	en Sulfide (<i>A</i>						neral (F1)		-		Manganese Masses (F12)
	d Layers (A	5)				Gleyed Ma			_	-	Shallow Dark Surface (TF12)
	uck (A10)	.l. Of	- (0.44)			d Matrix (,		-	Other	(Explain in Remarks)
	d Below Dai ark Surface		e (A11)		=	Dark Surfa	ace (F6) ırface (F7)		3	3 Indicator	s of hydrophytic vegetation and
l ——	Mucky Miner	. ,				o Dark Sc Depressio	, ,				nd hydrology must be present,
	ucky Peat or		3)		_		- (- /				s disturbed or problematic.
Restrictive	Layer (if ob	served):									
Type:											
Depth (in	iches):								Hy	ydric Soi	I Present? Yes <u>√</u> No
Remarks:											
HYDROLO											
Wetland Hy											
Primary Indi			ne is requir								lary Indicators (minimum of two required)
_	Water (A1)				Nater-Stai		` '				rface Soil Cracks (B6)
	ater Table (A	42)			Aquatic Fa						ainage Patterns (B10)
Saturati	, ,				Frue Aqua		` '			-	/-Season Water Table (C2)
	Marks (B1) nt Deposits	(B2)			Hydrogen : Dxidized F		res on Livi	ina Roo	ots (C3)		ayfish Burrows (C8) turation Visible on Aerial Imagery (C9)
	posits (B3)	(52)					ed Iron (C4	-	010 (00)	,	inted or Stressed Plants (D1)
	at or Crust (B4)					on in Tilled	•	(C6)	,	omorphic Position (D2)
_	posits (B5)	ŕ		1	Γhin Muck	Surface ((C7)			FA	C-Neutral Test (D5)
✓ Inundat	ion Visible o	n Aerial I	magery (B7	[']) (Gauge or \	Well Data	(D9)				
Sparsel	y Vegetated	Concave	e Surface (E	38) (Other (Exp	olain in Re	emarks)				
Field Obser	vations:										
Surface Wat	ter Present?	Y	es 1	Vo <u>√</u>	Depth (inc	ches):		-			
Water Table	Present?		es 1								
Saturation F			es 1	Vo <u>√</u>	Depth (inc	ches):		_ w	Vetland	Hydrolog	gy Present? Yes <u>√</u> No
(includes ca Describe Re	corded Data	e) a (stream	gauge, mo	nitoring we	ell, aerial p	ohotos, pr	evious ins	pection	ns), if ava	ailable:	
GE and NAIF					, ,	, ·	,	•	,,		
Remarks:											
Consistent s	ignature are	a. Tile ne	twork prese	ent but ass	sumed to b	oe sufficie	ntly dysfur	nctional	I in this o	depressio	on.

Project/Site: 20241389 Kane Co 107.87-Ac Property		City/Co	unty:	Kane Cou	nty Sampling Date: 2024-11-06				
Applicant/Owner: Surya Powered		State: Illinois Sampling Point: P8							
Investigator(s): Eric C Parker, SPWS		Section	, Tow	nship, Rar	nge: sec 18 T042N R007E				
Landform (hillslope, terrace, etc.): Sideslope			Lo	ocal relief	(concave, convex, none): None				
Slope (%): 0-2 Lat: 42.106177									
Soil Map Unit Name: Drummer silty clay loam, 0 to 2 perce									
Are climatic / hydrologic conditions on the site typical for thi					· · · · · · · · · · · · · · · · · · ·				
Are Vegetation, Soil, or Hydrologys									
Are Vegetation, Soil, or Hydrology I					eded, explain any answers in Remarks.)				
SUMMARY OF FINDINGS – Attach site map									
Hydrophytic Vegetation Present? Yes N	lo 🗸								
Hydric Soil Present? Yes N				Sampled a Wetlar					
Wetland Hydrology Present? Yes N	lo <u>√</u>	'	WILIIII	ı a vvellar	id! TesNO				
Remarks:									
APT analysis indicates climatic conditions are in the drier t	han normal	range.	Ag fie	ld planted	in soybeans, now harvested; not NC.				
VEGETATION – Use scientific names of plants	•								
001 11	Absolute			ndicator	Dominance Test worksheet:				
<u>Tree Stratum</u> (Plot size: <u>30' radius</u>) 1	% Cover				Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)				
2	_				Total Number of Dominant				
3					Species Across All Strata: (B)				
4	_				Percent of Dominant Species				
5					That Are OBL, FACW, or FAC: 0.00 (A/B)				
Sapling/Shrub Stratum (Plot size: 15' radius)		= Total	Cove	er	Prevalence Index worksheet:				
1					Total % Cover of: Multiply by:				
2					OBL species0 x 1 =0				
3					FACW species0 x 2 =0				
4	_				FAC species 0 x 3 = 0				
5					FACU species 7 x 4 = 28				
El radius	0	= Total	Cove	er	UPL species0 x 5 =0				
Herb Stratum (Plot size: 5' radius)	5	Υ		FACU	Column Totals:7 (A)28.00 (B)				
VERONICA ARVENSIS Taraxacum officinale	^	<u> </u>		FACU FACU	Prevalence Index = B/A = 4.0				
2. <u>Taraxacum officinale</u> 3					Hydrophytic Vegetation Indicators:				
4.					1 - Rapid Test for Hydrophytic Vegetation				
5					2 - Dominance Test is >50%				
6					3 - Prevalence Index is ≤3.0 ¹				
7.					4 - Morphological Adaptations ¹ (Provide supporting				
8					data in Remarks or on a separate sheet)				
9					Problematic Hydrophytic Vegetation¹ (Explain)				
10	_				4				
Woody Vine Stratum (Plot size: 30' radius)	7.0	= Total	Cove	er	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
1					Hydrophytic				
2					Vegetation				
	0	= Total	Cove	er	Present? Yes No				
Remarks: (Include photo numbers here or on a separate	sheet.)								
Ag field planted in soybeans in 2024 now harvested and c spillage. Adjacent field edge 50' to west dominated by Bro			NC. Sp	oarse wee	ds present; some soybean germination from seed				

			eded to document the indicator or	r confirm the a	bsence	of indicators.)
Depth (inches)	Matrix Color (moist)		Redox Features olor (moist)	Loc ² Tex	xture	Remarks
0-14	10YR 4/1				L	No redox
14-24	10YR 3/1				= SIL	No redox
14-24	10110 3/1)IL	NO TEGOX
¹ Type: C=Co	oncentration, D=D	epletion, RM=Red	uced Matrix, MS=Masked Sand Grain	ns.	² Lo	cation: PL=Pore Lining, M=Matrix.
Hydric Soil						for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Gleyed Matrix (S4)		Coast	Prairie Redox (A16)
	oipedon (A2)		Sandy Redox (S5)		- Dark S	Surface (S7)
Black Hi	` ,		Stripped Matrix (S6)			anganese Masses (F12)
	en Sulfide (A4)		Loamy Mucky Mineral (F1)			Shallow Dark Surface (TF12)
Stratified	d Layers (A5)		Loamy Gleyed Matrix (F2)Depleted Matrix (F3)		•	(Explain in Remarks)
	d Below Dark Surf	ace (A11)	Redox Dark Surface (F6)	_	_ Other	(Explain in Remarks)
	ark Surface (A12)	400 (7111)	Depleted Dark Surface (F7)	³ Ir	ndicators	s of hydrophytic vegetation and
	Mucky Mineral (S1))	Redox Depressions (F8)			d hydrology must be present,
	icky Peat or Peat				unless	disturbed or problematic.
Restrictive I	Layer (if observe	d):				
ı 						
Depth (in	ches):			Hyd	lric Soil	Present? Yes No
Remarks:						
HYDROLO	GY					
Wetland Hy	drology Indicator	s:				
Primary Indic	cators (minimum o	f one is required; o	heck all that apply)	<u> </u>	Seconda	ary Indicators (minimum of two required)
Surface	Water (A1)		Water-Stained Leaves (B9)	-	Sur	face Soil Cracks (B6)
High Wa	ater Table (A2)		Aquatic Fauna (B13)	-	Dra	inage Patterns (B10)
Saturation	, ,		True Aquatic Plants (B14)	-	-	-Season Water Table (C2)
	larks (B1)		Hydrogen Sulfide Odor (C1)	-		yfish Burrows (C8)
	nt Deposits (B2)		Oxidized Rhizospheres on Living	•		uration Visible on Aerial Imagery (C9)
	posits (B3)		Presence of Reduced Iron (C4)			nted or Stressed Plants (D1)
_	at or Crust (B4)		Recent Iron Reduction in Tilled	Soils (C6)		omorphic Position (D2)
	oosits (B5)	- L I (D.7)	Thin Muck Surface (C7)	-	FAC	C-Neutral Test (D5)
	on Visible on Aeria Vegetated Conca		Gauge or Well Data (D9)Other (Explain in Remarks)			
Field Obser		ave Surface (Bo)	Other (Explain in Remarks)			
Surface Water		Yes No	✓ Depth (inches):			
Water Table			✓ Depth (inches):			
Saturation P			✓ Depth (inches):		vdroloa	y Present? Yes No✓_
(includes car	pillary fringe)					,
			ing well, aerial photos, previous inspe nature noted and prelim (offsite) wet			not as consistent as other signatures.
Remarks:						
			o saturation. Ditch waterway off-site a d assumed to be sufficiently function		the wes	st. Water level in waterway approx 8-9

Project/Site: 20241389 Kane Co 107.87-Ac Property	City/County: Kane Cou	nty Sampling Date: 2024-11-06
Applicant/Owner: Surya Powered		State: Illinois Sampling Point: P9
Investigator(s): Eric C Parker, SPWS	Section, Township, Rar	nge: sec 18 T042N R007E
Landform (hillslope, terrace, etc.): Toeslope	Local relief ((concave, convex, none): Concave
Slope (%): <u>0-2</u> Lat: 42.105961	Long: <u>-88.458840</u>	Datum: WGS84
Soil Map Unit Name: Drummer silty clay loam, 0 to 2 percent slopes		
Are climatic / hydrologic conditions on the site typical for this time of y	ear? Yes No	√ (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantl		
Are Vegetation, Soil, or Hydrology naturally p	roblematic? (If ne	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showin	g sampling point lo	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No		
Hydrophytic Vegetation Present? Yes	is the campied	
Wetland Hydrology Present? Yes ✓ No	within a wellan	d? Yes No
Remarks:		
APT analysis indicates climatic conditions are in the drier than normal	al range. Ag field planted	in soybeans, now harvested; not NC.
VEGETATION – Use scientific names of plants.		
Absolute		Dominance Test worksheet:
Tree Stratum (Plot size: 30' radius) % Cove	r Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
2. 3		Total Number of Dominant Species Across All Strata: 0 (B)
4		(,
5.		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Operation (Charles Observed (Distriction 15) reading	_ = Total Cover	Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15' radius)		Total % Cover of: Multiply by:
1		OBL species x 1 = 0
3		FACW species 0 x 2 = 0
4		FAC species 0 x 3 = 0
5.		FACU species 0 x 4 = 0
0	= Total Cover	UPL species0 x 5 =0
Herb Stratum (Plot size: 5' radius)		Column Totals: (A) (B)
1		Prevalence Index = B/A =
2		Hydrophytic Vegetation Indicators:
3		1 - Rapid Test for Hydrophytic Vegetation
5		2 - Dominance Test is >50%
6		3 - Prevalence Index is ≤3.0 ¹
7.		4 - Morphological Adaptations ¹ (Provide supporting
8		data in Remarks or on a separate sheet)
9		✓ Problematic Hydrophytic Vegetation¹ (Explain)
10		1
Woody Vine Stratum (Plot size: 30' radius)	_ = Total Cover	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1		Hydrophytic
2		Vegetation
_ 0	_ = Total Cover	Present? Yes/_ No
Remarks: (Include photo numbers here or on a separate sheet.)		
Ag field planted in soybeans in 2024 now harvested and chisel plower Adjacent field edge 80' to west dominated by Bromus inermis, Ambro	osia trifida and Urtica dioi	ca. Assumed hydrophytic vegetation would dominate
under NC given the OSA, landscape position, the other parameters,	and professional judgme	nt.

US Army Corps of Engineers Midwest Region – Version 2.0

Profile Des	cription: (D	Describe	to the dept	th needed	to docu	ment the i	ndicator	or confir	m the absence o	f indicators.)
Depth		Matrix			Redo	x Features	3			
(inches)	Color (ı	moist)	<u>%</u>	Color (ı	moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-16		3/1	93_	10YR	3/3	7	C	M	SIL	
16-24	10YR	5/2	85	10YR	5/4	15	C	M	SIC	
-									- <u></u>	
-	-									
						- ——				
			· ——							_
l 						- ——				
¹Type: C=C			letion, RM=	Reduced I	Matrix, M	S=Masked	Sand Gra	ains.		tion: PL=Pore Lining, M=Matrix.
Hydric Soil										or Problematic Hydric Soils ³ :
Histoso	` ')\		_		Gleyed Ma			Coast Pi	rairie Redox (A16)
	pipedon (A2 listic (A3)	-)			•	Redox (S5 d Matrix (S	•		— Dark Su	rface (S7)
	en Sulfide (A	\ 4)		_		Mucky Mir			Iron-Mar	nganese Masses (F12)
	d Layers (A			_	-	Gleyed Ma			Very Sha	allow Dark Surface (TF12)
	uck (A10)					d Matrix (I	•		Other (E	xplain in Remarks)
	ed Below Dai		e (A11)		_	Dark Surfa			31	f budgenbutie verstetier and
I	ark Surface Mucky Miner	,				d Dark Su Depressio				of hydrophytic vegetation and hydrology must be present,
	ucky Peat or		3)	_	_ Nedox i	Бергеобіої	10 (1 0)			isturbed or problematic.
Restrictive										·
Type:										
Depth (in	nches):								Hydric Soil P	resent? Yes <u>√</u> No
Remarks:									L	
HYDROLC	OGY									
Wetland Hy	drology Inc	dicators:								
Primary Indi	cators (mini	mum of o	ne is requir	ed; check	all that ap	ply)			Secondary	/ Indicators (minimum of two required)
Surface	Water (A1)			V	Vater-Sta	ined Leave	es (B9)		Surfac	ce Soil Cracks (B6)
High W	ater Table (A	A 2)		/	Aquatic Fa	auna (B13))		Draina	age Patterns (B10)
Saturati	ion (A3)			1	True Aqua	atic Plants	(B14)		Dry-S	eason Water Table (C2)
	Marks (B1)					Sulfide O			,	sh Burrows (C8)
	nt Deposits	(B2)				Rhizosphe		-	· · —	ation Visible on Aerial Imagery (C9)
I	posits (B3)	D. ()				of Reduce	•	,		ed or Stressed Plants (D1)
-	at or Crust (B4)				n Reducti		d Soils (C	· —	norphic Position (D2)
I —	posits (B5) ion Visible o	n Aorial I	magany (P7			: Surface (Well Data	,		FAC-I	Neutral Test (D5)
	ly Vegetated		• • •	· —	-	olain in Re	. ,			
Field Obser	<i>.</i> •	Concave	, Garrage (E		Julion (EX		marko)			
Surface Wa		Y	es N	No √	Depth (in	ches):				
Water Table			es ۱							
Saturation F			es N						land Hydrology	Present? Yes <u>√</u> No
(includes ca	pillary fringe))								
				-	ell, aerial	photos, pro	evious ins	pections)	, if available:	
GE and NAIF	aeriai imag	gery; OSA	completed	1.						
Remarks:			J. L	-141	. .	J -4 DO				
Tile network	present, but	assume	ı io be suffi	ciently dys	siurictiona	แลเ 29.				

Project/Site: 20241389 Kane Co 107.87-Ac Property	(City/Co	unty:	Kane Cou	y Sampling Date: <u>2024-11-06</u>					
Applicant/Owner: Surya Powered					State: Illinois	Sampling Point: P10				
Investigator(s): Eric C Parker, SPWS	;	Section	ı, Tow	nship, Rar	nge: <u>sec 19 T042N R</u> 0	007E				
Landform (hillslope, terrace, etc.): Swale			L	ocal relief	(concave, convex, nor	ne): <u>Conc</u>	ave			
Slope (%): 0-2 Lat: 42.105681	I	Long: <u>-</u>	88.45	8116		Datu	m: WG	S84		
Soil Map Unit Name: Drummer silty clay loam, 0 to 2 perce	nt slopes				NWI class	sification:	None [Depicted		
Are climatic / hydrologic conditions on the site typical for thi	is time of yea	ar? Ye	s	No	✓ (If no, explain i	n Remark	(s.)			
Are Vegetation, Soil, or Hydrology	significantly o	disturbe	ed?	Are "	Normal Circumstances	s" presen	t? Yes		No	
Are Vegetation, soil, or Hydrology	naturally proi	blemati	ic?	(If ne	eded, explain any ans	wers in F	Remarks	3.)		
SUMMARY OF FINDINGS - Attach site map	showing	samı	pling	g point le	ocations, transed	cts, imp	ortar	nt featu	res, etc.	
Hydrophytic Vegetation Present? Yes N	No				_		-			
Hydric Soil Present? Yes ✓ N				e Sampled n a Wetlan		/	No			
Wetland Hydrology Present? Yes <u>√</u> N	10		WILIIII	ii a vvetiaii	id: les_		<u> </u>			
Remarks: APT analysis indicates climatic conditions are in the drier to	than normal	range.	Ag fie	eld planted	in soybeans, now har	vested; n	ot NC.			
,				'						
VEGETATION – Use scientific names of plants	i.									
Tree Stratum (Plot size: 30' radius)	Absolute % Cover			Indicator	Dominance Test w					
1				,	Number of Dominan That Are OBL, FAC\			0	(A)	
2. 3.					Total Number of Doi			0	(B)	
4					Species Across All S				_ (D)	
5	•				Percent of Dominan That Are OBL, FAC				(A/B)	
Sapling/Shrub Stratum (Plot size: 15' radius)	0	= Total	l Cove	er	Prevalence Index v	vorkshee	t:	-		
1					Total % Cover of	of:	M	ultiply by:		
2					OBL species	0	x 1 =	0		
3					FACW species					
4					FAC species					
5					FACU species			0		
Herb Stratum (Plot size: 5' radius)	0	= Total	l Cove	er	UPL species					
1. (Flot size. <u>J Tadius</u>)					Column Totals:		(A)	0.00	(B)	
2.					Prevalence Inc	dex = B/A	<i>γ</i> =			
3.					Hydrophytic Vege	tation Inc	dicator	s:		
4					1 - Rapid Test fo	or Hydrop	hytic V	egetation		
5					2 - Dominance	Γest is >5	0%			
6					3 - Prevalence I	ndex is ≤	3.0 ¹			
7					4 - Morphologic data in Rema	al Adapta	itions¹ (Provide s	upporting	
8					— Problematic Hy		•		,	
9					Problematic Hy	uropriyud	vegeta	ןא⊐) ווטווג	piairi)	
10					¹ Indicators of hydric	soil and	wetland	d hydroloc	ny must	
Woody Vine Stratum (Plot size: 30' radius)	0	= Total	I Cove	er	be present, unless				, y mast	
1					Hydrophytic					
2					Vegetation Present?	Voc	≱ í	lo √		
	0	= Total	l Cove	er	rieseill?	162	N	υ <u>ν</u>	-	
Remarks: (Include photo numbers here or on a separate	sheet.)				-					
Ag field planted in soybeans in 2024 now harvested and c										

