December 5, 2025

Nick Bower, Senior Environmental Engineer
Capital Area Regional Planning Commission
100 State Street, Suite 400
Madison, WI 53703

RE: Village of Waunakee Application for Urban Service Area Amendment

Dear Nick,

On behalf of the Village of Waunakee, I am submitting an application for an Urban Service Area Amendment to the Capital Area Regional Planning Commission for property located north of Easy Street and east of N. Madison Street. Attached, I have included the resolution that will be presented to our Village Board on December 15, 2025 for adoption. The resolution confirms that the development of the properties included in our USAA application is consistent with our 2017 Waunakee-Westport Comprehensive Plan and will be consistent with statutory requirements regarding stormwater management.

I recognize that if our Village Board does not adopt the attached resolution on December 15th, that we will have to withdraw our USAA application.

Sincerely,

Lauren Freeman
Deputy Administrator/Community Development Director
Village of Waunakee

Attachment: Resolution Authorizing Submission of an Urban Service Area Amendment to the Capital Area Regional Planning Commission

500 W. Main Street ♦ (608) 849-5712 ♦ lfreeman@waunakee.com

Village of Waunakee

Urban Service Amendment

December 2025

Introduction

The Village of Waunakee requests approval for an Urban Service Area Amendment to extend municipal water and sanitary service to a 76-acre parcel within the Town of Vienna. The subject property is located on the north edge of the Village, north of Easy Street and east of Madison Street. Map 3.1 in Appendix A shows the proposed Waunakee Urban Service Area (USA) Amendment area.

The subject property, parcel 090932490010, is currently owned by Maunesha Meat Company LLC. The land is currently located entirely within the Town of Vienna; however, action is anticipated by the Village board early 2026 regarding annexing the land into the Village of Waunakee and the annexation processes are currently under way for the township parcel proposed for development.

The subject property is currently surrounded by agricultural fields to the north, east/northeast and west. An existing subdivision – classified as R-1 – is located south of the subject property and within the Village limits. A residential area, classified as rural residential, is located east of the subject property. In addition, there are two residential properties located along the west and southeast boundary of the subject property. The existing residential property located along the west boundary of the subject property will be included in the USAA. Map 3.3A indicates the existing land uses in the surrounding area.

Plan Consistency and Need

1.1 Consistency within the Comprehensive Plan

The proposed USA amendment is consistent with the Future Land Use Plan outlined in the Waunakee – Westport Comprehensive Plan. Per Chapter 7, Land Use. The Future Land Use Map shows the subject property with community residential development, which coincides with the future vision for the subject property. The Future Land Use Map can be found on the Village of Waunakee website at the following link: https://www.vil.waunakee.wi.us/761/Comprehensive-Planning.

In addition, the proposed USA amendment aligns with the 2018 Village of Waunakee Sanitary Sewer Comprehensive Plan. Per Section 4, the Ultimate Sewer Area shows the subject property with future residential flows contributing to the Village of Waunakee, which coincides with the planned development of the subject property. The Village Board met on December 15, 2025 to discuss the resolution supporting the USAA application. The draft resolution is attached in Appendix B.

1.2 Neighborhood / Area Plans

There are no Village neighborhood or special area plans applicable to the subject property.

1.3 Need for the Addition to the Waunakee USA

The addition of the subject property to the Waunakee USA would allow for orderly development of land currently in agricultural use. The Village of Waunakee is a growing community, and as a result, there is limited area for the Village to grow and expand. From the 2020 U.S. Census to the 2024 U.S Census, the Village population increased 9.8% from 14,879 to 16,363 residents. The 2017 Waunakee Comprehensive Plan indicated that the Village is projected to have a population of 17,530 by year 2040. This is a 45% increase in population from the year 2010, which exceeds the projected growth rate of the State of Wisconsin (14%) from 2010 to 2040. The expected residential growth reinforces the need for residential housing within the Village of Waunakee.

The amendment also supports Goal 3 outlined in the 2017 comprehensive Plan's Chapter 4 Goals Objectives, Policies, and Programs, which states:

Goal 3- New housing development will be timed and phased to coordinate with market demand and public services capacity.

Intergovernmental Cooperation

2.1 Notification of Adjacent Local Governments

The subject property is located within the Town of Vienna, which shares a border with the Village of Waunakee (see Map 3.1). The Town of Westport is located east of the Village also shares a border with the Village of Waunakee.

The Village Board has communicated the plans to annex the subject property with the Town of Vienna and has notified the Town of Westport regarding these plans. In addition, the Village Board has informed Village residents of the proposed annexation through board meetings and local newspaper announcements. Documentation of the notifications can be found in Appendix B.

2.2 Adjacent Local Governmental Objections or Support

No objections to the proposed Waunakee USA have been received to date by the Town of Vienna, Town of Westport, or the Village. The Village understands CARPC staff will compile all objections and support for the USA Amendment.

Land Use

3.1 Proposed USA Boundary Map

The proposed amendment area includes 76-acres of agricultural land and wetlands to be annexed into the Village of Waunakee Urban Service Area. The proposed boundary map is shown in Map 3.1 in Appendix A.

3.2 Existing and Proposed Land Uses Table

The existing and proposed land uses within the USAA area are summarized in the table below and shown in Map 3.2 of Appendix A.

Table 3.2: USA Amendment Area Data

Proposed Land Use	Existing Development (acres)	Proposed Land Use (acres)	Proposed Environmental Corridor (acres)	Number of Housing Units
Single Family Residential	0.6	15.2		83
Multi-Family Residential		15.7		132
Street ROW		4.8		
Stormwater		6.3	6.3	
Other Open Space (Agricultural/Trails/Wetland/Parks)	76.1	34.6	34.6	
Total	**76.7**	**76.7**	**27.4**	**215**

3.3 Existing and Proposed Land Uses Map

The existing and proposed land uses within the USA is indicated in Maps 3.3A and 3.3B of Appendix A.

3.4 Housing

The subject property will have residential housing options which include single family lots and multi-family rental units. Within the proposed USA boundary, there are 82 proposed single-family lots, 132 multi-family rentals and one (1) existing single-family lot.

Natural Resources

4.1 Natural Resources

The subjected property has two (2) WDNR mapped wetlands within the boundary. The majority of the existing property is generally sloping to the southwest, where a wetland is present. The east-central area slopes to an internally drained area, which overflows to the southwest. The northern third of the subject property slopes northwest to the wetland on the north/northeast area of the subject property. Map 4.1A shows the topography and wetlands for the subject property. A floodplain adjacent to the subject property is also depicted in Map 4.1A. Soils information for the subject property is depicted in Map 4.1B. The groundwater recharge for the subject property is 9 in/yr for the southwest area and 10 in/yr for the remaining site per CARPC Groundwater Resources. Proposed drainage across the subject property will be handled by new storm sewer and stormwater best management practices. See Sections 5.9 and 5.10 for more information. Stormwater management plans for this area will be coordinated with the Village of Waunakee and Dane County, as appropriate.

4.2 Outlots: Parks and Stormwater Management Facilities

Outlots intended for parks and stormwater management facilities are indicated on the proposed Land Use Map (See Appendix A, Map 3.2). A network of off-street paths, including a multi-use path, and on-street sidewalks will provide connectivity throughout the development and to neighboring subdivision to the south.

4.3 Environmental Corridors

The existing environmental corridors are depicted in Map 4.3 in Appendix A.

4.4 Proposed Environmental Corridors Map

Proposed environmental corridors are shown on Map 4.3 in Appendix A and include a 75-ft buffer surrounding the existing wetlands located in the northern and southwestern portions of the subject property. The environmental corridors also include parks, stormwater, and other open spaces for the subject property. In addition, an unnamed intermittent stream, which is tributary to Sixmile Creek, is located in the northern area of the property. The stream will include a 75-ft buffer, if deemed navigable, which is shown in Map 4.3A. The Wetland Delineation Report can be found in Appendix C.

Future development will comply with the Village policies that required the protection of environmentally sensitive lands, including surface and groundwater resources.

Utilities and Stormwater

5.1 Description and Map of Proposed Sanitary Sewer Extension

The amendment area will be served by a gravity sewer system flowing to a proposed lift station located on the western portion of the amendment area. The lift station will discharge to an existing manhole approximately 2,300-ft south of the parcel, along Madison Street. The 8-inch gravity main along Madison Street drains to the Northeast interceptor, which ultimately flows southeast to the MMSD interceptor. The proposed amendment area sanitary sewer will include 8-inch gravity main and a 6-inch force main to discharge from the lift station to the manhole along Madison Street. In addition, a sanitary stub will be located on the eastern portion of the amendment area for future development. See Map 5.1 for the proposed sanitary utility layout.

5.2 Estimated Average Daily and Peak Wastewater Flows

The average daily and peak wastewater flows were estimated using the planned amendment area land use information. A peaking factor of 4.0 was used per NR 110. The planned land use for the amendment area is residential. The average daily flow of the amendment area is 47,300 gallons per day (gpd) and the peak wastewater flow is 145 gallons per minute (gpm), which includes inflow and infiltration. The forecasted sanitary loadings and proposed land uses are depicted below in Table 5.2.

Table 5.2: USAA Wastewater Loadings

Basin	Basin Area (acres)	Single Family Housing Units[(1)]	Gross Density (unit/acre)	Average Daily Wastewater Flow (gpd)	Estimated I/I (gpd)	Average Sanitary Loading (gpd)	Peak Sanitary Loading (gpm)
USAA	56.4	215	3.8	47,300	19,007	66,307	145

(1) Units include Single Family Lots, Single-Story Homes, and Townhomes.
(2) The Amendment area is within the Northeast Basin.
(3) Peak Sanitary Loading = Average Daily Wastewater Generation*PF + Estimated Infiltration & Inflow.
Factors Used:
2.75 persons/dwelling units (2017-2021 Census)
80 gallons per capita per day (gpcd) per residential flow metering data
4.0 peaking factor for a basin size < 250 acres
105 gallons per day per acre (gpd/ac) infiltration
232 gallons per day per acre (gpd/ac) inflow
References: Sanitary Sewer Comprehensive Plan - Village of Waunakee, Wisc. Strand Assoc., Dec. 2018, Sections 2, 3 and 4.

5.3 Current Average Daily Flow for Interceptor Sewer

The amendment area will flow to a lift station which discharges to an 8-inch sanitary sewer to the south along Madison Street. The 8-inch sanitary drains south to a 12-inch interceptor which ultimately flows through series of interceptor mains to the MMSD interceptor. When analyzing the impacts to the downstream interceptor sewers, the peaking factor is reduced to 2.5 and applied to each basin due to the overall increased basin size. The downstream interceptor analysis includes flows from the USA basin; the Northeast Basin, which consists of 3 subbasins (NE-1, NE-2 and NE-3); the Northwest Basin; Sixmile Basin; and the Division St. Basin. Map 5.3 illustrates the basins and Table 5.2 summarizes the sanitary flows to the MMSD interceptor.

Table 5.3 – Wastewater USAA and Service Area Loadings Interceptor Analysis

Service Area[1]	Average Daily Sanitary Loading (gpd)	Peak Sanitary Loading (gpm)
USA (Lift Station)	47,300	95
Northeast Basin - NE-3[2]	20,240	46
Northeast Basin - NE-2[2]	59,200	135
Northeast Basin - NE-1[2]	31,040	68
Northwest	116,560	266
Sixmile	371,361	789
Division Street	326,920	586
Total	**972,621**	**1,985**

(1) The USAA area is proposed, and the remaining areas are existing.
(2) The existing Northeast service area consists of three basins, NE-1, NE-2 and NE-3 per the 2018 Sewer Comp Plan.
(3) Existing flows per the Sanitary Sewer Comprehensive Plan - Village of Waunakee, Wisc. Strand Assoc., Dec. 2018, Appendix B Existing Flows
(4) Peak Sanitary Loading = Average Daily Wastewater Generation*PF + Estimated Infiltration & Inflow.

