

Appendix J

Wetland Delineation Report and Agency Coordination

MEMORANDUM

Date: August 4, 2021

**Re: Wetland Delineation Report
Winnebago Solar and Storage Project, Faribault County, Minnesota**

Westwood File 0027810.00

To: Shane Johnson, Program Technician, Faribault County SWCD
USACE PM for Faribault County

Cc: Michelle Matthews, Winnebago Solar and Storage LLC
From: Bobby Cress

Please find enclosed the completed Joint Application Form for Activities Affecting Water Resources in Minnesota and the Wetland Delineation Report for the Winnebago Solar and Storage Project located in Faribault County, Minnesota. With this submittal Winnebago Solar and Storage LLC (the Applicant) is respectfully requesting approval of the delineated wetland boundaries and an Approved Jurisdictional Determination from the USACE.

Please review the enclosed report and feel free to contact me with questions at (952) 697-5780 or Bobby.Cress@westwoodps.com.

PART ONE: Applicant Information

If applicant is an entity (company, government entity, partnership, etc.), an authorized contact person must be identified. If the applicant is using an agent (consultant, lawyer, or other third party) and has authorized them to act on their behalf, the agent's contact information must also be provided.

Applicant/Landowner Name: Winnebago Solar and Storage LLC Attn: Michelle Matthews, Senior Director of Development

Mailing Address: 2147 University Avenue West, Suite 204
St. Paul, MN 55114

Phone: (612) 590-8653

E-mail Address: mmatthews@glidepath.net

Authorized Contact (do not complete if same as above):

Mailing Address:

Phone:

E-mail Address:

Agent Name: Robert Cress, Westwood Professional Services, Inc.

Mailing Address: 12701 Whitewater Drive, Suite 300
Minnetonka, MN 55343

Phone: 952-697-5780

E-mail Address: Bobby.Cress@westwoodps.com

PART TWO: Site Location Information

County: Faribault

City/Township: Prescott and Verona Townships - See Table

Parcel ID and/or Address: N/A

Legal Description (Section, Township, Range):

Township	Range	Sections
T103N	R28W	11, 12, 13
T103N	R27W	7, 18

Lat/Long (decimal degrees): 43.733102, -94.127855

Attach a map showing the location of the site in relation to local streets, roads, highways. See Exhibit 1

Approximate size of site (acres) or if a linear project, length (feet): Approximately 1,311 acres

If you know that your proposal will require an individual Permit from the U.S. Army Corps of Engineers, you must provide the names and addresses of all property owners adjacent to the project site. This information may be provided by attaching a list to your application or by using block 25 of the Application for Department of the Army permit which can be obtained at:

http://www.mvp.usace.army.mil/Portals/57/docs/regulatory/RegulatoryDocs/engform_4345_2012oct.pdf

PART THREE: General Project/Site Information

If this application is related to a delineation approval, exemption determination, jurisdictional determination, or other correspondence submitted **prior to** this application then describe that here and provide the Corps of Engineers project number.

Describe the project that is being proposed, the project purpose and need, and schedule for implementation and completion. The project description must fully describe the nature and scope of the proposed activity including a description of all project elements

that effect aquatic resources (wetland, lake, tributary, etc.) and must also include plans and cross section or profile drawings showing the location, character, and dimensions of all proposed activities and aquatic resource impacts.

PART FOUR: Aquatic Resource Impact¹ Summary

If your proposed project involves a direct or indirect impact to an aquatic resource (wetland, lake, tributary, etc.) identify each impact in the table below. Include all anticipated impacts, including those expected to be temporary. Attach an overhead view map, aerial photo, and/or drawing showing all of the aquatic resources in the project area and the location(s) of the proposed impacts. Label each aquatic resource on the map with a reference number or letter and identify the impacts in the following table.

Aquatic Resource ID (as noted on overhead view)	Aquatic Resource Type (wetland, lake, tributary etc.)	Type of Impact (fill, excavate, drain, or remove vegetation)	Duration of Impact Permanent (P) or Temporary (T) ¹	Size of Impact ²	Overall Size of Aquatic Resource ³	Existing Plant Community Type(s) in Impact Area ⁴	County, Major Watershed #, and Bank Service Area # of Impact Area ⁵

¹If impacts are temporary; enter the duration of the impacts in days next to the "T". For example, a project with a temporary access fill that would be removed after 220 days would be entered "T (220)".

²Impacts less than 0.01 acre should be reported in square feet. Impacts 0.01 acre or greater should be reported as acres and rounded to the nearest 0.01 acre. Tributary impacts must be reported in linear feet of impact and an area of impact by indicating first the linear feet of impact along the flowline of the stream followed by the area impact in parentheses). For example, a project that impacts 50 feet of a stream that is 6 feet wide would be reported as 50 ft (300 square feet).

³This is generally only applicable if you are applying for a de minimis exemption under MN Rules 8420.0420 Subp. 8, otherwise enter "N/A".

⁴Use *Wetland Plants and Plant Community Types of Minnesota and Wisconsin* 3rd Ed. as modified in MN Rules 8420.0405 Subp. 2.

⁵Refer to Major Watershed and Bank Service Area maps in MN Rules 8420.0522 Subp. 7.

If any of the above identified impacts have already occurred, identify which impacts they are and the circumstances associated with each:

PART FIVE: Applicant Signature

☐ Check here if you are requesting a pre-application consultation with the Corps and LGU based on the information you have provided. Regulatory entities will not initiate a formal application review if this box is checked.

By signature below, I attest that the information in this application is complete and accurate. I further attest that I possess the authority to undertake the work described herein.

Signature: _____ Date: _____

I hereby authorize Westwood Professional Services, Inc. to act on my behalf as my agent in the processing of this application and to furnish, upon request, supplemental information in support of this application.

¹ The term "impact" as used in this joint application form is a generic term used for disclosure purposes to identify activities that may require approval from one or more regulatory agencies. For purposes of this form it is not meant to indicate whether or not those activities may require mitigation/replacement.

Attachment A

Request for Delineation Review, Wetland Type Determination, or Jurisdictional Determination

By submission of the enclosed wetland delineation report, I am requesting that the U.S. Army Corps of Engineers, St. Paul District (Corps) and/or the Wetland Conservation Act Local Government Unit (LGU) provide me with the following (check all that apply):

☒ **Wetland Type Confirmation**

☒ **Delineation Concurrence.** Concurrence with a delineation is a written notification from the Corps and a decision from the LGU concurring, not concurring, or commenting on the boundaries of the aquatic resources delineated on the property. Delineation concurrences are generally valid for five years unless site conditions change. Under this request alone, the Corps will not address the jurisdictional status of the aquatic resources on the property, only the boundaries of the resources within the review area (including wetlands, tributaries, lakes, etc.).

☐ **Preliminary Jurisdictional Determination.** A preliminary jurisdictional determination (PJD) is a non-binding written indication from the Corps that waters, including wetlands, identified on a parcel may be waters of the United States. For purposes of computation of impacts and compensatory mitigation requirements, a permit decision made on the basis of a PJD will treat all waters and wetlands in the review area as if they are jurisdictional waters of the U.S. PJDs are advisory in nature and may not be appealed.

☒ **Approved Jurisdictional Determination.** An approved jurisdictional determination (AJD) is an official Corps determination that jurisdictional waters of the United States are either present or absent on the property. AJDs can generally be relied upon by the affected party for five years. An AJD may be appealed through the Corps administrative appeal process.

In order for the Corps and LGU to process your request, the wetland delineation must be prepared in accordance with the 1987 Corps of Engineers Wetland Delineation Manual, any approved Regional Supplements to the 1987 Manual, and the *Guidelines for Submitting Wetland Delineations in Minnesota* (2013).