Profile Des	cription: (D	escribe	to the dept	h needed	to docui	ment the i	indicator	or confir	rm the absenc	e of indicators.)
Depth		Matrix			Redo	x Feature	s		_	
(inches)	Color (ı	noist)	<u></u> %	Color (ı	moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-15		3/1	95	10YR	3/3	5	C	M	SIL	
15-24	10YR	4/1	_93_	10YR	4/3	7	C	M	SICL	
						-			_	
-										
	-								_	·
									-	
									_	·
									_	
¹ Type: C=C	Concentration	n, D=Dep	letion, RM=l	Reduced I	Matrix, M	S=Masked	Sand Gra	ains.	² Lo	ocation: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:								Indicator	s for Problematic Hydric Soils ³ :
Histoso	l (A1)				Sandy	Gleyed Ma	atrix (S4)		Coas	t Prairie Redox (A16)
	pipedon (A2	()			— Dark	Surface (S7)				
	listic (A3)					Manganese Masses (F12)				
	en Sulfide (A			_	-	Mucky Mir				Shallow Dark Surface (TF12)
	d Layers (Atuck (A10)	0)			-	Gleyed Matrix ((Explain in Remarks)
	ed Below Dai	rk Surface	e (A11)	_		Dark Surfa	,		0.1101	(Explain in Normano)
	ark Surface		<i>5</i> (7 11 1)		_		ırface (F7)		³ Indicator	rs of hydrophytic vegetation and
I	Mucky Miner	. ,				Depressio	, ,			nd hydrology must be present,
5 cm M	ucky Peat or	Peat (S	3)						unles	s disturbed or problematic.
Restrictive	Layer (if ob	served):								
Type:										
Depth (in	nches):								Hydric So	il Present? Yes <u>√</u> No
Remarks:									•	
HYDROLC	OGY									
Wetland Hy	drology Inc	licators:								
Primary Indi	cators (mini	mum of o	ne is require	ed; check	all that ap	pply)			Second	dary Indicators (minimum of two required)
Surface	Water (A1)			\	Vater-Sta	ined Leav	es (B9)		Su	rface Soil Cracks (B6)
✓ High W	ater Table (A	\ 2)			Aquatic Fa	auna (B13)		Dra	ainage Patterns (B10)
✓ Saturati						atic Plants			Dr	y-Season Water Table (C2)
Water N	Marks (B1)			H	Hydrogen	Sulfide O	dor (C1)		Cra	ayfish Burrows (C8)
Sedime	nt Deposits	(B2)		(Oxidized F	Rhizosphe	res on Liv	ing Roots	s (C3) <u>√</u> Sa	turation Visible on Aerial Imagery (C9)
Drift De	posits (B3)			F	Presence	of Reduce	ed Iron (C4	!)	<u>√</u> Stu	unted or Stressed Plants (D1)
Algal M	at or Crust (B4)		F	Recent Iro	n Reducti	on in Tille	d Soils (C	C6) <u>√</u> Ge	eomorphic Position (D2)
Iron De	posits (B5)			1	Thin Muck	Surface ((C7)		FA	C-Neutral Test (D5)
Inundat	ion Visible o	n Aerial I	magery (B7) (Gauge or	Well Data	(D9)			
Sparsel	ly Vegetated	Concave	Surface (B	8) (Other (Exp	olain in Re	emarks)			
Field Obser	rvations:									
Surface Wa	ter Present?	Υ	es N	lo <u> </u>	Depth (in	ches):		_		
Water Table	Present?	Υ	es <u>√</u> N	lo	Depth (in	ches):	3	_		
Saturation F	Present?	Υ	es <u>√</u> N	lo	Depth (in	ches):	0	We	tland Hydrolog	gy Present? Yes <u>√</u> No
(includes ca	pillary fringe	e)	aauaa mar	itorina	all agricl	nhataa nr	ovious ins	naatiana), if available:	
GE and NAIF				_	eli, aeriai į	priotos, pr	evious iris	pections), ii avaliable.	
	- dona imag	,0. ,, 00,	· completed	•						
Remarks:	nresent hut	annearin	na to be due:	functional	at P10 A	seumad F)2 hasad o	n hydrol	ogy indicators	phserved
THE HELWOIK	prodont, but	appoarii	.g to be dys	.a.iolionai	at 10. P	Journey L	- 2006U (riyaron	ogy maioators (5555. 1 04.

Project/Site: 20241389 Kane Co 107.87-Ac Property	(City/County	nty Sampling Date: <u>2024-11-06</u>	
Applicant/Owner: Surya Powered				State: Illinois Sampling Point: P11
Investigator(s): Eric C Parker, SPWS	{	Section, To	wnship, Rai	nge: sec 19 T042N R007E
Landform (hillslope, terrace, etc.): Rise			Local relief	(concave, convex, none): Convex
Slope (%): 0-2 Lat: 42.105399	ι	_ong: <u>-88.4</u>	57973	Datum: WGS84
Soil Map Unit Name: Drummer silty clay loam, 0 to 2 percent s	lopes			NWI classification: None Depicted
Are climatic / hydrologic conditions on the site typical for this tir	me of vea	ır? Yes	No	√ (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology sign				
Are Vegetation, Soil, or Hydrology natu				eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map sh				
Hydrophytic Vegetation Present? Yes No _				
Hydric Soil Present? Yes No _			e Sampled in a Wetlar	
Wetland Hydrology Present? Yes No _		With	ili a vvetiai	165 NO
Remarks: APT analysis indicates climatic conditions are in the drier than	า normal r	range. Outs	side ag field	in area not cropped for many years, considered NC.
VEGETATION – Use scientific names of plants.				
		Dominant Species?		Dominance Test worksheet:
1. Acer negundo	7	<u>Y</u>		Number of Dominant Species That Are OBL, FACW, or FAC:2 (A)
2. Morus alba	5	<u>Y</u>	FAC	
3				Total Number of Dominant Species Across All Strata: 4 (B)
4				Percent of Dominant Species
5	12.0	= Total Cov		That Are OBL, FACW, or FAC: 50.00 (A/B)
Sapling/Shrub Stratum (Plot size: 15' radius)	12.0	- Total Cov	/ei	Prevalence Index worksheet:
1				Total % Cover of: Multiply by:
2				OBL species $0 \times 1 = 0$
3				FACW species x 2 = 0
4				FAC species 12 x 3 = 36 FACU species 100 x 4 = 400
5		= Total Cov		FACU species 100 x 4 = 400 UPL species 0 x 5 = 0
Herb Stratum (Plot size: 5' radius)		- 10tai C0	/ei	Column Totals: 112 (A) 436.00 (B)
1. Bromus inermis		<u>Y</u>	<u>FACU</u>	
2. <u>Cirsium arvense</u>	_20	<u>Y</u>	<u>FACU</u>	Prevalence Index = B/A = 3.89
3				Hydrophytic Vegetation Indicators:
4				1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
5				3 - Prevalence Index is ≤3.0 ¹
6				4 - Morphological Adaptations¹ (Provide supporting
8				data in Remarks or on a separate sheet)
9.				Problematic Hydrophytic Vegetation ¹ (Explain)
10				
Woody Vine Stratum (Plot size: 30' radius)	<u>100.0</u> =	= Total Cov		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1				Hydrophytic
2				Vegetation Present?
		= Total Cov	/er	
Remarks: (Include photo numbers here or on a separate she	,			
Outside agricultural field in area between field and drainage d	itch.			

Profile Des	cription: (E	Describe	to the dep	th needed	to docu	ment the i	ndicator	or confi	rm the absen	ce of indicators.)
Depth		Matrix				ox Feature	s		_	
(inches)	Color (ı	moist)	%	Color (r	moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-14	_10YR	4/1	_100_						_ SIL_	No redox
14-24	10YR	5/3	50	_10YR	5/6	10	C	M	SICL	Mixed matrix
	10YR	4/1	40						SICL	
-						_				
-						_				-
						_				
						_			_	<u> </u>
						_			_	
¹ Type: C=C			letion, RM=	Reduced I	Matrix, M	S=Masked	Sand Gra	ains.		ocation: PL=Pore Lining, M=Matrix.
Hydric Soil										rs for Problematic Hydric Soils ³ :
Histoso	` '					Gleyed Ma			Coa	st Prairie Redox (A16)
Histic Epipedon (A2) Black Histic (A3) Sandy Redox (S5) Stripped Matrix (S6)									— Dark	Surface (S7)
	en Sulfide (A	\4)				Mucky Mir			Iron-	-Manganese Masses (F12)
	d Layers (À					Gleyed Ma			Very	Shallow Dark Surface (TF12)
	uck (A10)					ed Matrix (Othe	er (Explain in Remarks)
	d Below Da		e (A11)		_	Dark Surfa	` ,		3	
I	ark Surface Mucky Miner	. ,		_	-	ed Dark Su	. ,)		ors of hydrophytic vegetation and and hydrology must be present,
	ucky Peat or		3)	_	Redux	Depressio	115 (F0)			ss disturbed or problematic.
Restrictive										
Type:		•								
Depth (in	nches):								Hydric So	oil Present? Yes No/_
Remarks:										
HYDROLC)GY									
Wetland Hy	drology Inc	licators:								
Primary Indi	cators (mini	mum of o	ne is requir	ed; check	all that a	pply)			Secon	dary Indicators (minimum of two required)
Surface	Water (A1)			V	Vater-Sta	ained Leav	es (B9)		S	urface Soil Cracks (B6)
High W	ater Table (A	A2)		A	Aquatic F	auna (B13)		D	rainage Patterns (B10)
Saturati	on (A3)			T	rue Aqua	atic Plants	(B14)		D	ry-Season Water Table (C2)
Water N	/larks (B1)			H	Hydrogen	Sulfide O	dor (C1)			rayfish Burrows (C8)
Sedime	nt Deposits	(B2)		(Oxidized	Rhizosphe	res on Liv	ing Roots	s (C3) <u>√</u> Sa	aturation Visible on Aerial Imagery (C9)
	posits (B3)					of Reduce	,	,		tunted or Stressed Plants (D1)
	at or Crust (B4)				on Reducti		d Soils (C		eomorphic Position (D2)
l —	posits (B5)					k Surface (,		F/	AC-Neutral Test (D5)
	ion Visible o		0 , (<i>'</i>	•	Well Data	` '			
Field Obser	y Vegetated	Concave	Surface (i	50) (Julei (Ex	plain in Re	marks)	1		
Surface Wa		· V	es I	No /	Donth (in	obos):				
Water Table			es l							
Saturation F			es l						tland Hudrale	ogy Present? Yes No/_
(includes ca	pillary fringe	e)								y riesent: Tes No
			gauge, mo	nitoring we	ell, aerial	photos, pr	evious ins	pections), if available:	
GE and NAIF	P aerial imag	gery								
Remarks:										
No field wetle below P11 e		gy indicat	ors observ	ed, no satu	ıration. D	itch water	vay appro	ximately	20ft to west. V	Vater level in waterway approx 8-9 feet
DOIOWT TT 6	ovanon.									

Project/Site: 20241389 Kane Co 107.87-Ac Property		City/County: Kane County Sampling Date: 20:							
Applicant/Owner: Surya Powered				State: Illinois Sampling Point: P12					
Investigator(s): Eric C Parker, SPWS		Section	, Towns	ownship, Range: _sec 19 T042N R007E					
Landform (hillslope, terrace, etc.): Swale			Loc	al relief (concave, convex, none): Concave				
Slope (%): 3-7 Lat: 42.105462		Long: -	 88.4575	597	Datum: WGS84				
Soil Map Unit Name: Drummer silty clay loam, 0 to 2 perce		_							
Are climatic / hydrologic conditions on the site typical for thi									
Are Vegetation, Soil, or Hydrology									
Are Vegetation, Soil, or Hydrology					eded, explain any answers in Remarks.)				
SUMMARY OF FINDINGS – Attach site map									
Hydrophytic Vegetation Present? Yes N	lo 🗸								
Hydric Soil Present? Yes N				ampled a Wetlan					
Wetland Hydrology Present? Yes N	lo <u>√</u>	'	WILIIIII c	a wellan	ur resNo				
Remarks:									
APT analysis indicates climatic conditions are in the drier t	than normal	range. <i>i</i>	Ag field	planted	in soybeans, now harvested; not NC.				
VEGETATION – Use scientific names of plants									
201 11	Absolute		nant Ind		Dominance Test worksheet:				
<u>Tree Stratum</u> (Plot size: <u>30' radius</u>) 1	% Cover	-		Status_	Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)				
2					Total Number of Dominant				
3					Species Across All Strata: 2 (B)				
4	_				Percent of Dominant Species				
5					That Are OBL, FACW, or FAC: (A/B)				
Sapling/Shrub Stratum (Plot size: 15' radius)	0	= Total	Cover		Prevalence Index worksheet:				
1					Total % Cover of: Multiply by:				
2.					OBL species0 x 1 =0				
3					FACW species0 x 2 =0				
4	_				FAC species0 x 3 =0				
5	_				FACU species6 x 4 =24				
Herb Stratum (Plot size: 5' radius)	0	= Total	Cover		UPL species 0 x 5 = 0				
1. VERONICA ARVENSIS	3	Υ	F	ACU	Column Totals:6 (A)24.00 (B)				
Taraxacum officinale		<u> </u>		ACU	Prevalence Index = B/A = 4.0				
3				1.00	Hydrophytic Vegetation Indicators:				
4.				·	1 - Rapid Test for Hydrophytic Vegetation				
5.					2 - Dominance Test is >50%				
6					3 - Prevalence Index is ≤3.0 ¹				
7					4 - Morphological Adaptations ¹ (Provide supporting				
8	_				data in Remarks or on a separate sheet)				
9					Problematic Hydrophytic Vegetation ¹ (Explain)				
10					1 Indicators of hydric soil and watland hydrology must				
Woody Vine Stratum (Plot size: 30' radius)	6.0	= Total	Cover		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
1					Hydrophytic				
2	_				Vegetation Present? Yes No✓_				
	0	= Total	Cover		riesent: ies NO _v				
Remarks: (Include photo numbers here or on a separate	sheet.)								
Ag field planted in soybeans in 2024 now harvested and c spillage. Adjacent field edge 75 feet to west dominated by									

Profile Des	cription: (D	escribe e	to the dep	th needed	l to docu	ment the	indicator	or confi	irm the	absence	e of indicators.)			
Depth		Matrix				x Feature		. 2	_					
(inches)	Color (r		%	Color (moist)	%	Type'	Loc ²	1	<u>Fexture</u>	Remarks			
0-16	<u>10YR</u>	3/1	<u> 100</u>			_				SIL	No redox.			
16-24	<u>10YR</u>	4/2	95	_10YR	4/4	_ 5	C	M		SCL				
	-										·			
						_		-			· ———			
						_								
¹ Type: C=C	oncentration	n, D=Depl	etion, RM=	Reduced	Matrix, M	S=Maske	d Sand Gra	ains.			ocation: PL=Pore Lining, M=Matrix.			
Hydric Soil	Indicators:								lı	ndicators	s for Problematic Hydric Soils ³ :			
Histoso	` '				Sandy	Gleyed Ma	atrix (S4)		_	Coas	t Prairie Redox (A16)			
	pipedon (A2	()			•	Redox (S5	,		_	Dark	Surface (S7)			
	listic (A3)	. 4)		_		d Matrix (_	Iron-N	Manganese Masses (F12)			
	en Sulfide (A d Layers (A				-	Gleyed M	neral (F1)				Shallow Dark Surface (TF12)			
l .	uck (A10)	J)			-	ed Matrix (_	•	(Explain in Remarks)			
l ——	d Below Dar	k Surface	e (A11)			Dark Surfa			_		(2.4.2)			
I — ·	ark Surface		,		_		urface (F7))	:	³ Indicator	rs of hydrophytic vegetation and			
	Mucky Miner				Redox	Depression	ns (F8)			wetlar	nd hydrology must be present,			
l ——	ucky Peat or	•	,							unles	s disturbed or problematic.			
Restrictive	Layer (if ob	served):												
Type:														
Depth (in	nches):								Hy	ydric Soi	Il Present? Yes No			
Remarks:														
HYDROLC)GY													
Wetland Hy	drology Ind	licators:												
Primary Indi	cators (minir	mum of o	ne is requi	red; check	all that a	oply)				Second	lary Indicators (minimum of two required)			
Surface	Water (A1)			\	Nater-Sta	ined Leav	es (B9)			Su	rface Soil Cracks (B6)			
High Wa	ater Table (A	\ 2)		/	Aquatic F	auna (B13	3)			Dra	ainage Patterns (B10)			
Saturati	on (A3)				True Aqua	atic Plants	(B14)			Dry	y-Season Water Table (C2)			
Water N	/larks (B1)					Sulfide O					ayfish Burrows (C8)			
	nt Deposits	(B2)					eres on Liv	-	ots (C3)		turation Visible on Aerial Imagery (C9)			
Drift De	. ,						ed Iron (C4	,			unted or Stressed Plants (D1)			
ı —	at or Crust (I	B4)					ion in Tille	d Soils ((C6)		omorphic Position (D2)			
Iron De	` ` ′			· · · · · · · · · · · · · · · · · · ·		Surface				FA	C-Neutral Test (D5)			
	ion Visible o		• • •		-	Well Data								
	y Vegetated	Concave	Surface (I	B8) (Other (Ex	plain in Re	emarks)							
Field Obser		.,			5									
Surface Wat			es											
Water Table			es											
Saturation F (includes ca			es	No <u>√</u>	Depth (in	iches):		_ We	etland	Hydrolog	gy Present? Yes No/_			
Describe Re			gauge, mo	nitoring w	ell, aerial	photos, pr	evious ins	pections	s), if ava	ailable:				
GE and NAIF	aerial imag	gery; OSA	complete	d. Signatur	e noted a	and prelim	(offsite) w	etland d	determir	nation, bu	it not as consistent as other signatures.			
Remarks:														
							way off-site	e and ad	djacent	to the we	est. Water level in waterway approx 8-9			
feet below fie	eld elevation	. Tile and	ditch drair	nage netwo	ork presei	nt.								
1														

Project/Site: 20241389 Kane Co 107.87-Ac Property	(City/Count	ty: <u>Kane Cou</u>	nty	Samplin	g Date: 2024-1	1-06			
Applicant/Owner: Surya Powered				State: Illinois	Sampling I	Point: P13				
Investigator(s): Eric C Parker, SPWS	;	Section, T	ownship, Rai	ownship, Range: sec 19 T042N R007E						
Landform (hillslope, terrace, etc.): Rise			Local relief	(concave, convex, none	e): Convex					
Slope (%): 3-7 Lat: 42.102850										
Soil Map Unit Name: Somonauk silt loam, 2 to 5 percent slop		-								
Are climatic / hydrologic conditions on the site typical for this										
Are Vegetation, soil, or Hydrology sig	-						o 🗸			
Are Vegetation, Soil, or Hydrology na				eded, explain any ansv						
SUMMARY OF FINDINGS - Attach site map s							s, etc.			
Hydrophytic Vegetation Present? Yes No										
Hydric Soil Present? Yes No			the Sampled thin a Wetlar							
Wetland Hydrology Present? Yes No		WIL	uiiii a vvetiai	iu! les	NO					
Remarks: APT analysis indicates climatic conditions are in the drier the	an normal	range. Ag	field planted	in soybeans, now harv	/ested; not N	IC.				
VEGETATION – Use scientific names of plants.										
	Absolute	Dominar	nt Indicator	Dominance Test wo	rksheet:					
Tree Stratum (Plot size: 30' radius) 1			? Status	Number of Dominant That Are OBL, FACV		0	(A)			
3				Total Number of Don Species Across All S		0	(B)			
4. 5.				Percent of Dominant That Are OBL, FACV		0.00	(A/B)			
	_	= Total Co	over	Prevalence Index w						
Sapling/Shrub Stratum (Plot size: 15' radius) 1				Total % Cover of		Multiply by:				
2.				OBL species			_			
3.				FACW species						
4.				FAC species			_			
5				FACU species	2 x	4 =8	_			
5 1 0	0	= Total Co	over	UPL species	0 x	5 =0	_			
Herb Stratum (Plot size: 5' radius)	4	N.I	FACIL	Column Totals:	(A)	8.00	(B)			
VERONICA ARVENSIS Taraxacum officinale		N	_ <u>FACU</u> FACU	Prevalence Ind	ex = R/A =	4.0				
3				Hydrophytic Veget						
4.				1 - Rapid Test fo						
5				2 - Dominance T	est is >50%					
6.				3 - Prevalence In	ndex is ≤3.0 ¹	I				
7.				4 - Morphologica	al Adaptation	ns¹ (Provide sup	porting			
8						separate sheet)				
9				Problematic Hyd	aropnytic ve	getation (Expi	ain)			
10				¹ Indicators of hydric	soil and wet	land hydrology	muet			
Woody Vine Stratum (Plot size: 30' radius)		= Total Co		be present, unless d						
1				Hydrophytic						
2				Vegetation Present?	Yes	No <u>√</u>				
Demoder (Indialization		= Total Co	over							
Remarks: (Include photo numbers here or on a separate sl	•				_					
Ag field planted in soybeans in 2024 now harvested and chi spillage. Adjacent field edge 25 feet to south dominated by I					ean germina	ation from seed				

