WDNR Professionally Assured Report of No Wetland Finding

Nicholas Schremp Wetland Delineation

Town of Albion, Dane County, WI

SCHNI 166828 | May 19, 2022

SEH

Building a Better World for All of Us®

Engineers | Architects | Planners | Scientists

May 19, 2022

RE: Nicholas Schremp Wetland Delineation
Town of Albion, Dane County, WI
SEH No. SCHNI 166828

Nicholas Schremp
344 Craig Road
Edgerton, WI 53534

Dear Mr. Schremp:

Please find enclosed the WDNR Professionally Assured Wetland Delineation Report for your site located in the Town of Albion, Dane County, Wisconsin. This report presents the results of the field delineation for wetlands performed on May 11th by Erica Pergande. Upon the site investigation it was determined that no wetlands are present within the identified project area.

Thank you for the opportunity to provide wetland services to you. Short Elliott Hendrickson Inc. (SEH®) is pleased to provide you with this information for your records and review. If you have any questions, please contact me directly at 262-853-0005 or via e-mail at epergande@sehinc.com.

Sincerely,

Erica N Pergande

Erica Pergande
SEH Wetland Scientist

ENP
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Wetland Delineation Report

Nicholas Schremp Wetland Delineation
Town of Albion, Dane County, Wisconsin

Prepared for:
Nicholas Schremp
344 Craig Road
Edgerton, WI 53534

Prepared by:
Short Elliott Hendrickson Inc.
501 Maple Avenue
Delafield, WI 53018-9351
262.646.6855

Prepared by: _____ May 18th, 2022
Erica Pergande, SEH Wetland Scientist — Date
WDNR Assured Wetland Delineator
Professional Wetland Scientist, No. 3051

Reviewed by: _____ May 18th, 2022
Sheri Lieffring, SEH Natural Resource Scientist — Date

Wetland Delineation Confirmation Request Check List

WDNR WETLAND IDENTIFICATION PROGRAM

The following is the preferred order for all information provided in wetland delineation reports submitted for wetland confirmation. Please include this completed checklist with all wetland delineation report submittals. All of the following must be included with all wetland delineation reports that are submitted for confirmation:

☑ **Introductory Section**

- Why the delineation was undertaken
- Date the field work was completed
- Who conducted field work
- Qualifications

☑ **Methods used during the wetland delineation**

- Description of methods
- Sources Reviewed (WWI mapping, Soil Survey, etc.)
- Description of any site specific agency guidance (site meetings, etc.)

☑ **Results and Discussion**

- Antecedent hydrologic condition analysis
- Previous wetland delineation mapping
- Existing environmental mapping (WWI mapping, Soil survey, etc.)
- Amount and types of wetland located within the project area
- Discussion explaining how the wetland/upland boundary was differentiated
- Disturbed and problematic areas encountered during the delineation
- Other water resources located in the project area (navigable streams, etc.)

☑ **Topographic mapping** (Include map scale, clearly identified review area, a north arrow)
☑ **WWI mapping** (Include map scale, clearly identified review area, a north arrow)
☑ **Soil Survey mapping** (Include map scale, clearly identified review area, a north arrow)
☑ **Wetland Delineation Map** showing an accurate depiction of wetland boundaries and data points identified during field investigation (Include map scale, clearly identified review area, a north arrow)
☑ Complete, legible wetland delineation **data forms** from the appropriate regional supplement
☑ **Site photos**
☑ Any previous delineation information
☑ **Areas that are currently, or were recently (less than three years prior to the delineation) under agricultural production must include a Farm Service Agency (FSA) Slide Review.** All FSA Slide Reviews should include the following:

- Copies or photos of slides if available
- A completed wetland documentation form (NRCS form NRCS-CPA-32W)
- A copy of the draft NRCS Wetland Inventory map if available

☑ **Literature Cited**

Contents

List of Tables

List of Figures

Contents (continued)

List of Appendices

Wetland Delineation

Nicholas Schremp Site, Town of Albion, Dane County, WI

Prepared for Nicholas Schremp

1 Introduction

The purpose of this study was to investigate the project area, identify areas meeting the technical criteria for wetlands, delineate the jurisdictional extent of the wetland basins, and classify the wetland habitat for a portion of the property located south of Kellogg Road (Parcel ID: 051212380001) in the Town of Albion, Dane County, Wisconsin. This field delineation was performed in order to aid in design and planning of the site.

The Area of Interest (AOI) consists of approximately 3 acres of the 40-acre parcel. It was reviewed and delineated on May 11th, 2022, SEH Wetland Scientists, who both serve out of our Delafield, Wisconsin office. Ms. Erica Pergande (PWS #3051) is a Wisconsin Department of Natural Resources (WDNR) Professionally Assured Wetland Delineator. Ms. Pergande has 19 years of experience working on public and private infrastructure, community development and industrial projects throughout the upper Midwest, including Wisconsin. Her expertise is in completing wetland delineations, reports, permit applications, compensatory wetland mitigation plans, and floristic habitat assessments and construction site compliance inspections. Ms. Pergande is professionally trained and experienced in the practice of wetland delineation.

This report describes the methodology and results of the field delineation. Figures referred to in the text are included at the end of the report.

1.1 Site Description

The project site is located in Section 12, Township 05 North, Range 12 East, Town of Albion, Dane County, Wisconsin as shown on **Figure 1**. The approximately 3-acre project area is located on Kellogg Road. This site consists of gently sloping agricultural field. The project area is bordered by agricultural property to the north and south, single-family residential and agricultural uses to the west; and natural areas and agricultural uses to the east. The project site is in the Southeast Wisconsin Savannah and Till Plain Omernik Level IV Ecoregion/Southeast Glacial Plains ecological landscape, per the Wisconsin Department of Natural Resources (WDNR) Surface Water Data Viewer.

The project site consists of an upland agricultural plant community. This community is described in more detail in the following sections.

2 Wetland Delineation

2.1 Wetlands Definition

Wetlands are defined in federal Executive Order 11990 as follows:

"Those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas."

According to U.S. Army Corps of Engineers Wetlands Delineation Manual (USACE 1987) and the Regional Supplement to the Corps of Engineers Wetlands Delineation Manual: Northcentral and Northeast Region (USACE 2012), one positive indicator (except in certain situations) from each of three elements must be present in order to make a positive wetland determination, which are as follows:

- Dominance of hydrophytic plant species.
- Presence of hydric soil.
- Observed indicators of wetland hydrology.

2.2 Methodology

2.2.1 Resource Review

Prior to the site visit, numerous resources were reviewed to achieve a better understanding of the site and surrounding area. Topographic maps, the USDA Web Soil Survey for Dane County, the Dane County hydric soils list, the WDNR Wisconsin Wetland Inventory (WWI) map, and historic aerial photographs from the Dane County Interactive Mapping site were reviewed prior to visiting the site to locate potential wetland habitats. **Figure 1** is the site location aerial photo, **Figure 2** is a County 2-ft. Contour Map, **Figure 3** is the NRCS Soil Survey & Wetland Indicators Map, **Figure 4** is the Wisconsin Wetland Inventory (WWI) Map, and **Figure 5** is the Wetland Delineation Boundary Map. The Offsite Hydrology Review and Climate Data is included in **Appendix A**, Wetland Determination Data Forms are in **Appendix B,** and Site Photographs are in **Appendix C**. These sources indicated that there were likely **no** wetlands located within the project area.

2.2.2 Field Procedures

The project site was examined for areas meeting the technical wetland criteria in accordance with the *U.S. Army Corps of Engineers Wetlands Delineation Manual* (USACE 1987) and the *Regional Supplement to the Corps of Engineers Wetlands Delineation Manual: Northcentral and Northeast Region (2012)*. The Manual and Regional Supplement require that all three wetland parameters (as discussed above) be present in order for an area to be classified as wetland.

The delineation procedures in the Corps Manual (i.e., the Routine Onsite Determination Method), in combination with wetland indicators and guidance provided in the Regional Supplement were applied for this delineation. Where differences in the two documents occur, the Regional Supplement takes precedence over the Corps Manual for applications in the *Northcentral and Northeast Region* (2012). This delineation also follows the standards and expectations for conducting wetland delineations and submitting wetland delineation reports for regulatory purposes in Wisconsin by following the Guidance for Submittal of Delineation Reports to the St. Paul District Army Corps of Engineers and the Wisconsin Department of Natural Resources (WDNR 2014).

Field notes, samples, and photographs were taken at representative locations within the project area and is documented on the Wetland Determination Data Form located in **Appendix B**.

Relevant photographs of the site and representative sample locations are included in **Appendix C**; all other photographs will be retained on file at SEH.

The sample point is shown on the **Figure 5** (Wetland Delineation Results Map). The sample point noted identify where data was collected and is recorded on corresponding Wetland Determination Data Form (**Appendix B**).

2.3 Hydrophytic/Wetland Vegetation

Wetland plant species nomenclature follows the National Wetland Plant List U.S. Army Corps of Engineers 2020. National Wetland Plant List, published 11/2/2021, (Federal Register : National Wetland Plant List). Identification was aided when necessary with field guides for the region. Vegetation was sampled in nested circular plots: 5-ft radius for herbaceous species, 15-ft radius for shrubs, and 30-ft radius for trees and vines.

2.4 Hydric/Wetland Soils

Soils were observed for hydric soil characteristics. Hydric soils are defined by the National Technical Committee for Hydric Soils (NTCHS) as soils that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (Federal Register, 1994). Under natural conditions, these soils are either saturated or inundated long enough during the growing season to support the growth and reproduction of hydrophytic vegetation. If soils are wet enough for a long enough period of time to be considered hydric, they should exhibit certain properties that can be easily observed in the field. These visible properties are indicators of hydric soils. The indicators used to make onsite determinations of hydric soils are specified in "Field Indicators of Hydric Soils in the United States" (Hurt and Vasilas, 2006).