Factors Used:
2.75 persons/dwelling units (2017-2021 Census)
80 gallons per capita per day (gpcd) per residential flow metering data
2.5 peaking factor
105 gallons per day per acre (gpd/ac) infiltration
232 gallons per day per acre (gpd/ac) inflow

References: Sanitary Sewer Comprehensive Plan - Village of Waunakee, Wisc. Strand Assoc., Dec. 2018

5.4 Interceptor Sewer Capacity to Serve the USA and Ultimate Development

The amendment area flows to a series of interceptors before ultimately discharging to the MMSD interceptor. Initially, the amendment area flows south through an 8-inch sanitary sewer to the 12-inch Northeast Interceptor, which also receives flows from the existing NE-2 and NE-3 basins. From there, the Northeast interceptor connects to the 12-inch Northeast/Northwest Interceptor, combining flows from the entire Northeast basin (NE-1, NE-2 and NE-3) and Northwest basins. This combined flow continues to the 21-inch Sixmile Interceptor, which also receives additional flow from the Sixmile basins. The Sixmile Interceptor then conveys flow to the 24-inch Sixmile/Division Street Interceptor, which also receives flow from the Division Street basin. The Sixmile/Division St. Interceptor then discharges to the MMSD interceptor as shown in Map 5.4. Table 5.4A depicts the estimated future flows and capacities for the downstream interceptors for the amendment area.

Table 5.4A – Proposed USA Downstream Interceptor Sewer Capacities

Interceptor	Interceptor Size (in)	Average Daily Sanitary Loading (gpd)	Peak Sanitary Loading[5] (gpm)	Interceptor Theoretical Capacity[6] (gpm)
Northeast Interceptor[1]	12	126,740	276	696 - 750
Northeast/Northwest Interceptor[2]	12	274,340	610	553 - 750
Sixmile Interceptor[3]	21	645,701	1,399	2,465 - 5,777
Sixmile/Division St Interceptor[4]	24	972,621	1,985	5,467 - 5,562
Total (to MMSD)		**972,621**	**1,985**	

(1) The Northeast Interceptor along N Fairbrook Drive includes the USA and existing Northeast basins NE-2 and NE-3.
(2) The Northeast/Northwest Interceptor along Fairbrook Drive includes flows from the USA and existing Northeast (NE-, NE-2 and NE-3) and Northwest Basins.
(3) The Sixmile Interceptor includes flows from the USA and existing Northeast, Northwest, and Sixmile Basin areas.
(4) The Sixmile/Division St Interceptor includes flows from the Northeast, Northwest, Division St and Six Mile Basins, and discharges to the MMSD interceptor
(5) Peak Sanitary Loading = Average Daily Wastewater Generation*PF + Estimated Infiltration & Inflow.
(6) Capacity is based on an *n*-value of 0.013 and pipes flowing full per the 2018 Sewer Comp Plan.
Factors Used:
2.75 persons/dwelling units (2017-2021 Census)
80 gallons per capita per day (gpcd) per residential flow metering data
2.5 peaking factor per NR 110 for interceptor
105 gallons per day per acre (gpd/ac) infiltration
232 gallons per day per acre (gpd/ac) inflow
References: Sanitary Sewer Comprehensive Plan - Village of Waunakee, Wisc. Strand Assoc., Dec. 2018

The 2018 Sanitary Sewer Comprehensive Plan (2018 Sanitary Comp Plan), completed by Strand Associates, indicated capacity issues along the Northeast/Northwest Interceptor sewer that limits additional development in the northern region of the ultimate development area. However, further flow monitoring was performed by Strand Associates in 2024 to evaluate the peak flow rates and available capacity for the interceptor. The Letter indicated that there are no capacity issues in the existing Northeast/Northwest interceptor based on the flow monitoring analysis results. The 2018 Sanitary Sewer Comprehensive Plan and 2024 Flow Monitoring Program Letter are included in Appendix D. See Table 5.4B for a summary of the proposed USAA interceptor capacities using the flow monitoring results and Figure 2 of the 2024 Flow Monitoring Program Letter for the observed peak flows and available capacities for the interceptors monitored.

Table 5.4B – Proposed USA Downstream Interceptor Peak Flows per Flow Monitoring Results

Interceptor	2024 Peak Observed Flow[1] (gpm)	Peak Sanitary Loading (gpm)	Interceptor Theoretical Capacity (gpm)
8-inch Sanitary Sewer[2]	37	132	345
Northeast Interceptor[3]		172	696 - 750
Northeast/Northwest Interceptor[4]	283	378	553 - 750
Sixmile Interceptor[5]		1,167	2,465 - 5,777
Sixmile/Division St Interceptor[5]		1,753	5,467 - 5,562
Total (to MMSD)		**1,753**	

(1) Peak observed flow per the 2024 Flow Monitoring Program. See Figure 2 of the 2024 Flow Monitoring Program Letter for the observed peak flows and remaining capacities.
(2) 8-Inch Sanitary Sewer represents the sanitary sewer along Madison St and Greenbrier Dr.
Peak Flow = 2024 Peak Observed Flow + Calculated USAA Peak Sanitary Loading.
(3) The existing Northeast interceptor peak flow, located along N Fairbrook Dr, was determined based on the flow monitoring results of the three flow meters. See Figure 2 of the 2024 Flow Monitoring Program Letter for the observed peak flows and remaining capacities of each flow meter. Northeast Peak Flow = Meter C Peak Observed Flow – (Meter A Peak Observed Flow - Meter B Peak Observed Flow) + Calculated USAA Peak Sanitary Loading.
(4) The existing Northeast/Northwest interceptor peak flows is based on flow monitoring results.
Peak Flow = 2024 Peak Observed Flow + Calculated USAA Peak Sanitary Loading.
(5) Sixmile and Division St Interceptors Peak Sanitary Loading = Average Daily Wastewater Generation*PF + Estimated Infiltration & Inflow.
(6) Theoretical Capacity is based on an *n*-value of 0.013 and pipes flowing full per the 2018 Sewer Comp Plan.
Factors Used:
2.75 persons/dwelling units (2017-2021 Census)
80 gallons per capita per day (gpcd) per residential flow metering data
2.5 peaking factor per NR 110 for interceptor
105 gallons per day per acre (gpd/ac) infiltration
232 gallons per day per acre (gpd/ac) inflow
References: Sanitary Sewer Comprehensive Plan - Village of Waunakee, Wisc. Strand Assoc., Dec. 2018, 2024 Flow Monitoring Program - Village of Waunakee, Wisc. Strand Assoc., July 2024

The ultimate design flow for the proposed USA Lift Station was analyzed along with the downstream interceptors. Based on the 2018 Sanitary Comp Plan Appendix B – Future Flows and Calculations, the peak flow for the ultimate development of the Northeast Basin, which includes the USA, is 475 gpm. Table 5.4C summarizes the peak flows and interceptor capacities for the ultimate development area based on the 2024 Flow Monitoring Results. See Map 5.4 for the ultimate development basin.

The downstream interceptors were evaluated for the Northeast Basin Ultimate Development area to verify the interceptors would not exceed capacity under the future conditions. Using the 2024 Flow Monitoring results and the 2018 Sanitary Comp Plan loading projections for the Northeast Basin, the analysis indicated that both the downstream 8-inch sanitary sewer and the 12-inch Northeast/Northwest Interceptor would exceed their theoretical capacities under full buildout conditions. To address the exceedance, the Northeast Basin Ultimate Development area was reduced by 56% of the original area (515 acres to 288 acres). With the reduction to the contributing area, the peak flow of the 8-inch sanitary and the interceptor are 305 and 549 gpm, respectively. Table 5.4C summarizes the results.

Table 5.4C – Ultimate Proposed Downstream Interceptor Peak Flows per Flow Monitoring Results

Interceptor	Interceptor Size (in)	2024 Peak Observed Flow[2] (gpm)	Ultimate Peak Flow[1] (gpm)	Ultimate Peak Flow 56% (gpm)	Interceptor Theoretical Capacity (gpm)
Ultimate Sanitary Sewer Ext.	12		475	266	695 - 750
8-inch Sanitary Sewer[3]	8	37	512	303	345
Northeast Interceptor	12		552	380	696 - 750
Northeast/Northwest Interceptor	12	283	758	549	553 - 750
Six-Mile Interceptor	12		1,547	1,338	2,465 - 5,777
Six-Mile/Division St Interceptor	21		2,133	1,924	5,467 - 5,562
Total (to MMSD)	24			**1,924**	

(1) Based on the Ultimate Sanitary flows from the Northeast Basin Ultimate Development Area (total 515 acres).
(2) 2024 Peak Observed flow is the 15-Minute peak flow per 2024 Flow Monitoring.
(3) 8-Inch Sanitary Sewer represents the sanitary sewer along Madison St and Greenbrier Dr.
(4) The Northeast and Northeast/Northwest interceptor peak flows calculated based on flow monitoring results
(5) Six-Mile and Division St Interceptors Peak Sanitary Loading = Average Daily Wastewater Generation*PF + Estimated Infiltration & Inflow.
(6) Capacity is based on an *n*-value of 0.013 and pipes flowing full per the 2018 Sewer Comp Plan.

Factors Used:
2.75 persons/dwelling units (2017-2021 Census)
80 gallons per capita per day (gpcd) per residential flow metering data
2.5 peaking factor per NR 110 for interceptor
105 gallons per day per acre (gpd/ac) infiltration
232 gallons per day per acre (gpd/ac)
inflow

References: Sanitary Sewer Comprehensive Plan - Village of Waunakee, Wisc. Strand Assoc., Dec. 2018, 2024 Flow Monitoring Program - Village of Waunakee, Wisc. Strand Assoc., July 2024

5.5 Map of Proposed Water Main Extension

The proposed USA will be connected to the existing distribution system by extending a 10-inch water main from the south along Madison Street and 8-inch from the south to Easy Street to the subject property. Water main to serve the amendment area will be 8-inch. In addition, a water main stub will be located on the eastern portion of the amendment area for future development. The proposed water main extension is shown on Map 5.5 found in Appendix A.

5.6 Estimate of Average Daily and Peak Hourly Water Demand

The proposed USA has a total of 76.6 acres, with 31 acres of residential use and 46 acres of wetlands, open space, right-of-way and outlots. Based on the land uses and residential water demand of 83 gallons per day per capita (gpcd), the forecasted average daily water use for the amendment area is 49,100 gpd. Using a conservative peaking factor of 5.0, the peak hourly water usage is 193 gpm.

Table 5.6 – USAA Water Demands

Service Area	Total Basin Area acres	Non-Contributing Area acres	Residential Single Family Basin Area acres	Housing Units	Population	Average Day Water Demand (gpd)	Average Daily Pumpage (gpd)	Maximum Day pumpage (gpd)	Peak Hourly Water Demand (gpm)
USA	76.6	46	30.9	215	591	48,846	55,794	139,490	194

Factors Used:
2.75 persons/dwelling units (2017-2021 Census)
83 gallons per capita per day (gpcd) per 2022 - 2024 Census and average day demands
2.5 peaking factor for maximum day
88% sales to pumpage ration per 2018 Water System Update
2.0 Peak Hourly/Max. Day
References: Water System Study Update - Village of Waunakee, Wisc. Strand Assoc., Dec. 2018
PSC WEGS Annual Reports – 2022, 2023, 2024

5.7 Current Average Daily and Peak Hourly Water Demand

According to the Village's most recently available report (2024) to the Public Service Commission of Wisconsin, the annual pumpage in 2024 was 567,203,000 gallons. The average daily demand on the water system is 1,491,00 gpd, based on October 2024 water demand data. Using a maximum day demand factor of 2.5 and a peak hour demand factor of 2.0, the estimated peak hourly water demand is 5,177 gpm.