<http://www.mvp.usace.army.mil/Missions/Regulatory/DelineationJDGuidance.aspx>



WETLAND DELINEATION REPORT

Winnebago Solar and Storage Project

Faribault County, Minnesota

AUGUST 4, 2021

PREPARED FOR:

Winnebago Solar and Storage LLC
2147 University Avenue West, Suite 204
St. Paul, MN 55114

PREPARED BY:

Westwood

Wetland Delineation Report

Winnebago Solar and Storage Project

Prepared for:

Winnebago Solar and Storage LLC
2147 University Avenue West
Suite 204
St. Paul, MN 55114

Prepared by:

Westwood Professional Services, Inc.
12701 Whitewater Drive, Suite 300
Minnetonka, MN 55343
(952) 937-5150

Project Number: 0027810.00

Date: 8/4/2021

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Exhibit 2: Water Resources Overview Map

Exhibit 2-1 to 2-6: Water Resources Mapbook

Exhibit 3: NRCS Soils Overview Map

Exhibit 3-1 to 3-6: NRCS Soils Mapbook

Exhibit 4: Offsite Hydrology Review Overview Map

Exhibit 4-1 to 4-6: Offsite Hydrology Review Mapbook

Exhibit 5: Delineated Water Resources Overview Map

Exhibit 5-1 to 5-6: Delineated Water Resources Mapbook

Appendices

Appendix A: Wetland Delineation Data Forms

Appendix B: Wetland Delineation Photographs

Appendix C: Watercourse Delineation Photographs and Data Forms

Appendix D: Offsite Hydrology Review

1.0 PURPOSE

This report and the attached exhibits and appendices constitute the wetland delineation report for the Winnebago Solar and Storage Project (Project or Site), which covers approximately 1,311 acres (2.0 square miles) of land in Faribault County, Minnesota. Faribault County Soil and Water Conservation District (SWCD) is the Local Governmental Unit (LGU) that administer the Minnesota Wetland Conservation Act (WCA) in this area. This report provides the required documentation for wetland boundary determinations in conformance with the United States Army Corps of Engineers (USACE) Wetlands Delineation Manual (Environmental Laboratory, Waterways Experiment Station, 1987) and the Regional Supplement to the USACE Wetland Delineation Manual: Midwest Regional Supplement (US Army Engineer Research and Development Center, 2010). The Joint Application Form for Activities Affecting Water Resources in Minnesota is included with the cover memo to this report.

2.0 SITE LOCATION AND DESCRIPTION

The Delineation Area is located just east of US Highway 169, between 180th Street to the north, 160th street to the south, and 380th Avenue to the east in Verona and Prescott Townships, Faribault County (**Exhibit 1**). See **Table 2.0** for a detailed description of the Delineation Area location.

Table 2.0 – Delineation Area Section, Township, and Range

Township	Range	Sections
T103N	R28W	11, 12, 13
T103N	R27W	7, 18

The Delineation Area and surrounding land use consists primarily of row crop agriculture with scattered rural residences, land enrolled in the Conservation Reserve Enhancement Program (CREP) and the Blue Earth River located west of the Project, west of Highway 169.

3.0 WETLAND DELINEATION METHODOLOGY

3.1 Mapping

Prior to reviewing the Delineation Area in the field, Westwood Professional Services, Inc. (Westwood) reviewed the National Wetlands Inventory (NWI) mapping, the National Hydrography Dataset (NHD) and the Minnesota Department of Natural Resources (MNDNR) Public Waters Inventory (PWI) (**Exhibits 2-1 to 2-6**). Westwood also reviewed the Natural Resource Conservation Service (NRCS) Soil Survey Geographic database (SSURGO2) for Faribault County (**Exhibits 3-1 to 3-6**).

3.2 Offsite Hydrology Review

Westwood reviewed historical aerial photography to identify potential wetlands in cropped portions of the property using the July 1, 2016, Minnesota Board of Water and Soil Resources (BWSR)/USACE-accepted protocol for conducting off-site wetland determinations, *Guidance for Offsite Hydrology/Wetland Determinations*. A total of 11 different aerial photographs were reviewed for years between 1991 and 2017.

3.3 Field Work

On July 15, 2021, a certified wetland delineator from Westwood conducted a field review using a level two routine determination method set forth in the USACE Wetlands Delineation Manual and the supplemental methods set forth in the Regional Supplement to the USACE Wetland Delineation Manual: Midwest Region. Soils, vegetation, and hydrology data were recorded on data forms and are included in **Appendix A** of this report. Photographs from the delineation are included in **Appendix B**.

Wetlands were classified according to Wetlands of the United States (U.S. Fish and Wildlife Service Circular 39; Shaw and Fredine; 1971) and Wetlands and Deepwater Habitats of the United States (FWS/OBS Publication 79/31; Cowardin et. al. 1979). Common names and scientific names for vegetation identified in this report and on the attached data forms generally correspond with the nomenclature used in the 2018 National Wetland Plant List (NWPL) (USACE 2020). Field data was located using a Trimble GPS unit capable of sub-meter accuracy.

Drainages within the Delineation Area were considered non-wetland Waters of the U.S. (WOTUS), as they may not exhibit all parameters required for wetlands (i.e., predominance of hydrophytes, hydric soils, and jurisdictional hydrology). Accordingly, their boundaries were delineated in the field by documenting their Ordinary High Water Marks (OHWMs) (**Appendix C**) as determined according to the USACE Regulatory Guidance Letter No. 05-05 (U.S. Army Corps of Engineers 2005). USACE regulations set forth at 33 CFR 328.3(e) defines the OHWM for purposes of Clean Water Act (CWA) lateral jurisdiction. The term OHWM means that line on the shore established by the fluctuations of water and indicated by physical characteristics including the following:

- Natural line impressed on the bank
- Changes in the character of soil
- Presence of litter and debris
- Vegetation matted down, bent, or absent
- Leaf litter disturbed or washed away
- Deposition
- Bed and banks
- Change in plant community
- Shelving
- Destruction of terrestrial vegetation
- Wracking
- Sediment sorting
- Scour
- Multiple flow events
- Water staining

4.0 RESULTS

4.1 Mapping

NWI data mapped five wetlands within the Delineation Area (**Exhibits 2-1 to 2-6**). Three are classified as freshwater emergent wetland, one is classified as freshwater forest/shrub wetland and one is classified as freshwater pond. Three NHD flowlines are mapped in the western portion of the Site. No NHD waterbodies, MNDNR public watercourses, or MNDNR public waterbodies are mapped within the Site (**Exhibits 2-1 to 2-6**).

The NRCS SSURGO2 for Faribault County indicates that the soils listed in **Table 4.1** are mapped within the Site (**Exhibits 3-1 to 3-6**). Based on the NRCS Web Soil Survey Hydric Rating, there are

four soil units classified as all hydric and seven soil units classified as predominantly hydric within the Site.

Table 4.1 – Soils Mapped with Delineation Area

Map Symbol	Map Unit Name	Rating	Percent Hydric Soil
134	Okoboji silty clay loam, 0 to 1 percent slopes	All Hydric	100
539	Klossner muck, lake plain, depressional, 0 to 1 percent slopes	All Hydric	100
84	Brownton silty clay loam, 0 to 2 percent slopes	All Hydric	100
86	Canisteo clay loam, 0 to 2 percent slopes	All Hydric	100
140	Spicer silty clay loam, 0 to 2 percent slopes	Predominantly Hydric	98
110	Marna silty clay loam, 0 to 2 percent slopes	Predominantly Hydric	95
229	Waldorf silty clay loam, 0 to 2 percent slopes	Predominantly Hydric	95
281	Darfur loam	Predominantly Hydric	95
336	Delft clay loam, 0 to 2 percent slopes	Predominantly Hydric	95
L83A	Webster clay loam, 0 to 2 percent slopes	Predominantly Hydric	95
136	Madelia silty clay loam, 0 to 2 percent slopes	Predominantly Hydric	94
1852F	Swanlake-Terril complex, 18 to 40 percent slopes	Predominantly Non-hydric	10
286A	Shorewood silty clay loam, 1 to 3 percent slopes	Predominantly Non-hydric	10
909D2	Bold-Truman complex, 12 to 18 percent slopes, eroded	Predominantly Non-hydric	10
96A	Collinwood silty clay loam, 1 to 3 percent slopes	Predominantly Non-hydric	10
L85A	Nicollet clay loam, 1 to 3 percent slopes	Predominantly Non-hydric	10
102B	Clarion loam, 2 to 6 percent slopes	Predominantly Non-hydric	5
128B	Grogan silt loam, 1 to 6 percent slopes	Predominantly Non-hydric	5
1877	Fostoria loam	Predominantly Non-hydric	5

Map Symbol	Map Unit Name	Rating	Percent Hydric Soil
197	Kingston silty clay loam, 1 to 3 percent slopes	Predominantly Non-hydric	5
230A	Guckeen silty clay loam, 1 to 3 percent slopes	Predominantly Non-hydric	5
275B	Ocheyedan loam, 2 to 6 percent slopes	Predominantly Non-hydric	5
286B	Shorewood silty clay loam, 3 to 6 percent slopes	Predominantly Non-hydric	5
909C2	Truman-Bold complex, 6 to 12 percent slopes, eroded	Predominantly Non-hydric	5
101B	Truman silt loam, 2 to 6 percent slopes	Predominantly Non-hydric	2
1907	Lakefield silt loam	Predominantly Non-hydric	2

4.2 Antecedent Precipitation

Antecedent precipitation data was evaluated for the 3 months prior to the site visit using the *Wetland Delineation Precipitation Data Retrieval from a Gridded Database* tool. Results from these data indicate antecedent precipitation was drier than normal prior to the field review. **Table 4.2** constitutes the “NRCS Method/3-Month Prior Method” to determine antecedent precipitation using the Precipitation Documentation Worksheet from the Minnesota Climatology Working Group.