Soils were examined in pits dug with a Dutch auger. Soil profiles were observed at a depth necessary to confirm any potential hydric soil characteristics. Soil profile depths are typically within 18-24 inches below ground surface to allow for: (1) observation of an adequate portion of the soil profile to determine presence/absence of hydric soil characteristics; (2) observation of hydrology including depth to the water table and saturated soils; and, (3) identification of disturbances (e.g., buried horizon, plow line, etc.). Where site conditions preclude observing soil profile depths at the typical 18-24 inches below ground surface or where observed hydric soil indicators are documented above or below 18-24 inches below ground surface, justification is provided. Soil color determinations were made using MUNSELL Soil Color Charts (Gretag-Macbeth 1994). Site soil characteristics were compared to those mapped and described in the Soil Survey for Dane County (USDA 2022). Hydric soil characteristics were compared to those identified in the Northcentral and Northeast Regional Supplement (USACE 2012) and the most recent version of the Natural Resources Conservation Service (NRCS) publication Field Indicators of Hydric Soils in the United States, Version 8.2 (USDA 2018). The Hydric Soil Category rating (USDA 2022) was also reviewed for soils in the project area.

2.4.1 Hydric Rating by Map Unit

The Hydric Rating by Map Unit indicates the percentage of map units that meets the criteria for hydric soils. Map units are composed of one or more map unit components or soil types, each of which is rated as hydric soil or not hydric. Map units that are made up predominantly of hydric soils may have small areas of minor nonhydric components in the higher positions on the landform, and map units that are made up predominantly of nonhydric soils may have small

areas of minor hydric components in the lower positions on the landform. Each map unit is rated based on its respective components and the percentage of each component within the map unit. In the Summary by Map Unit table shown below, contains a column named 'Rating'. In this column the percentage of each map unit that is classified as hydric is displayed.

The NTCHS definition identifies general soil properties that are associated with wetness. In order to determine whether a specific soil is a hydric soil or nonhydric soil, however, more specific information, such as information about the depth and duration of the water table, is needed. Thus, criteria that identify those estimated soil properties unique to hydric soils have been established (Federal Register, 2002). These criteria are used to identify map unit components that normally are associated with wetlands. The criteria used are selected estimated soil properties that are described in "Soil Taxonomy" (Soil Survey Staff, 1999) and "Keys to Soil Taxonomy" (Soil Survey Staff, 2006) and in the "Soil Survey Manual" (Soil Survey Division Staff, 1993). The NRCS Web Soil Survey for the study area indicates the following:

Table 1 – Hydric Rating by Map Unit

Tables — Hydric Rating by Map Unit — Summary By Map Unit

Summary by Map Unit — Dane County, Wisconsin (WI025)

Summary by Map Unit — Dane County, Wisconsin (WI025)

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
DfA	Del Rey silt loam, 0 to 3 percent slopes	3	5.9	30.8%
DsB	Dresden silt loam, 2 to 6 percent slopes	0	1.4	7.0%
GsB	Grays silt loam, 2 to 6 percent slopes	0	5.3	27.6%
SaA	Sable silty clay loam, 0 to 2 percent slopes	85	6.7	34.6%
Totals for Area of Interest			**19.3**	**100.0%**

Figure 3 includes the NRCS Soil Survey Map for the project area.

2.5 Hydrology

Primary and secondary indicators of hydrology were identified in the field to determine the presence or absence of wetland hydrology and are listed in each wetland description. Subsurface wetland hydrology indicators were examined using a soil pit dug to 22 inches.

2.5.1 Antecedent Precipitation

The Antecedent Precipitation was calculated and graphed using the Antecedent Precipitation Tool (APT) developed by the USACE to determine normality of precipitation for the three months prior to the field dates and subsequently identify whether conditions were considered “dry”, “normal”, or “wet” during that period. NOAA’s Daily Global Historical Climatology Network records show that precipitation for 30-Day rolling totals approximately three months prior to the site visit were calculated to be “normal” based on the precipitation totals vs the 30-year normal range (**Appendix A**). Hydrology appeared normal for the site.

2.5.2 Offsite Hydrology Review

Due to the presence of mapped partially hydric soil within the project site and the site being in agricultural crop use, a review of historical aerial photos was conducted to evaluate the potential presence of farmed wetlands. Aerial photos were reviewed for the years of 1937, 1955,1968, 1974, 1995, 2000, 2005, 2008, 2010, 2013, 2014, 2015, 2017, and 2020. They were obtained from Dane County and the WDNR Surface Water Data Viewer. The WETS Analysis was used to

determine normality of precipitation for the three months prior to the photograph date and concluded whether conditions were considered “dry”, “normal”, or “wet” during that time period.

Of the fifteen (15) years analyzed, six (6) were considered “normal”, four (4) were “dry”, and five (5) were “wet”. The analysis of the historic aerials during the identified time period indicated that Area 1 had wet signatures present 16.6% of the time.

Field verification to confirm the presence or absence of wetlands was performed in the areas that showed hydric signatures. There were no wetlands mapped within the areas studied.

The results of the offsite hydrology review and climate conditions are presented in **Appendix A**.

3 Results

The wetland delineation was completed during the active growing season for the area. The Regional Supplement (USACE 2012) describes several criteria for an active growing season. Observations at the time of the delineation included green leaves on the deciduous trees as well as green and flowering herbaceous plants. Vegetation was very identifiable, including all dominant species.

There were no wetlands identified or delineated within the project boundary (**Figure 5**). The Wetland Determination Data Form (**Appendix B**) identifies the dominant species of vegetation, soil type, and the lack of any hydrologic characteristics at the representative location.

3.1 Data Point 1 UPL (DP-1UPL)

DP 1-UPL is in an area of the farm field that was identified as having predominantly non-hydric soils. The topography in this area is gently sloping to the north making the area of the data point the lowest elevation within the study area.

This area was dominated by comfrey (*Symphytum officinale – UPL*). Common dandelion (*Taraxacum officinale – FACU*) was also observed adjacent to the sample point.

The soils of DP-1UPL are mapped as DfA-Del Rey Silt Loam, 0-3 percent slopes and did not meet any hydric soil technical criteria.

DP-1UPL did not have any Primary or Secondary Hydrologic Indicators.

Supporting documentation of field observations are found in **Appendix C** on the data sheet labeled DP-1UPL

4 Conclusion

There were no wetlands or waterways identified within the study area.

This delineation follows the standards and expectations for conducting wetland delineations and submitting wetland delineation reports for regulatory purposes in Wisconsin by following the Guidance for Submittal of Delineation Reports to the St. Paul District Army Corps of Engineers and the Wisconsin Department of Natural Resources (WDNR 2015).

5 Bibliography

Chadde, S. W. 2002. A Great Lakes Wetland Flora: A Complete Guide to the Aquatic and Wetland Plants of the Upper Midwest, 2nd Ed. Pocket Flora Press, Laurium, Michigan.

Cowardin, L. M., V. Carter, F. C. Golet, and E. T. LaRoe. 1979. Classification of Wetlands and Deepwater Habitats of the United States. U.S. Fish and Wildlife Service. 131 pp.

Dane County Interactive Mapping Site DCiMap (countyofdane.com)

WI Department of Agriculture, Trade, and Consumer Protection. WI Drainage Districts https://datcpgis.wi.gov/maps

Eggers, S. D., and D. M. Reed. 2014. Wetland Plants and Plant Communities of Minnesota and Wisconsin – 3rd Edition. U.S. Army Corps of Engineers, St. Paul District, St. Paul, Minnesota.

Fassett, N.C., 1950. Grasses of Wisconsin. University of Wisconsin Press, Madison.

Gretag-Macbeth. 1994. MUNSELL SOIL COLOR CHARTS. Macbeth Division of Kollmorgen Instruments Corporation, Newburgh, New York.

Gutenson, J. L., and J. C. Deters. 2022. Antecedent Precipitation Tool (APT) Version 1.0: Release APT v1.0.19 · jDeters-USACE/Antecedent-Precipitation-Tool · GitHub

Gutenson, J. L., and J. C. Deters. 2022. Antecedent Precipitation Tool (APT) Version 1.0: Technical and User Guide. ERDC/TN WRAP-22-1. Vicksburg, MS: US Army Engineer Research and Development Center. http://dx.doi.org/10.21079/11681/43160

Lichvar, R.W., M. Butterwick, N.C. Melvin, and W.N. Kirchner. 2014. The National Wetland Plant List: 2014 update of Wetland Ratings. Phytoneuron 2014-41: 1-42.

U.S. Army Corps of Engineers. 1987. Corps of Engineers Wetlands Delineation Manual. Technical Report Y-87-1. Waterways Experiment Station, Vicksburg, Mississippi.

U.S. Army Corps of Engineers. 2020. National Wetland Plant List. NWPL Home v3.4-f9c (army.mil)

U.S. Army Corps of Engineers. 2012. Regional Supplement to the Corps of Engineers: Wetlands Delineation Manual: Northeast-Northcentral Region. 162 pp. incl. appendices.

U.S. Department of Agriculture, Natural Resources Conservation Service. 2017. Field Indicators of Hydric Soils in the United States, Version 8.1. L. M. Vasilas, G. W. Hurt, and J.F. Berkowitz, (eds.). USDA, NRCS, in cooperation with the National Technical Committee for Hydric Soils.

U.S. Department of Agriculture - Soil Conservation Service. 1991. Hydric Soils of the United States. In cooperation with the National Technical Committee for Hydric Soils. USDA-SCS, D.C.

U.S. Department of Agriculture - Soil Conservation Service, 1994. Keys to Soil Taxonomy. Pocahontas Press, Inc., Blacksburg, Virginia.

U.S. Department of Agriculture - Soil Conservation Service. 1992. Midwestern Wetland Flora: Field Office Guide to Plant Species. Midwest National Technical Center, Lincoln, Nebraska.