5.8 Current Water Supply System Capacity

The Village's water supply, storage and distribution system is comprised of five (5) (four active) groundwater wells, four (4) elevated storage tanks, three (3) booster stations, and one (1) underground reservoir. Currently, Well No. 2 is temporarily out of service. The distribution system includes 78 miles of water main ranging from to 6 - 12 inches in diameter. The wells (including Well No. 2) have a total capacity of 5,320 gpm (7.66 MGD) and a firm capacity of 4,020 gpm (5.79 MGD) assuming Well No. 3 out of service. The combined storage capacity of the elevated storage tanks and reservoir is 1,350,000 gals. The elevated storage tanks provide acceptable pressures (35 - 100 psi) from elevations of 830 – 960 feet MSL.

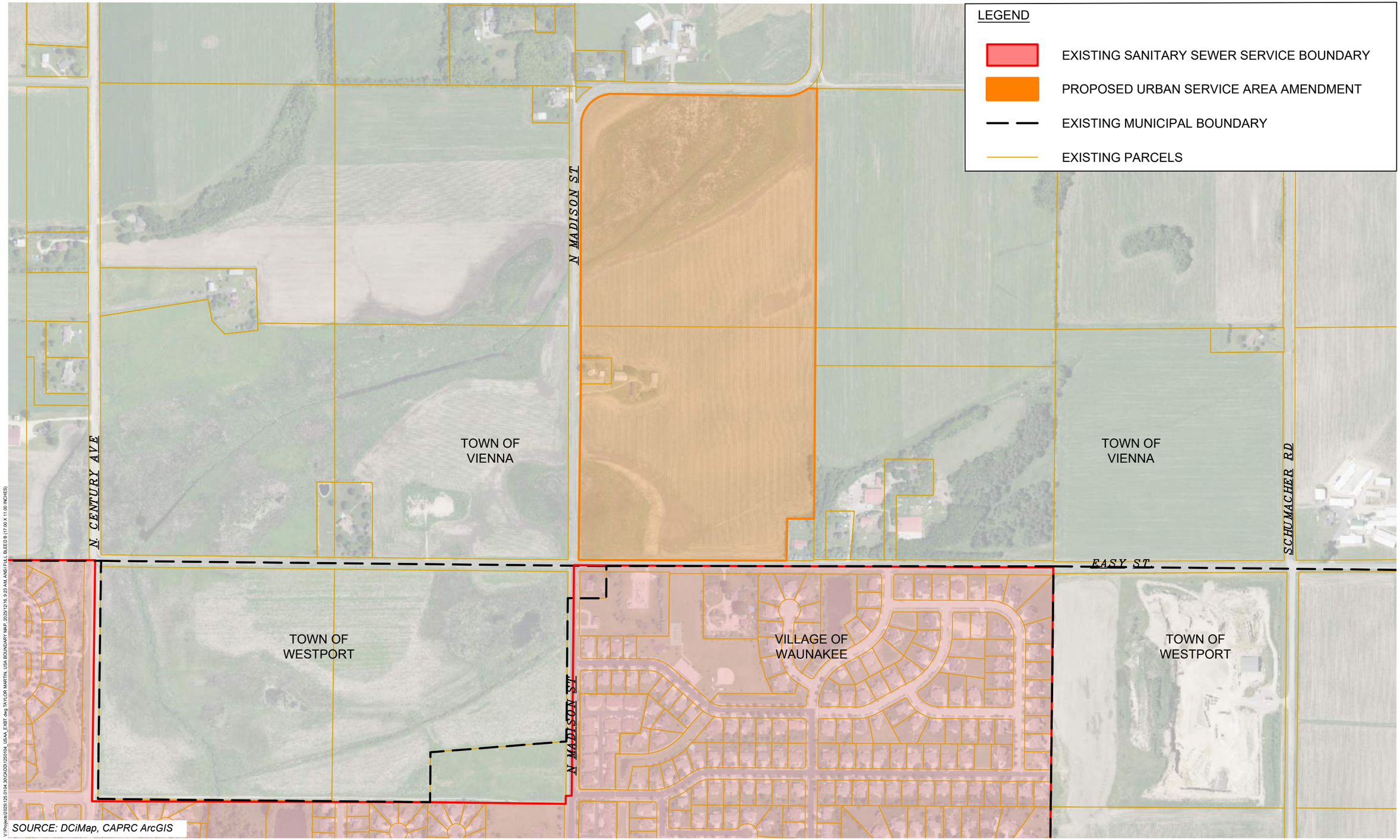
The Village's water supply and storage are adequate for the USA per the 2018 Water System Study Update Report. To support future growth, the Village also plans to construct an elevated storage tank within the southwest development area to expand system capacity and improve service reliability.

5.9 & 5.10 Proposed Stormwater Management Standards & Management Plan

The proposed amendment area will drain to systems of stormwater best management practices devices located in the north and south regions of the subject parcel. The areas dedicated to stormwater management will meet Village, County and State requirements for treatment, infiltration, and rate control at the time of plan approval and permitting. Wetlands exist at the

northern region and southwest corner of the subject parcel. To protect these areas, a 75-ft environmental corridor will be placed around the wetlands in addition to stormwater best management practices (BMPs). The south stormwater area will be placed in a public outlot and dedicated to the Village. The northern stormwater pond will be privately owned and managed by Heyday. There are no anticipated impacts to downstream drainage patterns. See Map 5.9 in Appendix A for proposed locations of stormwater management facilities. Upon commencement of any construction projects in the amendment area, the project contractor will be responsible for maintaining all stormwater facilities and erosion control standards throughout construction. After construction, the required stormwater long-term maintenance activities, timeline and agreements will be completed by Heyday and the Village. This will include the dedication of the public outlot to the Village for ownership and long-term maintenance of the southern stormwater management area and a recorded stormwater maintenance agreement for the northern stormwater management area.

Appendix A – Maps



V:\Projects\2025\125.01\04.30\CAD\125.0104_USAA_EXBT.dwg TAYLOR MARTIN, USA BOUNDARY MAP, 2025/12/16, 9:23 AM, ANSI FULL BLEED B (17.00 X 11.00 INCHES)

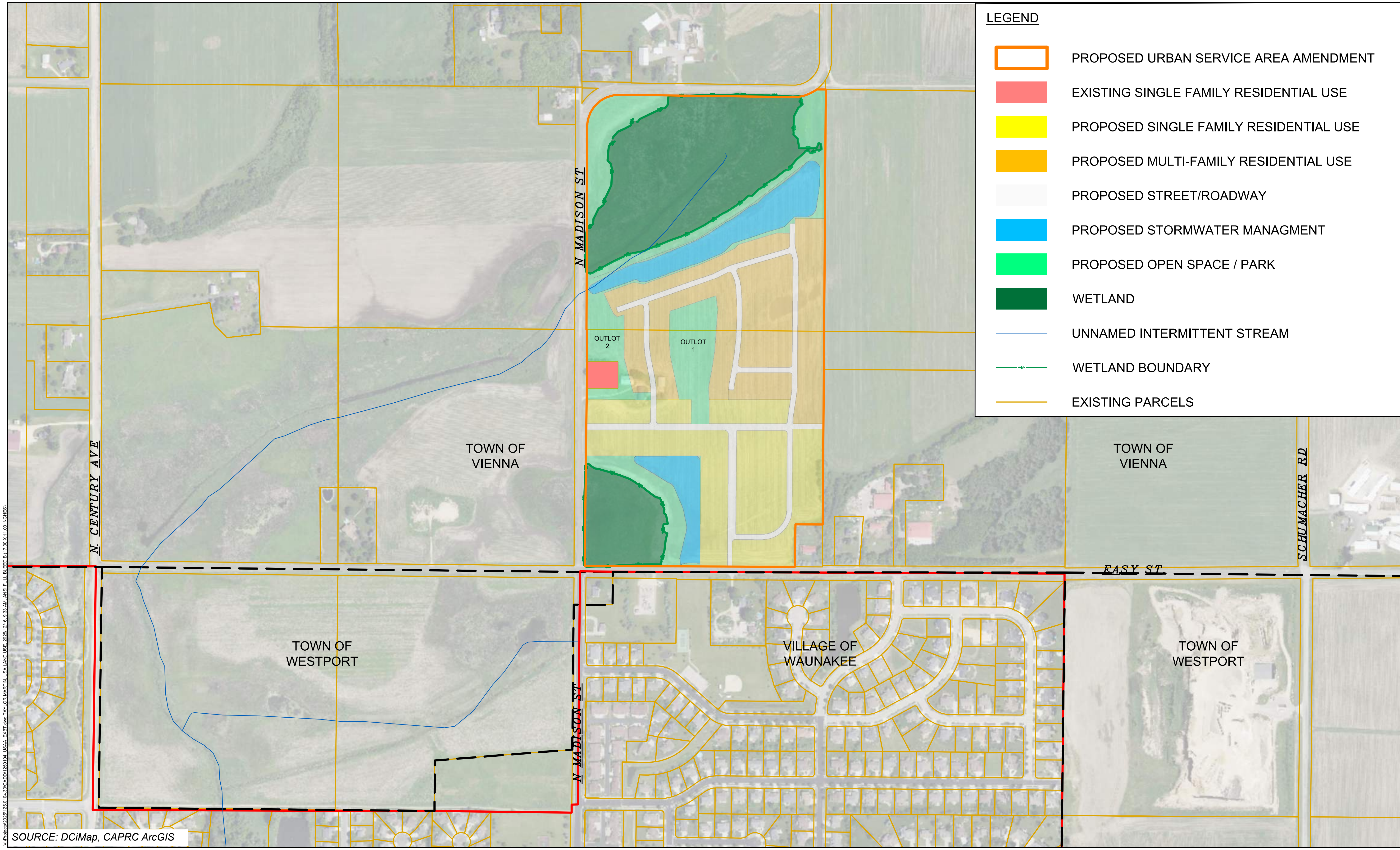
SNYDER & ASSOCIATES

0 500
FEET

MAP 3.1 PROPOSED URBAN SERVICE AREA AMENDMENT BOUNDARY

WAUNAKEE USA

VILLAGE OF WAUNAKEE/TOWN OF VIENNA, DANE COUNTY, WI | 12/16/2025


LEGEND
PROPOSED URBAN SERVICE AREA AMENDMENT
EXISTING SINGLE FAMILY RESIDENTIAL USE
PROPOSED SINGLE FAMILY RESIDENTIAL USE
PROPOSED MULTI-FAMILY RESIDENTIAL USE
PROPOSED STREET/ROADWAY
PROPOSED STORMWATER MANAGMENT
PROPOSED OPEN SPACE / PARK
WETLAND
UNNAMED INTERMITTENT STREAM
WETLAND BOUNDARY
EXISTING PARCELS
N MADISON ST
N. CENTURY AVE
SCHUMACHER RD
EASY ST
OUTLOT 2
OUTLOT 1
TOWN OF VIENNA
TOWN OF VIENNA
TOWN OF WESTPORT
VILLAGE OF WAUNAKEE
TOWN OF WESTPORT
N MADISON ST
SOURCE: DCiMap, CAPRC ArcGIS