Profile Des	cription: (De	scribe t	o the depth	needed to	docun	nent the	indicator	or confirr	n the absence	e of indicators.)
Depth		latrix				C Feature			_	
(inches)	Color (mo		<u></u> %	Color (mo	ist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-12	_10YR	<u>4/3 </u>	_100						L	No redox
12-24	_10YR	5/4	80						SIL	Mixed matrix
	10YR	4/2	20						SIL	
										-
										· -
	oncentration,	D=Deple	etion, RM=F	Reduced Ma	trix, MS	=Maske	d Sand Gra	ains.		ocation: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:								Indicators	s for Problematic Hydric Soils ³ :
Histosol	` '			s	Sandy G	leyed M	atrix (S4)		Coas	t Prairie Redox (A16)
Histic E		-	edox (S	•		— Dark	Surface (S7)			
_	listic (A3) en Sulfide (A4)					Matrix (S6) ineral (F1)		Iron-N	Manganese Masses (F12)
	d Layers (A5)	,			-	-	latrix (F2)			Shallow Dark Surface (TF12)
	uck (A10)				-	d Matrix			-	(Explain in Remarks)
_	d Below Dark	Surface	(A11)		•		ace (F6)			(
	ark Surface (A		(,				urface (F7)		³ Indicator	rs of hydrophytic vegetation and
Sandy N	Mucky Mineral	(S1)			•		ons (F8)			nd hydrology must be present,
I —	ucky Peat or P)						unles	s disturbed or problematic.
Restrictive	Layer (if obse	erved):								
Type:										
Depth (in	nches):								Hydric Soi	il Present? Yes No <u>√</u>
Remarks:									· ·	
HYDROLO	GY									
	drology Indic	ators:								
	cators (minimu		e is require	d check all	that an	olv)			Second	dary Indicators (minimum of two required
	Water (A1)	<u> </u>	io io roquiro				ves (B9)			rface Soil Cracks (B6)
l —	ater Table (A2	`				una (B1	` ,		_	ainage Patterns (B10)
Saturati		,				tic Plants				y-Season Water Table (C2)
Water N	, ,			·			Odor (C1)			ayfish Burrows (C8)
	nt Deposits (B	2)		•	-		eres on Liv	ina Poots		turation Visible on Aerial Imagery (C9)
		2)					ed Iron (C4	-		
Drift De	posits (ธร) at or Crust (B4	1)					tion in Tille	,		unted or Stressed Plants (D1) comorphic Position (D2)
Iron De	•	•)				Surface		2 30115 (Ct		C-Neutral Test (D5)
l —	ion Visible on A	Aprial In	nageny (R7)			Vell Data			'^	o-Neutral Test (D3)
	v Vegetated C		• • • •		-		emarks)			
Field Obser	, 	oncave	ounace (De		ei (Exp	iaiii iii ix	emarks)			
Surface Wat		Vo	se N	o <u>√</u> De	nth (inc	shoe):				
						,				
Water Table				o <u>√</u> De						/
Saturation P	resent? pillary fringe)	Ye	sN	o <u>√</u> De	pth (inc	:hes):		_ Weti	land Hydrolog	gy Present? Yes No✓
	corded Data (stream	gauge, mon	itoring well,	aerial p	hotos, p	revious ins	pections),	if available:	
										at determined not to be due to wetness.
Remarks:										
	and hydrology	indicato	ors observed	d, no saturat	ion. Dit	ch water	way off-site	e and adia	cent to the so	uth. Water level in waterway approx 8-9
	eld elevation.					3.31	, sin			Jepick o

Project/Site: 20241389 Kane Co 107.87-Ac Property		City/Co	ounty:	Kane Cou	ınty	Samplin	ng Date: <u>20</u>)24-11-	06
Applicant/Owner: Surya Powered					State: Illinois	_ Sampling	Point: P14	4	
Investigator(s): Eric C Parker, SPWS		Section	n, Tov	vnship, Ra	nge: <u>sec 19 T042N R</u>	.007E			
Landform (hillslope, terrace, etc.): Rise			L	ocal relief	(concave, convex, nor	ne): <u>Convex</u>			
Slope (%): 3-7 Lat: 42.106016		Long: _	-88.45	3593		Datum:	WGS84		
Soil Map Unit Name: Drummer silty clay loam, 0 to 2 perce	nt slopes	_			NWI class	sification: No	one Depict	ed	
Are climatic / hydrologic conditions on the site typical for thi	s time of yea	ar? Ye	es	No	✓ (If no, explain i	in Remarks.))		
Are Vegetation, Soil, or Hydrologys	-							No	/
Are Vegetation, Soil, or Hydrologyı					eded, explain any ans			_	
SUMMARY OF FINDINGS – Attach site map					•		,	atures	s, etc.
Hydrophytia Vagatatian Procent2	lo /			<u> </u>	<u>-</u>				
Hydrophytic Vegetation Present? Yes N Hydric Soil Present? Yes N				Sampled			,		
Wetland Hydrology Present? Yes N			withi	n a Wetlar	nd? Yes _	No	·		
Remarks:									
APT analysis indicates climatic conditions are in the drier t	han normal	range.	Ag fie	eld planted	in soybeans, now har	vested; not I	NC.		
VEGETATION – Use scientific names of plants									
	Absolute	Domi	nant	Indicator	Dominance Test w	orksheet:			
Tree Stratum (Plot size: 30' radius)	% Cover				Number of Dominar		0		
1					That Are OBL, FAC	W, or FAC:	0		(A)
2					Total Number of Do		1		(D)
3					Species Across All S	Strata:			(B)
5.					Percent of Dominan That Are OBL, FAC	t Species	0.00	o .	(A/B)
		= Tota	I Cov	er			0.00	<u> </u>	(A/D)
Sapling/Shrub Stratum (Plot size: 15' radius)					Prevalence Index v				
1					Total % Cover of			_	-
2					OBL species				-
3					FACW species FAC species				-
4					FACU species				-
5		= Tota	L Cov		UPL species			0	-
Herb Stratum (Plot size: 5' radius)		_ 10ta		O1	Column Totals:			0.00	- (B)
1. Cirsium arvense	10	Y		FACU			,		- (/
2					Prevalence Inc				_
3					Hydrophytic Vege				
4					1 - Rapid Test f		_	ion	
5					2 - Dominance				
6					3 - Prevalence I				
7					4 - Morphologio	ai Adaptation arks or on a			orting
8					Problematic Hy	ydrophytic Ve	egetation ¹	(Explain	n)
9								` .	,
10	10.0	= Tota	I Cov	er	¹ Indicators of hydric				nust
Woody Vine Stratum (Plot size: 30' radius)			001	.	be present, unless	disturbed or	problemati	ic.	
1					Hydrophytic				
2					Vegetation	.,		,	
	0	= Tota	ıl Cov	er	Present?	Yes	_ No <u>_</u>	<u>′</u>	
Remarks: (Include photo numbers here or on a separate				-	ı				
Ag field planted in soybeans in 2024 now harvested and cl						ermination fro	om seed sp	pillage.	

Profile Des	cription: (D	Describe	to the dep	th needed	l to docu	ment the	indicator	or confi	rm the absen	ce of indicators.)				
Depth		Matrix				x Feature			_					
(inches)	Color (ı	-	<u></u> %	Color (moist)	%	Type'	Loc ²	<u>Texture</u>	Remarks				
0-18	_10YR	4/2	<u> 100</u>						_ <u> </u>	No redox				
18-24	_10YR	5/2	50	_10YR	5/6	20	C	M	SCL_	Mixed matrix				
	10YR	4/2	30						SCL					
				-		_		-	_					
							· ——							
														
¹ Type: C=C			letion, RM=	=Reduced	Matrix, M	S=Masked	d Sand Gra	ains.		Location: PL=Pore Lining, M=Matrix.				
Hydric Soil					0	01	-t-:- (O.1)			ors for Problematic Hydric Soils ³ :				
Histoso	` '	·\				Gleyed Ma				ast Prairie Redox (A16)				
Histic Epipedon (A2)Black Histic (A3)Stripped Matrix (S6)									— Dar	k Surface (S7)				
	en Sulfide (A	\ 4)		_		Mucky Mi				-Manganese Masses (F12)				
Stratifie	d Layers (A	5)			_ Loamy	Gleyed Ma	atrix (F2)			y Shallow Dark Surface (TF12)				
l ——	uck (A10)					ed Matrix (,		Oth	er (Explain in Remarks)				
	d Below Dai		e (A11)		_	Dark Surfa	. ,		31					
_	ark Surface Mucky Miner	,			_	Depressio	ırface (F7) ns (F8)			ors of hydrophytic vegetation and and and hydrology must be present,				
	ucky Peat or		3)		_ 11000%	D 0p. 000.0	(1 0)			ess disturbed or problematic.				
Restrictive										·				
Type:														
Depth (in	iches):								Hydric S	oil Present? Yes No/				
Remarks:														
HYDROLC	GY													
Wetland Hy	drology Inc	licators:												
Primary Indi	cators (mini	mum of o	ne is requi	red; check	all that ap	oply)			Seco	ndary Indicators (minimum of two required)				
Surface	Water (A1)			\	Water-Sta	ined Leav	es (B9)		8	Surface Soil Cracks (B6)				
High Wa	ater Table (A	A 2)		/	Aquatic Fa	auna (B13)		Drainage Patterns (B10)					
Saturati	, ,			·		atic Plants	• •			Ory-Season Water Table (C2)				
Water N						Sulfide O				Crayfish Burrows (C8)				
	nt Deposits	(B2)					res on Livi	-	• • •	Saturation Visible on Aerial Imagery (C9)				
Drift De		D4)					ed Iron (C4	,		Stunted or Stressed Plants (D1)				
Iron De	at or Crust (D4)				Surface (on in Tilled	J Solis (C		Geomorphic Position (D2) FAC-Neutral Test (D5)				
l —	ion Visible o	n Aerial I	magery (R			Well Data			'	AC-Neutral Test (D3)				
	y Vegetated		• • •		_	plain in Re								
Field Obser	, ,				(
Surface Wat		Y	es	No ✓	Depth (in	ches):								
Water Table	Present?		es											
Saturation F	resent?		es						tland Hydrol	ogy Present? Yes No/_				
(includes ca		e)												
), if available:	but determined not to be due to wetness.				
	aenai imag	gery, OSA	Complete	u. Signatui	e noteu a	ina preiim	(Olisite) we	eliano de	eterriiriation,	but determined not to be due to wetness.				
Remarks:	and budgets	4 ـ المصالح ـ 4	oro obses	ad na ast	rotion Di	itab wata -	way off alt-	. ond!	lacant ta tha	wouth Mater level in weter very array 2.2				
feet below fie							vay on-site	anu a0j	jaceni io ine s	south. Water level in waterway approx 8-9				
				-	•									

Project/Site: 20241389 Kane Co 107.87-Ac Property	c	City/County: Kane County Sampling Date: 20						
Applicant/Owner: Surya Powered					State: Illinois S	Sampling Po	oint: <u>P15</u>	
Investigator(s): Eric C Parker, SPWS		Section	, Tow	nship, Rar	nge: sec 19 T042N R007	7E		
Landform (hillslope, terrace, etc.): Swale			L	ocal relief (concave, convex, none):	: Concave		
Slope (%): <u>0-2</u> Lat: <u>42.106697</u>	L	_ong: <u>-</u> -	88.45	2913		Datum: W	GS84	
Soil Map Unit Name: Drummer silty clay loam, 0 to 2 percent slo					NWI classific	cation: None	e Depicted	
Are climatic / hydrologic conditions on the site typical for this tim	ne of yea	ır? Yes	S	No	✓ (If no, explain in R	Remarks.)		
Are Vegetation, soil, or Hydrology signif	ficantly d	disturbe	ed?	Are "	Normal Circumstances" p	present? Y	es No	o <u>/</u>
Are Vegetation, Soil, or Hydrology natur					eded, explain any answe			
SUMMARY OF FINDINGS - Attach site map sho				g point lo	ocations, transects	s, importa	ant feature	s, etc.
Hydrophytic Vegetation Present? Yes No								
Hydric Soil Present? Yes No				Sampled			,	
Wetland Hydrology Present? Yes No		'	withi	n a Wetlan	d? Yes	No_		
Remarks:								
APT analysis indicates climatic conditions are in the drier than	normal r	range. <i>i</i>	Ag fie	eld planted	in soybeans, now harves	sted; not NC).	
VEGETATION – Use scientific names of plants.								
				Indicator	Dominance Test work	sheet:		
Tree Stratum (Plot size: 30' radius) % 1				Status	Number of Dominant S That Are OBL, FACW,		0	(A)
2					Total Number of Domir Species Across All Stra		0	(B)
4					Percent of Dominant S That Are OBL, FACW,		0.00	(A/B)
—	0_=	= Total	Cove	er			•	(,,,,
Sapling/Shrub Stratum (Plot size: 15' radius)					Prevalence Index wor		Multiply by	
1					Total % Cover of: OBL species 0			
2					FACW species			_
3					FAC species C			_
4					FACU species1			
	0 =	= Total	Cove	er	UPL species C			
Herb Stratum (Plot size: 5' radius)		. 0.0			Column Totals:1		4.00	(B)
	1	N		<u>FACU</u>			1.0	
2					Prevalence Index			_
3					Hydrophytic Vegetat 1 - Rapid Test for I			
4					2 - Dominance Tes		vegetation	
5					3 - Prevalence Inde			
6					4 - Morphological		1 (Provide sun	nortina
7					data in Remark	s or on a se	parate sheet)	porting
9.					Problematic Hydro	ophytic Vege	etation¹ (Expla	ain)
10.								
	1.0 =	= Total	Cove	er	¹ Indicators of hydric so be present, unless dist			must
1					Hydrophytic			
2					Vegetation		,	
	0 =	= Total	Cove	er	Present? Ye	es	No <u>√</u>	
Remarks: (Include photo numbers here or on a separate shee					<u> </u>			
Ag field planted in soybeans in 2024 now harvested and chisel spillage. Adjacent field edge 100 feet to southwest dominated by						ın germinati	on from seed	

Profile Des	cription: (D	escribe	to the dep	th needed	l to docu	ment the	indicator	or confi	irm the a	bsence	e of indicators.)			
Depth		Matrix			Redo	x Feature	s		_	_				
(inches)	Color (r		%	Color (moist)	%	Type'	Loc ²	<u>Te</u> x	xture	Remarks			
0-18	_10YR_	3/1	<u> 100</u>			_			_ <u>_</u>	<u>SIL</u>	No redox			
18-24	_10YR	3/1	95	_10YR	3/3	5	C	M	_ SI	CL				
				_					_					
						_			_					
	oncentration	n, D=Depl	etion, RM=	=Reduced	Matrix, M	S=Maske	d Sand Gra	ains.			cation: PL=Pore Lining, M=Matrix.			
Hydric Soil	Indicators:										s for Problematic Hydric Soils ³ :			
Histosol	` '			_		Gleyed Ma			_	Coast	Prairie Redox (A16)			
	pipedon (A2 istic (A3))			•	Redox (S	,		_	Dark 9	Surface (S7)			
_	en Sulfide (A	4)		_		d Matrix (3 Mucky Mi	neral (F1)			Iron-N	Manganese Masses (F12)			
	d Layers (A5				-	Gleyed M				Very S	Shallow Dark Surface (TF12)			
	uck (A10)				-	ed Matrix (_	Other	(Explain in Remarks)			
I	d Below Dar		e (A11)		_	Dark Surfa	` ,							
I	ark Surface	. ,		_			urface (F7)		³In		s of hydrophytic vegetation and			
	Mucky Miner ucky Peat or			_	_ Redox	Depression	ns (F8)				nd hydrology must be present, s disturbed or problematic.			
Restrictive	•	•	"							unics	s disturbed of problematic.			
Type:	_ayo: (o.	,												
1	iches):								Hvd	ric Soi	I Present? Yes No ✓			
Remarks:									1.1,4		ee			
HYDROLO	GY													
Wetland Hy	drology Ind	licators:												
Primary Indi			ne is requi	red; check	all that a	oply)				Second	ary Indicators (minimum of two required)			
Surface	Water (A1)			\	Nater-Sta	ined Leav	es (B9)		_	Sur	face Soil Cracks (B6)			
High Wa	ater Table (A	\ 2)		/	Aquatic Fa	auna (B13	3)		_	Dra	ninage Patterns (B10)			
Saturati	on (A3)				True Aqua	atic Plants	(B14)		_	Dry	y-Season Water Table (C2)			
Water N	/larks (B1)			۱	Hydrogen	Sulfide O	dor (C1)		_	Cra	ayfish Burrows (C8)			
Sedime	nt Deposits	(B2)					eres on Livi	-	ts (C3) _	✓ Sat	turation Visible on Aerial Imagery (C9)			
Drift De	. , ,			· · · · · · · · · · · · · · · · · · ·			ed Iron (C4	,			nted or Stressed Plants (D1)			
ı —	at or Crust (I	B4)		· · · · · · · · · · · · · · · · · · ·			ion in Tilled	d Soils (_		omorphic Position (D2)			
Iron De	` '					Surface			-	FA	C-Neutral Test (D5)			
	ion Visible o				•	Well Data	` '							
	y Vegetated	Concave	- Ѕипасе (38) (Jtner (Ex	plain in Re	emarks)							
Field Obser		V		No /	Donth (in	abaa).								
Surface Wat				No/										
Water Table				No/					-41		w. Brazanta Vas Na /			
	pillary fringe)		No							gy Present? Yes No _√_			
Describe Re GE and NAIF											t not as consistent as other signatures.			
Remarks:														
No field wetla 8-9 feet belo								and ad	djacent to	the sou	uthwest. Water level in waterway approx			
3 3 1001 5010	11010 01040	on. The	and ditori	a. a.i iage II	ctifolik pli	200m, no								

WETLAND DELINEATION REPORT



Surya Powered LLC Big Timber & Reinking Roads Site Project #: 20241389 December 13, 2024

Appendix D | Site Photographs

Solutions for people, projects, and ecological resources.