U.S. Department of Agriculture, 2022. National Cooperative Soil Survey On-line Database. Web Soil Survey - Home (usda.gov)

U.S. Fish and Wildlife Service National Wetlands Inventory website. U.S. Department of the Interior, Fish and Wildlife Service, D.C. http://www.fws.gov/wetlands

U.S. Geological Survey Surface-Water Historical Instantaneous Data for Wisconsin, Electronic Data. https://waterdata.usgs.gov/wi/nwis/uv/?referred_module=sw

U.S. Geological Survey 7.5' Quadrangle Map, Electronic Data. 2013. ArcGIS Map Service, USA Topo Maps. http://services.arcgisonline.com/arcgis/services.

University of Wisconsin. Wisconsin State Herbarium. http://wiscinfo.doit.wisc.edu/moved/herbarium.htm (May 2019).

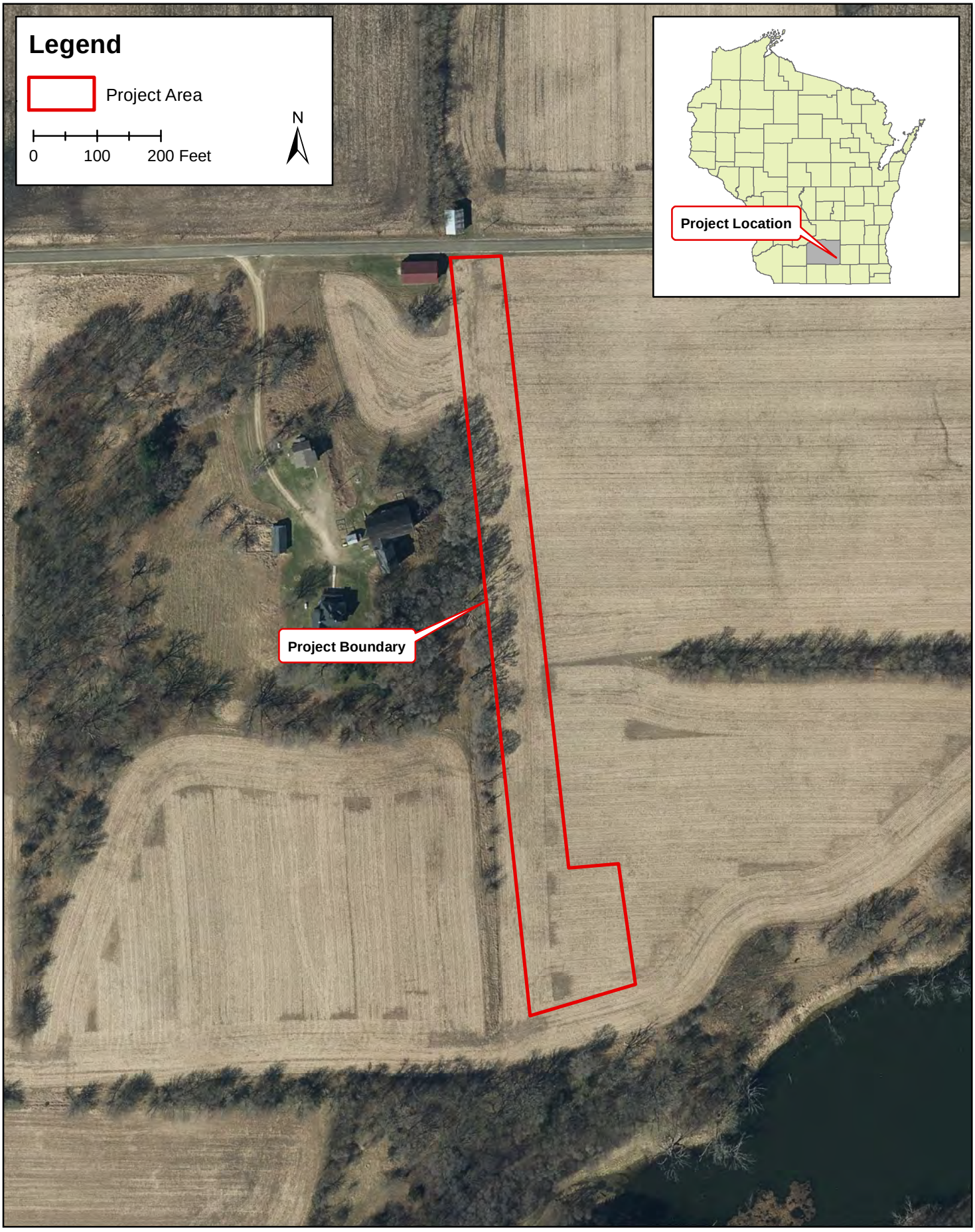
Wisconsin Department of Natural Resources. 2014. Guidance for Submittal of Delineation Reports to the St. Paul District Army Corps of Engineers and the Wisconsin Department of Natural Resources. Public Notice, May 2014. 23 pp. plus appendices.

Wisconsin Department of Natural Resources. 2021. Surface Water Data Viewer. Wetlands Inventory Map, Electronic Data. http://dnrmaps.wi.gov/SL/Viewer.html?Viewer=SWDV

Wisconsin Department of Natural Resources, 1992. Wisconsin Wetland Inventory Classification Guide. PUBL-WZ-WZ0223.

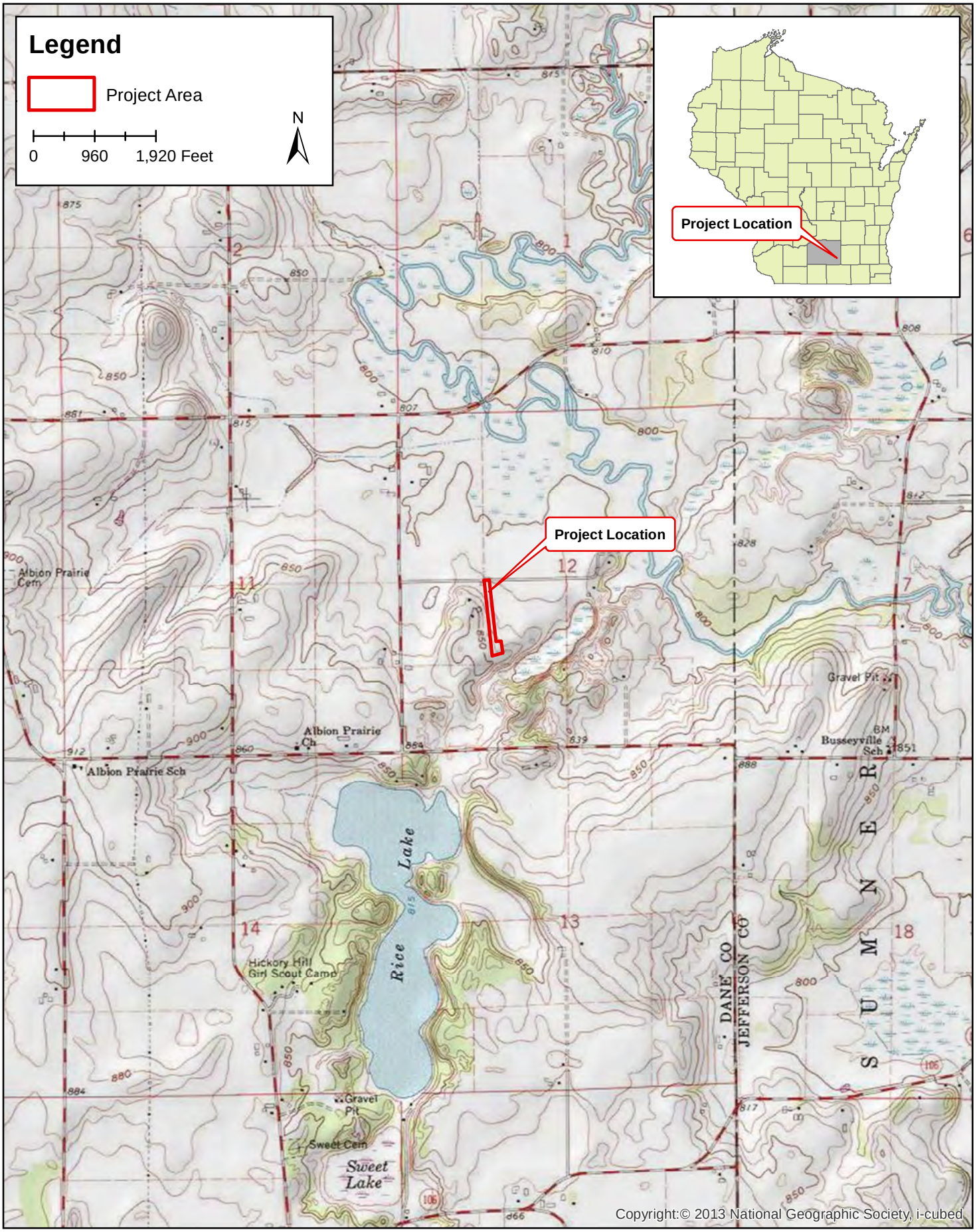
ENP

Figures



Path: C:\Users\mfalk\OneDrive - Short Elliott Hendrickson Inc\Desktop\2022 Projects\0_Wetlands - Delafield\Schremp - SCHNI 166828\Figure 1 - Project Location.mxd

SEH	501 Maple Avenue Delafield, WI 53108 (262) 646-6855	Project: SCHNI 166828 Print Date: 5/12/2022 Map by: mfalk Projection: State Plane Indiana West	**Project Location Map** **Town of Albion, Dane County, Wisconsin**	**Figure 1**