SNYDER & ASSOCIATES

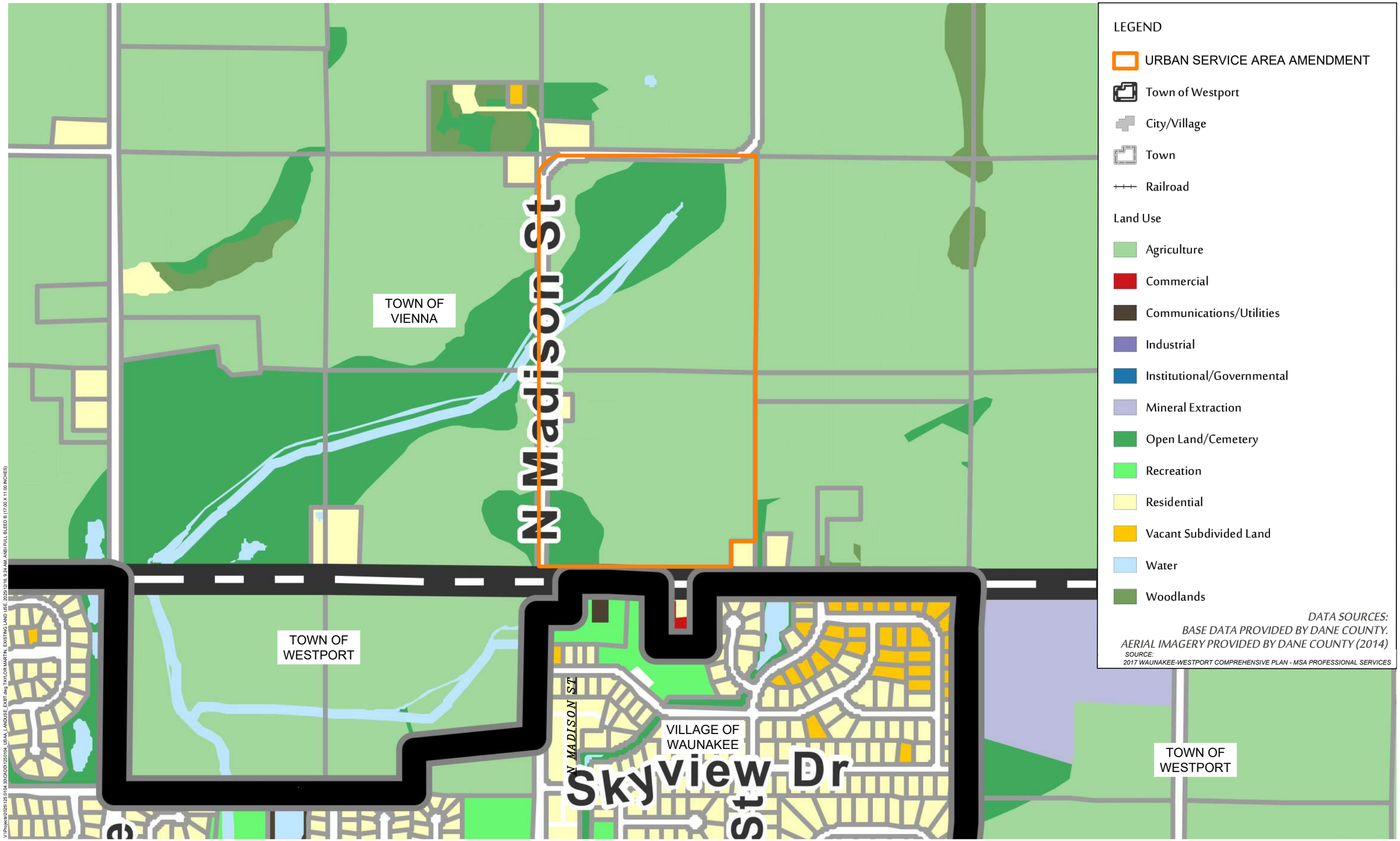
0 500 FEET

N

MAP 3.2 LAND USE MAP

WAUNAKEE USA

VILLAGE OF WAUNAKEE/TOWN OF VIENNA, DANE COUNTY, WI | 12/16/2025



V:\Projects\2025\125-0104.30\CAD\D\125i0104_USAA_LANDUSE_EXIST.dwg TAYLOR MARTIN_EXISTING LAND USE 2025-12-16, 9:29 AM, ANSI FULL BLEED B (17.00 X 11.00 INCHES)

SNYDER & ASSOCIATES

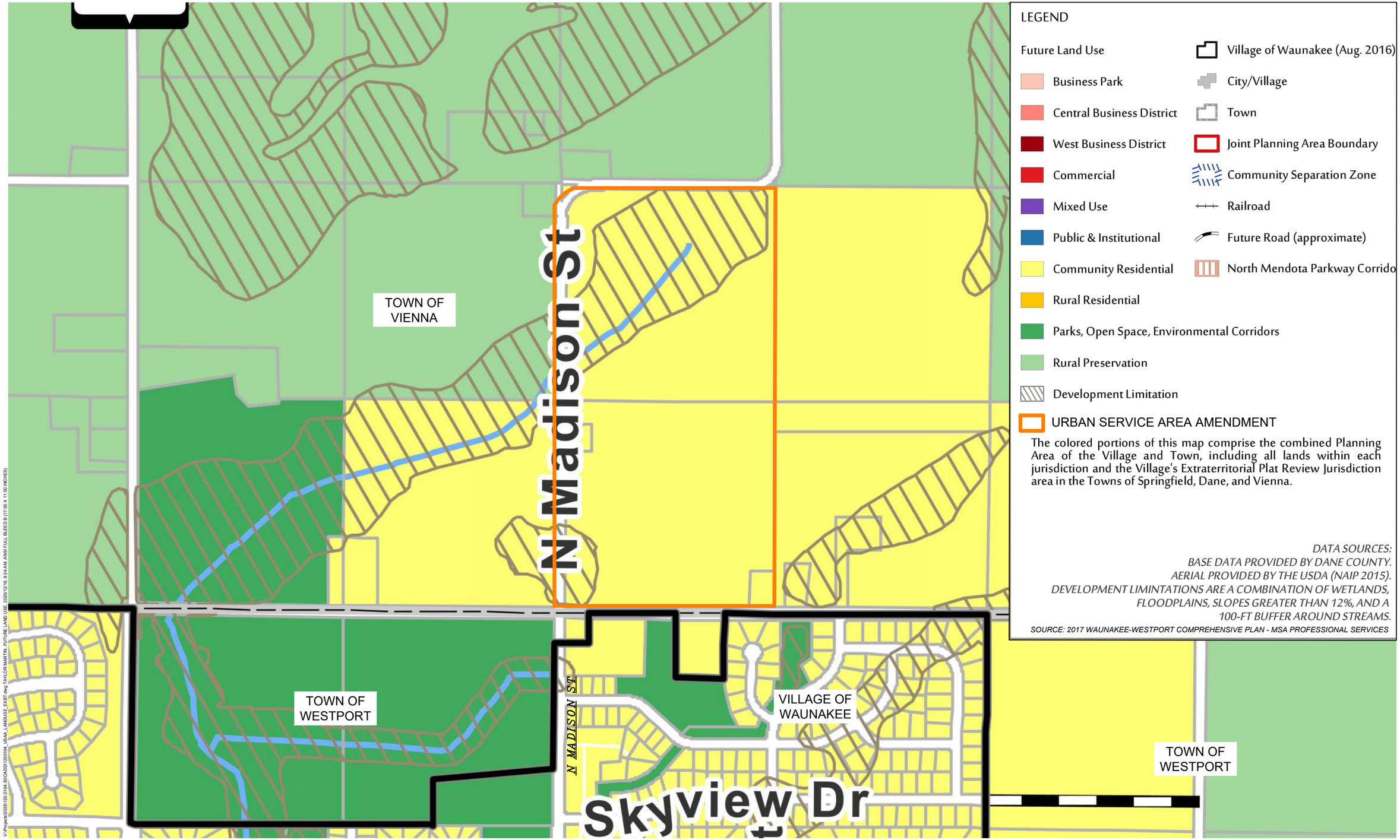
0 0
FEET

N

MAP 3.3A EXISTING LAND USE

WAUNAKEE USA

VILLAGE OF WAUNAKEE/TOWN OF VIENNA, DANE COUNTY, WI | 12/16/2025



LEGEND

Future Land Use

- Business Park
- Central Business District
- West Business District
- Commercial
- Mixed Use
- Public & Institutional
- Community Residential
- Rural Residential
- Parks, Open Space, Environmental Corridors
- Rural Preservation
- Development Limitation

- Village of Waunakee (Aug. 2016)
- City/Village
- Town
- Joint Planning Area Boundary
- Community Separation Zone
- Railroad
- Future Road (approximate)
- North Mendota Parkway Corrido

URBAN SERVICE AREA AMENDMENT

The colored portions of this map comprise the combined Planning Area of the Village and Town, including all lands within each jurisdiction and the Village's Extraterritorial Plat Review Jurisdiction area in the Towns of Springfield, Dane, and Vienna.

DATA SOURCES:
BASE DATA PROVIDED BY DANE COUNTY.
AERIAL PROVIDED BY THE USDA (NAIP 2015).
DEVELOPMENT LIMINTATIONS ARE A COMBINATION OF WETLANDS, FLOODPLAINS, SLOPES GREATER THAN 12%, AND A 100-FT BUFFER AROUND STREAMS.

SOURCE: 2017 WAUNAKEE-WESTPORT COMPREHENSIVE PLAN - MSA PROFESSIONAL SERVICES

V:\Projects\2025\125.0104.30\CAD\D125010A_USAA_LANDUSE_EXIST.dwg TAYLOR MARTIN, FUTURE LAND USE, 2025/12/16, 9:24 AM, ANSI FULL BLEED B (17.00 X 11.00 INCHES)