Photo #1 Sample point P1



Photo #3 Sample point P1



Photo #5 Sample point P2



Photo #2 Sample point P1



Photo #4 Sample point P1



Photo #6 Sample point P2



Photo #7 Sample point P2

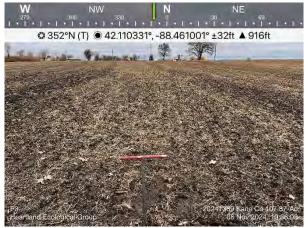


Photo #9 Sample point P3



Photo #11 Sample point P3

Photo #8 Sample point P2



Photo #10 Sample point P3

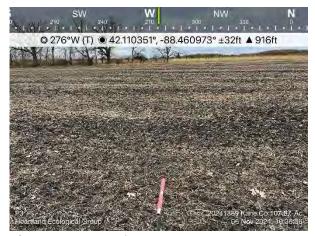


Photo #12 Sample point P3



Photo #13 Sample point P4



Photo #15 Sample point P4



Photo #17 Sample point P5



Photo #14 Sample point P4

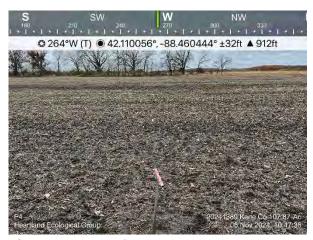


Photo #16 Sample point P4



Photo #18 Sample point P5



Photo #19 Sample point P5



Photo #21 Sample point P6



Photo #23 Sample point P6



Photo #20 Sample point P5



Photo #22 Sample point P6

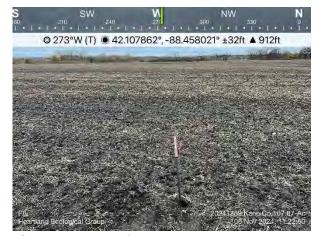


Photo #24 Sample point P6

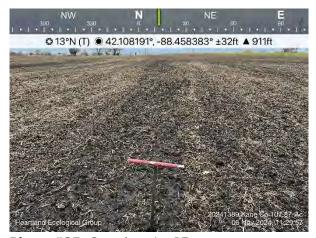


Photo #25 Sample point P7



Photo #27 Sample point P7



Photo #29 Sample point P8



Photo #26 Sample point P7



Photo #28 Sample point P7



Photo #30 Sample point P8



Photo #31 Sample point P8



Photo #33 Sample point P9



Photo #35 Sample point P9



Photo #32 Sample point P8



Photo #34 Sample point P9



Photo #36 Sample point P9



Photo #37 Sample point P10



Photo #39 Sample point P10



Photo #41 Sample point P11



Photo #38 Sample point P10



Photo #40 Sample point P10



Photo #42 Sample point P11



Photo #43 Sample point P11



Photo #45 Sample point P12



Photo #47 Sample point P12



Photo #44 Sample point P11



Photo #46 Sample point P12



Photo #48 Sample point P12



Photo #49 Sample point P13



Photo #51 Sample point P13



Photo #53 Sample point P14



Photo #50 Sample point P13



Photo #52 Sample point P13



Photo #54 Sample point P14



Photo #55 Sample point P14



Photo #57 Sample point P15



Photo #59 Sample point P15



Photo #56 Sample point P14



Photo #58 Sample point P15



Photo #60 Sample point P15



Photo #61 Growing season evidence: Elymus and Cirsium still green



Photo #63 Growing season evidence: Daucus and Elymus repens still green



Photo #62 Growing season evidence: Urtica and Bromus still green

WETLAND DELINEATION REPORT



Surya Powered LLC Big Timber & Reinking Roads Site Project #: 20241389

December 13, 2024

Appendix E | Delineator Qualifications

Solutions for people, projects, and ecological resources.



Eric C. Parker, SPWS

Principal Scientist 506 Springdale Street Mount Horeb, WI 53572 eric@heartlandecological.com (414) 380-0269



Mr. Parker is a Senior Professional Wetland Scientist and Professionally Assured Wetland Delineator in Wisconsin with 35 years of experience assisting public and private clientele. He has completed wetland projects in other states including IL, IN, OH, MI, ND, MO, PA, TX, MD, VA, and NC. His work has supported thousands of institutional, commercial, utility, residential, industrial & transportation projects. Mr. Parker's natural resource specialties include botanical surveys, wetland science, restoration and mitigation, and environmental corridor mapping. He has a widespread understanding of the scientific, technical, and regulatory aspects of natural resources projects. His interests also include floristic quality assessment (FQA) and wetness categorization of plant species.

Mr. Parker's experience includes the following: Botanical / Biological Surveys and Natural Resource Inventories; Rare Species Surveys, Conservation Plans and Monitoring; Wetland Determination, Delineation and Functional Assessment; Wetland Exemptions; Environmental Corridor Determinations/Mapping; Wetland Restoration, Mitigation, Banking and Monitoring; Habitat Restoration, Wildlife Surveys, SCAT surveys, Environmental Assessments; Local, state, federal permit applications; Expert Witness testimony; and Regulatory permit compliance.

Education

BS, Watershed Management, Soils Minor University of WI - Stevens Point, 1983

Wetland Ecosystems (including delineation & assessment), USEPA Graduate School Washington DC, 1988

Field Oriented Wetland Delineation Course (1987 Corps Manual) Wetlands Training Institute (WTI) St. Paul, MN, 1994

Basic Wetland Delineation Training Wisconsin Dept. of Administration Waukesha, WI, 1997

Vegetation Description, UWM Cedarburg Bog Field Station, Saukville, WI, 1998

Advanced Wetland Delineation, U. of WI - La Crosse, Bayfield County, WI, 2001

Critical Methods in Wetland Delineation, University of WI - La Crosse Continuing Education and Extension, Madison, WI, 2006, 2008, 2010, 2014, 2016-2020 Mosses ID & Ecology, UWM Cedarburg Bog Field Station, Saukville, WI, 1998

Sedges ID & Ecology, UWM Cedarburg Bog Field Station, Saukville, WI, 2002, 2006, 2010

Grasses ID & Ecology, UWM Cedarburg Bog Field Station, Saukville, WI, 1998

Registrations

Senior Professional Wetland Scientist #838, (SPWS), Society of Wetland Scientists Professional Certification Program, 1995-current

Certified Wetland Scientist #C-058, (CWS), Stormwater Management Commission Lake County, IL, 2002-current

Qualified Wetland Review Specialist #W-057, (QWRS), Kane County, IL, 2006-current



Project Experience

Wetland Delineation & Regulatory Support

2022 Wetland Delineations, Exemption Submittals, and Permitting (104 sites)

Capitol Dr Property, Waukesha Co., WI (Jan); Puetz Rd Property, Milwaukee Co., WI (Jan); Glas Driveway Wetlands and GP, Kenosha Co., (Mar); 19555 W Lincoln Ave GP, Waukesha Co., WI (Mar); Northern Oaks Subd GP-AWER, Waukesha Co., WI (Mar); Workman Properties, Waukesha Co., WI (Apr); 5732 W Rawson Av, Milwaukee Co., WI (Apr); 2705 West Rd, Racine Co., WI (Apr); CTH CW Site, Dodge Co., WI (Apr); 4-Mile Rd Property, Racine Co., WI (Apr); Kurtze Ln Property, Waukesha Co., WI (Apr); 128th St Parcel, Kenosha Co., WI (Apr); Thomas Property Wetlands-PEC-Navigability, Waukesha Co., WI (Apr); Ament Property, Racine Co., WI (Apr); W3970 South Shore Dr, Walworth Co., WI (Apr); N2280 Temperance Tr, Walworth Co., WI (Apr); S Clark St Parcel, Dodge Co., WI (Apr); Deer Haven GC, Waukesha Co., WI (May); Petrie Rd 7.5 Ac Parcel, Walworth Co., WI (Apr); 5.5Ac Parcel Mukwonago, Waukesha Co., WI (Apr); S107 W16311 Loomis Rd Parcel, Waukesha Co., WI (Apr); CTH A & USH 12 Property, Walworth Co., WI (Apr); Cape Crossing NFE, Milwaukee Co., WI (Apr); Teipner Parcel, Waukesha Co., WI (Apr); Lichner Parcel, Waukesha Co., WI (Apr); Biocut Systems Site AWER, Waukesha Co., WI (Apr); Spring St Parcels, Racine Co., WI (May); US41 Corridor, Waukesha Co., WI (Apr); Reddelien Rd Parcel, Waukesha Co., WI (May); Watertown Rd Property, Waukesha Co., WI (May); 10027 Camelot Dr, Racine Co., WI (May); Koller Property, Ozaukee Co., WI (May); Altschaefl Property, Waukesha Co., WI (May); Pipito Property Pond, Dodge Co., WI (May); Kenora Rd Parcels, Waukesha Co., WI (May); Moorland & Greenfield Wetlands-AWER, Waukesha County, WI (May); Alliant Edgewater GS, Sheboygan Co., WI (May); Arbet North Parcel, Kenosha Co., WI (May); Pleasant Prairie Police Station, Kenosha Co., WI (May); 3rd Ave Pleasant Prairie Site, Kenosha Co., WI (May); 10766 N Torrey Dr Property, Ozaukee Co., WI (Jun); Kolnick Parcel, Kenosha Co., WI (Jun); Gateway Dr Watertown, Jefferson Co., WI (Jun); Green Bay Gardens Site, Kenosha Co., WI (Jun); DuCharme Property Wetlands-PEC, Waukesha Co., WI (Jun); 2301 Lakeshore Dr. GP-Tree Survey, Ozaukee Co., WI (Jun); 641 Drexel Wetlands-GP, Milwaukee Co., WI (Jun); Quigley Farm, Washington Co., WI (Jun); Big Bend Business Park, Waukesha Co., WI (Jun); Lad Lake Property, Waukesha Co., WI (Jun); Pleasant Prairie PP Utility Corridor, Kenosha Co., WI (Jul); Pleasant Prairie Fire Station 3, Kenosha Co., WI (Jul); CTH H Parcels, Walworth Co., WI (Jul); Oakwood Rd Parcels, Milwaukee Co., WI (Jul); Big Bend Rd Property, Waukesha Co., WI (Jul); Heartland Communities, Racine Co., WI (Jul); Leo Living Bristol Wetlands-PEC, Kenosha Co., WI (Jul); Stream Conservation Union Grove, Racine Co., WI (Jul); 8979 S 42nd St Franklin, Milwaukee Co., WI (Jul); 2205 Silvernail Rd, Waukesha Co., WI (Jul); East Wolf Run Mukwonago, Waukesha Co., WI (Jul); 1302 Roundtable Dr, Racine Co., WI (Jul); Corporation Parcel Dover, Racine Co., WI (Jul); 11925 W Lake Park Dr, Milwaukee Co., WI (Jul); 17905 W Capitol Dr Parcel, Waukesha Co., WI (Jul); Mosconi West Property, Kenosha Co., WI (Jul); Promise Builders Site, Kenosha Co., WI (Jul); Highland Dr Menomonee Falls Botanical Survey, Waukesha Co., WI (Aug); METRO RDF Expansion, Milwaukee Co., WI (Aug); 5.53 Ac Mukwonago Site, Waukesha Co., WI (Aug); Northstar Beloit Site, Rock Co., WI (Aug); Wirth Farm PEC-AWER-Tree Survey, Ozaukee Co., WI (Aug); Olympia Fields Wetlands-AWER, Waukesha Co., WI (Aug); Maple Rd Softball Field, Washington Co., WI (Aug); Blise Property Pond, Washington Co., WI (Aug); St. Johns NW Military Academy Wetlands-PEC, Waukesha Co., WI (Aug); Wildwood Property Wetlands-Navigability, Walworth Co., WI (Aug); Goldendale Rd Property, Washington Co., WI (Aug); 6951 S Lovers Lane, Milwaukee Co., WI (Aug); Klumb Property Wetlands-Corridor, Waukesha Co., WI (Aug); Ulao Creek Residential, Ozaukee Co., WI (Sep); Grand Hills Castle Expansion GP, Waukesha Co., WI (Sep); 31110 82nd St Property, Kenosha Co., WI (Sept); Miller Property Wetlands-SEC, Waukesha Co., WI (Sep); Townline Rd Water Main Wetlands-GP, Waukesha Co., WI (Sep); Sanctuary at Good Hope East PEC, Waukesha Co., WI (Oct); Kutzler Express Property, Kenosha Co., WI (Oct); 47th Ave Property, Kenosha Co., WI (Oct); Steinbrink Property, Kenosha Co., WI (Oct); Caledonia Developments, Racine Co., WI (Oct); DeGrave Farm, Racine Co., WI (Oct); Nettesheim Farm Pewaukee, Waukesha Co., WI (Oct); Fisher-Barton Property, Waukesha Co., WI (Oct); BRP shipyard Sturtevant, Racine Co., WI (Oct); CTH C Site Sheboygan Falls, Sheboygan Co., WI (Oct); Willabay Meadows Residential, Walworth Co., WI (Oct); Thode Dr Property, Waukesha Co., WI (Oct); Middle Rd Property Wetlands-AWER, Racine Co., WI (Oct); Three Pillars Dousman Ph1A, Waukesha Co., WI (Oct); Primrose School Site Brookfield, Waukesha Co., WI (Oct); Grand Geneva Housing Site, Walworth Co., WI (Nov); 2651 Fuller Rd Site, Rock Co., WI (Nov); Willis Ray Rd Property, Walworth Co., WI (Nov); Harding Dr Menomonee Falls Site, Waukesha Co., WI (Nov).

2021 Wetland Delineations, Exemption Submittals, and Permitting (95 sites)

CTH CW Property Exemption, Jefferson Co., WI (Jan); BP Parcel Determination, Kenosha Co., WI (Mar); Narula Property, Kenosha Co., WI (Apr); So Wi Veterans Mem Cemetery, Racine Co., WI (Apr); N. 70th St. Site, Milwaukee Co., WI (Apr); 6th & Grange Site, Milwaukee Co., WI (Apr); North Lake Dr Site, Racine Co.,



WI (Apr); E. Lakeshore Dr Property, Kenosha Co., WI (Apr); Deaton Parcel Exemption, Kenosha Co., WI (Apr); Alliant Energy Solar Site, Sheboygan Co., WI (Apr); Breg-3 Site Exemptions, Milwaukee Co., WI (Feb); Bristol Highlands, Kenosha Co., WI (Apr); Sandalwood Lot 20, Oconto Co., WI (Apr); Martin Rd Parcels, Waukesha Co., WI (Apr); Fair Meadow Subd Exemption, Walworth Co., WI (Apr); Will Rose Haven GP, Waukesha Co., WI (Apr); Bristol Property Wetlands & Exemption, Kenosha Co., WI (Apr); 11900 N Port Washington Rd, Ozaukee Co., WI (Apr); Gibbs Parcel, Kenosha Co., WI (May); Schaefer Farm, Racine Co., WI (May); Lisbon 12-Ac Parcel, Waukesha Co., WI (May); Coach Hills Exemptions, Racine Co., WI (May); Ventimiqlia Property, Oconto Co., WI (May); Case HS Property, Racine Co., WI (May); Warntjes North-South Parcels, Kenosha Co., WI (May/Jul); CSM 3325 Dover, Racine Co., WI (May); STH 175 Parcel, Washington Co., WI (May); Holy Hill Rd Property, Washington Co., WI (May); Lyons Parcel Determination, Walworth Co., WI (May); CSM 3591 Mequon, Ozaukee Co., WI (May); Parcel 293-0965 Pleasant Prairie, Kenosha County, WI (May); Denoon Country Estates Muskego, Waukesha Co., WI (May); Blaze Landscaping Lisbon Parcel Wetlands-Exemption, Waukesha Co., WI (Jun); Hughes Parcel wetlands-Woodlands-PEC, Racine Co., WI (Jun); Logan Parcel, Washington Co., WI (May); CTH LL Property, Ozaukee Co., WI (Jun); Steenburg Farm Oakridge, Fond du Lac Co., WI (Jun); Steenburg Farm Dallman, Fond du Lac Co., WI (Jun); UW Parkside Utility Renovations, Kenosha County, WI (May); Salem Lakes Parcel 70412, Kenosha County, WI (Jun); Russet Ct Muskego Site, Waukesha Co., WI (Jun); Kazmierczak Property, Washington Co., WI (Jun); Parcel 152-0100 Pleasant Prairie, Kenosha Co., WI (Jun); 59-Acre Parcel Lisbon Property, Waukesha Co., WI (Jun); 98th St Parcel Randall, Kenosha Co., WI (Jun); Ryan Rd 80-Ac Site, Milwaukee Co., WI (Jul); Hickory Hill West Wetland-PEC Lisbon, Waukesha Co. WI (Jun); Cranberry Creek Landvill, Wood Co., WI (Jul); Christina Estates Outlot 1 Exemption, Racine Co., WI (Jul); LG House of Music Property, Walworth Co., WI (Jul); STH 158-I94 Property, Kenosha Co., WI (Aug); 3-Mile Rd Property, Racine Co., WI (Jul); Price Parcel Ottawa, Waukesha Co., WI (Jul); Lot 1 Lilac Rd Rubicon, Dodge Co., WI (Aug); 633 Progress Dr Determination, Ozaukee Co., WI (Jul); I41 & STH60 Property Slinger, Washington Co., WI (Aug); Summit Parcel 0708985 Determination, Waukesha Co., WI (Aug); Timberline Trail Landfill Wetlands and Exemption, Rusk Co., WI (Aug); Seasons at Mt Pleasant Sewer, Racine Co., WI (Aug); Kenny Dr Lots 1-2, Washington Co., WI (Aug); Bliffert Lumber Germantown, Washington Co., WI (Aug); Gibson Parcels Eagle Site, Waukesha Co., WI (Aug); Clover Run Stables, Racine Co., WI (Sep); Pink Property Salem Lakes GP, Kenosha Co., WI (Sep); Albano Property Carol Beach, Kenosha Co., WI (Sep); Mosconi Parcel Somers, Kenosha Co., WI (Sep); Petrie Rd Property Geneva, Walworth Co., WI (Sep); NML Property Oak Creek, Milwaukee Co., WI (Sep); Carol Beach Estates, Kenosha Co., WI (Sep); Mt. Pleasant Business Ctr Site, Racine Co., WI (Sep); Pleasant Prairie Power Plant, Kenosha Co., WI (Sep); STH 31 Property, Racine Co., WI (Sep); 112th St Expansion Parcel, Milwaukee Co., WI (Oct); Glacier Ridge Landfill EC Site, Dodge Co., WI (Sep); City-View Subdivision Horicon, Dodge Co., WI (Sep); Rock Rd Co Beloit, Rock Co., WI (Oct); Glass Parcels Richfield, Washington Co., WI (Oct); Alliant Clinton Substation, Rock Co., WI (Oct); Triggs Property Delafield, Waukesha Co., WI (Oct); Singh Parcel Franklin, Milwaukee Co., WI (Oct); Hilmer Property Muskego, Waukesha Co., WI (Oct); Baseler Property Muskego, Waukesha Co., WI (Oct); ALDI Property Oak Creek, Milwaukee Co., WI (Oct); Plank Rd Property Burlington, Racine Co., WI (Oct); Jackson Marsh Restoration Site, Washington Co., WI (Oct); Pilgrim Rd Parcel Brookfield, Waukesha Co., WI (Oct); Henneberry Parcel Muskego, Waukesha Co., WI (Oct); Ewig Parcel Franklin, Milwaukee Co., WI (Oct); STH 120 Site L Geneva, Walworth Co., WI (Oct); KMHS Wales, Waukesha Co., WI (Oct); 184th Ave Bristol Property, Kenosha Co., WI (Oct); 144th Ave Bristol Property, Kenosha Co., Pabst Rd Oconomowoc Site, Waukesha County, WI (Oct); N Lake Shore Dr Mequon, Ozaukee Co., WI (Nov); 28414 Wilmot Rd Salem Lakes, Kenosha Co., WI (Nov); 819 E Drexel Site, Milwaukee Co., WI (Nov).