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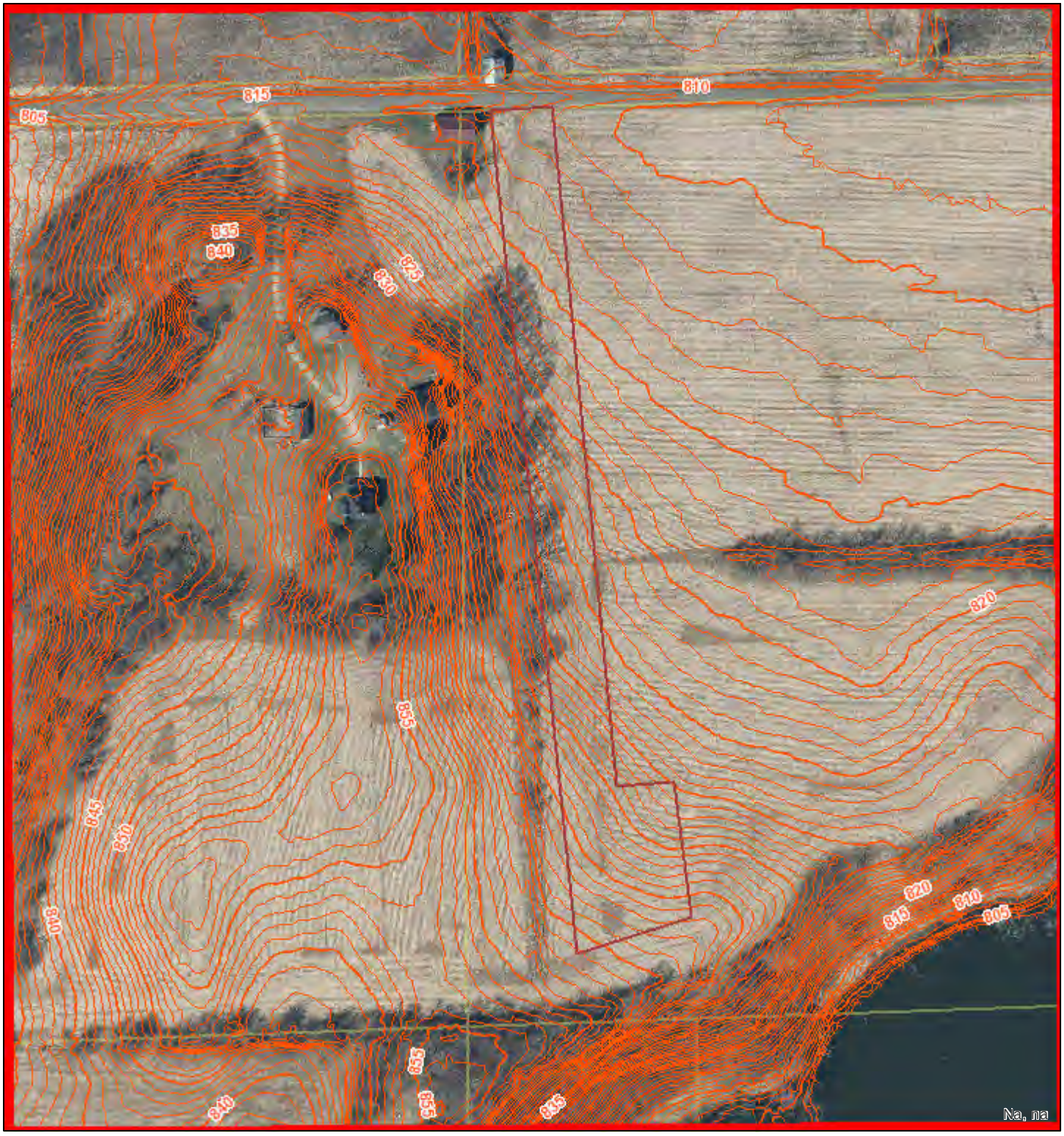
SEH	501 Maple Avenue Delafield, WI 53108 (262) 646-6855	Project: SCHNI 166828 Print Date: 5/12/2022 Map by: mfalk Projection: State Plane Indiana West	**USGS Topographic Map** **Town of Albion, Dane County, Wisconsin**	**Figure 2**

County Contours



April 28, 2022

0 125 250 500 Feet

Dane County Mask

- Dane County Mask

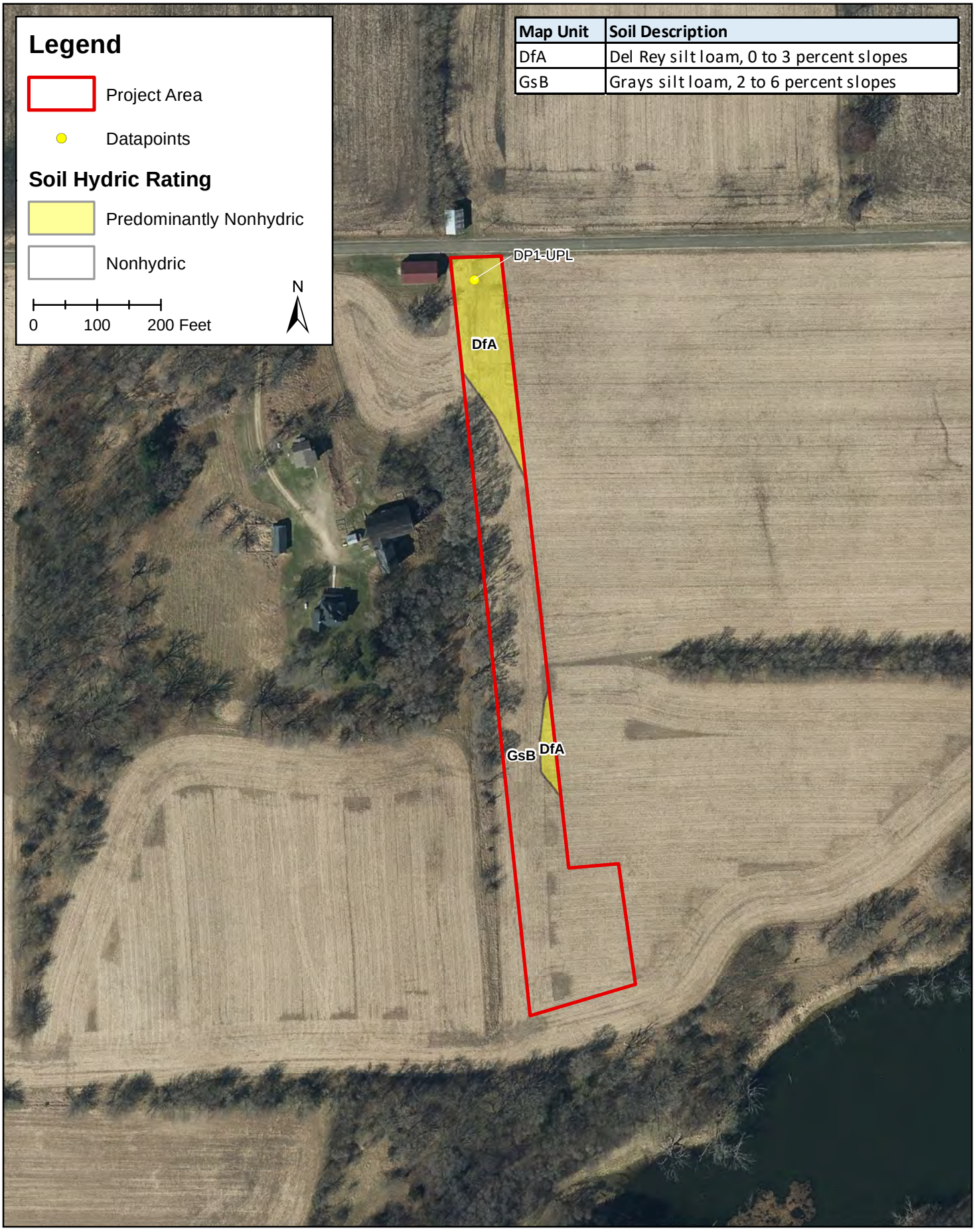
5 foot Intervals

- Index
- Index Depression

1 foot Intervals

- Intermediate
- Intermediate Depression
- Parcels

N



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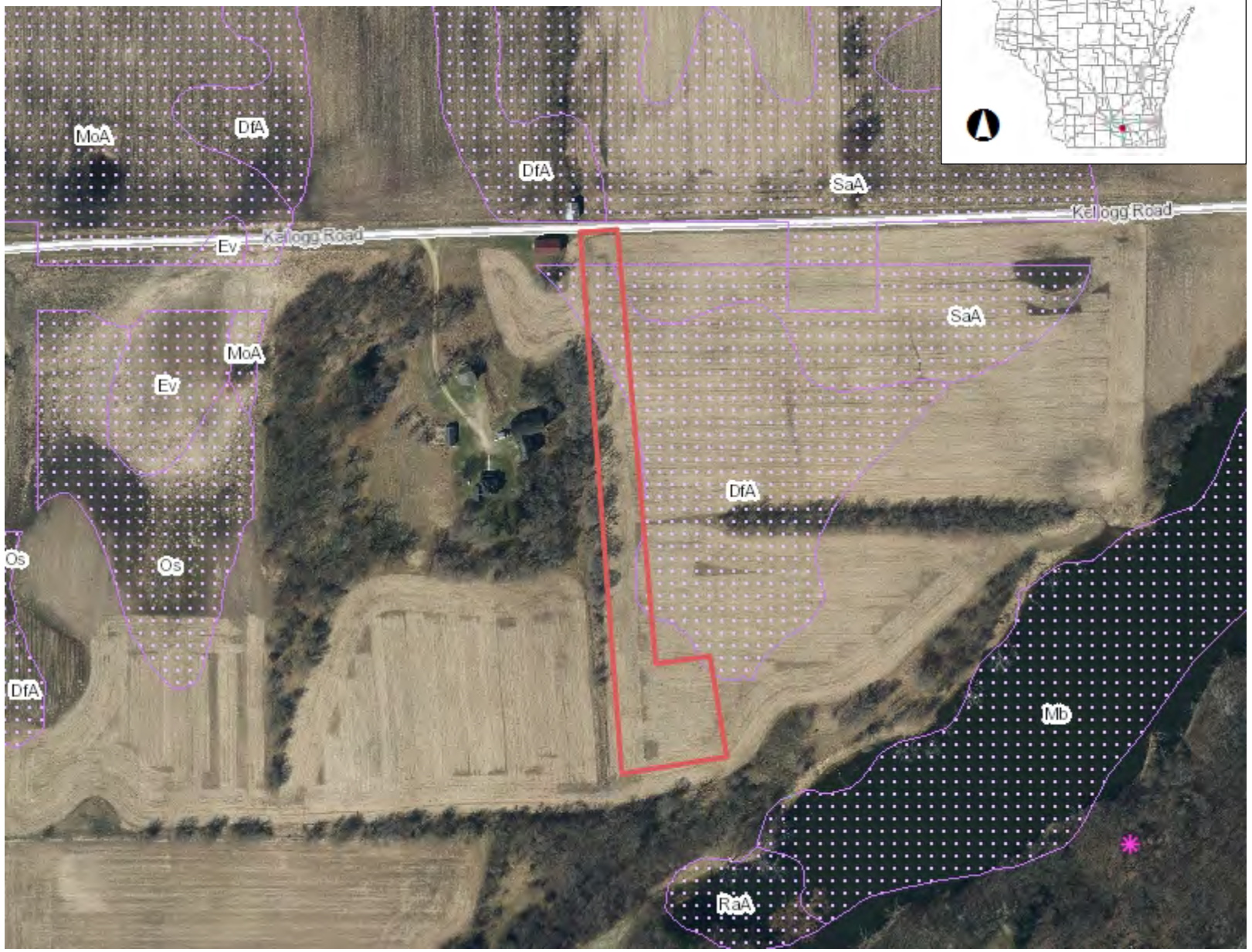
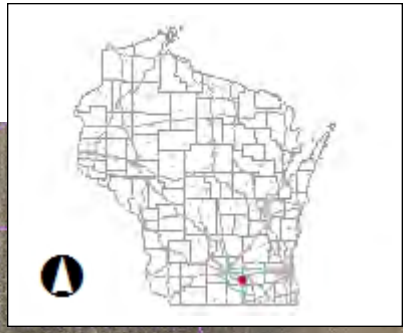
SEH	501 Maple Avenue Delafield, WI 53108 (262) 646-6855	Project: SCHNI 166828 Print Date: 5/12/2022 Map by: mfalk Projection: State Plane Indiana West	**USDA NRCS Soils Data** **Town of Albion, Dane County, Wisconsin**	**Figure 3**