Table 4.2 – Precipitation Documentation Worksheet (Score using 1981-2010 normal period)

values are in inches A 'R' following a monthly total indicates a provisional value derived from <i>radar-based estimates</i> .	first prior month: June 2021	second prior month: May 2021	third prior month: April 2021
estimated precipitation total for this location:	M0.91	2.41	0.95
there is a 30% chance this location will have less than:	3.11	2.78	2.24
there is a 30% chance this location will have more than:	5.50	4.80	4.01
type of month: dry normal wet:	dry	dry	dry
monthly score:	3 * 1 = 3	2 * 1 = 2	1 * 1 = 1
multi-month score: 6 to 9 (dry) 10 to 14 (normal) 15 to 18 (wet)	6 (Dry)		

4.3 Offsite Hydrology Review

Initially, 25 suspect wetland areas were identified (Suspect Areas 1-25) and reviewed against various years of aerial imagery prior to the field determination (**Exhibits 4-1 to 4-6; Appendix D**). While not all areas had enough signatures in normal years to require field confirmation, all were investigated in the field. Additionally, two desktop wetlands (DW1-2) were desktop delineated in the non-cultivated portions of the Site.

4.4 Field Investigation

On July 15, 2021, two wetland delineators from Westwood delineated ten wetland areas (**Exhibit 5-1 to 5-6**). Detailed information for each wetland is included in the Wetland Summary Table (**Table 4.4.1**). Data forms are provided in **Appendix A** and photographs in **Appendix B**. The boundaries of all wetlands followed distinct changes in topography and/or plant communities between the upland and wetland sample locations. Non-wetland sample points were gathered in suspect areas, NWI polygons, and/or aerial signatures which were found in the field to lack all three wetland characteristics. Photos and data forms were gathered in these areas to document conditions. See **Table 4.4.2** for a summary of all non-wetland sample points taken during the field investigation.

Table 4.4.1 – Wetland Summary Table

Wetland ID	Ac. (Onsite)	Sq. Ft. (Onsite)	NWI	NHD	Plant Community	PLS	Mapbook Page
WB-A-01	0.63	27,660	PUBFh	Yes	Shallow Open Water/Wet Meadow	T103/R28/S13	5
WB-A-02	0.06	2,483	PFO1B	Yes	Floodplain Forest	T103/R28/S13	5
WB-A-03	0.03	1,290	No	Yes	Wet Meadow	T103/R28/S11	1
WB-A-04	0.001	6	No	No	Wet Meadow	T103/R28/S11	1
WB-B-01	0.57	24,758	PEM1A	No	Wet Meadow	T103/R27/S7	6
WB-B-02	0.26	11,153	PEM1A	No	Wet Meadow	T103/R27/S7	6
WB-B-03	0.33	14,483	PEM1A	No	Wet Meadow	T103/R27/S7	6
WB-B-04	0.12	5,200	PEM1A	No	Wet Meadow	T103/R27/S7	3
WB-B-05	0.27	11,850	PEM1A	No	Wet Meadow	T103/R27/S7	6
WB-B-06	0.05	2,314	No	No	Wet Meadow	T103/R28/S12	2

Table 4.4.2 – Non-wetland Sample Point Summary Table

Non-Wetland ID	NWI	NHD	PLS	Mapbook Page
NW-A-01	Yes	Yes	T103/R28/S13	5
NW-A-02	No	No	T103/R28/S12	1
NW-B-01	No	No	T103/R27/S7	3
NW-B-02	No	No	T103/R27/S7	6
NW-B-03	No	No	T103/R27/S18	6
NW-B-04	No	No	T103/R27/S7	6
NW-B-05	No	No	T103/R27/S7	6
NW-B-06	No	No	T103/R27/S7	6
NW-B-07	No	No	T103/R27/S7	3
NW-B-08	No	No	T103/R27/S7	5
NW-B-09	No	No	T103/R27/S7	5
NW-B-10	No	No	T103/R28/S12	5
NW-B-11	No	No	T103/R28/S12	2
NW-B-12	No	No	T103/R28/S12	2

Non-Wetland ID	NWI	NHD	PLS	Mapbook Page
NW-B-13	No	No	T103/R28/S12	5
NW-B-14	No	No	T103/R28/S13	5
NW-B-15	No	No	T103/R28/S12	2
NW-B-16	No	No	T103/R28/S12	2
NW-B-17	No	No	T103/R28/S12	2
NW-B-18	No	No	T103/R28/S12	2
NW-B-19	No	No	T103/R28/S12	2
NW-B-20	No	No	T103/R28/S12	1

In addition to the 10 wetlands delineated, Westwood also mapped one watercourse (WC-A-01) and two non-watercourse sample points (NWC-A-01 and NWC-A-02) within the Delineation Area. The watercourse feature is an ephemeral stream that flows through an excavated pond (WB-A-01). This feature exhibited OHWM characteristics and corresponded with NWI and NHD flowline mapping. The non-watercourse sample points were taken in areas when NHD flowlines or aerial signatures indicated a feature may be present. A sample point and photos were taken in these areas documenting the lack of OHWM characteristics. Data forms and photographs documenting watercourse and non-watercourse characteristics are located in **Appendix C**.

5.0 CONCLUSIONS

Westwood reviewed the Delineation Area associated with the Winnebago Solar and Storage Project in Faribault County, Minnesota for the presence of jurisdictional wetlands. The field investigation identified ten wetlands and one watercourse on-site. On behalf of Winnebago Storage and Storage LLC (the Applicant), Westwood respectfully requests that Faribault County SWCD, as the WCA LGU, and the USACE review and process this report and enclosed Joint Application Form and provide written concurrence that the extent of aquatic resources on the Project have been accurately identified. Please consider this report a formal Wetland Boundary request pursuant to Minn. Rules 8420.0405 and the CWA.

6.0 LITERATURE CITED

- Cowardin, L.M. , V.M. 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, Biological Services Program, Washington, DC, USA. FWS/OBS-79/31. 103pp.
- Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual. Technical Report Y-87-1, U.S. Army Corps of Engineers Waterways Experiment Station, Vicksburg, MS.
- Lichvar, R.W., D.L. Banks, W.N. Kirchner, and N.C. Melvin. 2016. The National Wetland Plant List: 2016 wetland ratings. Phytoneuron 2016-30: 1-17. Published 28 April 2016. ISSN 2153 733X.
- Shaw, S.P. and C.G. Fredine. 1971. Wetlands of the United States. U.S. Fish and Wildlife Circular 39. U.S. Department of the Interior, Washington, D.C. 67 pp.
- U. S. Army Corps of Engineers. 2020. 2018 National Wetland Plant List. 85 FR 29689/2020-10630. USACE 441 G Street NW, Washington, DC 20314-1000.
- U. S. Army Corps of Engineers. 2010. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region, ed. J.S. Wakeley, R.W. Lichvar, and C.V. Noble. ERDC/EL TR-10-16. Vicksburg, MS: U.S. Army Engineer Research and Development Center.
- U.S. Army Corps of Engineers, St. Paul District and Minnesota Board of Water and Soil Resources. 2016. *Guidance for Offsite Hydrology/Wetland Determinations*.
- United States Department of Agriculture, Natural Resources Conservation Service, 2010. Field Indicators of Hydric Soils in the United States, Version 7.0. C.M. Vasilas, G.W. Hurt, and C.V. Noble (eds.). USDA NRCS, in cooperation with the National Technical Committee for Hydric Soils.