SNYDER & ASSOCIATES

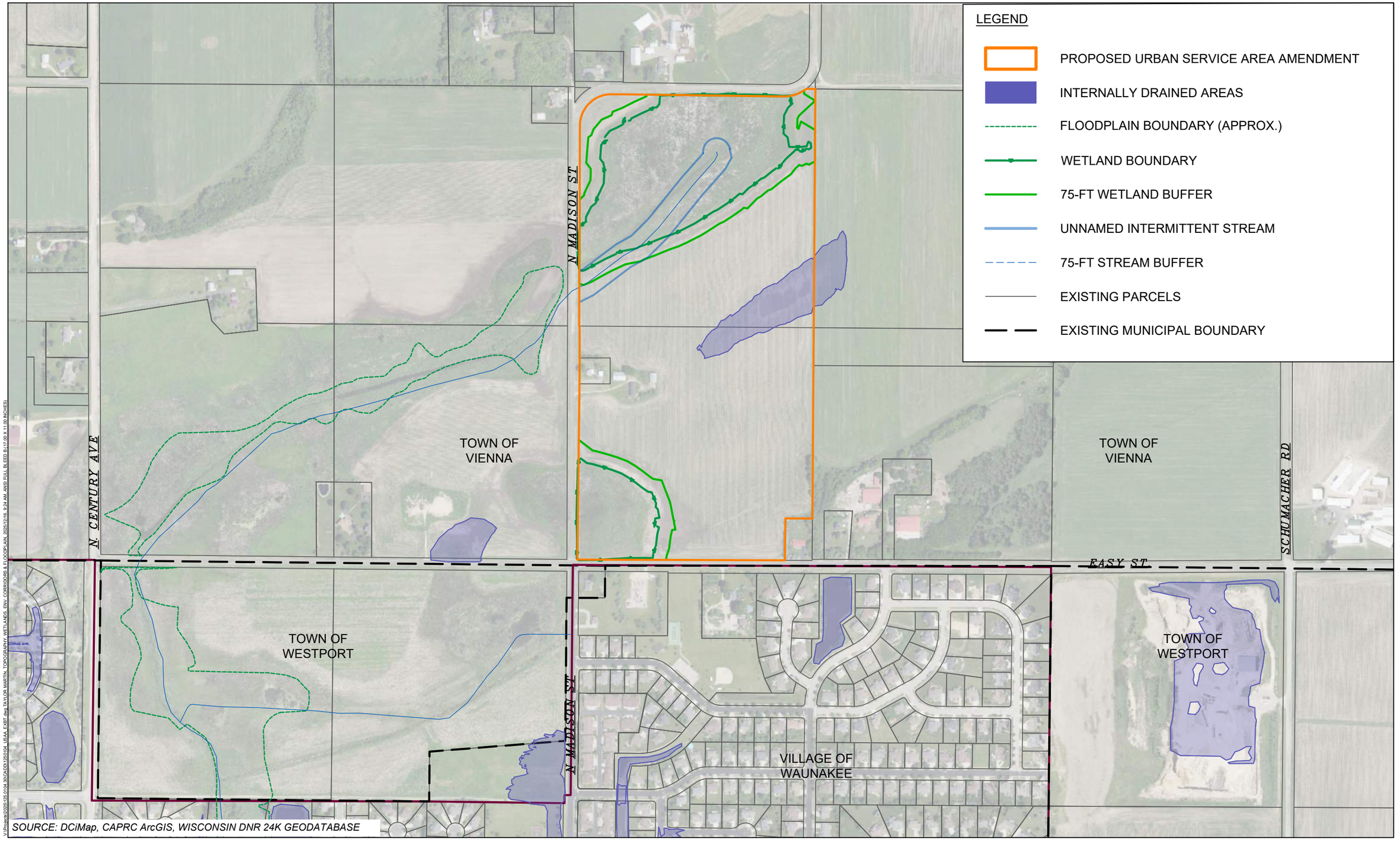
0 0
FEET

N

MAP 3.3B FUTURE LAND USE

WAUNAKEE USA

VILLAGE OF WAUNAKEE/TOWN OF VIENNA, DANE COUNTY, WI | 12/16/2025



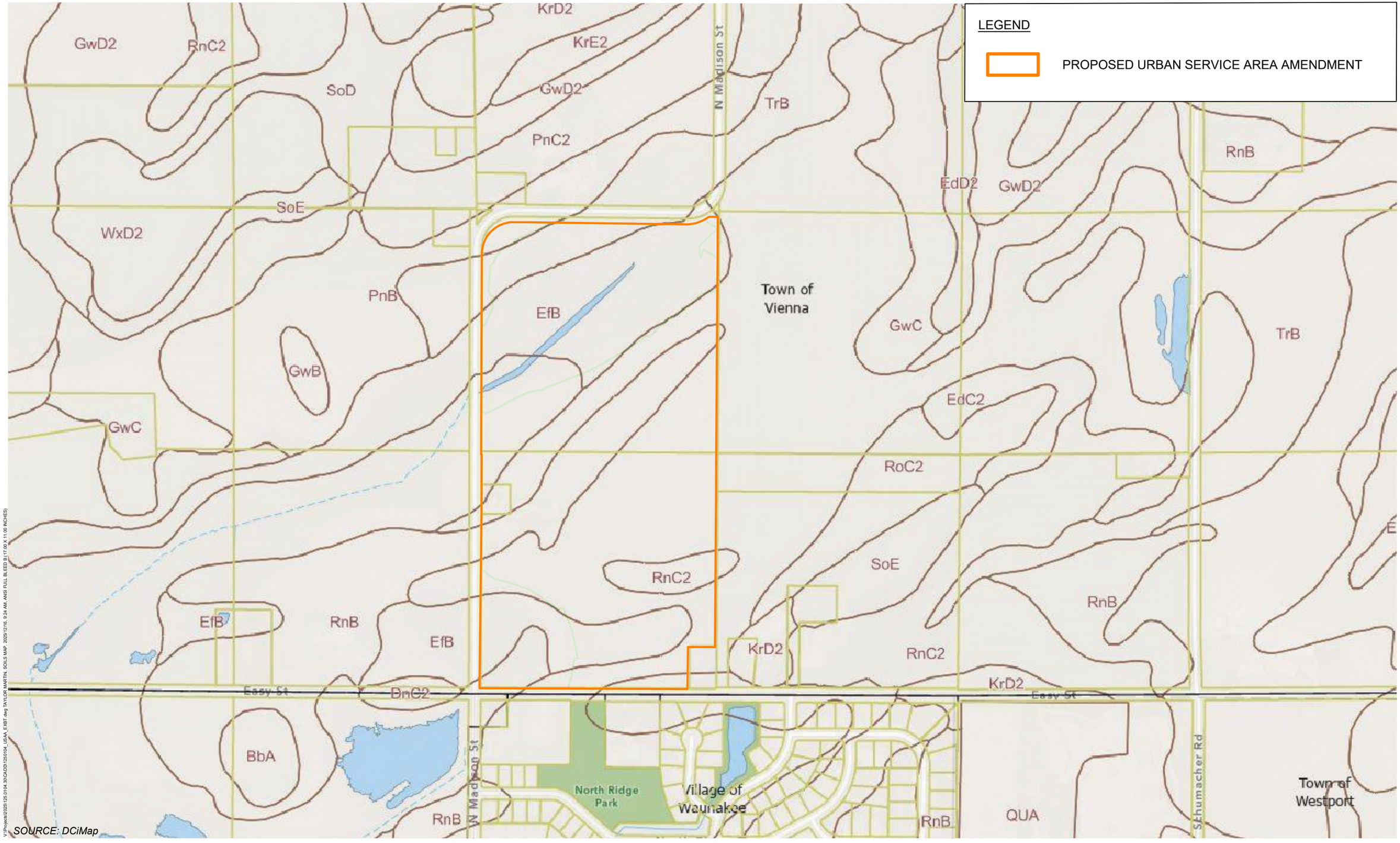
SNYDER & ASSOCIATES

0 500 FEET

MAP 4.1A TOPOGRAPHY, FLOODPLAINS AND WETLANDS

WAUNAKEE USA

VILLAGE OF WAUNAKEE/TOWN OF VIENNA, DANE COUNTY, WI | 12/16/2025



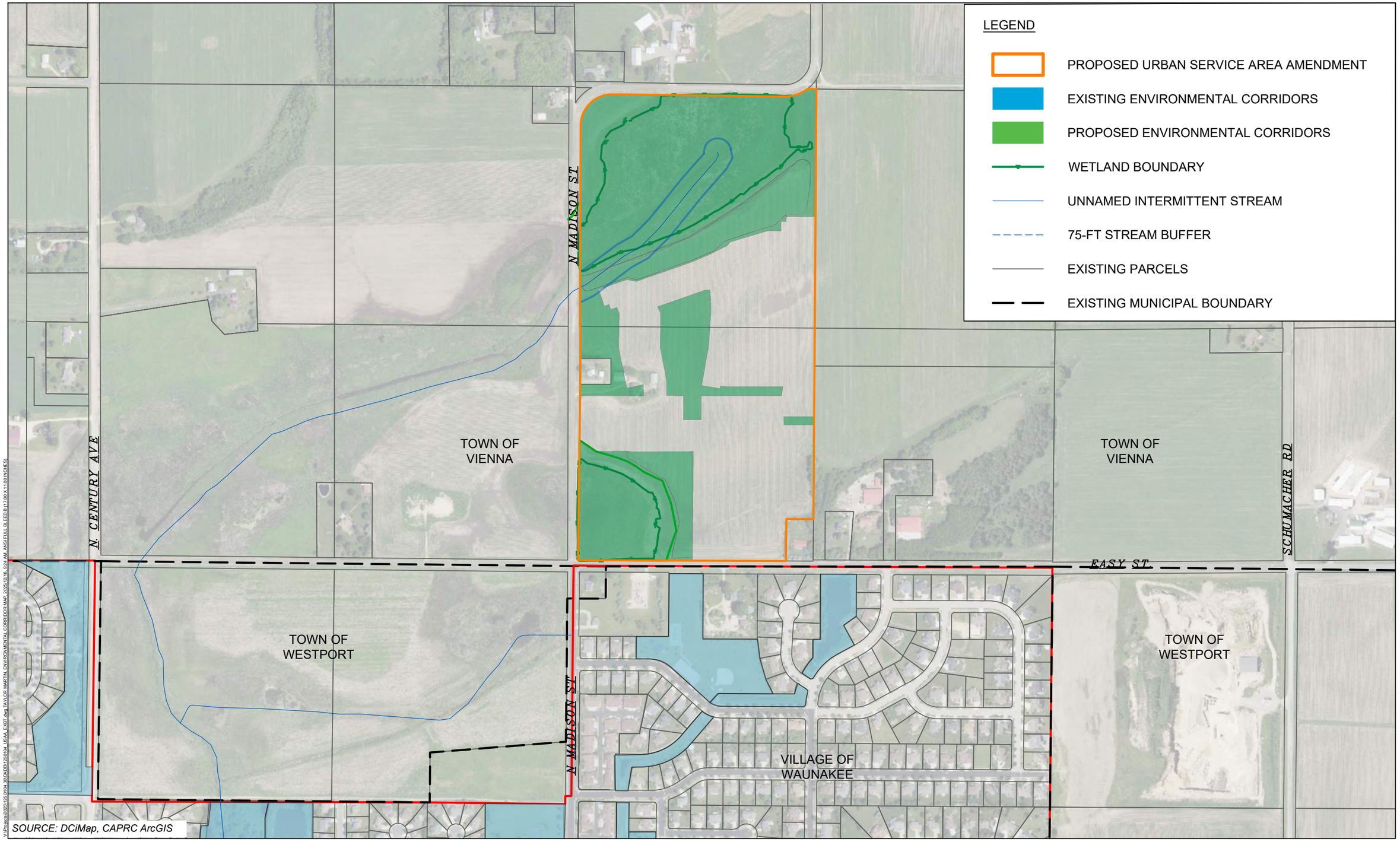
SNYDER & ASSOCIATES

0 500
FEET

MAP 4.1B SOILS MAP

WAUNAKEE USA

VILLAGE OF WAUNAKEE/TOWN OF VIENNA, DANE COUNTY, WI | 12/16/2025



SNYDER & ASSOCIATES

0 500
FEET

MAP 4.3 ENVIRONMENTAL CORRIDORS

WAUNAKEE USA

VILLAGE OF WAUNAKEE/TOWN OF VIENNA, DANE COUNTY, WI | 12/16/2025

SNYDER & ASSOCIATES

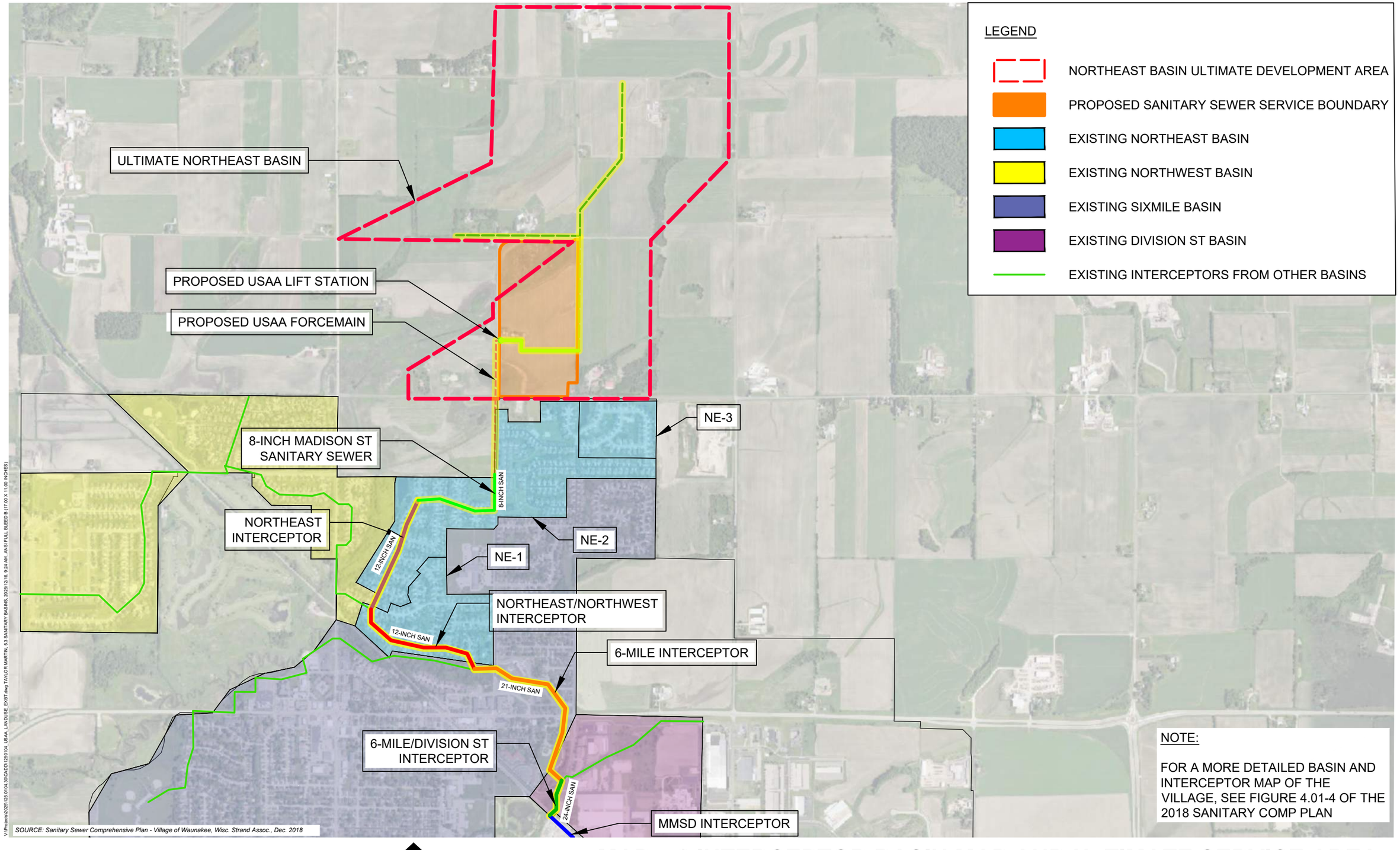
0 500
FEET

N

MAP 5.1 PROPOSED SANITARY SEWER EXTENSION

WAUNAKEE USA

VILLAGE OF WAUNAKEE/TOWN OF VIENNA, DANE COUNTY, WI | 12/16/2025



V:\Projects\2025\125.0104.30\CADD\125t104_USAA_LANDUSE_EXBT.dwg TAYLOR MARTIN, 5.3 SANITARY BASINS, 2025/12/16, 9:24 AM, ANSI FULL BLEED B (17.00 X 11.00 INCHES)