Wetland Indicators





Legend

- Wetland Indicators
- NRCS Wetspots
- Municipality
- State Boundaries
- County Boundaries
- Major Roads
  - Interstate Highway
  - State Highway
  - US Highway
- County and Local Roads
  - County HWY
  - Local Road
- Railroads
- Tribal Lands
- Railroads
- Rivers and Streams
- Intermittent Streams
- Lakes and Open water
- Index to EN_Image_Basemap_Leaf_Off

Notes

0.1 0 0.06 0.1 Miles

NAD_1983_HARN_Wisconsin_TM

1: 3,960

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SEH	501 Maple Avenue Delafield, WI 53108 (262) 646-6855	Project: SCHNI 166828 Print Date: 5/12/2022 Map by: mfalk Projection: State Plane Indiana West	**Wisconsin Wetland Inventory** **Town of Albion, Dane County, Wisconsin**	**Figure 4**

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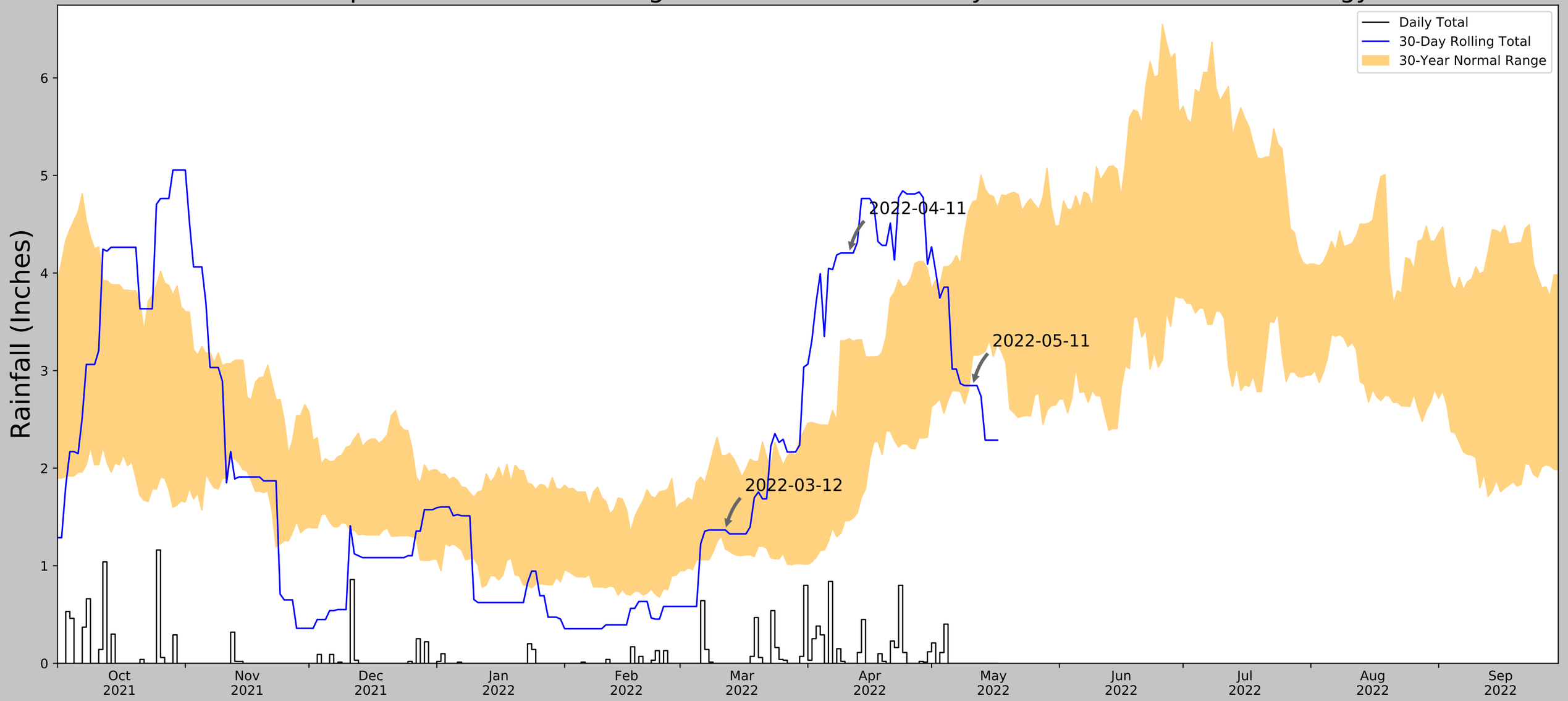
SEH	501 Maple Avenue Delafield, WI 53108 (262) 646-6855	Project: SCHNI 166828 Print Date: 5/12/2022 Map by: mfalk Projection: State Plane Indiana West	**Delineation Results** **Town of Albion, Dane County, Wisconsin**	**Figure 5**

Appendix A

Offsite Hydrology Review & NRCS Climate Data Summary

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



Coordinates	42.91056, -89.02639
Observation Date	2022-05-11
Elevation (ft)	826.56
Drought Index (PDSI)	Moderate drought (2022-04)
WebWIMP H_2O Balance	Dry Season

30 Days Ending	30th %ile (in)	70th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2022-05-11	3.157874	4.73189	2.846457	Dry	1	3	3
2022-04-11	1.462205	3.328347	4.204725	Wet	3	2	6
2022-03-12	1.169685	2.125591	1.366142	Normal	2	1	2
Result							Normal Conditions - 11

Figure and tables made by the
Antecedent Precipitation Tool
Version 1.0

Written by Jason Deters
U.S. Army Corps of Engineers

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days (Normal)	Days (Antecedent)
FT ATKINSON	42.905, -88.8589	799.869	8.485	26.691	4.045	11347	89
STOUGHTON	42.9108, -89.2133	839.895	9.459	13.335	4.383	6	1

2017 Spring Aerial

April 28, 2022

0 125 250 500 Feet

Dane County Mask

Dane County Mask

Parcels

N

WETS Table

WETS Station: STOUGHTON WWTP, WI								
Requested years: 1971 - 2021								
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	27.2	9.7	18.4	1.41	0.83	1.71	4	10.0
Feb	30.7	11.9	21.3	1.48	0.75	1.81	4	9.3
Mar	43.4	23.7	33.5	2.19	1.33	2.66	5	4.4
Apr	57.1	34.9	46.0	3.68	2.64	4.35	7	1.1
May	69.5	46.5	58.0	3.79	2.52	4.54	8	0.0
Jun	79.2	56.4	67.8	4.50	2.86	5.42	7	0.0
Jul	83.0	60.9	72.0	3.94	2.87	4.64	6	0.0
Aug	80.7	58.5	69.6	4.27	2.79	5.13	7	0.0
Sep	73.8	49.8	61.8	3.49	1.93	4.25	6	0.0
Oct	61.1	38.4	49.7	2.74	1.67	3.32	6	0.2
Nov	46.1	27.5	36.8	2.44	1.45	2.97	5	1.8
Dec	32.0	15.4	23.7	1.81	1.20	2.17	4	9.3
Annual:					33.92	40.14		
Average	57.0	36.1	46.6	-	-	-	-	-
Total	-	-	-	35.73			68	36.1

GROWING SEASON DATES			
Years with missing data:	24 deg = 10	28 deg = 8	32 deg = 8
Years with no occurrence:	24 deg = 0	28 deg = 0	32 deg = 0
Data years used:	24 deg = 41	28 deg = 43	32 deg = 43
Probability	24 F or higher	28 F or higher	32 F or higher
50 percent *	4/6 to 11/2: 210 days	4/18 to 10/18: 183 days	5/1 to 10/7: 159 days
70 percent *	4/1 to 11/7: 220 days	4/14 to 10/23: 192 days	4/27 to 10/12: 168 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
1931		0.39	2.02	1.15	2.62	M4.26	2.46	M2.67	6.07	M3.57	5.36	0.92	31.49
1932	1.04	0.81	1.73	0.95	2.04	2.90	3.41	M1.96	0.04	3.58	1.09	1.56	21.11
1933	0.47	0.86	3.25	M3.24	8.91	1.52	2.94	1.97	3.48	1.80	0.31	0.92	29.67
1934	0.68	0.13	0.78	1.41	0.55	2.65	3.95	1.69	5.15	1.93	7.26	1.05	27.23
1935	1.40	1.37	1.11	1.73	2.65	6.02	3.80	3.05	1.09	1.30	3.29	0.59	27.40
1936	1.60	1.77	0.49	1.10	0.78	2.41	1.50	9.11	4.30	3.14	0.38	2.57	29.15
1937	3.05	2.25	1.40	4.09	1.59	4.05	1.26	1.37	2.02	2.65	0.87	1.07	25.67
1938	2.22	M2.30	2.01	M1.85	3.65	5.62	3.90	4.96	10.35	0.97	2.37	0.88	41.08
1939	2.67	1.84	1.56	3.27	0.97	2.91	2.37	1.74	1.	2.	0.33	0.40	21.