2020 Wetland Delineations, Exemption Submittals, and Permitting (90 sites)

Courtney Street Storage Buildings, Racine Co., WI (Feb); 86th Ave & STH 165 Parcel, Kenosha Co., WI (Feb-Apr); Harris Gravel Pit, Dane Co., WI (Mar-Apr); Alliant Birnamwood Substation, Shawano Co., WI (Apr); Rolling Meadows Drive Parcel, Fond du Lac Co., WI (Apr); Lieds Nursery Site, Waukesha Co., WI (Apr); Plas-Tech Engineering Site, Walworth Co., WI (Apr); Fink Parcel, Racine Co., WI (Apr); Lot 1 Proposed CSM 3258, Racine Co., WI (Apr); Harris Gravel Pit, Dane Co., WI (May); Schumacher Rd Reconstruction, Dane Co., WI (Apr); Whitetail Ridge Ph2, Kenosha Co., WI (Apr), Kelly Pit Addition, Dane Co., WI (Apr); Myrtle Way Road Improvements, Rock Co., WI (Apr); Pewaukee Industrial Park South, Waukesha Co., WI (May); Mueller Property, Fond du Lac Co., WI (Apr); 3901 Kipp Street Site, Dane Co., WI (Apr); Witte Parcels, Dane Co., WI (Apr); Sandalwood Lots 7-8, Oconto Co., WI (Apr); Yellowstone Outdoor Resort, Lafayette Co., WI (Apr); S&L Underground Expansion, Columbia Co., WI (May); 200 Baraboo Street, Sauk Co., WI (May); Jefferson Pit, Jefferson Co., WI (May); Rock Point Village, Waukesha Co., WI (May); Blanchardville Coop Oil & NGSD Parcels, Green Co., WI (May); Logtown Development, Sauk Co., WI (Jun); Maple Ave Property, Waukesha Co., WI (May); Wanasek Property, Racine Co., WI (May); Meier Farms, Dane Co., WI (Jun); 76th & Ryan Site, Sauk Co., WI (May); Milton Townline Road Site, Rock County, WI (May); Somers Multi-family Site, Kenosha



Co., WI (May); Cazenovia WWTP Expansion, Waukesha Co., WI (Jun); Waukegan Property, Lake Co., IL (Jun); Ozaukee Christian School, Washington Co., WI (Jun); Kohler Distribution Center, Sheboygan Co., WI (Jun); Veterans Memorial Park West Site, Kenosha County, WI (Jun); Veterans Memorial Park East Site, Kenosha County, WI (Oct); Bristol Commons Site, Kenosha Co., WI (Jun); Barels Property, Racine Co., WI (Jun); Rogich Property, Milwaukee Co., WI (Jun); CTH MM Intersection Reconstruction, Dane Co., WI (Jul); Rose Property, Racine Co., WI (Jun); Baldev Court Property, Ozaukee Co., WI (Jul); Paul-Meghan Dominie Property, Dane Co., WI (Jul); Union Court Site, Kenosha Co., WI (Jul); Webcrafters Parcels, Dane Co., WI (Jul); Site Security Upgrades Site, Waukesha Co., WI (Jul); Scuppernong Creek Site, Waukesha Co., WI (Jul); W9030 Oak Ridge Road Property, Jackson Co., WI (Jul); Cherokee Golf Course, Dane Co., WI (Aug); W3948 South Shore Drive, Walworth Co., WI (Aug); Caledonia Multifamily Site, Racine Co., WI (Aug), Mittelstaedt Property, Sauk Co., WI (Aug); 1525 Bryce Drive Parcel, Winnebago Co., WI (Sep); Platten Property, Outagamie Co., WI (Sep); St. Mary's Springs Site, Fond du Lac Co., WI (Sep); Fairway Village Site, Ozaukee Co., WI (Sep); Quarry Park Site, Waukesha Co., WI (Sep); CTH F-Concord Site, Jefferson Co., WI (Sep); HJ Williams Farm, Adams Co., WI (Oct); STH 16-Lisbon Rd Parcel, Waukesha Co., WI (Sep); Golden Lake Road Property, Waukesha Co., WI (Sep); 4522 CTH P Parcel, Washington Co., WI (Sep); Darby Farms, Kenosha Co., WI (Sep); 227 Sussex Street, Waukesha Co., WI (Sep); Lexus of Brookfield Site, Milwaukee Co., WI (Sep); Wesner Greenfield Ave Parcels, Waukesha Co., WI (Sep); Oriole Lane Parcels, Ozaukee Co., WI (Oct); Wayside Parkview Estates, Brown Co., WI (Sep); Wind Point Parcel, Racine Co., WI (Oct); Geneva National Lot 18-23, Walworth Co., WI (Oct); Badger Farm, Racine Co., WI (Oct); Dorset Corners Substation, Monroe Co., WI (Sep); Covered Bridge Rd Site, Ozaukee Co., WI (Oct); Trek Distribution Center, Jefferson Co., WI (Oct); Craftsman Drive Parcel, Waukesha Co., WI (Oct); Village Green Subdivision, Ozaukee Co., WI (Oct); Ansay Farm, Ozaukee Co., WI (Oct); Zenner Farm Property, Racine Co., WI (Oct); West Snell Rd Site, Winnebago Co., WI (Oct); Kenosha County Bridges, Kenosha Co., WI (Oct); Confidential Site Janesville, Rock Co., WI (Oct); Janesville Airport Site, Rock Co., WI (Oct); 10920 West Liberty Drive, Milwaukee Co., WI (Oct); V of River Hills 53-Acre Site, Milwaukee Co., WI (Oct); Hwy 14 & Lacy Rd Site, Dane Co., WI (Oct); Wilderness Way Parcel, Waukesha County, WI (Oct); Hummingbird Lane Parcel, Sheboygan Co., WI (Oct); Plainview Rd Site, Waukesha Co., WI (Nov); Delimat Property, Kenosha Co., WI (Nov); 11900 N Port Washington Rd Parcel, Ozaukee Co., WI (Nov); Canopy Hills Artificial Wetland, Racine Co., WI (Dec); Strauss Brands Facility, Milwaukee County, WI (Dec).

2019 Wetland Delineations, Exemption Submittals, and Permitting (39 sites)

North Hills Subdivision, Waukesha Co., WI (Jan); Prairie Walk Subdivision, Waukesha Co., WI (Apr); Loomis Parcel Determination, WI (Mar-Apr); Lamminem Parcel, Kenosha Co., WI (Apr); Lot 103 Burlington, Racine Co., WI (Apr); 7220 Ryan Rd Parcel, Milwaukee Co., WI (Apr); 1-Acre Franklin Parcel, Milwaukee Co., WI (June); 256th Ave Site, Kenosha Co., WI (May); 915 Main St Mukwonago, Waukesha Co., WI (May); Muskego Lakes CC, Muskego, Waukesha Co., WI (June), Bonniwell Road Parcel, Ozaukee Co., WI (July); 333 Portland Rd Site, City of Waterloo, Jefferson Co., WI (May); Thompson Lane Parcel, Village of Chenequa, Waukesha Co., WI (May); Schmitz Redi-Mix Site, Village of Mt. Pleasant, Racine Co., WI (June); New Berlin Redi-Mix Site, City of New Berlin, Waukesha Co., WI (May); Elm Grove Road Basin, City of New Berlin, Waukesha Co., WI (May); Lathrop-Meacham Parcels Mitigation Site, Village of Mt. Pleasant, Racine Co., WI (May-July); Lot 18-31 Geneva National Site, Town of Geneva, Walworth Co., WI (July); Bohner's Lake Parcel, Town of Burlington, Racine Co., WI (Sept); 6970 South 6th St., City of Oak Creek, Milwaukee Co., WI (Aug); Weatherstone Meadows site, City of New Berlin, Waukesha Co., WI (Aug); Parkview Apartments site, Village of Somers, Kenosha Co., WI (Aug); Volkswagen Expansion site, Village of Pleasant Prairie, Kenosha Co., WI (Aug); Pewaukee-Brookfield Trail, Waukesha Co., WI (Aug-Sept); Parcel 1268-993, City of New Berlin, Waukesha Co., WI (Aug); Germantown Industrial Business Park, Washington Co., WI (Oct); Haasch- Finger site, City of Brookfield, Waukesha Co., WI (Oct); Kennedy Property, Village of Waunakee, Dane Co., WI (Oct); Jefferson County Interurban Trail, Towns of Watertown and Ixonia, Jefferson Co., WI (Oct); Mukwonago Residential Parcel, Village of Mukwonago, Waukesha Co., WI (Oct); Pine Ridge Estates, City of Oconomowoc, Waukesha Co., WI (Oct); Silver Lake Parcels, Village of Salem Lakes, Kenosha Co., WI (Oct); New Berlin Trail Phase II, City of Waukesha, Waukesha Co., WI (Oct); 1910 W Puetz Road site, City of Oak Creek, Milwaukee County, WI (Oct); Project Redline, Village of Menomonee Falls, WI (Oct); CSM 3232 Oulot 1, Village of Mt. Pleasant, Racine Co., WI (Oct); Plant Community Mapping and Assessment, City of Oak Creek, Milwaukee Co., WI (Nov); Faber Property, Village of Williams Bay, Walworth Co., WI (Nov); Campus Drive Property, Village of Hartland, Waukesha Co., WI (Dec).

Example 2018 Wetland Delineations in WI and IL (50 sites)

Homestead Acres, Racine Co., WI (Apr); Greenmeadows, Racine Co., WI (Apr), Wind Point School, Racine Co., WI (Apr); Vintage Parc East, Kenosha Co., WI (Apr); Nelson-Heckel, Kenosha Co., WI (Apr); Caledonia Storage, Racine Co., WI (Apr); New Berlin Storage, Waukesha Co., WI (Mar); Manke Gravel Pit, Columbia



Co., WI (May); Drissel-Wallace, Kenosha Co., WI (May); LaBelle Golf Course, Waukesha Co., WI (May); Waterloo Aluminum, Jefferson Co., WI (May); Salem Business Park, Kenosha Co., WI (May); Audubon Arboretum, Racine Co., WI (May); Briarwood, Racine Co., WI (May); Basting-Brown Parcels, Waukesha Co., WI (May); 84-Acre Site, Racine Co., WI (May); Jolenta Lane, Waukesha Co., WI (Apr); Rock Road Storage, Walworth Co., WI (May); Wildwood Creek, Winnebago Co., WI (Jun); Green Bay Site, Brown Co., WI (Jun); Main Street Market, Kenosha Co., WI (Jul), Armstrong Eddy Park, Rock Co., WI (May), Hickory St Site, Ozaukee Co., WI (Jun), Parcel DW 800004, Walworth Co. (Jun); Lot 8 Parcel WCA-0003, Walworth Co., WI (Jun); RRR Grundy, Kane Co., IL (Jul); Coleman Norris Parcel, Waukesha Co., WI (Jul); Deaton Parcel, Kenosha Co., WI (Aug); Hintz Parcel, Washington Co., WI (Aug); Loomis-Ryan Rds Site, Milwaukee Co., WI (Aug); Grass Parcels, Waukesha Co., WI (Sep); Mallard Ridge Landfill Pipeline, Walworth Co., WI (Sep); Glacier Ridge Landfill Pipeline, Dodge Co., WI (Sep); Ravenwoods, Waukesha Co., WI (Aug); Canopy Hills, Racine Co., WI (Sep); Duck Pond, Kenosha Co., WI (Sep); Splinter Parcels, Racine Co., WI (Oct); Berget Parcel, Walworth Co., WI (Sep); Saylesville Rd Parcel, Waukesha Co., WI (Oct); Racine Ave-Lawnsdale Rd Parcel, Waukesha Co., WI (Oct); Braun Rd-90th St Parcel, Racine Co., WI (Oct); Grafton Parcels, Ozaukee Co., WI (Dec); Crawford Parcel, Racine Co., WI (Nov); Kotas Parcels, Racine Co., WI (Nov); Altamount Acres South, Racine Co., WI (Dec); Christina Estates, Racine Co., WI (Dec); Christina Estates NE, Racine Co., WI (Dec); Lathrop Parcel, Racine Co., WI (Dec); Hillside Ridge, Waukesha Co., WI (Dec); Stolz Property, Waukesha Co., WI (Dec).

Example 2017 Wetland Delineations in WI, MI, IN, and IL (31 Sites)

Back 40 Mine, Menominee Co., MI (Jan); Oakdale Rd Site, Waukesha Co., WI (Sep), Birds Eye Foods, Walworth Co., WI (Sep); Boss Property, Leelanau Co., MI (Jul); Brighton Estates, Waukesha Co., WI (Sep); Saltzman North, Waukesha Co., WI (Sep); Susnar Parcel, Waukesha Co., WI (Sep); Wrenwood Site, Washington Co., WI; Chorneyko Site, Walworth Co., WI (Apr); CN Railroad Bridges-6 Sites, Fond du Lac & Winnebago Co's, WI; CN Railroad Freeport Culvert, Kane Co., IL (May); Herrling Site, Dane Co., WI (Sep); MMSD Sewerage Project, Milwaukee Co., WI (May); Spring St Site, Racine Co., WI (Oct); Goshen Midway Cell Tower, Elkhart Co., IN (Apr); Two Creeks Utility Site, Manitowoc Co., WI (Nov); Suncast Site, Kane Co., IL (Dec); Lot 51 Lakeview Corp Park, Kenosha Co., WI (Oct); Lakefront Gun Range, Racine Co., WI (Oct); WI Club Golf Course, Milwaukee Co., WI (Apr); WisDOT Improvements, STH 32 Racine Co (Aug), STH 67 Walworth Co. (Sep), STH 20, Racine Co. (Oct), 27th St, Milwaukee Co. (Sep); Conference Point Boat Launch, Walworth Co., WI (Oct); Lake View RR Corridor, Portage Co., WI (Sep).

Example 2016 Wetland Delineations in WI, OH, MI and IL (Mostly Large Projects)

AEP Wavery-Adams-Seaman 138 kV Trans. Line Rebuild, Adams & Pike Co's, OH (Dec); Kansas West-Faraday Trans. Line Rebuild-Macon, Moultrie, & Coles Co's, IL (Jan), Riveredge Nature Center Preliminary, Ozaukee Co., WI (Feb); Lost Creek Mitigation Site, Portage Co., WI (Jun); I-41 Burleigh to Good Hope Corridor WisDOT, Milwaukee Co., WI (Jul); STH 60 Corridor, Ozaukee & Washington Co's, WI (Aug-Oct); Erin Hills Golf Course, Washington Co., WI (Sep); Back 40 Mine, Menominee Co., MI; Lake Zurich SW Cell Tower, Lake Co., IL (Oct); Acme Steel Coke Site, Cook Co., IL (Dec).

Example 2015 Wetland Delineations in WI, IL, and MO (Mostly Large Projects)

Bolser Street MO33211-M Cell Tower Site, Grundy Co., MO (Sep); Section 9 Site, Dane Co., WI (Apr); Franzel Rd Site, Bayfield Co., WI (Apr); Big Eau Pleine Mitigation Site, Marathon Co., WI (Aug); Taylor Road Siding Track, Jackson Co., WI (Nov); UPS-CACH Site, Cook Co., IL (Jun); Eggers Woods Forest Preserve, Cook Co., IL (Mar).

Example 2014 Wetland Delineations in WI, IL, and MI (Mostly Large Projects)

Emerald Park Western Expansion, Waukesha Co., WI (Oct); Arcadia Mining Site-Trempealeau Co., WI (Apr); Kalamazoo River Parcel, Kalamazoo and Calhoun Co's, MI (Jul); G2 Mitigation Site - Winnebago Co., WI (May); Line 6A MP 378.94, McHenry Co., IL (Sep); Geneva National Site, Walworth Co., WI (Nov); Nortrax Site -Lincoln Co., WI (Oct); Toberman Parcel- Crawford Co., WI (Oct).

Example 2013 Wetland Delineations in WI, IL, OH, and MI (Mostly Large Projects)

West Central Lateral - Eau Claire, Clark, Jackson & Monroe Co's, WI (Apr-May); Walker Cranberry 80- acre Parcel - Jackson Co., WI (Sept - Oct); Berne to Natrium Pipeline, Monroe Co., OH (Oct); CNX Noble Pipeline - Noble Co., OH (Oct); Deer Grove Forest Preserve, Cook Co., IL (Nov).

Example 2012 Wetland Delineations in WI, IL, IN, and TX (Mostly Large Projects)

West Central Lateral (190 miles), Eau Claire, Clark, Jackson & Monroe Co's, WI (Sep-Nov); Morrison Creek



Cranberry Parcel, Jackson Co., WI (Aug); London Mitigation Site, Jefferson Co., WI (July); Southern Access Pipeline, Sawyer & Washburn Co's, WI (Jun); I-80 Interchange, LaPorte Co., IN (Mar); Eagle-Ford Shale Plays, LaSalle & McMullen Co's, TX (Jan-Feb).

I-94 Corridor Wetland and Primary Environmental Corridor Mapping and Endangered Species Study, Milwaukee, Racine, and Kenosha Counties, WI (Project Manager and Lead Scientist)

Primary Environmental Corridor Delineation Parkview Site, Village of Somers, WI (Lead Scientist)

Elm Road Generating Station, Oak Creek & Caledonia, WI (Project Manager & Lead Scientist)

Tri-State Tollway, Deerfield Plaza Wetland and Endangered Species Investigation, Lake and Cook Counties, IL (Lead Scientist)

Guardian II Laterals, Fox Valley, Hartford and West Bend, WI (Project Manager and Lead Scientist)

ATC Paris to St. Martins (KK3025) 138KV Line Rebuild, Kenosha, Racine and Milwaukee Counties, WI (Project Manager and Lead Scientist)

WETLAND DELINEATION REPORT



Surya Powered LLC Big Timber & Reinking Roads Site Project #: 20241389

December 13, 2024

Appendix F | Off-Site Analysis

Solutions for people, projects, and ecological resources.