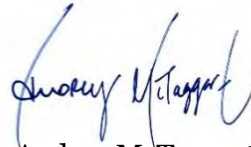
7.0 CERTIFICATION

I certify that, to the best of my knowledge and belief, the wetland delineation completed for this Site is consistent with current wetland delineation practices and guidelines. I have the specific qualifications, education, training, and experience to complete wetland delineations and determinations in accordance with federal and state requirements.

Sincerely,
WESTWOOD PROFESSIONAL SERVICES, INC.



Robert Cress
Wetland Scientist
MN Certified Wetland Delineator No. 1292

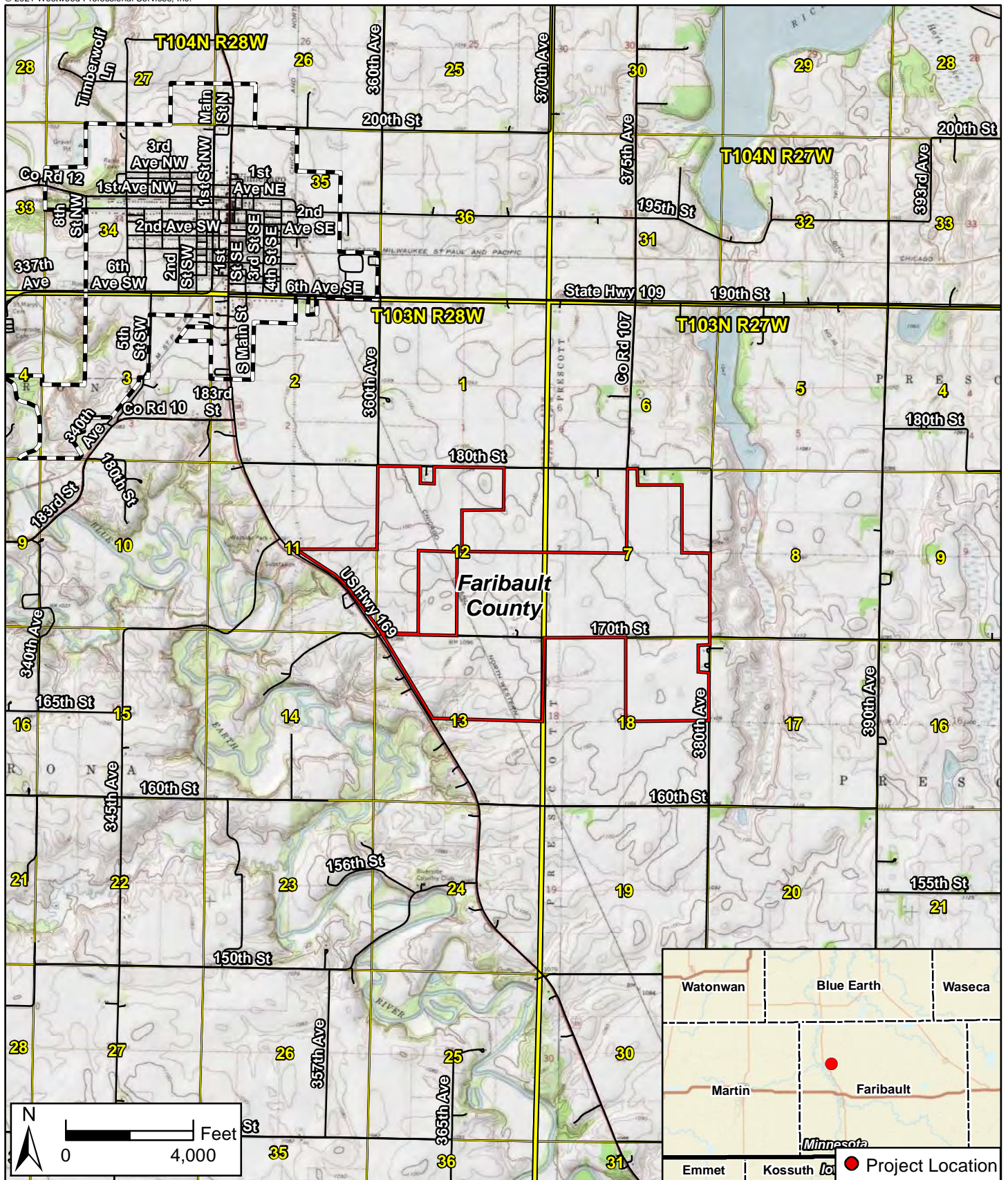


Audrey McTaggart
Wetland Scientist

Exhibits

Winnebago Solar and Storage Project

Faribault County, Minnesota



Data Source(s): Westwood (2021); ESRI WMS USA Topo and World Streets Basemaps (Accessed 2020); U.S. Census Bureau (2019).

Legend

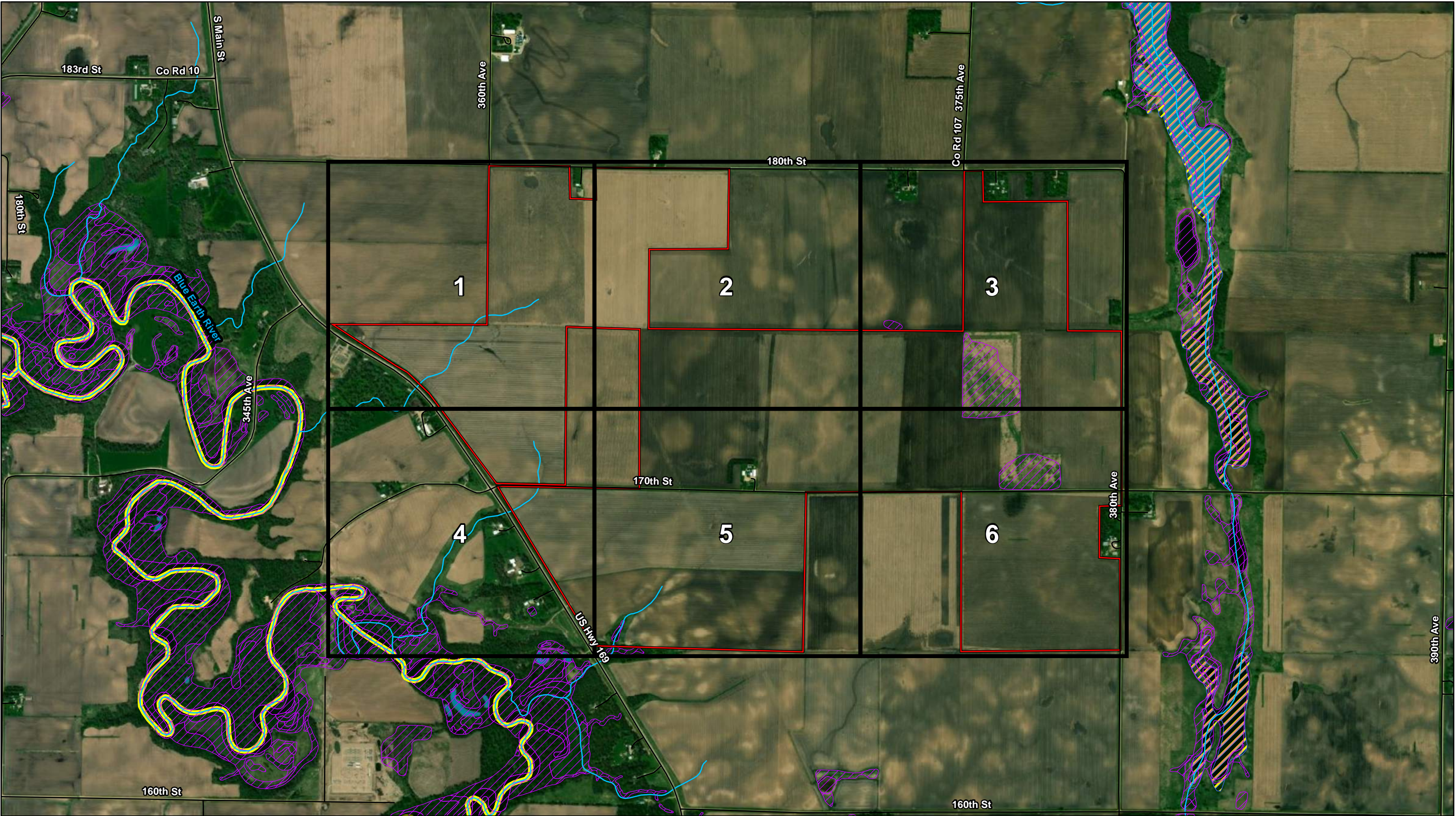
- | | |
|--|---|
| Delineation Area | PLS Township Boundary |
| County Boundary | PLS Section Boundary |
| Municipal Boundary | Road |

Westwood
Toll Free (888) 937-5150 westwoodps.com
Westwood Professional Services, Inc.