									31	13			50
1940	1.39	1.21	0.89	2.38	2.92	4.35	3.78	M7.68	0.71	2.26	2.69	1.03	31.29
1941	1.87	0.72	1.61	2.10	6.05	3.48	3.74	0.91	6.34	3.67	0.74	1.60	32.83
1942	1.11	0.47	0.93	0.82	5.42	2.81	2.19	2.33	5.39	2.01	3.40	2.40	29.28
1943	1.93	0.57	3.44	2.58	2.50	2.59	2.29	3.15	1.98	1.52	1.37	0.73	24.65
1944	1.66	2.00	2.62	2.85	3.64	7.59	2.16	3.72	2.74	0.24	3.00	M1.45	33.67
1945	0.54	1.28	1.36	3.03	6.18	2.31	2.02	5.30	5.44	0.49	2.68	1.28	31.91
1946	2.59	0.86	2.98	0.83	1.85	3.95	0.38	3.48	3.40	1.29	2.35	2.13	26.09
1947	2.46	0.17	1.69	5.43	4.23	4.95	3.76	3.99	4.86	1.24	M2.49	1.67	36.94
1948	M0.58	2.30	3.77	3.02	4.73	3.67	1.25	2.34	2.57	1.30	2.99	2.07	30.59
1949	2.56	1.65	2.15	1.08	2.03	6.35	3.81	1.54	1.45	1.98	1.04	1.94	27.58
1950	2.73	1.31	1.96	3.71	3.82	4.36	7.58	1.36	2.78	0.81	1.00	1.98	33.40
1951	1.50	2.13	2.55	5.12	3.79	3.90	2.63	3.74	2.59	6.42	2.04	1.29	37.70
1952	2.12	0.54	2.96	1.42	2.49	3.64	5.47	5.64	0.56	0.08	3.79	2.05	30.76
1953	0.95	2.35	1.87	2.77	1.90	2.36	4.84	2.12	2.84	0.96	0.37	2.17	25.50
1954	0.62	0.48	1.18	4.99	2.39	7.66	3.81	3.15	3.27	5.17	0.83	1.33	34.88
1955	0.78	1.33	1.13	2.95	2.67	M4.33	5.75	3.45	1.37	3.09	0.49	0.82	28.16
1956	0.29	0.84	1.45	3.97	2.34	2.17	2.72	5.51	1.36	0.50	2.22	1.25	24.62
1957	0.43	0.41	1.14	2.89	5.38	4.07	2.38	3.81	0.80	1.29	3.44	2.06	28.10
1958	0.71	0.05	0.53	2.87	1.27	2.87	2.69	1.01	3.76	2.80	2.40	0.29	21.25
1959	1.23	1.42	2.81	3.88	1.77	2.85	6.05	5.06	4.75	6.08	2.00	2.56	40.46
1960	3.00	0.81	1.11	3.70	6.10	3.31	5.00	8.30	4.59	2.77	1.94	0.23	40.86
1961	0.15	0.93	4.14	2.32	1.64	2.28	6.25	0.67	10.67	4.69	2.81	1.14	37.69
1962	1.55	1.74	1.74	1.85	2.97	2.87	4.74	M0.77	1.49	1.89	0.43	0.80	22.84
1963	0.77	0.42	2.27	2.31	2.00	5.18	4.62	3.29	2.50	0.34	2.40	0.58	26.68
1964	1.05	0.22	3.46	3.61	3.59	3.97	3.86	3.27	1.31	0.24	1.83	0.41	26.82
1965	2.33	1.13	2.41	5.22	3.65	1.09	4.32	4.33	9.63	1.81	1.61	2.25	39.78
1966	1.12	1.33	2.57	2.18	4.89	3.73	3.65	4.79	1.53	2.74	1.45	2.16	32.14
1967	1.43	1.22	1.50	2.31	3.86	8.39	2.41	2.73	2.81	5.42	1.72	0.94	34.74
1968	0.63	0.67	0.48		2.51	8.66	2.88	2.12	5.73	0.80	1.63	3.17	29.28
1969	1.80	0.24	1.48	3.07	2.13	7.50	3.16	0.76	1.14	3.01	0.81	1.02	26.12
1970	0.44	0.27	0.79	2.52	6.26	3.37	3.82	1.34	7.82	3.28	1.16	0.84	31.91
1971	1.23	2.75	1.32	1.83	1.12	4.06	3.20	4.32	2.68	1.32	3.09	3.63	30.55
1972	0.57	0.51	1.73	2.84	3.97	1.59	6.80	4.99	4.75	3.09	0.85	2.04	33.73
1973	1.70	1.50	3.35	7.40	6.38	2.58	1.43	2.61	5.	2.	1.78	2.05	38.

									10	42			30
1974	2.60	1.57	3.70	4.31	4.90	4.68	3.75	3.56	0.54	1.81	1.59	1.67	34.68
1975	1.60	1.51	4.19	2.72	3.61	4.14	5.10	4.03	0.81	0.35	M1.45	M0.23	29.74
1976	0.79	2.09	M1.15	M3.04	M2.92	1.87	M0.99	3.85	0.71	1.65	0.17	0.44	19.67
1977	M0.34	1.06	3.40	2.85	M2.49	2.08	4.71	3.15	M1.00	M2.24	M1.81	1.60	26.73
1978	M0.52			3.34	3.79	6.19	6.35	1.23	5.65	1.36	M2.32	M1.60	32.35
1979	2.67	0.54	2.77		1.07	3.68	3.95	7.39	0.11	2.90	3.07	1.97	30.12
1980	1.36	0.37	0.38	2.57	1.68	5.94	3.35	6.37	7.09	1.10	0.90	1.38	32.49
1981	0.33	2.58	0.56	4.46	0.88	4.88	2.35	8.50	7.91	3.93	1.78	0.96	39.12
1982	M2.19	0.03	2.12	3.78	3.58	3.36	7.36	3.19	0.48	2.54	5.19	3.34	37.16
1983	0.34	1.67	1.48	1.83	3.52	2.02	1.72	3.69	2.57	1.61	2.20	2.16	24.81
1984	0.43	0.49	1.45	4.86	5.38	4.31	3.57	1.96	3.42	5.91	2.62	M2.55	36.95
1985	1.23	2.07	2.68	1.70	3.65	2.67	2.90	3.03	3.48	5.38	6.63	1.32	36.74
1986	M0.76	2.06	1.26	2.54	2.98	2.62	3.44	3.53	8.86				28.05
1987							5.27	7.81	4.56	1.17	3.38	M2.35	24.54
1988		M0.23	1.25	4.68	1.15	1.72	M1.72	3.82	2.74	1.95	3.97	2.55	25.78
1989	0.40	0.92	M1.43	M1.51	1.25	1.55	6.67		2.51	1.64		0.55	18.43
1990	1.55	M1.15	3.68	2.74	4.88	4.09	2.47	3.95	0.91	3.09	1.73	2.11	32.35
1991	M0.84	0.28	1.85	1.55	3.97	4.04	2.58	2.79	4.92	5.77	5.39	1.28	35.26
1992	0.70	1.53	2.13	2.80	0.87	0.62	5.57	M2.05	5.89	1.12	4.88	M2.63	30.79
1993	2.03	1.51	2.69	6.88	3.99	7.56	4.02	2.56	5.08	0.78	1.73	0.67	39.50
1994	M1.44	2.64	0.61	1.69	1.75	5.26	2.47	7.42	4.42	0.70	2.72	0.73	31.85
1995	1.86	0.03	2.18	4.55	M4.45								13.07
1996													
1997									0.90	1.36	1.44	1.11	4.81
1998	M1.95	1.68	3.72	5.39	M4.88	6.85	2.04	5.19	2.47	4.23	1.50	M0.59	40.49
1999	M3.15	1.11	M0.55	7.85	6.84	5.07	4.69	2.51	2.38	0.90	1.65	1.39	38.09
2000	M0.98	2.79	1.01	3.03	6.01	6.92	2.63	3.58	4.61	0.69	1.79	2.11	36.15
2001	2.34	M3.23	0.44	4.51	5.61	3.74	1.86	7.46	7.26	3.07	2.13	1.68	43.33
2002	M0.41	M1.90	4.01	4.08	3.71	3.91	2.39	3.82	4.47	3.46	0.62	M0.88	33.66
2003	0.22	0.27	1.66	1.72	5.23	3.59	6.26	1.17	3.67	1.72	6.06	2.12	33.69
2004	0.58	1.02	4.37	2.15	11.19	4.19	4.65	3.80	1.28	2.72	2.24	1.56	39.75
2005	3.14	1.53	1.31	2.06	3.26	4.06	4.85	2.43	1.59	0.51	3.77	0.93	29.44
2006	2.27	1.02	3.11	5.20	M4.34	4.99	5.29	6.29	3.10	3.66	3.46	1.24	43.97
2007	1.24	2.45	2.81	4.98	M1.37	4.12	2.03	16.40	2.05	2.93	0.44	4.75	45.57