2021-07-24

2021-09-05

2023-08-16

Google Earth™

ΝΔΙΡ

Normal Climate Condition

TABLE A1

Wetland Hydrology from Aerial Imagery - Recording Form*

Summary Table

Image Interpretation(s)

Project Name: Kane Co Route 107.87 Ac Site Date: 10/15/2024 County: Kane

Investigator: Eric C. Parker, SPWS Legal Description (T, R, S): T42N, R7E, Sections 18-19-20

Climate Condition Date Image See Offsite Analysis Reference Image figure for outlines of Areas 1-6 Image Source Taken* (wet, drv, normal) Area: 1 Area: 2 Area 3 Area 4 Area 6 2004-08-06 ΝΔΙΡ Normal CS DO CS DO CS NV NSS SS SS Google Earth™ Normal SS-NV NSS NV NSS NV NSS NV NSS SS 2005-03-31 2005-08-06 NV NSS NV NSS NV NSS NV NSS NAIP Dry NV NSS NV NSS 2006-06-02 Google Farth™ Normal NV NSS NV NSS NV NSS NV NSS NV NSS NV NSS 2006-07-01 NV NSS NV NSS NV NSS NV NSS NV NSS NV NSS 2007-06-06 NV NSS NV NSS NV NSS NV NSS SS-NV NSS Google Earth™ Normal 2007-07-07 NAIP NV NSS NV NSS NV NSS NV NSS NV NSS SS Dry 2007-10-10 Google Earth™ Normal NV NSS NV NSS NV NSS NV NSS NV NSS NV NSS 2008-05-03 Google Earth™ SS-SS-SS-SS-SS-SS-2009-06-27 Google Earth™ Wet CS-DO CS-CS-CS SS -DO 2009-08-02 Normal CS DO CS-SS-SS CS 2010-06-23 Google Earth™ NV NSS SS CS CS-CS-CS SSws 2010-07-01 NV NSS SS CS CS-SS. WS 2011-08-26 NV NSS CS-NV NSS NV NSS CS-NV NSS 2011-09-14 Google Earth™ CS-NV NSS NV NSS NV NSS NV NSS CS Wet NV NSS 2012-06-19 NAIP Dry NV NSS NV NSS NV NSS NV NSS NV NSS 2014-06-13 Normal NV NSS NV NSS NV NSS NV NSS NV NSS NV NSS 2015-05-12 SS-SS SS DO Google Earth™ NV NSS NV NSS NV NSS Normal 2015-09-16 ΝΔΙΡ CS-CS-CS-CS-SS CS NV NSS 2017-04-06 SS Google Earth™ 2017-09-01 CS-DO CS CS CS DO Normal CS 2018-07-06 Google Earth™ Wet SS SS SW SS SS SS SS 2019-09-14 SS sw ss sw ss sw SS SS WS Normal 2020-06-07 Google Earth™ SW SS Wet SW SS SW SS SW SS SW SS SW SS 2021-05-28 SS-SS SS SS Google Earth™ SS SS

Key										
WS - Wetland Signature	WS - Wetland Signature		CS - Crop Stress							
NC - Not Cropped		AP - Altered Pattern	NV - Normal Vegetative Cover							
DO - Drowned Out		SW - Standing Water	NSS - No Soil Wetness Signature							
Other labels or comments:	April 6, 2017 aeri	•	signatures in all 6 areas-potentially meaning these areas are effectively drained, or							

NV NSS

CS-

NV NSS

Area 2

17

10

59%

NV NSS

CS-

NV NSS

Area 3

17

47%

NV NSS

CS-

NV NSS

Area 4

17

8

47%

NV NSS

NV NSS

CS-

Area 5

17

53%

NV NSS

SS

NV NSS

Area 6

17

10

59%

NV NSS

CS-

NV NSS

Area 1

17

41%

Normal

Number with wet signatures

Percent with wet signatures

Number

Inages that were taken after the 20th of their respective month were evaluated under the following month's table to account for otherwise missing precitation data from the start of the month to the date the image was recorded.

[•] Use above key to label image interpretations. It is imperative that the reviewer read and understand the guidance associated with the use of these labels. If alternate labels are used, indicate in box above.

[•] If less than five (5) images taken during normal climate conditions are available, use an equal number of images taken during wet and dry climate conditions and use as many images as you have available. Describe the results using this methodology in your report.

^{*}Source: http://www.bwsr.state.mn.us/wetlands/delineation/Guidance for Offsite Hydrology and Wetland Determinations.pdf



Wetland Determination from Aerial Imagery - Recording Form*

Project Name:	Kane Co Route 107.87 Ac Site	Date:	10/15/2024	- County: I	(ane
Investigator	Eric C. Parker, SPWS	16	egal Description (T. R. S):	12N. R7E. Sections 18-19-20	

Use the decision matrix below to create Table A2

Hydric Soils Present? ¹	Identified on NWI or WWI? ²	Percent with Wet Signatures from TABLE A1	Field Verification Required? ³	Wetland?
Yes	Yes	>50%	No	Yes
Yes	Yes	30-50%	No	Yes
Yes	Yes	<30%	Yes	Yes, if other hydrology indicators are present
Yes	No	>50%	No	Yes
Yes	No	30-50%	Yes	Yes, if other hydrology indicators are present
Yes	No	<30%	No	No
No	Yes	>50%	No	Yes
No	Yes	30-50%	No	Yes
No	Yes	<30%	No	No
No	No	>50%	Yes	Yes, if other hydrology indicators are present
No	No	30-50%	Yes	Yes, if other hydrology indicators are present
No	No	<30%	No	No

¹The presence of hydric soils can be determined from the "Hydric Rating by Map Unit Feature" under "Land Classifications" from the Web Soil Survey. "Not Hydric" is the only category considered to not have hydric soils. Field sampling for the presence/absence of hydric soil indicators can be used in lieu of the hydric rating if appropriately documented by providing completed field data sheets.

TABLE A2

Area	Hydric Soils Present? ¹	Identified on NWI or WWI?	Percent with Wet Signatures from TABLE A1	Other Hydrology Indicators Present? ¹	Wetland?
1	Yes	No	41%	Need Field Check	Yes(?)
2	Yes	No	59%	N/A	Yes
3	No	No	47%	Need Field Check	Yes(?)
4	Yes	No	47%	Need Field Check	Yes(?)
5	Yes	No	53%	N/A	Yes
6	Yes	No	59%	N/A	Yes

 $^{^{\}rm 1}$ Answer "N/A" if field verification is not required and was not conducted.

http://www.bwsr.state.mn.us/wetlands/delineation/Guidance for Offsite Hydrology and Wetland Determinations.pdf



² At minimum, the most updated NWI data available for the area must be reviewed for this step. Any and all other local or regional wetland maps that are publically available should be reviewed.

³ Area should be reviewed in the field for the presence/absence of wetland hydrology indicators per the applicable 87 Manual Regional Supplement, including the D2 indicator (geomorphic position).























US 20 contributors,72 IL 47 CC-BY-SA

Study Area (108.64 ac)

Heartland ECOLOGICAL GROUP INC

Appendix: 2017-09-01 NAIP Aerial Imagery Kane County 107.87-Acre Site Project #20241389 T42N, R7E, S18, S19, S20 Town of Rutland, Kane Co, IL

Figure Created: 10/16/2024





US 20 contributors,⁷⁴
IL 47
IL 72
CC-BY-SA

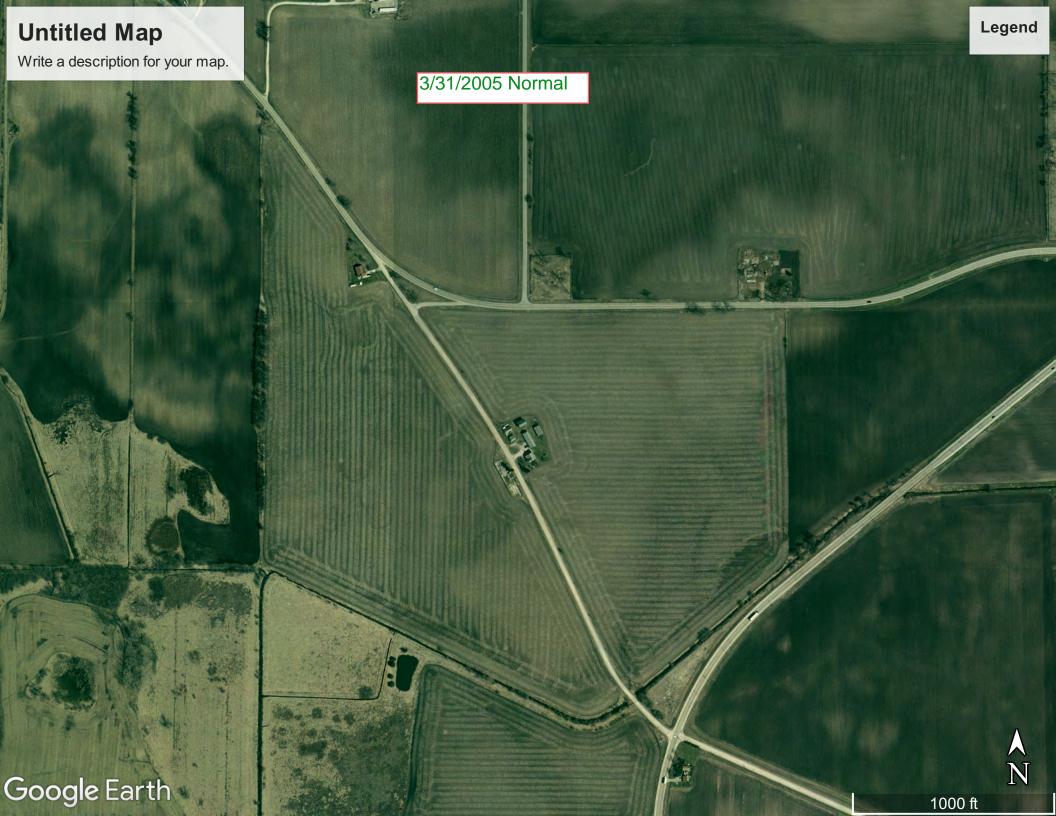
Study Area (108.64 ac)

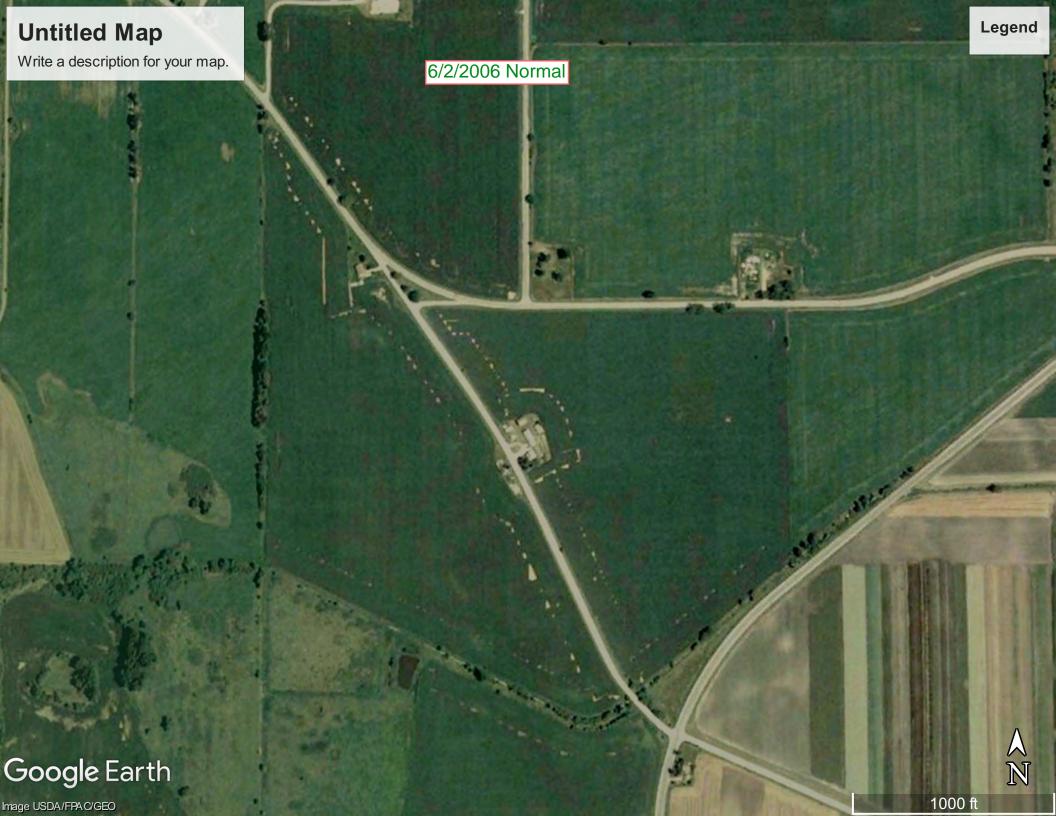
Heartland ECOLOGICAL GROUP INC

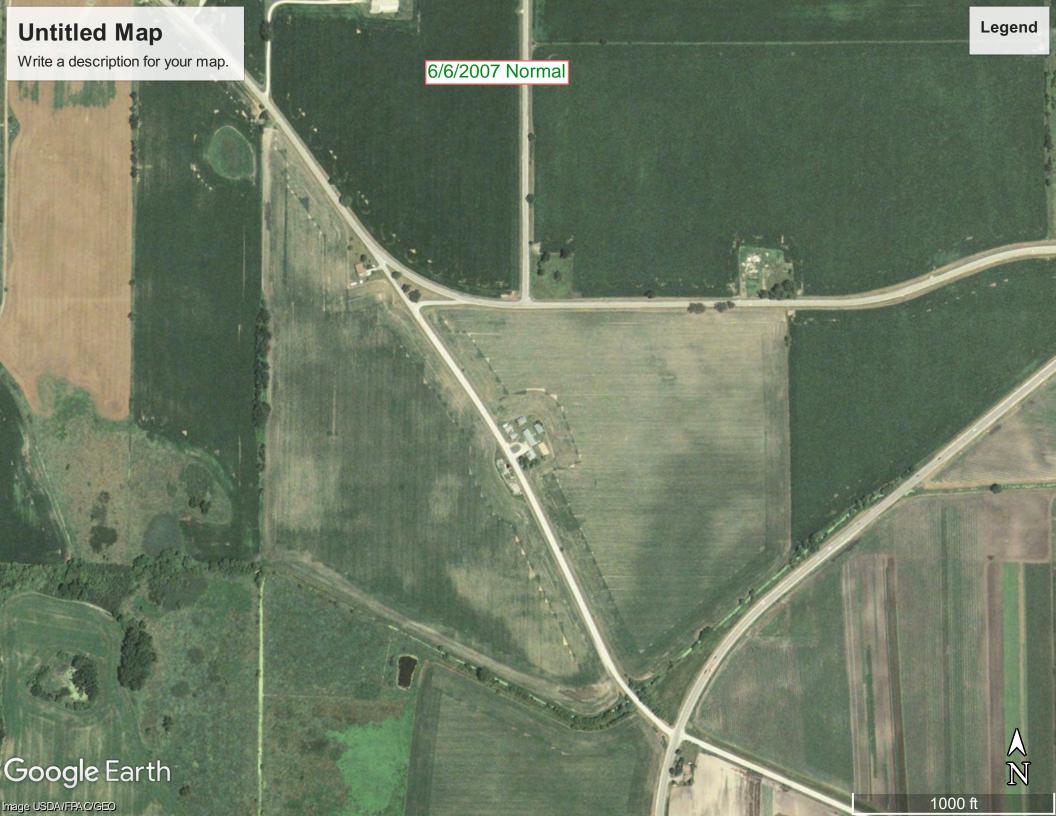
Appendix: 2021-09-05 NAIP Aerial Imagery Kane County 107.87-Acre Site Project #20241389 T42N, R7E, S18, S19, S20 Town of Rutland, Kane Co, IL