SNYDER & ASSOCIATES

0 1500
FEET

MAP 5.3 INTERCEPTOR BASIN MAP AND ULTIMATE SERVICE AREA

WAUNAKEE USA

VILLAGE OF WAUNAKEE/TOWN OF VIENNA, DANE COUNTY, WI | 12/16/2025

LEGEND

NORTHEAST BASIN ULTIMATE DEVELOPMENT AREA

PROPOSED SANITARY SEWER SERVICE BOUNDARY

ULTIMATE SERVICE AREA REGION

NORTHERN REGION

10-INCH SANITARY SEWER EXT., ULTIMATE DEVELOPMENT AREA (2018 SAN SEWER COMP PLAN)

12-INCH SANITARY SEWER EXT., ULTIMATE DEVELOPMENT AREA (2018 SAN SEWER COMP PLAN)

PROPOSED USAA LIFT STATION

PROPOSED USAA FORCEMAIN

PROPOSED USAA 12-INCH SANITARY SEWER EXT.

8-INCH SANITARY SEWER

8-INCH SAN

NORTHWEST

NORTHEAST

NORTHEAST INTERCEPTOR

12-INCH SAN

NORTHEAST/NORTHWEST INTERCEPTOR

12-INCH SAN

6-MILE INTERCEPTOR

21-INCH SAN

SIXMILE

6-MILE/DIVISION ST INTERCEPTOR

DIVISION STREET

24-INCH SAN

MMSD INTERCEPTOR

EASTERN REGION

SOURCE: Sanitary Sewer Comprehensive Plan - Village of Waunakee, Wisc. Strand Assoc., Dec. 2018

V:\Projects\2025\125.0104.30\CADD\125010d_USAA_LANDUSE_EXBT.dwg TAYLOR MARTIN, SANITARY INTERCEPTOR & OVERALL MAP, 2025/12/16, 9:25 AM, ANSI FULL BLEED B (17.00 X 11.00 INCHES)

SNYDER & ASSOCIATES

0 1500

FEET

N

MAP 5.4A INTERCEPTOR MAP AND ULTIMATE SERVICE AREA

WAUNAKEE USA

VILLAGE OF WAUNAKEE/TOWN OF VIENNA, DANE COUNTY, WI | 12/16/2025

LEGEND

- EXISTING SANITARY SEWER SERVICE BOUNDARY
- PROPOSED URBAN SERVICE AREA AMENDMENT
- EXISTING WATER MAIN
- PROPOSED 8-INCH WATER MAIN EXTENSION
- PROPOSED 10-INCH WATER MAIN EXTENSION
- EXISTING WELL NO. 5
- EXISTING MUNICIPAL BOUNDARY

N MADISON ST

N CENTURY AVE

TOWN OF VIENNA

TOWN OF VIENNA

SCHUMACHER RD

EXISTING 8-INCH WATER MAIN

EASY ST

EXISTING 10-INCH WATER MAIN

TOWN OF WESTPORT

TOWN OF WESTPORT

N MADISON ST

VILLAGE OF WAUNAKEE

SOURCE: DCiMap, CAPRC ArcGIS

SNYDER & ASSOCIATES

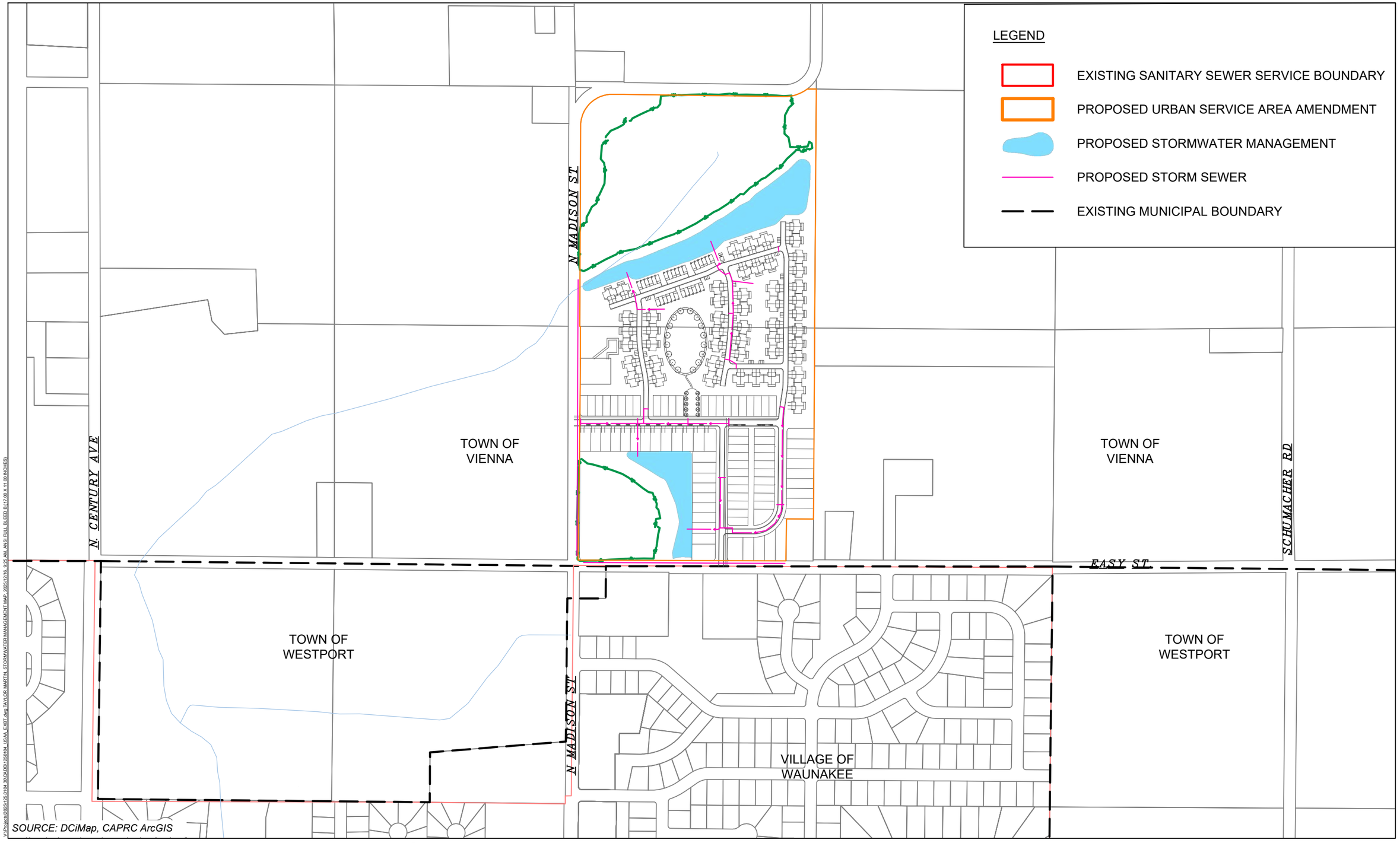
0 500 FEET

N

MAP 5.5 PROPOSED WATERMAIN EXTENSION

WAUNAKEE USA

VILLAGE OF WAUNAKEE/TOWN OF VIENNA, DANE COUNTY, WI | 12/16/2025



SNYDER & ASSOCIATES

0 500 FEET

N

MAP 5.9 PROPOSED STORMWATER MANAGEMENT

WAUNAKEE USA

VILLAGE OF WAUNAKEE/TOWN OF VIENNA, DANE COUNTY, WI | 12/16/25

Appendix B – Village of Waunakee Draft Resolution and Notifications to Town of Vienna and Town of Wesport

RESOLUTION NO. 25-57

VILLAGE OF WAUNAKEE VILLAGE BOARD

Resolution Authorizing Submission of an Urban Service Area Amendment to the Capital Area Regional Planning Commission

Finding it to be in the public interest, the Village Board of the Village of Waunakee, Dane County, Wisconsin, RESOLVES as follows:

1. The proposed approximately 76-acre Urban Service Area amendment involving property north of Easy Street and east of N Madison St. in the Town of Vienna, including adjacent rights-of-way.

2. Development of the properties are consistent with the 2017 Waunakee-Westport Comprehensive Plan and will be consistent with statutory requirements regarding stormwater management.

3. The Village Board approves the requested amendment of the Waunakee Urban Service Area applicable to the abovementioned property in the Village of Waunakee Urban Service Area and authorizes Village staff to file the necessary documentation with the Capital Area Regional Planning Commission.

The foregoing resolution was duly adopted by the Village of Waunakee Village Board at a meeting held on December 15, 2025.

APPROVED:

Kristin Runge, Village President

Karla Endres, Village Clerk

Outlook

Village of Waunakee USAA Application

From Lauren Freeman <lfreeman@waunakee.com>
Date Fri 12/5/2025 8:58 AM
To clerk@viennawi.gov <clerk@viennawi.gov>; grandpamarx@icloud.com <grandpamarx@icloud.com>
Cc Todd J. Schmidt <tschmidt@waunakee.com>

Good morning,

I am reaching out to let you know that the Village of Waunakee has submitted an application to the Capital Area Regional Planning Commission (CARPC) to amend our Urban Service Area boundary to include parcels in the Town of Vienna located north of Easy Street and east of N Madison Street (parcels 090932490010 and 090932485002).

If you have any questions about this application, please feel free to reach out to me.

Thank you,

Lauren Freeman
Deputy Administrator / Community Development Director
Village of Waunakee | 500 W. Main Street | Waunakee, WI 53597
Office: (608) 849-5712| Email: lfreeman@waunakee.com
Website: www.waunakee.com

Outlook

Village of Waunakee USAA Application

From Lauren Freeman <lfreeman@waunakee.com>
Date Fri 12/5/2025 8:59 AM
To Dean Grosskopf <dgrosskopf@townofwestport.org>; John Cuccia <chair@townofwestport.org>
Cc Todd J. Schmidt <tschmidt@waunakee.com>

Good morning,

I am reaching out to let you know that the Village of Waunakee has submitted an application to the Capital Area Regional Planning Commission (CARPC) to amend our Urban Service Area boundary to include parcels in the Town of Vienna located north of Easy Street and east of N Madison Street (parcels 090932490010 and 090932485002).

If you have any questions about this application, please feel free to reach out to me.