2008	1.79	3.34	1.90	7.00	2.81	9.57	4.42	1.86	3.89	2.19	1.58	3.16	43.51
2009	M0.87	1.77	6.91	5.05	2.61	4.30	2.06	3.64	2.84	4.36	1.73	3.89	40.03
2010	0.84	M0.56	1.39	M3.34	3.84	6.73	8.91	2.55	2.62	3.23	1.91	1.35	37.27
2011	0.90	M0.87	3.05	M3.06	2.26	M2.92	M2.34	2.05	M2.33	1.38	M1.63	M2.01	24.80
2012	M0.41	1.10	M2.20	M0.72	M2.44	M0.17	M3.84	M2.12	M1.81	4.49	1.04	M2.71	23.05
2013	2.80	M3.00	2.11	7.07	5.27	M11.90	3.88	1.74	2.75	2.50	3.42	1.38	47.82
2014	1.12	1.36	1.17	4.89	3.39	6.47	4.04	4.21	3.16	3.80	M1.66	1.04	36.31
2015	0.72	0.70	0.47	3.00	4.61	4.09	3.61	3.04	5.39	1.74	5.64	3.51	36.52
2016	0.55	0.64	4.07	2.08	3.04	5.64	4.77	5.80	4.34	3.72	2.80	1.97	39.42
2017	2.43	1.34	2.69	6.80	3.62	7.55	6.60	3.99	0.70	4.82	1.16	0.67	42.37
2018	2.17	3.54	0.75	1.87	8.12	10.50	2.68	9.45	7.00	7.09	M1.55	1.86	56.58
2019	3.10	3.19	M0.96	3.24	6.33	3.19	4.35	5.72	5.19	5.98	3.16	1.75	46.16
2020	1.92	1.18	3.00	M2.81	4.60	4.34	3.23	0.85	4.72	2.67	1.87	1.63	32.82
2021	1.69	M0.90	1.00	1.67	2.97	5.11	1.98	5.07	1.63	4.64	0.46	1.65	28.77
2022	0.51	0.64	M3.48	M2.06									6.69
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: 2022-04-21													

WETS Analysis Worksheet Stoughton WWTP WETS Table

Actual Precipitation			Climatic Averages (WETS)			WETS Analysis				Determination	
Year	**Months***	**PPT**	**30% Less**	**Normal****	**30% More**	**Condition**	**Condition Value*****	**Month Weight**	**Product********		
2020 spring	January	1.92	0.83	1.41	1.71	Wet	3	1	3	X	Wet
	February	1.18	0.75	1.48	1.81	Normal	2	2	4	-	Dry
	March	3.00	1.33	2.19	2.66	Wet	3	3	9	-	Normal
Totals		**6.10**		**5.08**					**16**		
2020 summer	April	2.81	2.64	3.68	4.35	Normal	2	1	2	-	Wet
	May	4.60	2.52	3.79	4.54	Wet	3	2	6	-	Dry
	June	4.34	2.86	4.50	5.42	Normal	2	3	6	X	Normal
Totals		**11.75**		**11.97**					**14**		
2017 Spring	January	2.43	0.83	1.41	1.71	Wet	3	1	3	X	Wet
	February	1.34	0.75	1.48	1.81	Normal	2	2	4	-	Dry
	March	2.69	1.33	2.19	2.66	Wet	3	3	9	-	Normal
Totals		**6.46**		**5.08**					**16**		
2015 Summer	April	3.00	2.64	3.68	4.35	Normal	2	1	2	-	Wet
	May	4.61	2.52	3.79	4.54	Wet	3	2	6	-	Dry
	June	4.09	2.86	4.50	5.42	Normal	2	3	6	X	Normal
Totals		**11.70**		**11.97**					**14**		
2014 Spring	January	1.12	0.83	1.41	1.71	Normal	2	1	2	-	Wet
	February	1.36	0.75	1.48	1.81	Normal	2	2	4	X	Dry
	March	1.17	1.33	2.19	2.66	Dry	1	3	3	-	Normal
Totals		**3.65**		**5.08**					**9**		
2013 Summer	April	7.07	2.64	3.68	4.35	Wet	3	1	3	X	Wet
	May	5.27	2.52	3.79	4.54	Wet	3	2	6	-	Dry
	June	11.90	2.86	4.50	5.42	Wet	3	3	9	-	Normal
Totals		**24.24**		**11.97**					**18**		
2010 Spring	January	0.84	0.83	1.41	1.71	Normal	2	1	2	-	Wet
	February	0.56	0.75	1.48	1.81	Dry	1	2	2	-	Dry
	March	1.39	1.33	2.19	2.66	Normal	2	3	6	X	Normal
Totals		**2.79**		**5.08**					**10**		
2008 Summer	April	7.00	2.64	3.68	4.35	Wet	3	1	3	X	Wet
	May	2.81	2.52	3.79	4.54	Normal	2	2	4	-	Dry
	June	9.57	2.86	4.50	5.42	Wet	3	3	9	-	Normal
Totals		**19.38**		**11.97**					**16**		
2005 spring	January	3.14	0.83	1.41	1.71	Wet	3	1	3	-	Wet
	February	1.53	0.75	1.48	1.81	Normal	2	2	4	-	Dry
	March	1.31	1.33	2.19	2.66	Dry	1	3	3	X	Normal
Totals		**5.98**		**5.08**					**10**		
2000 spring	January	0.98	0.83	1.41	1.71	Normal	2	1	2	-	Wet
	February	2.79	0.75	1.48	1.81	Wet	3	2	6	-	Dry
	March	1.01	1.33	2.19	2.66	Dry	1	3	3	X	Normal
Totals		**4.78**		**5.08**					**11**		
1995 spring	January	1.86	0.83	1.41	1.71	Wet	3	1	3	-	Wet
	February	0.03	0.75	1.48	1.81	Dry	1	2	2	-	Dry
	March	2.18	1.33	2.19	2.66	Normal	2	3	6	X	Normal
Totals		**4.07**		**5.08**					**11**		
1974 spring	January	2.60	0.83	1.41	1.71	Wet	3	1	3	X	Wet
	February	1.57	0.75	1.48	1.81	Normal	2	2	4	-	Dry
	March	3.70	1.33	2.19	2.66	Wet	3	3	9	-	Normal
Totals		**7.87**		**5.08**					**16**		
1968 spring	January	0.63	0.83	1.41	1.71	Dry	1	1	1	-	Wet
	February	0.67	0.75	1.48	1.81	Dry	1	2	2	X	Dry
	March	0.48	1.33	2.19	2.66	Dry	1	3	3	-	Normal
Totals		**1.78**		**5.08**					**6**		
1955 spring	January	0.78	0.83	1.41	1.71	Dry	1	1	1	-	Wet
	February	1.33	0.75	1.48	1.81	Normal	2	2	4	X	Dry
	March	1.13	1.33	2.19	2.66	Dry	1	3	3	-	Normal
Totals		**3.24**		**5.08**					**8**		
1937 spring	January	3.05	0.83	1.41	1.71	Wet	3	1	3	-	Wet
	February	2.25	0.75	1.48	1.81	Wet	3	2	6	X	Dry
	March	1.40	1.33	2.19	2.66	Normal	2	3	6	-	Normal
Totals		**6.70**		**5.08**					15		

Notes: *Months prior to photograph date - FSA slides assumed to be taken in July per FSA office

**Normal precipitation with 30% to 70% probability of occurrence

***Condition value:

Dry =	1
Normal =	2
Wet =	3

****If sum is:

6 to 9	then period has been drier than normal
10 to 14	then period has been normal
15 to 18	then period has been wetter than normal

References: Donald E.Woodward, ed. 1997. *Hydrology Tools for Wetland Determination* , Chapter 19. Engineering Field Handbook. U.S. Department of Agriculture, Natural Resources Conservation Service, Fort Worth, TX.

Exhibit 1 Field data sheet reference (if applicable): _____

Wetland Hydrology from Aerial Imagery – Recording Form

Project Name: Schremp Property Date: 5/9/2022 County: Dane

Investigator: Erica Pergande Legal Description (T, R, S): T5N R12E Sec 12

Summary Table

Date Image Taken (M-D-Y)	Image Source	Climate Condition (wet, dry, normal)[i]	Image Interpretation(s)				
			Area: 1	Area: 2	Area:	Area:	Area:
4/2020	Dane County	wet	nss				
7/2020	NAIP	normal	nss				
4/2017	Dane County	wet	nss				
7/2015	NAIP	normal	nss				
4/2014	Dane County	dry	nss				
7/2013	NAIP	wet	nss				
4/2010	Dane County	normal	ss				
7/2008	NAIP	wet	nss				
4/2005	Dane County	normal	nss				
4/2000	Dane County	normal	nss				
4/1995	Dane County	normal	nss				
4/1974	Dane County	wet	nss				
4/1968	Dane County	dry	nss				
4/1957	Dane County	dry	nss				
4/1937	Dane County	dry	nss				

Normal Climate Condition	Area: 1	Area: 2	Area:	Area:	Area:
Number	6				
Number with wet signatures	1				
Percent with wet signatures	16.6				

KEY		
WS - wetland signature	SS - soil wetness 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:		

- 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.

[i] Use MN State Climatology website to determine climate condition when image was taken.

Exhibit 2 Field data sheet reference (if applicable): _____

Wetland Determination from Aerial Imagery – Recording Form

Project Name: Schremp property Date: 5/9/2022 County: Dane

Investigator: Erica Pergande Legal Description (T, R, S): T5N R12E Sec 12

Use the Decision Matrix below to complete Table 1.

Hydric Soils present[1]	Identified on NWI or other wetland map[2]	Percent with wet signatures from Exhibit 1	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 present
Yes	No	>50%	No	Yes
Yes	No	30-50%	Yes	Yes, if other hydrology indicators 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 present
No	No	30-50%	Yes	Yes, if other hydrology indicators present
No	No	<30%	No	No

[1] The 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.

[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).

Table 1.