Winnebago Solar and Storage Site

Verona and Prescott Townships
Faribault County, Minnesota

Project Location
EXHIBIT 1



Data Source(s): Westwood (2021); St. Mary's University of Minnesota, 2015; MNDNR, 2008; USGS 2014.

Legend

- | | | | | | |
|---|------------------|---|-----------------|---|------|
|  | Delineation Area |  | PWI Watercourse |  | Road |
|  | NHD Flowline |  | PWI Basin | | |
|  | NWI |  | NHD Waterbody | | |



Winnebago Solar and Storage Site

Verona and Prescott Townships
Faribault County, Minnesota
Water Resources Overview Map
EXHIBIT 2 - Index



Data Source(s): Westwood (2021); .

Legend

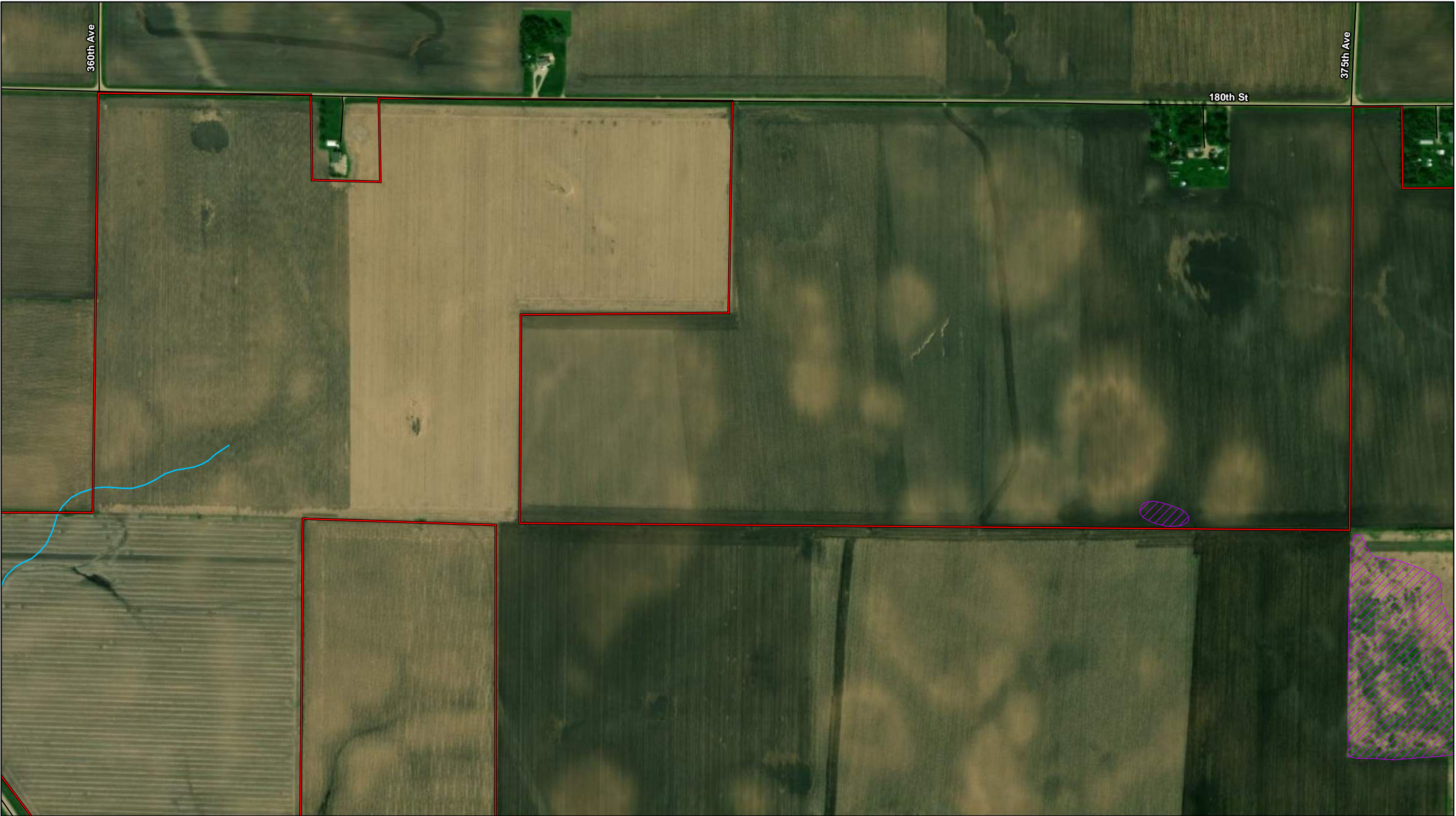
- | | | | | | |
|---|------------------|---|-----------------|---|---------------|
|  | Delineation Area |  | PWI Watercourse |  | Road |
|  | NHD Flowline |  | PWI Basin |  | NHD Waterbody |
|  | NWI | | | | |



Winnebago Solar and Storage Site

Verona and Prescott Townships
Faribault County, Minnesota
Water Resources Mapbook

EXHIBIT 2 - 1



Data Source(s): Westwood (2021); .

Legend

- | | | | | | |
|---|------------------|---|-----------------|---|------|
|  | Delineation Area |  | PWI Watercourse |  | Road |
|  | NHD Flowline |  | PWI Basin | | |
|  | NWI |  | NHD Waterbody | | |



Winnebago Solar and Storage Site

Verona and Prescott Townships
Faribault County, Minnesota
Water Resources Mapbook



Data Source(s): Westwood (2021); .

Legend

- | | | | | | |
|---|------------------|---|-----------------|---|------|
|  | Delineation Area |  | PWI Watercourse |  | Road |
|  | NHD Flowline |  | PWI Basin | | |
|  | NWI |  | NHD Waterbody | | |



Winnebago Solar and Storage Site

Verona and Prescott Townships
Faribault County, Minnesota
Water Resources Mapbook



Data Source(s): Westwood (2021); .

Legend

- | | | | | | |
|---|------------------|---|-----------------|---|------|
|  | Delineation Area |  | PWI Watercourse |  | Road |
|  | NHD Flowline |  | PWI Basin | | |
|  | NWI |  | NHD Waterbody | | |



Winnebago Solar and Storage Site

Verona and Prescott Townships
Faribault County, Minnesota
Water Resources Mapbook



Data Source(s): Westwood (2021); .

Legend

- | | | |
|--|---|--|
|  Delineation Area |  PWI Watercourse |  Road |
|  NHD Flowline |  PWI Basin | |
|  NWI |  NHD Waterbody | |



Winnebago Solar and Storage Site

Verona and Prescott Townships
Faribault County, Minnesota
Water Resources Mapbook



Data Source(s): Westwood (2021); .