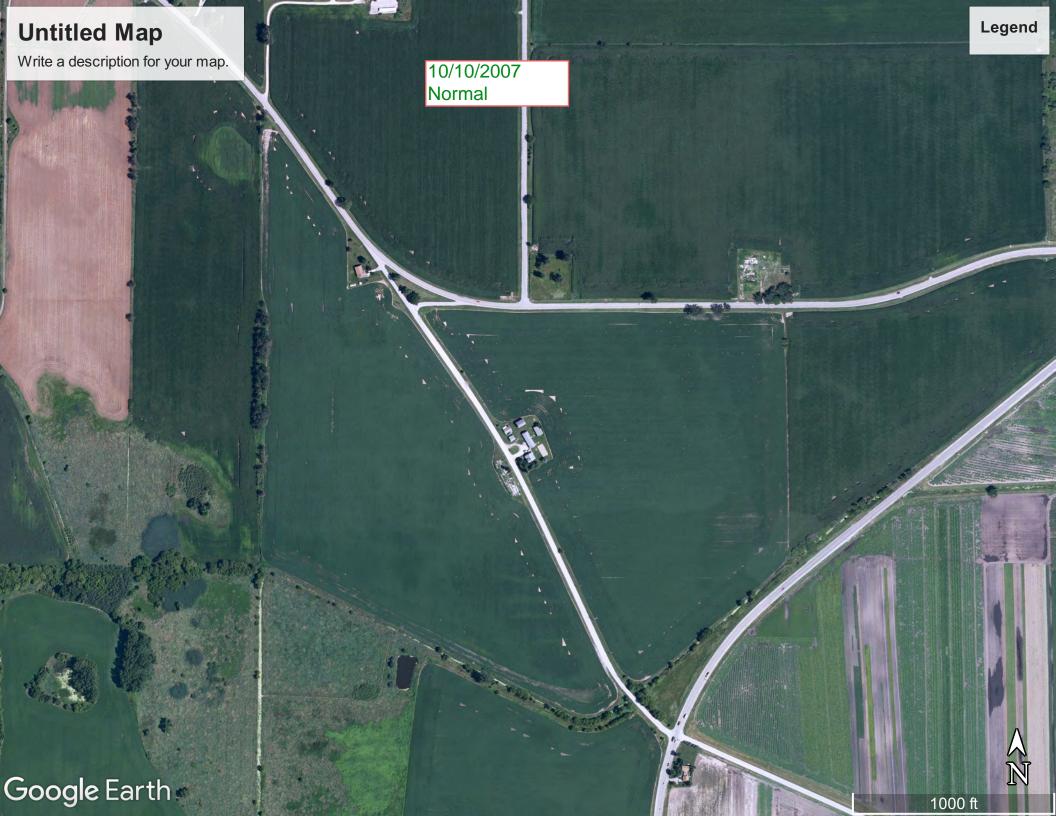
Figure Created: 10/16/2024

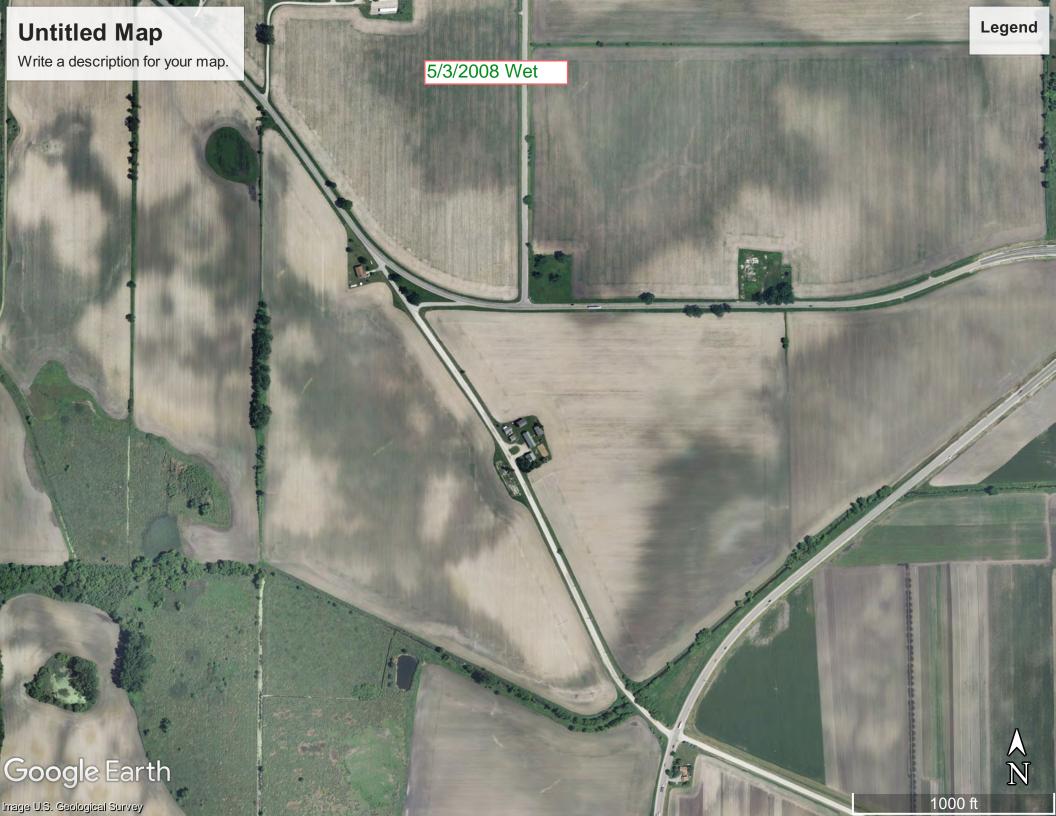


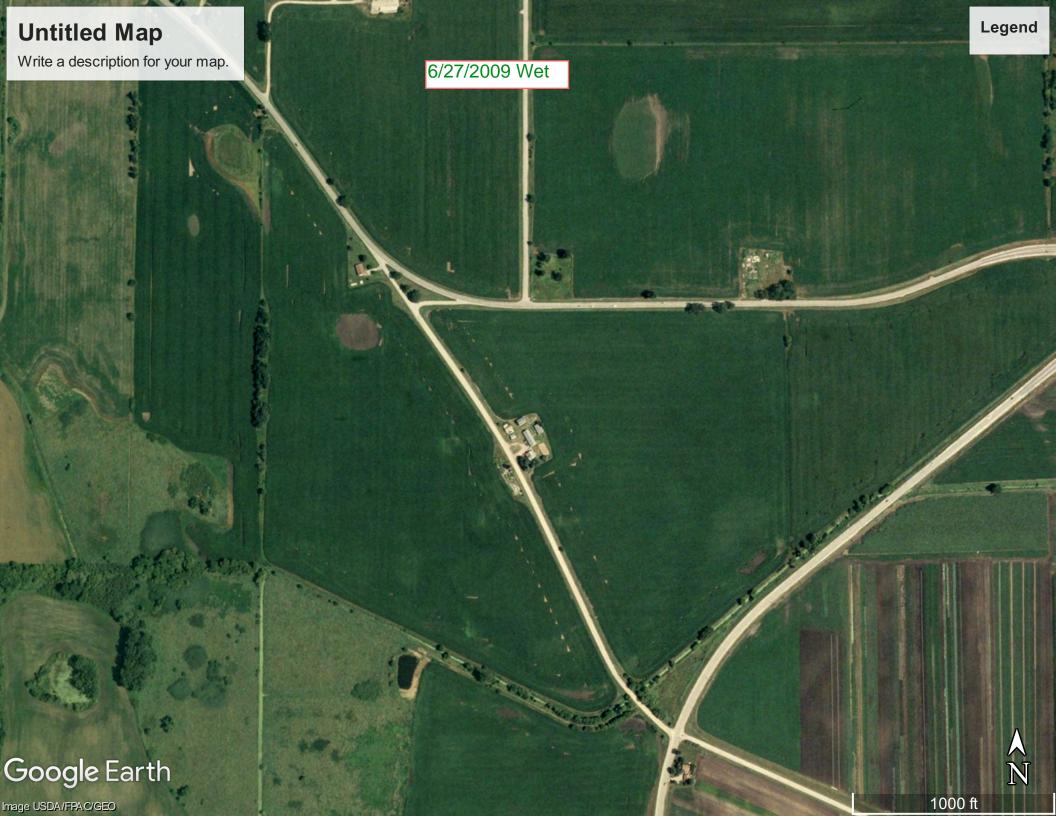


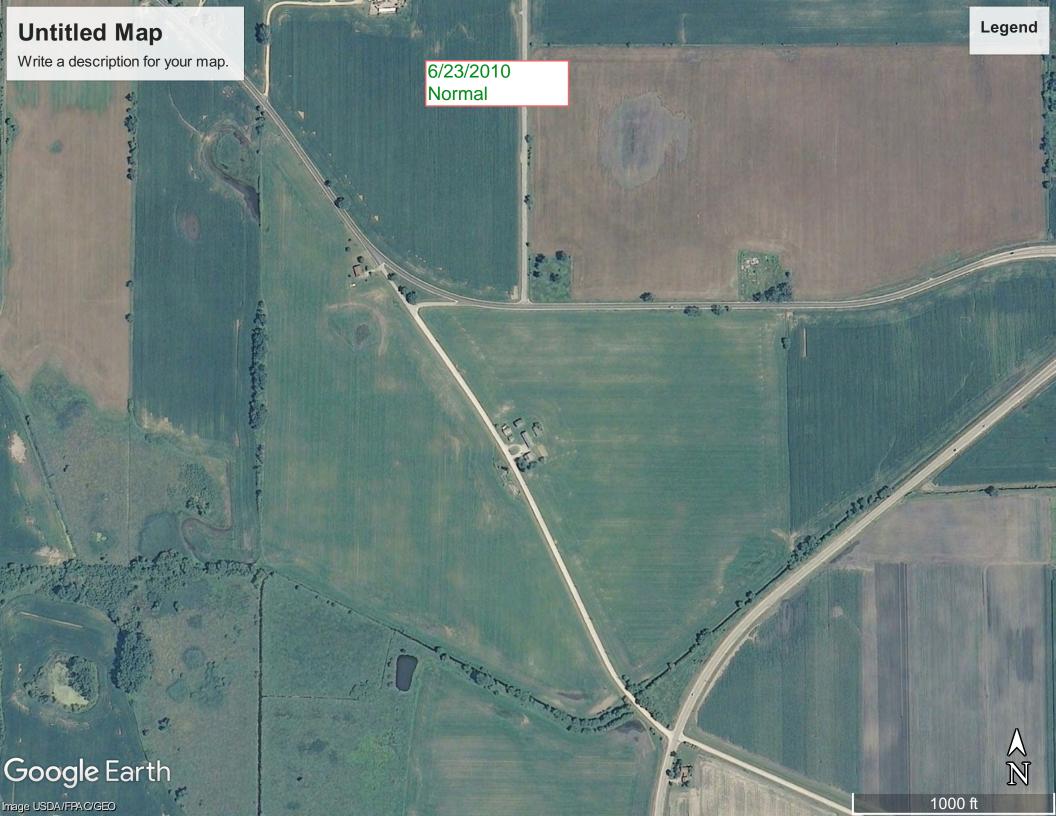


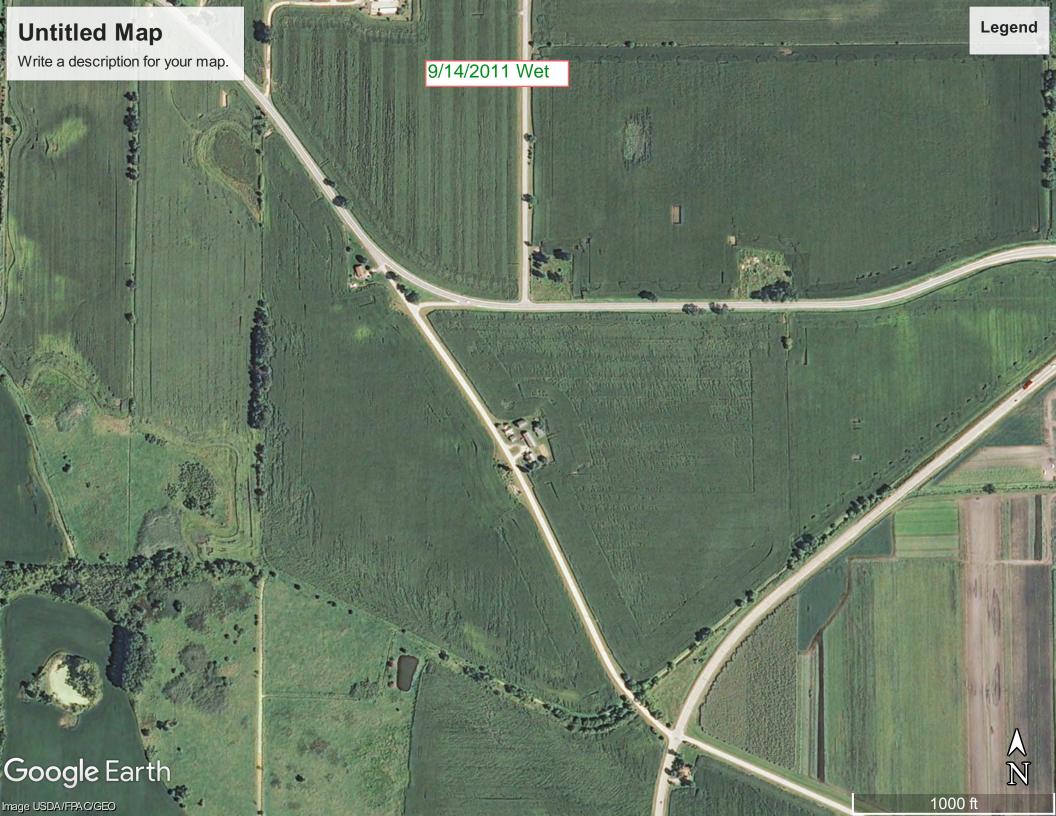


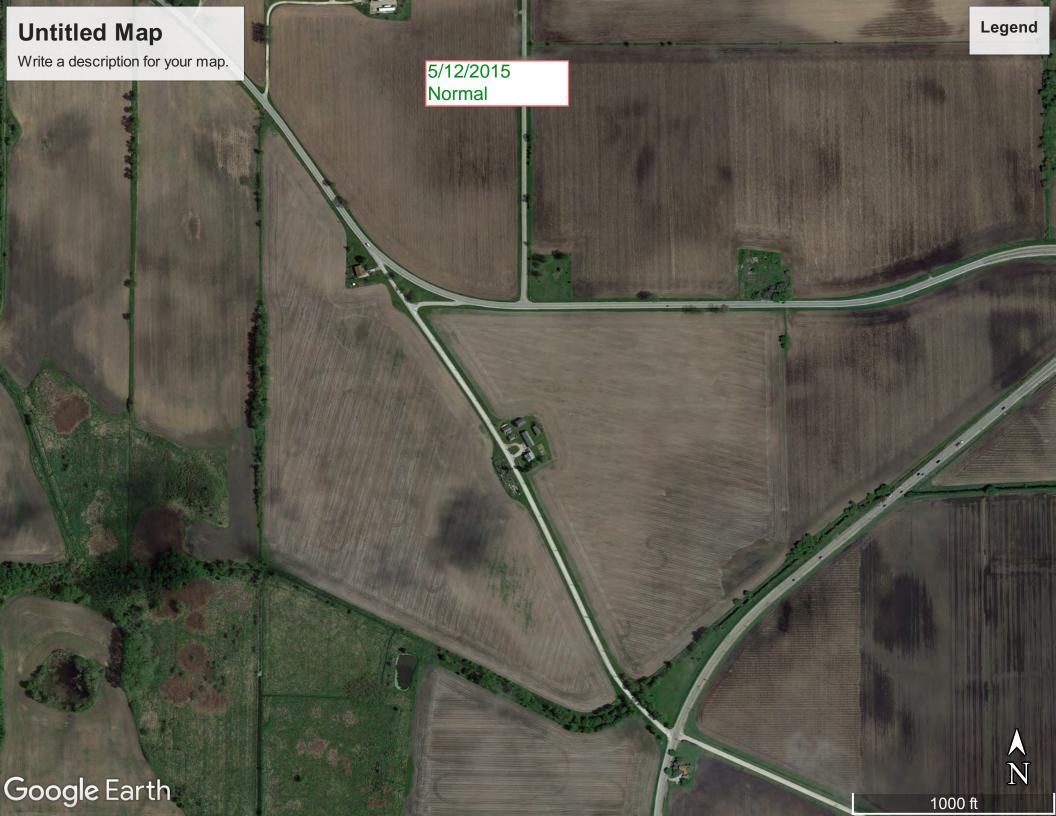


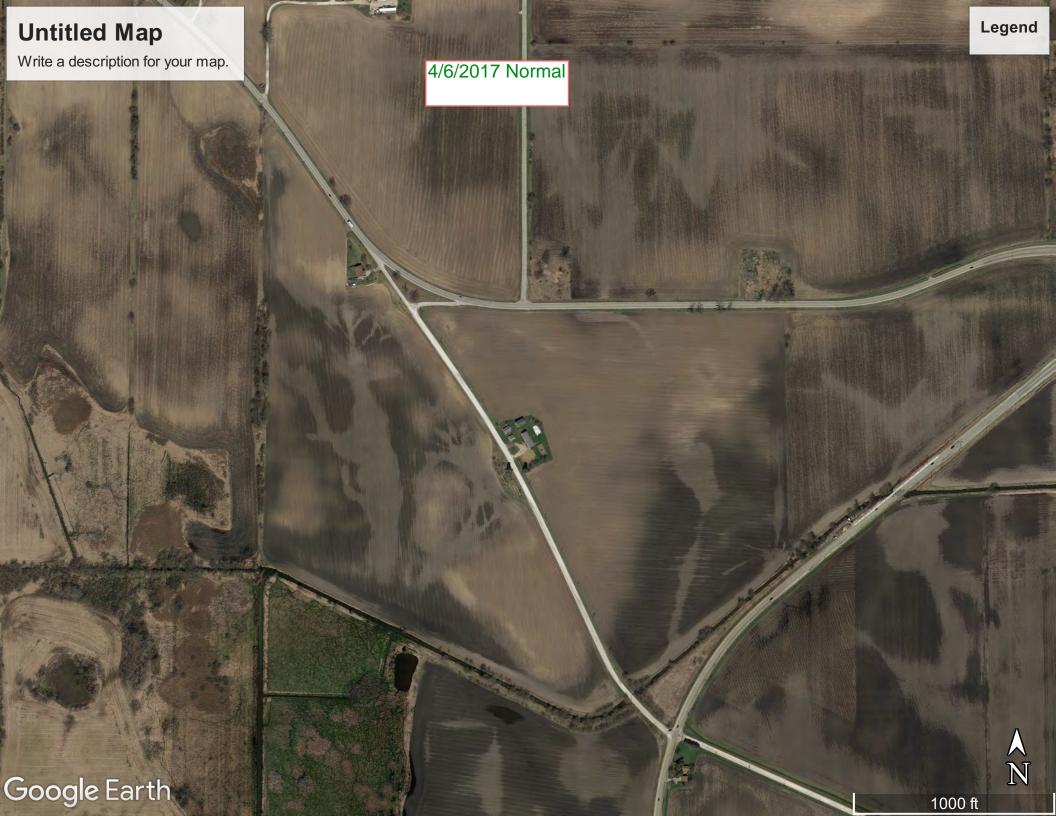


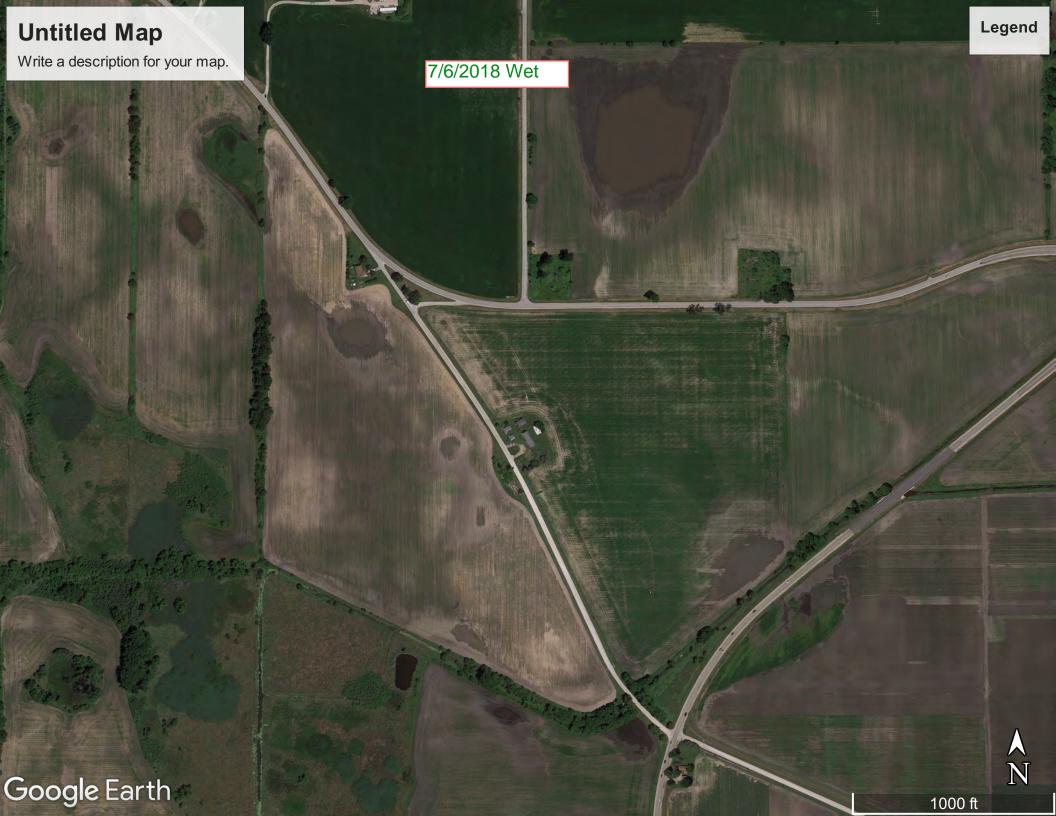


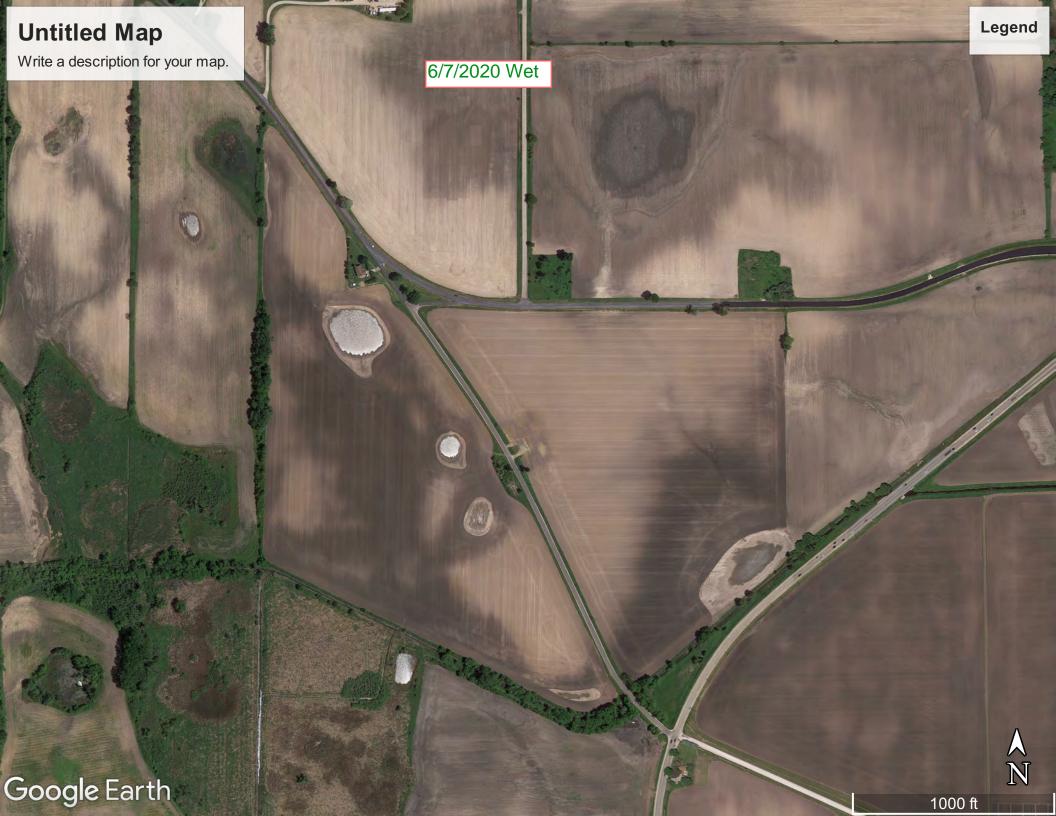


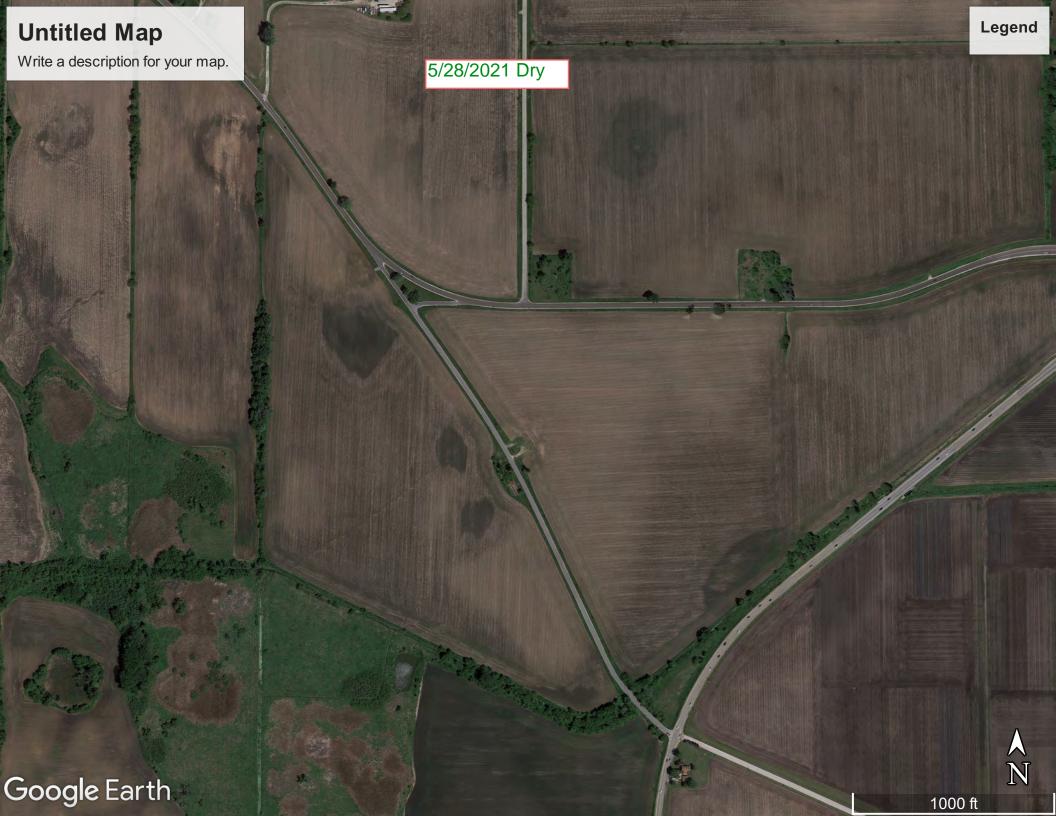


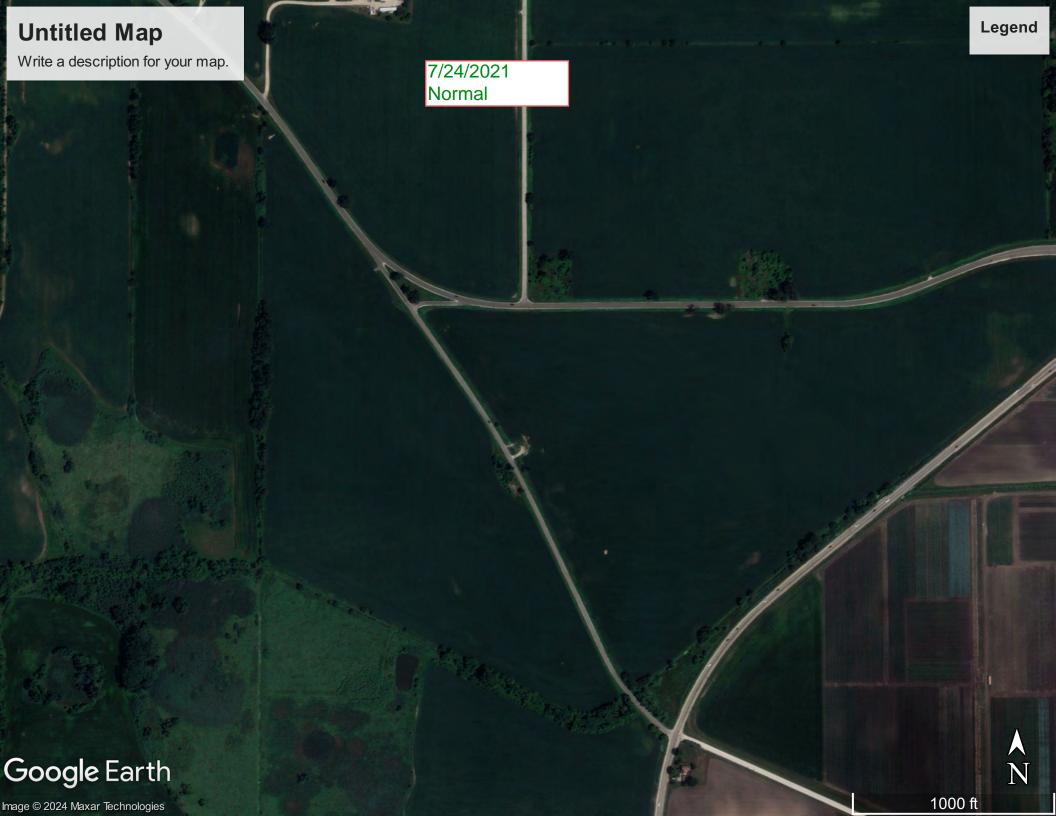












April Aerial Imagery Off-Site Aerial Imagery Analysis

on one morian imagery i								
Date	January	Weighted Precip	Feburary	Weighted Precip	March	Weighted Precip	Weighted Sum	Relative Wetness
31-Mar-05	3.03	3	1.71	4	0.94	3	10	Normal
06-Apr-17	2.83	3	0.90	2	4.94	9	14	Normal
30% chance less than**	1.20		1.00		1.37			
30 Year Average**	1.85		1.83		2.26			
30% chance more than**	2.22		2.23		2.74			

WETS Station: Elgin Water, IL

30-Year Precipitation Data (1994-2023) from NOAA Website

May Aerial Imagery
Off-Site Aerial Imagery Analysis

Date	February	Weighted Precip	March	Weighted Precip	April	Weighted Precip	Weighted Sum	Relative Wetness
5/3/08	3.92	3	1.89	4	4.53	9	16	Wet
5/12/15	1.45	2	1.28	2	3.14	6	10	Normal
30% chance less than**	1.00		1.37		2.80			
30 Year Average**	1.83		2.26		3.83			
30% chance more than**	2.23		2.74		4.51			

WETS Station: Elgin Water, IL

30-Year Precipitation Data (1994-2023) from NOAA Website

June Aerial Imagery Off-Site Aerial Imagery Analysis

On-Site Aeriai illiagery A												
			Monthly Rain	fall in Inches 1								
Date	March	Weighted Precip	April	Weighted Precip	May	Weighted Precip	Weighted Sum	Relative Wetness				
2-Jun-06	3.64	3	3.41	4	4.76	6	13	Normal				
6-Jun-07	3.40	3	3.91	4	2.52	3	10	Normal				
19-Jun-12	1.82	2	3.13	4	1.57	3	9	Dry				
13-Jun-14	1.31	1	2.72	2	5.46	9	12	Normal				
7-Jun-20	3.69	3	5.06	6	8.90	9	18	Wet				
28-May-21	1.28	1	1.13	2	1.76	3	6	Dry				
30% chance less than**	1.37		2.80		3.36							
30 Year Average**	2.26		3.83		4.44							
30% chance more than**	2.74		4.51		5.18							

WETS Station: Elgin Water, IL

30-Year Precipitation Data (1994-2023) from NOAA Website

July Aerial Imagery

Off-Site Aerial Imagery Analysis

on one homa magery h	•		Monthly Rain	nfall in Inches 1				
Date	April	Weighted Precip	May	Weighted Precip	June	Weighted Precip	Weighted Sum	Relative Wetness
07/10/05	2.62	1	2.51	2	0.46	3	6	Dry
07/01/06	3.41	2	4.76	4	4.39	6	12	Normal
07/07/07	3.91	2	2.52	2	2.93	3	7	Dry
06/27/09	5.31	3	4.18	4	6.17	9	16	Wet
06/23/10	2.92	2	6.12	6	4.21	6	14	Normal
07/01/10	2.92	2	6.12	6	4.21	6	14	Normal
07/02/17	4.57	3	5.48	6	5.45	9	18	Wet
07/06/18	2.06	1	9.79	6	9.21	9	16	Wet
30% chance less than**	2.80		3.36		3.13			_
30 Year Average**	3.83		4.44		4.46			
30% chance more than**	4.51		5.18		5.29			

WETS Station: Elgin Water, IL

30-Year Precipitation Data (1994-2023) from NOAA Website

August Aerial Imagery

Off-Site Aerial Imagery Analysis

On One Acrial imagery			Monthly Rai	infall in Inches 1				
Date	May	Weighted Precip	June	Weighted Precip	July	Weighted Precip	Weighted Sum	Relative Wetness
08/06/04	8.60	3	4.11	4	2.51	3	10	Normal
08/06/05	2.51	1	0.46	2	1.39	3	6	Dry
07/21/07	2.52	1	2.93	2	5.91	9	12	Normal
08/02/09	4.18	2	6.17	6	2.44	3	11	Normal
07/24/21	1.76	1	5.68	6	1.09	3	10	Normal
08/16/23	1.46	1	2.46	2	8.43	9	12	Normal
30% chance less than**	3.36		3.13		2.69			
30 Year Average**	4.44		4.46		4.13			
30% chance more than**	5.18		5.29		4.96			

WETS Station: Elgin Water, IL

30-Year Precipitation Data (1994-2023) from NOAA Website

September Aerial Imagery

Off-Site Aerial Imagery Analysis

on one remainingery			Monthly Ra	infall in Inches ¹				
Date	June	Weighted Precip	July	Weighted Precip	August	Weighted Precip	Weighted Sum	Relative Wetness
8/26/11	4.45	2	5.76	6	6.27	9	17	Wet
9/14/11	4.45	2	5.76	6	6.27	9	17	Wet
9/16/15	8.35	3	5.74	6	3.10	6	15	Wet
9/1/17	5.45	3	9.69	6	2.14	3	12	Normal
9/14/19	3.74	2	3.30	4	3.23	6	12	Normal
9/5/21	5.68	3	1.09	2	3.94	6	11	Normal
30% chance less than**	3.13		2.69		2.96			
30 Year Average**	4.46		4.13		4.51			
30% chance more than**	5.29		4.96		5.41			

WETS Station: Elgin Water, IL

30-Year Precipitation Data (1994-2023) from NOAA Website

October Aerial Imagery Off-Site Aerial Imagery Analysis

Date	July	Weighted Precip	August	Weighted Precip	September	Weighted Precip	Weighted Sum	Relative Wetness
10-Oct-07	5.91	3	15.69	6	0.77	3	12	Normal
28-Sep-21	1.09	1	3.94	4	1.48	3	8	Dry
30% chance less than**	2.69		2.96		1.98			
30 Year Average**	4.13		4.51		3.44			
30% chance more than**	4.96		5.41		4.19			

WETS Station: Elgin Water, IL

30-Year Precipitation Data (1994-2023) from NOAA Website

WETO Chatians El Oly WATER													
WETS Station: ELGIN WATER, IL													
Requested years: 1994 - 2023													