Area	Hydric Soils Present	Identified on NWI or other wetland map	Percent with wet signatures from Exhibit 1	Other hydrology indicators present[1]	Wetland?
1	No	No	16.6	No	No

[1] Answer "N/A" if field verification is not required and was not conducted.

1937 Spring Aerial

April 28, 2022

0 125 250 500 Feet

Dane County Mask

Dane County Mask

Parcels

N

1957 Spring Aerial

April 28, 2022

0 125 250 500 Feet

Dane County Mask

Dane County Mask

Parcels

N

1968 Spring Aerial

April 28, 2022

0 125 250 500 Feet

Dane County Mask

Dane County Mask

Parcels

N

1974 Spring Aerial

April 28, 2022

0 125 250 500 Feet

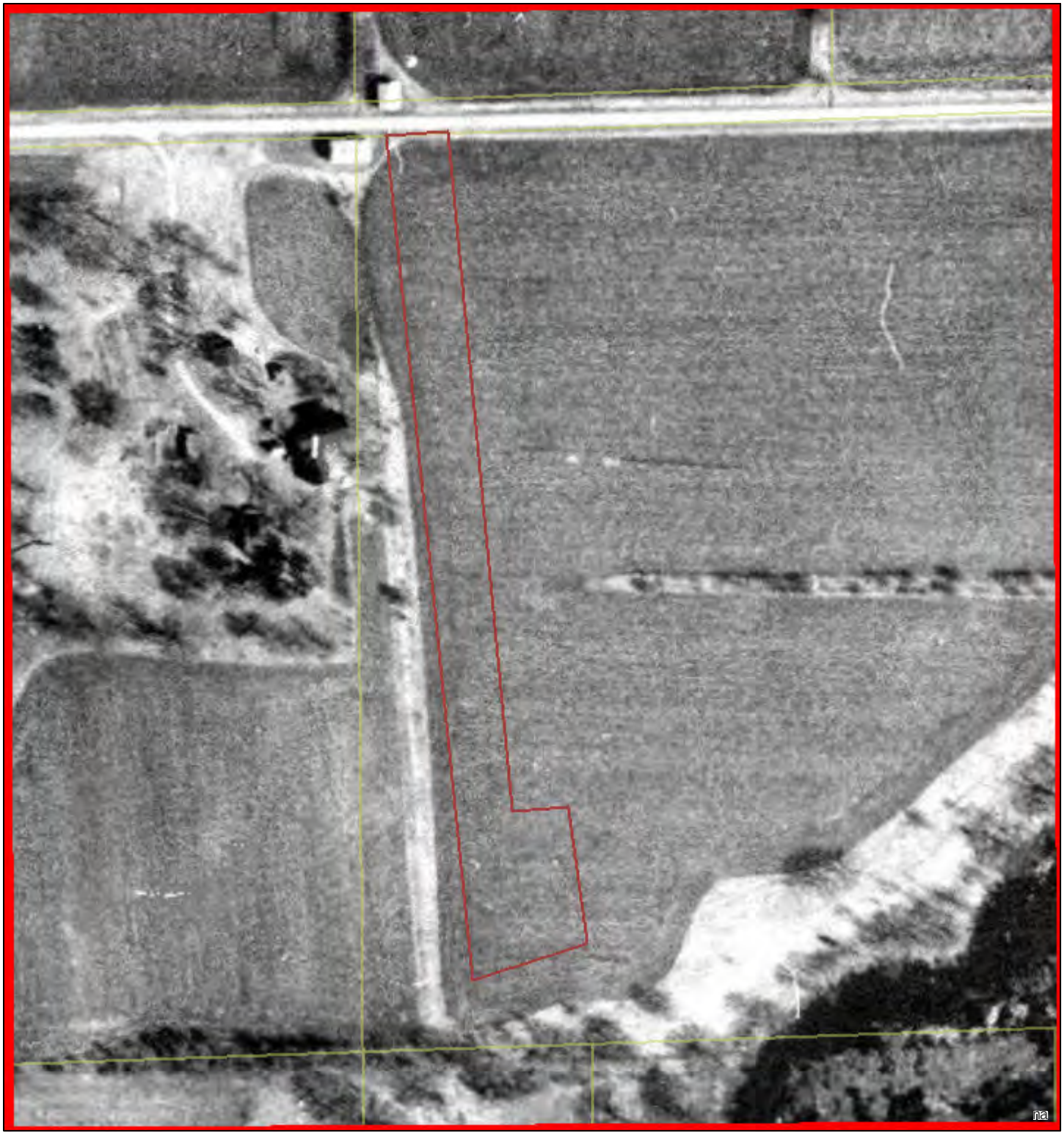
Dane County Mask

Dane County Mask

Parcels

N

1995 Spring Aerial



April 28, 2022

0 125 250 500 Feet

Dane County Mask

Dane County Mask

Parcels

N

2000 Spring Aerial

April 28, 2022

0 125 250 500 Feet

Dane County Mask

Dane County Mask

Parcels

N

2005 Spring Aerial

April 28, 2022

0 125 250 500 Feet

Dane County Mask

Dane County Mask

Parcels

N

2008 Summer Aerial

Legend

- Municipality
- State Boundaries
- County Boundaries
- Major Roads
  - Interstate Highway
  - State Highway
  - US Highway
- County and Local Roads
  - County HWY
  - Local Road
- Railroads
- Tribal Lands
- Railroads
- Rivers and Streams
- Intermittent Streams
- Lakes and Open water

Notes

0.1 0 0.06 0.1 Miles

NAD_1983_HARN_Wisconsin_TM

1: 3,960

2010 Spring Aerial

April 28, 2022

0 125 250 500 Feet

Dane County Mask

Dane County Mask

Parcels

N

2013 Summer Aerial

Legend

- Municipality
- State Boundaries
- County Boundaries
- Major Roads
  - Interstate Highway
  - State Highway
  - US Highway
- County and Local Roads
  - County HWY
  - Local Road
- Railroads
- Tribal Lands
- Railroads
- Rivers and Streams
- Intermittent Streams
- Lakes and Open water

Notes

0.1 0 0.06 0.1 Miles

NAD_1983_HARN_Wisconsin_TM

1: 3,960

2014 Spring Aerial

April 28, 2022

0 125 250 500 Feet

Dane County Mask

Dane County Mask

Parcels

N

2015 Summer Aerial

Legend

- Municipality
- State Boundaries
- County Boundaries
- Major Roads
  - Interstate Highway
  - State Highway
  - US Highway
- County and Local Roads
  - County HWY
  - Local Road
- Railroads
- Tribal Lands
- Railroads
- Rivers and Streams
- Intermittent Streams
- Lakes and Open water

Notes

0.1 0 0.06 0.1 Miles

NAD_1983_HARN_Wisconsin_TM

1: 3,960

2017 Spring Aerial

April 28, 2022

0 125 250 500 Feet

Dane County Mask

Dane County Mask

Parcels

N

2020 Spring Aerial

April 28, 2022

0 125 250 500 Feet

Dane County Mask

Dane County Mask

Parcels

N

2020 Summer Aerial

Legend

- Municipality
- State Boundaries
- County Boundaries
- Major Roads
  - Interstate Highway
  - State Highway
  - US Highway
- County and Local Roads
  - County HWY
  - Local Road
- Railroads
- Tribal Lands
- Railroads
- Rivers and Streams
- Intermittent Streams
- Lakes and Open water

Notes

0.1 0 0.06 0.1 Miles

NAD_1983_HARN_Wisconsin_TM

1: 3,960

Appendix B

Data Sheets

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Schremp City/County: Albion/Dane Sampling Date: 2022-05-11

Applicant/Owner: Nick Schremp State: Wisconsin Sampling Point: DP 1UPL

Investigator(s): Erica Pergande Section, Township, Range: SEC 12, T05N, R12E

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): 2

Subregion (LRR or MLRA): _____ Lat: 42.9131184 Long: -89.0277055 Datum: WGS 84

Soil Map Unit Name: DfA-Del Rey silt loam NWI classification: N/A

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

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

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

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

Hydrophytic Vegetation Present?	Yes _____	No ✔	**Is the Sampled Area within a Wetland?** Yes _____ No ✔
Hydric Soil Present?	Yes _____	No ✔	If yes, optional Wetland Site ID: _____
Wetland Hydrology Present?	Yes _____	No ✔	

Remarks: (Explain alternative procedures here or in a separate report.)

Area is actively farmed

HYDROLOGY

Wetland Hydrology Indicators:

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

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Vis ble on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

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

Wetland Hydrology Present? Yes _____ No ✔

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

Remarks:

Wetland hydrology is neither present nor indicated

VEGETATION – Use scientific names of plants. Sampling Point: DP 1UPL

Tree Stratum (Plot size: 30 ft r)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: 15 ft r)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		
Herb Stratum (Plot size: 5 ft r)			
1. Symphytum officinale	10	✔	UPL
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	10% = Total Cover		
Woody Vine Stratum (Plot size: 30 ft r)			
1.			
2.			
3.			
4.			
	= Total Cover		

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	0	x 4 =	0
UPL species	10	x 5 =	50
Column Totals:	10 (A)		50 (B)

Prevalence Index = B/A = 5.0

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

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

___ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes _____ No ✔

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

Other plants adjacent to the plot included common dandelion (Taraxacum officinale).

SOIL

Sampling Point: DP 1UPL

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

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0 - 12	10YR 3/2	100					Silt Loam	
12 - 18	10YR 3/3	100					Clay Loam	
18 - 22	10YR 4/4	100					Clay	
-								
-								
-								
-								
-								
-								
-								
-								
-								

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) (**LRR R, MLRA 149B**)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** _____ **No** ✔

Remarks:

Soils do not meet any hydric indicators

Appendix C

Site Photos

Site Photos

Photo 1: Culvert crossing under road adjacent to farm field. This ditch and culvert is most likely catching any road runoff adjacent to the farm field.

Site Photos

Photo 2: Farm field facing east

Photo 3: Farm field facing south

Site Photos

Photo 4: Data point 1UPL

Site Photos

Photo 5: Farmed area and data point 1UPL facing south

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