Legend

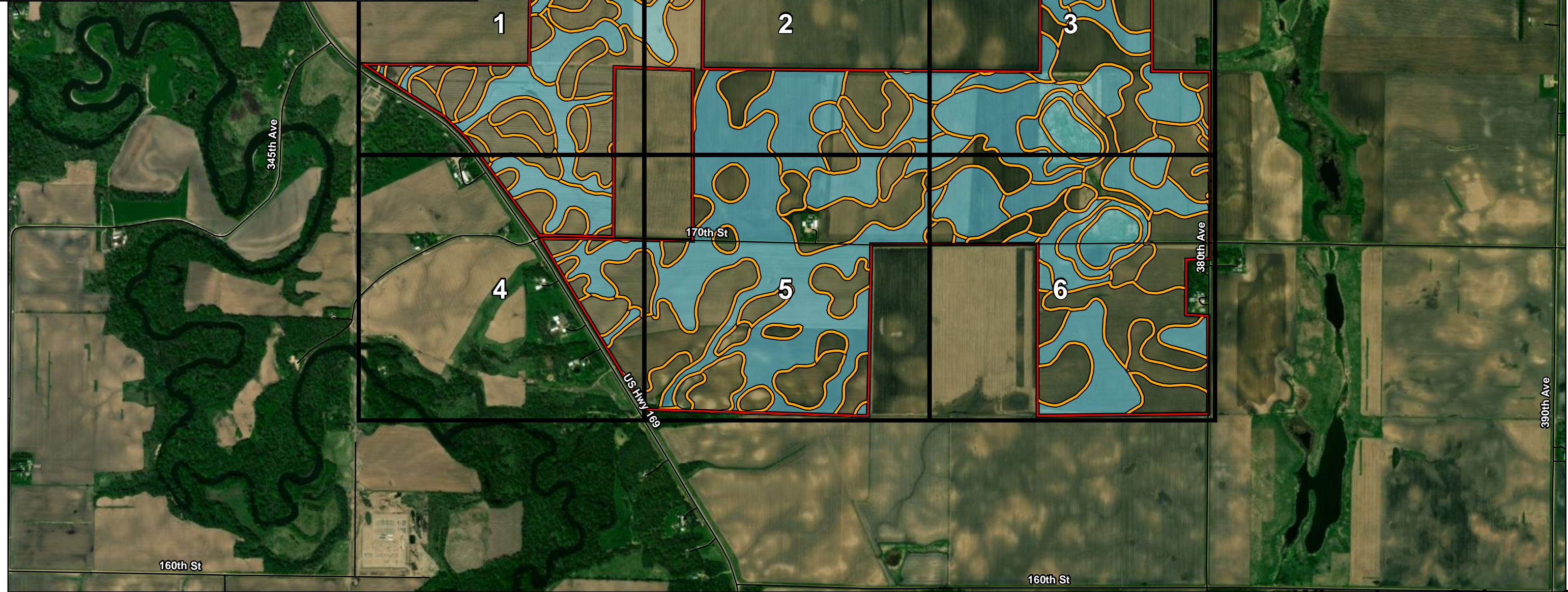
- | | | | | | |
|---|------------------|---|-----------------|---|------|
|  | Delineation Area |  | PWI Watercourse |  | Road |
|  | NHD Flowline |  | PWI Basin | | |
|  | NWI |  | NHD Waterbody | | |



Winnebago Solar and Storage Site

Verona and Prescott Townships
Faribault County, Minnesota
Water Resources Mapbook

Map Symbol	Map Unit Name	Hydric Class	Percent Hydric
134	Okoboji silty clay loam, 0 to 1 percent slopes	All Hydric	100
539	Klossner muck, lake plain, depressional, 0 to 1 percent slopes	All Hydric	100
64	Brownston silty clay loam, 0 to 2 percent slopes	All Hydric	100
86	Canisteo clay loam, 0 to 2 percent slopes	All Hydric	100
140	Spicer silty clay loam, 0 to 2 percent slopes	Predominantly Hydric	98
110	Mama silty clay loam, 0 to 2 percent slopes	Predominantly Hydric	95
229	Waldorf silty clay loam, 0 to 2 percent slopes	Predominantly Hydric	95
281	Darfur loam	Predominantly Hydric	95
336	Delft clay loam, 0 to 2 percent slopes	Predominantly Hydric	95
183A	Webster clay loam, 0 to 2 percent slopes	Predominantly Hydric	95
136	Madelia silty clay loam, 0 to 2 percent slopes	Predominantly Hydric	94
1852F	Swanlake-Terril complex, 18 to 40 percent slopes	Predominantly Non-hydric	10
286A	Shorewood silty clay loam, 1 to 3 percent slopes	Predominantly Non-hydric	10
909D2	Bold-Truman complex, 12 to 18 percent slopes, eroded	Predominantly Non-hydric	10
98A	Collinwood silty clay loam, 1 to 3 percent slopes	Predominantly Non-hydric	10
185A	Nicollet clay loam, 1 to 3 percent slopes	Predominantly Non-hydric	10
102B	Clarion loam, 2 to 6 percent slopes	Predominantly Non-hydric	5
128B	Grogan silt loam, 1 to 6 percent slopes	Predominantly Non-hydric	5
1877	Fostoria loam	Predominantly Non-hydric	5
197	Kingston silty clay loam, 1 to 3 percent slopes	Predominantly Non-hydric	5
230A	Guckeen silty clay loam, 1 to 3 percent slopes	Predominantly Non-hydric	5
275B	Ocheyedan loam, 2 to 6 percent slopes	Predominantly Non-hydric	5
286B	Shorewood silty clay loam, 3 to 6 percent slopes	Predominantly Non-hydric	5
909C2	Truman-Bold complex, 6 to 12 percent slopes, eroded	Predominantly Non-hydric	5
101B	Truman silt loam, 2 to 6 percent slopes	Predominantly Non-hydric	2
1907	Lakefield silt loam	Predominantly Non-hydric	2



Data Source(s): Westwood (2021); NRCS (2020);
ESRI World Imagery (2020).

Legend

Mapbook Page

Delineation Area

Non-Hydric Soil Unit

All Hydric/Predominantly Hydric Soil Unit

Road



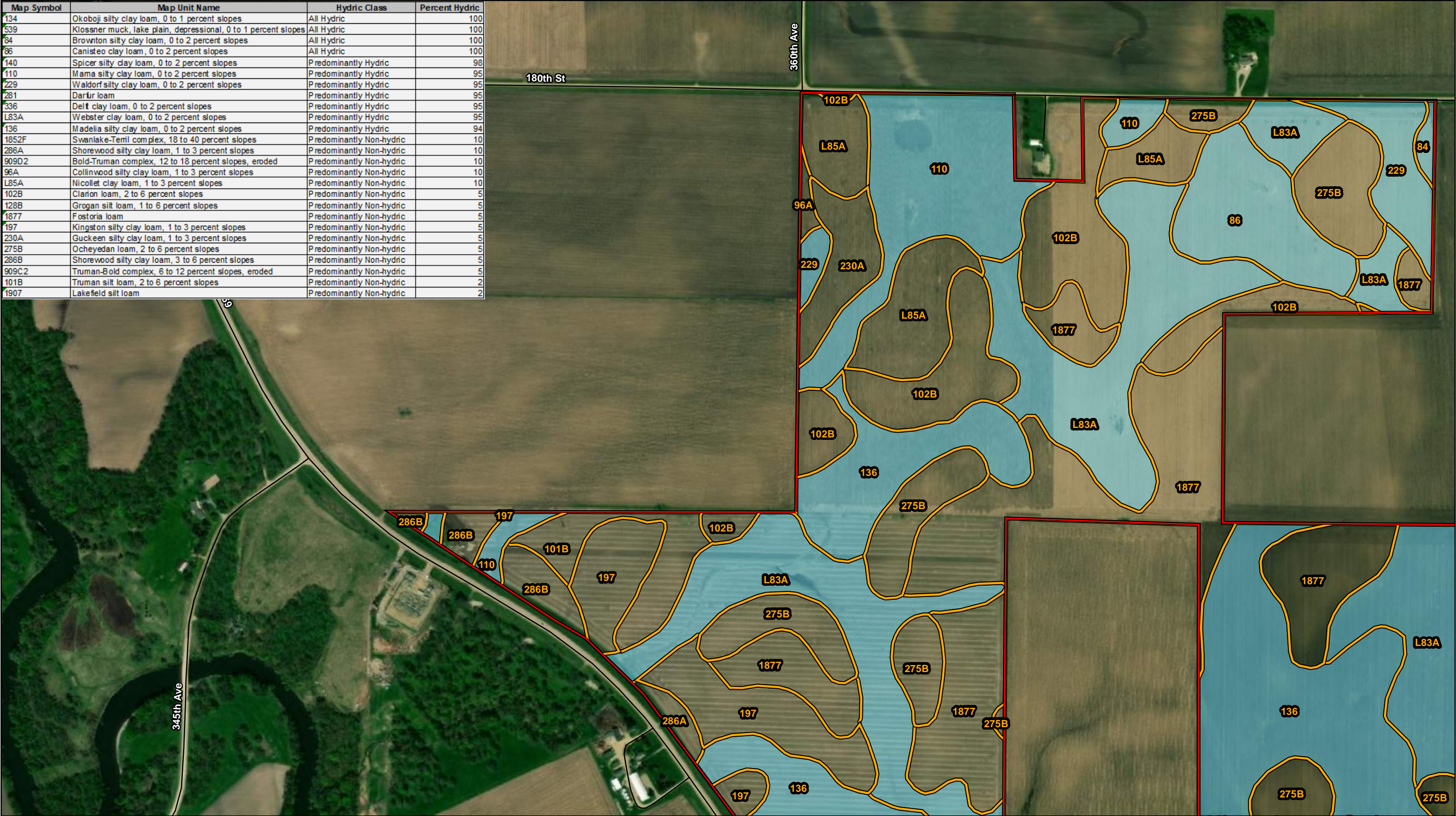
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Winnebago Solar and Storage Site