Thank you,

Lauren Freeman
Deputy Administrator / Community Development Director
Village of Waunakee | 500 W. Main Street | Waunakee, WI 53597
Office: (608) 849-5712| Email: lfreeman@waunakee.com
Website: www.waunakee.com

Appendix C – Wetland Delineation

Wetland & Waterway Consulting, LLC
Dave Meyer
S83 W23915 Artesian Avenue • Big Bend, WI 53103
262-719-4286 • Fax 262-364-2197
E-Mail • *dave@wetlandwi.com*

12-11-24

Josh Wohlreich
CR Devco, LLC
3400 W. Stonegate Blvd. Suite 25-00
Arlington Heights, Illinois 60006

Dear Mr. Wohlreich:

Wetland & Waterway Consulting (WWC) has conducted a wetland delineation on property located in Sec.32, T9N, R9E, Town of Vienna, Dane County. The delineation was conducted on 11-4-24 at your request. This site is under consideration for future development; therefore, location of the wetlands prior to construction is necessary. The purpose of the delineation was to identify and flag all wetlands within the boundaries identified on the attached maps.

Investigator

Dave Meyer, lead delineator, is an independent environmental consultant providing wetland delineations, environmental permitting services, PEC/SEC/INRA delineations, site assessments, and planning advice. He obtained a master's degree in Natural Resources Management from Southern Illinois University-Carbondale in 1977. Mr. Meyer has held technical and administrative positions in wetland and water resources specialties with the Wisconsin Department of Natural Resources and the U.S. Army Corps of Engineers. He has satisfactorily completed the Reg IV Wetland Delineation training offered by the U.S. Army Corps of Engineers, the Advanced Wetland Delineation training conducted by the University of Wisconsin-LaCrosse in 2002 and 2007, the USACOE/WIDNR 1987 Wetland Delineation Manual Midwest Region Supplement Training in 2009, the USACOE/WIDNR 1987 Wetland Delineation Manual Northcentral/Northeast Region Supplement Training in 2010, the Basic Hydric Soil ID training conducted by the University of Wisconsin-LaCrosse in 2011, SEWRPC's Environmental Corridor Delineation Workshops in 2004 and 2015, and the Wetland Training Institute's Advanced Hydrology for Jurisdictional Determinations in 2016 and the Federal Wetland/Waters Regulatory Policy in 2019. Mr. Meyer is recognized by the Wisconsin Department of Natural Resources as an Assured Delineator.

Methods

The site visit was conducted according to the guidelines identified in the U.S. Army Corps of Engineers' 1987 manual and the Northcentral/Northeast Regional Supplement. The plot size used was a 30 foot radius circle for trees, shrub/saplings, and woody vines, and a 15 foot radius circle for herbaceous vegetation.

Sampling points were located in the areas that exhibited wetland characteristics as well as upland characteristics. Data was collected on the vegetation, soils, and hydrology at each sampling point. The wetlands were identified using the technical approach described in the USACOE 1987 Manual. The

wetland boundary was flagged using breaks in topography, transitions between hydric and upland vegetation, identification of wetland hydrology, and the presence of hydric soils. Roadside ditches and other drainage ditches internal to the site were identified if they displayed hydric vegetation. Wetland delineators are given latitude to use best professional judgement in applying wetland indicators between adjacent regions. On page 4 of the Midwest Manual and page 5 of the Northcentral/Northeast Manual it states, "Region boundaries are depicted in Figure 1 as sharp lines. However, climatic conditions and the physical and biological characteristics of landscapes do not change abruptly at the boundaries. In reality, regions and subregions often grade into one another in broad transition zones that may be tens or hundreds of miles wide. The lists of wetland indicators presented in these Regional Supplements may differ between adjoining regions or subregions. In transitional areas, the investigator must use experience and good judgment to select the supplement and indicators that are appropriate to the site based on its physical and biological characteristics." Utilizing this guidance and best professional judgement in the Midwest Region, Kentucky bluegrass (Poa pratensis) is treated as a FACU species in roadside ditches and other stormwater conveyance ditches and detention basins internal to a site in order to maintain consistency with the manner in which these features are flagged in the Northcentral/Northeast Region. For those ditches meeting hydric vegetation indicators, flags were placed in the middle of the ditches at their beginning and ending points for the surveyor to locate. If the ditch was very long or had unusual bends or turns in it, additional flags were placed within the central parts of the ditch to assist in its location. The flags were located in the field and a wetland map was produced which identifies all flagged wetland complexes and ditches within the subject boundaries. Refer to the wetland map attached to the end of this report for locations.

In addition, an FSA crop history slide review was undertaken prior to the delineation because the county soil survey shows somewhat poorly drained or poorly drained soils present in farmed areas on the parcel. In preparation for the slide review, the NRCS wetland map, if available, was used to locate mapped areas of Prior Converted "PC", Wetland "W", Farmed Wetland "FW", Non-Wetland "NW", etc. Ten years of imagery were examined and used in the calculation for the number of hits. The review was started by examining a wet year aerial photograph, if present, to show the maximum extent of possible wetlands. Using that potential maximum extent of wetlands as the starting point, the normal years, if present, were then used to determine the more likely location and extent of the wetlands. Wet year signatures, particularly if they showed up on multiple years, were utilized in the field to determine the location of data points to demonstrate potential adjacent upland conditions. All wet signatures, whether they showed up on wet, normal, or dry years, were used to calculate the number of hits. Eight categories of wet signatures have been identified as follows [USDA, NRCS 1998. Wisconsin Wetland Mapping Conventions—WI513.30 (c) Off-site wetland identification tools. (WI-180-V-NFSAM). (3rd ed.) (Amendment WI21)]: 1) Hydrophytic vegetation which is typically seen as a different shade of green, 2) Surface water which usually shows as black or white areas, 3) Drowned-out crops identified as bare soil or mud flats, 4) Color differences that are the result of different planting dates or specific areas of the field that were not farmed in a given year, 5) Inclusionary wet areas that are part of a set-aside program, 6) Areas of greener color that are present in dry years, 7) Crop stress seen as yellow colors or sparse canopy typically seen as light green, and 8) Saturated soil that is visible on infrared (IR) slides or photographs.

Resources utilized in the investigation included the NRCS county soil survey, Wisconsin Wetland Inventory mapping, topo mapping, aerial photos, and county plat mapping. Significant literature consulted includes:

Curtis, John. 1971. The Vegetation of Wisconsin. University of Wisconsin Press, Madison, Wisconsin. 173 pp.

Eggers, Steve and Donald Reed. 2011. Wetland Plants and Plant Communities of Minnesota and Wisconsin – 3rd Edition. St. Paul District, U.S. Army Corps of Engineers, St. Paul, MN 478 pp.

Peterson, Roger and Margaret McKenny. 1968. A Field Guide to Wildflowers of Northeastern and Northcentral North America. Houghton Mifflin Company, Boston, Mass. 420 pp.

Swink, Floyd and Gerould Wilhelm. 1994. Plants of the Chicago Region. The Morton Arboretum, Lisle, Illinois. 921 pp.

Results and Discussion

* The approximately 77 acre subject site is situated on the northeast corner of the intersection of Madison Street and Easy Street in the Town of Vienna. The site consists of a single family residence and outbuildings, actively cropped fields, and wetlands. Throughout the 77 acres there is a mixture of moderate hillslopes, level areas, and depressional basins which are inhabited by the wetlands. An unnamed waterway between 4 and 6 feet wide flows through the center of Wetland B from east to west.

* The growing season remained intact. The soil temperature was taken prior to starting the delineation. At 12 inches, the soil displayed a temperature of 46 degrees Fahrenheit, thereby meeting the required criteria to determine that the 2024 growing season remained intact.

* No records of previous delineations on this site were discovered.

* The soil types mapped within the project boundaries, as well as their detailed descriptions, are included with the soil maps in the Attachments.

* No roadside ditches dominated by hydric vegetation are associated with this parcel.

* Ten years of slides were analyzed for the FSA slide review. Four areas (A, B, C, D) displayed wet signatures. The slide review showed wet signatures around the perimeter of the two wetlands on the site at Areas A, C, and D. I spoke with the farmer who has farmed this parcel for the past 30 years. He indicated that there is a strip between 2 and 4 feet wide around the perimeter of each of the wetlands that is cropped during drier years and left fallow during wetter years. The field investigation revealed these areas to have sufficient wet indicators and, therefore, were flagged within the wetland boundaries. These will be discussed below. Area B only displayed wet signatures for 3 out of 10 years. This is a very wide and shallow swale (approximately 1%) perched on a 5% slope in the eastern portion of the cropped field. The dominant geomorphic position in this area is the hillslope, not the wide swale, which moves water downslope quickly during rain events where it dissipates into broad surficial overland flow that infiltrates rapidly. As a result, the soil profiles in each of the three data points located in this area (DP #'s 15, 16, and 17) did not meet hydric indicators. The required hydrology indicators were also absent. The farmer said that in very wet years this shallow swale gets just wet enough to prevent him from cropping it. The 2024 spring (March, April, May,) rainfall total was wetter than normal at 15.62 inches. As a result, the alfalfa crop that had been planted two years ago across the entire farm was drowned out in this area. Since the crop rotation plan calls for corn to be planted across the entire farm in 2025, the farmer decided not to replant the alfalfa and left this area fallow for the 2024 season. Consequently, hydric vegetation germinated on this hillslope. Refer to the respective data sheets for details.

* The Wisconsin Wetland Inventory map (WWI) shows E2K and E1Kf complexes in the southern and northern portions of the property. Both of these complexes were found and flagged in the general configurations and locations as they are shown on the WWI map. The complexes are described below.

* **Wetland A** is a shallow water marsh occupying a shallow depressional basin dominated by reed canary grass and river bulrush at DP #'s 1 and 4. DP #2 was placed toward the top of the depressional basin on the perimeter of the complex and is located in the area identified in the slide review as Area A. Given the wetter than normal conditions this spring, the outer edges of this area were flagged within the wetland boundaries. Dominant vegetation is blunt spike rush, yellow foxtail grass, and fall panic grass. This is an area where the farmer indicated that he is able to plant and harvest a viable crop in drier years. The soils meet the A12 and F6 indicators and hydrology indicators of High Water Table, Dry-Season Water Table, Saturation, Saturation Visible on Aerial Imagery, Geomorphic Position, and the FAC-Neutral Test are present. This complex is considered "moderately susceptible" with a protective area of 50 feet for impervious surfaces.

The companion upland data points (DP #'s 3 and 5) are located upslope in the surrounding alfalfa field. Neither soil nor the required hydrology indicators are present.

* **Wetland B** is a shallow water marsh occupying a shallow depressional basin dominated by reed canary grass, narrowleaf cattail, and river bulrush at DP #'s 7, 9, and 11. DP #'s 8, 12, and 14 were placed toward the top of the depressional basin on the perimeter of the complex and are located in the areas identified in the slide review as Areas C and D. Given the wetter than normal conditions this spring, the outer edges of this area were flagged within the wetland boundaries. Dominant vegetation is fall panic grass, chufa, river bulrush, reed canary grass, and softstem bulrush. This is an area where the farmer indicated that he is able to plant and harvest a viable crop in drier years. The soils meet the A12 and F6 indicators and hydrology indicators of High Water Table, Dry-Season Water Table, Saturation, Geomorphic Position, and the FAC-Neutral Test are present. This complex is considered "moderately susceptible" with a protective area of 50 feet for impervious surfaces.

The companion upland data points (DP #'s 10 and 13) are located upslope in the surrounding alfalfa fields. Data point #6 is located in the fallow edge of the field between the wetland and alfalfa field and is dominated by Canada thistle and giant foxtail grass. Neither soil nor the required hydrology indicators are present at any of these three data points.

Precipitation Data

Precipitation data from the websites of the USDA Natural Resource Conservation Service, the National Oceanic and Atmospheric Administration (NOAA), and Dane County Regional Airport WETS station W1837 was examined. This antecedent data was reviewed and considered while making determinations concerning the presence and/or absence of wetlands during the field investigation.