Month	Avg Max Temp	Avg Min Temp	Avg Mean Temp	Avg Precip	30% chance precip less than	30% chance precip more than	Avg number days precip 0. 10 or more	Avg Snowfall					
Jan	30.1	14.2	22.1	1.85	1.20	2.22	5	10.4					
Feb	33.8	16.1	24.9	1.83	1.00	2.23	5	8.6					
Mar	46.3	26.5	36.4	2.26	1.37	2.74	5	3.1					
Apr	58.6	36.8	47.7	3.83	2.80	4.51	8	0.7					
May	70.1	48.2	59.1	5.16	3.54	6.14	9	0.0					
Jun	80.3	58.6	69.5	4.46	3.13	5.29	7	0.0					
Jul	84.2	63.4	73.8	4.13	2.69	4.96	6	0.0					
Aug	82.4	61.6	72.0	4.51	2.96	5.41	6	0.0					
Sep	76.2	53.3	64.8	3.44	1.98	4.19	6	0.0					
Oct	62.9	41.5	52.2	3.37	2.06	4.09	6	0.0					
Nov	48.0	30.2	39.1	2.36	1.46	2.86	5	1.4					
Dec	35.8	20.5	28.2	2.22	1.57	2.64	5	7.0					
Annual:	50.5	22.2	40.7		36.05	43.99							
Average	59.1	39.2	49.1	-	-	-	-	-					
Total	-	-	-	39.42			73	31.3					
GROWING SEASON DATES													
Years with missing data:	24 deg =	28 deg =	32 deg =										
rears with missing data.	1	1	0										
Years with no occurrence:	24 deg = 0	28 deg = 0	32 deg = 0										
Data years used:	24 deg = 29	28 deg = 29	32 deg = 30										
Probability	24 F or higher	28 F or higher	32 F or higher										
50 percent *	4/1 to 11/ 12: 225 days	4/14 to 10/27: 196 days	4/28 to 10/18: 173 days										
70 percent *	3/28 to 11/16: 233 days	4/9 to 11/ 1: 206 days	4/25 to 10/22: 180 days										
* Percent chance of the growing season occurring between the Beginning and Ending dates.													
STATS TABLE - total precipitation (inches)													
Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annl
1983	Jail	ren	M0.00	6.76	мау 3.47	2.10	3.55	Aug 3.26	Sep 6.	M3.	5.19	M1.	35.
1903			IVIU.UU	0.70	3.41	2.10	3.33	3.20	ь. 19	74	5.19	64	35. 90
1984	M0.51	1.42	M0.27	M4.49								M1. 83	8.52
1985		M1.37	3.74	1.45	3.74	3.08	5.70	4.07	2. 54	3. 75	8.42	M0. 76	38. 62
1986	M0.31	M1.72	M0.20	2.30	4.98	4.24	4.41	1.67	7. 08		1.36	0.97	29. 24
1987	0.75	0.04	M1.42	3.51	M4.52	M1.68	3.52	11.36	2. 54	1. 18	M4. 04	M2. 98	36. 79
1988	2.16	M1.02	M1.94	3.18	1.15	1.36	2.57	5.69	2. 31	2. 65	4.20	M3. 01	31. 24
1989	M0.50	M0.84	0.66	1.01	4.70	4.38	6.65	M6.26	4. 39	1. 06	2.31	29	28. 35
1990	M2.42	1.81	2.31	2.01	4.70	4.98	2.82	6.44	1. 02	3. 31		1.69	37. 85
1991	M0.73	0.24	2.28	4.13	5.02	1.59		2.68	3.	5.	3.61	1.54	30.

1992	0.92	1.41	M3.81	2.75	0.47	1.02	5.42	2.67	11 4.	84 1.	5.69	2.92	77 32.
1993	3.38	1.08	2.53	7.16	2.07	10.40	5.32	3.30	02 3.	13 1.	1.97	1.69	23 43.
1994	M1.41	M1.35	1.11	1.84	1.47	4.19	3.68	5.45	44 2.	49 1.	6.20	1.18	83 31.
1995	M3.27	0.08	2.40	5.82	5.35	1.71	4.62	5.18	00 1.	16 5.	4.14	M0.	04 40.
1996	M1.10	1.02	0.67	2.43	8.70	5.51	3.82	5.68	90	11 2.	M1.	65	23
1997	M0.60			1.64				M4.73	27	02	37 M1.		30
		M5.62	2.04		5.57	2.80	1.52		1. 98	2. 26	33	M1. 29	31. 38
1998	3.64	1.56	2.17	5.07	3.81	5.27	1.82	4.46	3. 11	6. 27		1.80	40. 92
1999	M3.04	1.44	M0.23	8.53	3.38	M6.51	3.68	1.80	5. 01	1. 31	0.63	2.30	37. 86
2000	M1.03	M0.91	1.60	4.36	4.50	6.16	4.42	3.22	5. 71	1. 74	4.65	2.54	40. 84
2001	1.43	2.73	1.18	3.42	4.24	3.86	1.19	4.13	6. 00	7. 53	1.93	1.49	39. 13
2002	1.51	M1.26	2.24	3.66	4.89	5.56	1.54	10.21	1. 89	1. 92	0.93	1.20	36. 81
2003	0.37	0.20	1.49	2.35	8.46	1.58	3.53	2.07	1. 80	1. 92	5.46	2.85	32. 08
2004	0.68	0.87	4.97	1.73	8.60	4.11	2.51	3.98	0. 72	2. 66	3.09	2.48	36. 40
2005	M3.03	1.71	0.94	2.62	2.51	0.46	1.39	3.71	2. 01	0. 78	2.71	1.00	22. 87
2006	3.12	1.29	3.64	3.41	4.76	4.39	3.75	3.30	4. 28	4. 46	2.78	2.97	42. 15
2007	1.75	1.89	3.40	3.91	2.52	2.93	5.91	15.69	0. 77	3. 28	1.01	3.20	46. 26
2008	1.92	3.92	1.89	4.53	3.84	4.45	4.31	3.74	11. 48	2. 41	1.17	5.22	48. 88
2009	1.17	2.45	5.08	5.31	4.18	6.17	2.44	6.57	0. 70	5. 85	1.69	3.78	45. 39
2010	1.20	1.29	M0.29	M2.92	6.12	4.21	8.98	2.84	4. 05	M0. 58	M1. 21	M1. 43	35.
2011	M1.21	3.27	2.73	M5.62	8.22	M4.45	M5.76	M6.27	M4. 49	M1.	M4. 14	M3.	51.
2012	1.42	M0.76	1.82	3.13	1.57	2.66	2.75	2.81	2.	76 4.	0.69	08 2.77	26.
2013	3.51	3.01	2.19	7.42	2.96	3.86	3.00	2.70	09 4.	1.	3.17		50 38.
2014	2.18	1.81	1.31	2.72	M5.46	5.89	4.02	6.77	02 3.	79 2.	1.39	14 1.19	77 39.
2015	1.56	1.45	1.28	3.14	5.18	M8.35	5.74	3.10	30 5.	97 1.	4.81	M5.	01 46.
2016	M0.34	1.14	3.30	3.04	6.49	3.86	4.59	3.58	48 2.	39 3.	2.38	50 1.85	98 36.
2017	M2.83	0.90	4.94	4.57	5.48	5.45	9.69	2.14	24 0.	58 7.	1.92	0.90	39 47.
2018	1.28	4.67	1.51	2.06	9.79	9.21	2.77	5.81	58 3.	78 5.	M3.	2.06	18 51.
2019	2.97	M3.41	2.32	4.69	8.76	3.74	3.30	3.23	84	44 5.	20 1.95	2.02	64 51.
2020	2.76	0.68	3.69	5.06	8.90	5.44	4.21	0.70	89 5.	90	M2.	M2.	18
									47	42	11	01	45
2021	1.78	1.07	1.28	1.13	1.76	5.68	1.09	3.94	1. 48	M7. 02	0.83	M2. 36	29. 42
2022	M0.62	M2.30	3.28	M3.67	5.73	2.74	9.30	5.76	2. 43	M1. 81	1.01	2.17	40. 82
2023	2.67	4.20	2.82	4.24	1.46	2.46	8.43	1.66	3. 27	3. 07	1.04	2.60	37. 92
2024 s: Data missing in any	3.49	M0.93	M1.73										6.15

Notes: Data missing in any month have an "M" flag. A "T"

indicates a trace of precipitation.

Data missing for all days in a month or year is blank.

Creation date: 2024-03-14