Verona and Prescott Townships
Faribault County, Minnesota
NRCS Soils Overview Map
EXHIBIT 3 - Index

Map Symbol	Map Unit Name	Hydric Class	Percent Hydric
134	Okoboji silty clay loam, 0 to 1 percent slopes	All Hydric	100
539	Klossner muck, lake plain, depressional, 0 to 1 percent slopes	All Hydric	100
84	Brownston silty clay loam, 0 to 2 percent slopes	All Hydric	100
86	Canisteo clay loam, 0 to 2 percent slopes	All Hydric	100
140	Spicer silty clay loam, 0 to 2 percent slopes	Predominantly Hydric	98
110	Mama silty clay loam, 0 to 2 percent slopes	Predominantly Hydric	95
229	Waldorf silty clay loam, 0 to 2 percent slopes	Predominantly Hydric	95
281	Darfur loam	Predominantly Hydric	95
336	Delf clay loam, 0 to 2 percent slopes	Predominantly Hydric	95
L83A	Webster clay loam, 0 to 2 percent slopes	Predominantly Hydric	95
136	Madelia silty clay loam, 0 to 2 percent slopes	Predominantly Hydric	94
1852F	Swanlake-Temil complex, 18 to 40 percent slopes	Predominantly Non-hydric	10
286A	Shorewood silty clay loam, 1 to 3 percent slopes	Predominantly Non-hydric	10
909D2	Bold-Truman complex, 12 to 18 percent slopes, eroded	Predominantly Non-hydric	10
96A	Collinwood silty clay loam, 1 to 3 percent slopes	Predominantly Non-hydric	10
L85A	Nicollet clay loam, 1 to 3 percent slopes	Predominantly Non-hydric	10
102B	Clarion loam, 2 to 6 percent slopes	Predominantly Non-hydric	5
128B	Grogan silt loam, 1 to 6 percent slopes	Predominantly Non-hydric	5
1877	Fostoria loam	Predominantly Non-hydric	5
197	Kingston silty clay loam, 1 to 3 percent slopes	Predominantly Non-hydric	5
230A	Guckeen silty clay loam, 1 to 3 percent slopes	Predominantly Non-hydric	5
275B	Ocheyedan loam, 2 to 6 percent slopes	Predominantly Non-hydric	5
286B	Shorewood silty clay loam, 3 to 6 percent slopes	Predominantly Non-hydric	5
909C2	Truman-Bold complex, 6 to 12 percent slopes, eroded	Predominantly Non-hydric	5
101B	Truman silt loam, 2 to 6 percent slopes	Predominantly Non-hydric	2
1907	Lakefield silt loam	Predominantly Non-hydric	2



Data Source(s): Westwood (2021); NRCS (2020); ESRI World Imagery (2020).

Legend

Delineation Area

Non-Hydric Soil Unit

All Hydric/Predominantly Hydric Soil Unit

Road

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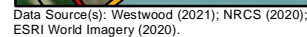
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Winnebago Solar and Storage Site

Verona and Prescott Townships
Faribault County, Minnesota
NRCS Soils Mapbook
EXHIBIT 3 - 1

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Verona and Prescott Townships
Faribault County, Minnesota
NRCS Soils Mapbook



Map Symbol	Map Unit Name	Hydric Class	Percent Hydric
134	Okoboji silty clay loam, 0 to 1 percent slopes	All Hydric	100
539	Klossner muck, lake plain, depressional, 0 to 1 percent slopes	All Hydric	100
84	Brownton silty clay loam, 0 to 2 percent slopes	All Hydric	100
86	Canisteo clay loam, 0 to 2 percent slopes	All Hydric	100
140	Spicer silty clay loam, 0 to 2 percent slopes	Predominantly Hydric	98
110	Mama silty clay loam, 0 to 2 percent slopes	Predominantly Hydric	95
229	Waldorf silty clay loam, 0 to 2 percent slopes	Predominantly Hydric	95
281	Darfur loam	Predominantly Hydric	95
336	Delft clay loam, 0 to 2 percent slopes	Predominantly Hydric	95
L83A	Webster clay loam, 0 to 2 percent slopes	Predominantly Hydric	95
136	Madelia silty clay loam, 0 to 2 percent slopes	Predominantly Hydric	94
1852F	Swanlake-Temil complex, 18 to 40 percent slopes	Predominantly Non-hydric	10
286A	Shorewood silty clay loam, 1 to 3 percent slopes	Predominantly Non-hydric	10
909D2	Bold-Truman complex, 12 to 18 percent slopes, eroded	Predominantly Non-hydric	10
96A	Collinwood silty clay loam, 1 to 3 percent slopes	Predominantly Non-hydric	10
L85A	Nicollet clay loam, 1 to 3 percent slopes	Predominantly Non-hydric	10
102B	Clarion loam, 2 to 6 percent slopes	Predominantly Non-hydric	5
128B	Grogan silt loam, 1 to 6 percent slopes	Predominantly Non-hydric	5
1877	Fostoria loam	Predominantly Non-hydric	5
197	Kingston silty clay loam, 1 to 3 percent slopes	Predominantly Non-hydric	5
230A	Guckeen silty clay loam, 1 to 3 percent slopes	Predominantly Non-hydric	5
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909C2	Truman-Bold complex, 6 to 12 percent slopes, eroded	Predominantly Non-hydric	5
101B	Truman silt loam, 2 to 6 percent slopes	Predominantly Non-hydric	2
1907	Lakefield silt loam	Predominantly Non-hydric	2

Data Source(s): Westwood (2021); NRCS (2020);
ESRI World Imagery (2020).

Legend

Delineation Area

Non-Hydric Soil Unit

All Hydric/Predominantly Hydric Soil Unit

Road

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Winnebago Solar and Storage Site

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NRCS Soils Mapbook

EXHIBIT 3 - 3

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Map Symbol	Map Unit Name	Hydric Class	Percent Hydric
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539	Klossner muck, lake plain, depressional, 0 to 1 percent slopes	All Hydric	100
84	Brownston silty clay loam, 0 to 2 percent slopes	All Hydric	100
86	Canisteo clay loam, 0 to 2 percent slopes	All Hydric	100
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1907	Lakefield silt loam	Predominantly Non-hydric	2

Data Source(s): westwood (2021); NRCS (2020); ESRI World Imagery (2020).

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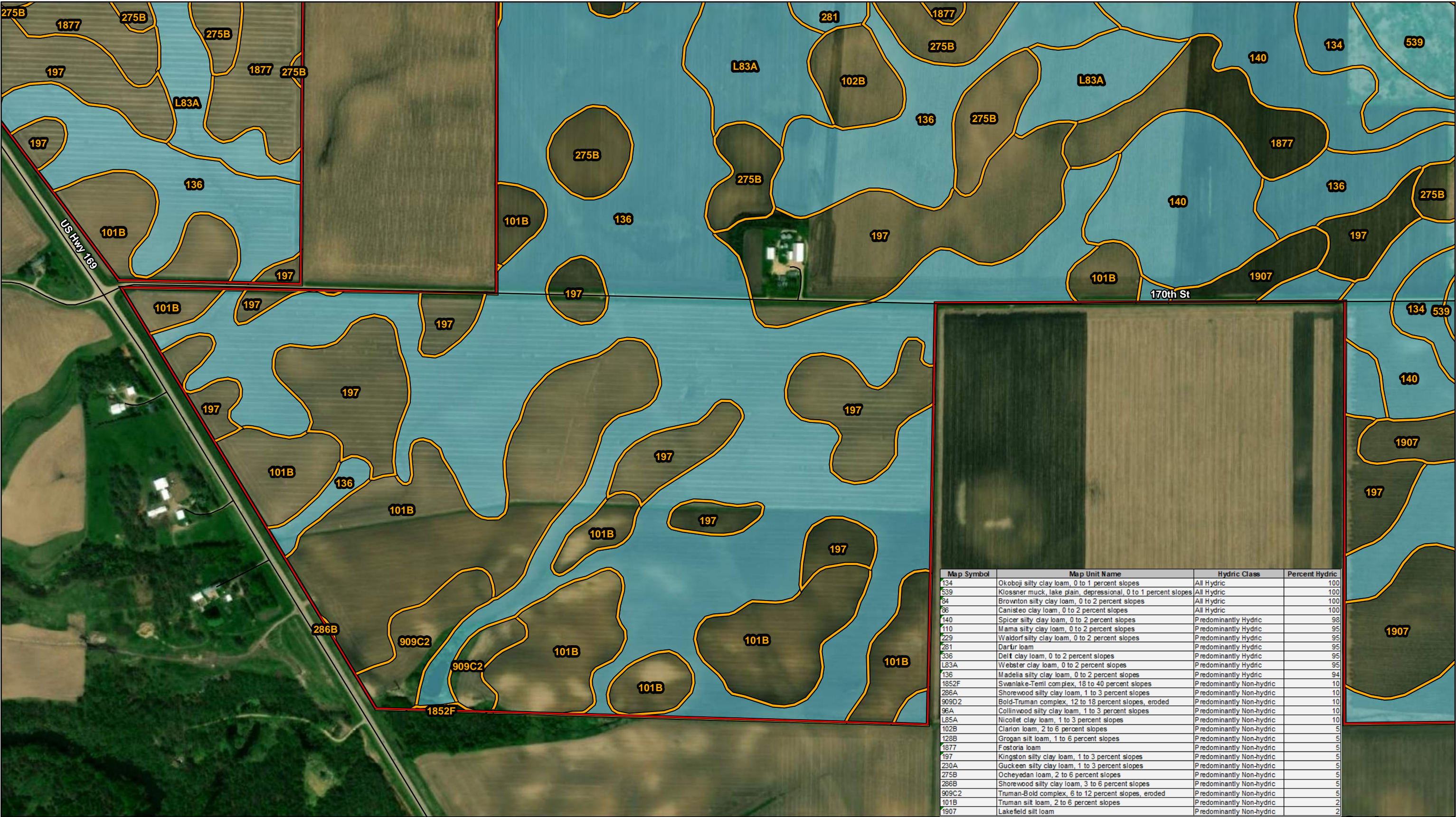
- Delineation Area
- Non-Hydric Soil Unit
- All Hydric/Predominantly Hydric Soil Unit
- Road



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Winnebago Solar and Storage Site
Verona and Prescott Townships
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NRCS Soils Mapbook
EXHIBIT 3 - 4



Data Source(s): Westwood (2021); NRCS (2020);
ESRI World Imagery (2020).

Legend

Delineation Area

Non-Hydric Soil Unit

All Hydric/Predominantly Hydric Soil Unit

Road

Map Symbol	Map Unit Name	Hydric Class	Percent Hydric
134	Okoboji silty clay loam, 0 to 1 percent slopes	All Hydric	100
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1907	Lakefield silt loam	Predominantly Non-hydric	2

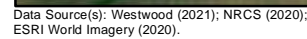
Winnebago Solar and
Storage Site

Verona and Prescott Townships
Faribault County, Minnesota
NRCS Soils Mapbook
EXHIBIT 3 - 5

Westwood

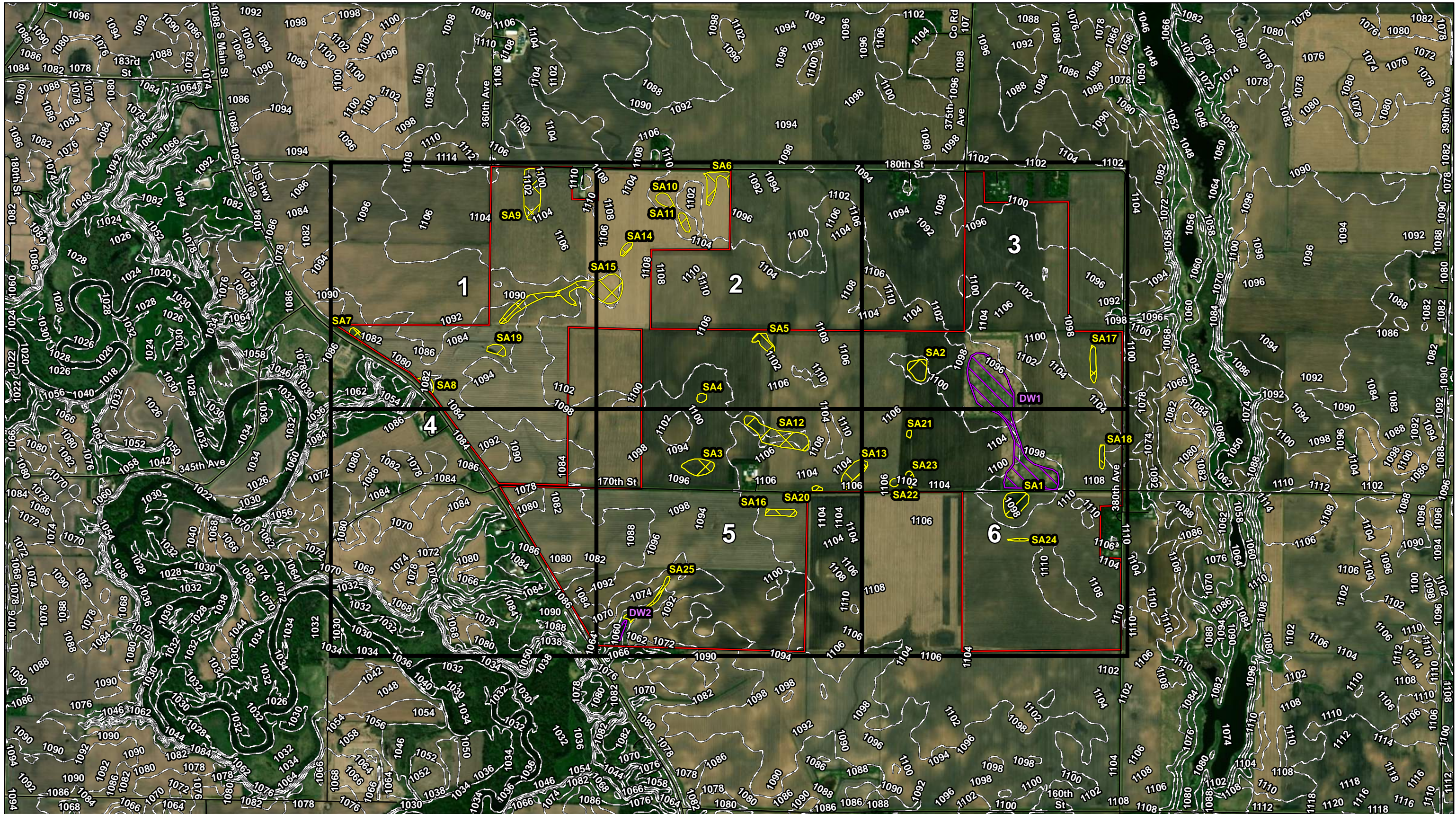
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Map Symbol	Map Unit Name	Hydric Class	Percent Hydric
134	Okoboji silty clay loam, 0 to 1 percent slopes	All Hydric	100
539	Klossner muck, lake plain, depressional, 0 to 1 percent slopes	All Hydric	100
64	Brownnton silty clay loam, 0 to 2 percent slopes	All Hydric	100
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909C2	Truman-Bold complex, 6 to 12 percent slopes, eroded	Predominantly Non-hydric	5
101B	Truman silt loam, 2 to 6 percent slopes	Predominantly Non-hydric	2
1907	Lakefield silt loam	Predominantly Non-hydric	2

EXHIBIT 3 - 6



Data Source(s): Westwood (2021); ESRI World Imagery (2020).

Legend

- Mapbook Page
- Delineation Area
- Desktop Wetland
- Suspect Area
- 10ft Contour



Winnebago Solar and Storage Site

Verona and Prescott Townships
Faribault County, Minnesota

Offsite Hydrology Review Overview
EXHIBIT 4 - Index