Because the antecedent precipitation was normal, direct observation of saturated soils, and even the possibility of standing water, was potentially anticipated, although not expected. Other primary indicators as well as the secondary indicators were also searched for.

Note that when a site is delineated in the first half of the month, the previous 3 months are taken into consideration.

Condition Value Dry = 1 Normal = 2 Wet = 3

	Month	Normal	3 yrs. In 10 less than	3 yrs. In 10 more than	Observed precip.	Condition dry, wet, normal	Condition value	Month weight value	Product of previous two columns
1st prior month	October	2.40	1.26	3.40	2.83	normal	2	3	6
2nd prior month	September	3.13	1.76	4.35	5.16	wet	3	2	6
3rd prior month	August	4.26	2.19	6.08	2.92	normal	2	1	2
								sum	14

If sum is	
6 - 9	drier than normal
10 - 14	normal
15 - 18	wetter than normal

Conclusion

Antecedent precipitation was normal.

Conclusion

The wetland lines staked in the field and referred to in this report are the best estimate of the wetland boundaries based on the conditions present at the time of delineation. The wetlands identified for this report may be subject to federal regulation under the jurisdiction of the U.S. Army Corps of Engineers, state regulation under the jurisdiction of Wisconsin DNR, and local jurisdiction under your local county, town, city, or village. In addition, because a wetland delineation is a point in time determination, wetland delineations are considered to be valid for a period of only five years for federal wetlands and fifteen years for nonfederal wetlands. Permit applications may be submitted at the federal and state levels after a delineation is completed, with the request to review the delineation report and make a determination as to which, if any, wetlands on the site are nonfederal wetlands. Because this delineation was conducted by Mr. Meyer, an Assured Delineator, obtaining a concurrence letter from the Wisconsin Department of

Natural Resources is not necessary. Concurrence with these wetland lines by the U.S. Army Corps of Engineers is not necessary. If a USACOE permit is being sought for this project, this wetland delineation report will be reviewed during the permit application process. If the USACOE has questions about, or issues with this report, they will not issue their permit(s) until those issues are resolved. Activities affecting wetlands or surface waters may require permits from the U.S. Army Corps of Engineers, the Wisconsin Department of Natural Resources, and local municipal authorities. The client must obtain authorization from all proper regulatory authorities before altering, modifying, or using the property. If the required authorizations are not obtained, Wetland & Waterway Consulting, LLC shall not be liable or responsible for any resulting damages.

Sincerely,

Dave Meyer

Attachments
1. Data points
2. Soil Survey maps
3. Wisconsin Wetland Inventory map
4. USGS topo map
5. Location map
6. Site photographs
7. FSA slide review
8. Assured Delineator Letter 2024
9. Wetland boundary map

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Madison St. / Easy St. City/County: Dane Sampling Date: 11-4-24

Applicant/Owner: State: WI Sampling Point: #1 wet

Investigator(s): Meyer Section, Township, Range: Sec. 32 T9N R9E

Landform (hillslope, terrace, etc.): depressional basin Local relief (concave, convex, none): Concave Slope (%): ~5

Subregion (LRR or MLRA): Lat: Long: Datum:

Soil Map Unit Name: Elburn silt loam 0-2% NWI classification: E2K

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

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No

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

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

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

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

Wetland A

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 Visible 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): 11
Saturation Present? (includes capillary fringe)	Yes ✓	No ___	Depth (inches): 4

Wetland Hydrology Present? Yes ✓ No

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

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: 1

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size:)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		
Herb Stratum (Plot size:)			
1. ~~Phalaris arundinacea~~			
2. Phalaris arundinacea	70	✓	FACW
3.			
4. Setaria faberi	5		FACU
5.			
6. Echinochloa crus-galli	10		FAC
7.			
8. Scirpus fluviatilis	30	✓	OBL
9.			
10.			
11.			
12.			
	115 = Total Cover		
Woody Vine Stratum (Plot size:)			
1.			
2.			
3.			
4.			
	= Total Cover		

Dominance Test worksheet:

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

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

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

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

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

- ___ 1 - Rapid Test for Hydrophytic Vegetation
- ✓ 2 - Dominance Test is >50%
- ___ 3 - Prevalence Index is ≤3.0[1]
- ___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

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

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.)

SOIL Sampling Point: 1

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-6	10YR 2/1	100					Silt	loam
6-18	10YR 2/1	95	10YR 3/6	5	C	M	Silt	loam
18-24	10YR 2/1	90	10YR 3/6	10	C	M	Silt	loam

[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:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Madison St. / Easy St. City/County: Dane Sampling Date: 11-4-24

Applicant/Owner: State: WI Sampling Point: #2 wet

Investigator(s): Meyer Section, Township, Range: Sec. 32 T9N R9E

Landform (hillslope, terrace, etc.): depressional basin Local relief (concave, convex, none): Concave Slope (%): ~2

Subregion (LRR or MLRA): Lat: Long: Datum:

Soil Map Unit Name: Elburn silt loam EFB NWI classification: E2K

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

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No

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

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

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

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

Wetland A FSA Area 2

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 Visible 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): 17
Saturation Present? (Includes capillary fringe)	Yes ✓	No ___	Depth (inches): 11

Wetland Hydrology Present? Yes ✓ No

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

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: 2

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size:)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		
Herb Stratum (Plot size:)			
1.			
2. Eleocharis obtusa	25	✓	OBL
3.			
4. Taraxacum officinale	10		FACU
5.			
6. Plantago rugelii	15		FAC
7.			
8. Panicum dichotomiflorum	20	✓	FACW
9.			
10. Setaria pumila	45	✓	FAC
11.			
12.			
	115 = Total Cover		
Woody Vine Stratum (Plot size:)			
1.			
2.			
3.			
4.			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

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

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

- ___ 1 - Rapid Test for Hydrophytic Vegetation
- ✓ 2 - Dominance Test is >50%
- ___ 3 - Prevalence Index is ≤3.0[1]
- ___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

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

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.)

SOIL

Sampling Point: 2

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-5	10YR2/1	100					silt loam	
5-21	10YR2/1	95	10YR3/6	5	C	M	silt loam	
21-24	10YR4/1	90	10YR4/4	10	C	M	clay loam	

[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:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Madison St. / Easy St. City/County: Dane Sampling Date: 11-4-24

Applicant/Owner: State: WI Sampling Point: #3AP

Investigator(s): Meyer Section, Township, Range: Sec. 32 T9N R9E

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): ~3

Subregion (LRR or MLRA): Lat: Long: Datum:

Soil Map Unit Name: Plano silt loam PnB NWI classification: None

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

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

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

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

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

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

Alfalfa field

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 Visible 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:

VEGETATION – Use scientific names of plants.

Sampling Point: 3

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size:)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		
Herb Stratum (Plot size:)			
1.			
2. Medicago Sativa	100	✓	UPL
3.			
4. Taraxacum officinale	2		FACU
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	102 = Total Cover		
Woody Vine Stratum (Plot size:)			
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	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

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

___ Problematic Hydrophytic Vegetation[1] (Explain)

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

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.)

SOIL

Sampling Point: 3

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-7	7.5YR 3/3	100					silt loam	
7-16	7.5YR 3/3	98	10YR 3/6	2	C	M	silt loam	
16-24	10YR 2/1	98	10YR 3/6	2	C	M	silt loam	

[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:

WETLAND DETERMINATION DATA FORM -- Northcentral and Northeast Region

Project/Site: Madison St. / Easy St. City/County: Dane Sampling Date: 11-4-24

Applicant/Owner: State: WI Sampling Point: #4 wet

Investigator(s): Meyer Section, Township, Range: Sec. 32 T9N R9E

Landform (hillslope, terrace, etc.): depressional basin Local relief (concave, convex, none): Concave Slope (%): 5

Subregion (LRR or MLRA): Lat: Long: Datum:

Soil Map Unit Name: Elkhorn Silt loam EFB NWI classification: E2IC

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

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No

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

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

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

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

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 Visible 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): 9
Saturation Present? (includes capillary fringe)	Yes ✓	No	Depth (inches): 3

Wetland Hydrology Present? Yes ___ No ___

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

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: 4

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		

Sapling/Shrub Stratum (Plot size:)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		

Herb Stratum (Plot size:)			
1.			
2. Phalaris arundinacea	85	✓	FACW
3.			
4. Panicum dichotomiflorum	10		FAC
5.			
6. Setaria faberii	15		FACU
7.			
8. Symphyotrichum lanceolatum	5		FACW
9.			
10. Cyperus esculentus	5		FACW
11.			
12.			
	120 = Total Cover		

Woody Vine Stratum (Plot size:)			
1.			
2.			
3.			
4.			
	= Total Cover		

Dominance Test worksheet:

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

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

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

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

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

- ___ 1 - Rapid Test for Hydrophytic Vegetation
- ✓ 2 - Dominance Test is >50%
- ___ 3 - Prevalence Index is ≤3.0[1]
- ___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

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

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.)

SOIL

Sampling Point: 4

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-7	10YR 2/1	100					silt loam	
7-19	10YR 2/1	95	10YR 3/6	5	C	M	silt loam	
19-24	5Y 4/1	90	10YR 4/4	10	C	M	clay loam	

[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:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Madison St. / Easy St. City/County: Dane Sampling Date: 11-4-24

Applicant/Owner: State: WI Sampling Point: #SUP

Investigator(s): Meyer Section, Township, Range: Sec. 32 T9N R9E

Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): ~3

Subregion (LRR or MLRA): Lat: Long: Datum:

Soil Map Unit Name: Elburn silt loam 0-2% NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes See Report (if no, explain in Remarks.)

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

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

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

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

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

Alfalfa field

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 Visible 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:

VEGETATION – Use scientific names of plants.

Sampling Point: 5

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		

Sapling/Shrub Stratum (Plot size:)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		

Herb Stratum (Plot size:)			
1.			
2. Medicago sativa	100	✓	UPL
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	100 = Total Cover		

Woody Vine Stratum (Plot size:)			
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	x 1 =	
FACW species	x 2 =	
FAC species	x 3 =	
FACU species	x 4 =	
UPL species	x 5 =	
Column Totals: (A)		(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

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

___ Problematic Hydrophytic Vegetation[1] (Explain)

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

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.)

SOIL Sampling Point: 5

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-5	10YR 3/3	100					Silt loam	
5-19	10YR 3/3	95	10YR 3/6	5	C	M	Silt loam	
19-24	10YR 2/1	100					Silt loam	

[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:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Madison St. / Easy St. City/County: Dane Sampling Date: 11-4-24

Applicant/Owner: State: WI Sampling Point: #6 UP

Investigator(s): Meyer Section, Township, Range: Sec. 32 T9N R9E

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

Subregion (LRR or MLRA): Lat: Long: Datum:

Soil Map Unit Name: Waconia silty clay loam Wa NWI classification: None

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

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No

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

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

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

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

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 Visible 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:

VEGETATION – Use scientific names of plants.

Sampling Point: 6

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
8.			
7.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size:)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		
Herb Stratum (Plot size:)			
1. Cirsium arvense	70	✓	FACU
2.			
3. Setaria faberii	35	✓	FACU
4.			
5. Phalaris arundinacea	5		FACW
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	110 = Total Cover		
Woody Vine Stratum (Plot size:)			
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: 2 (B)

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

Prevalence Index worksheet:

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

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

- ___ 1 - Rapid Test for Hydrophytic Vegetation
- ___ 2 - Dominance Test is >50%
- ___ 3 - Prevalence Index is ≤3.0[1]
- ___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

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

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.)

SOIL

Sampling Point: 6

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-6	10YR 2/2	100					silt loam	
6-17	10YR 2/2	98	10YR 3/6	2	C	M	silt loam	
17-24	10YR 2/1	98	10YR 3/6	2	C	M	silt loam	

[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:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Madison St. / Easy St. City/County: Dane Sampling Date: 11-4-24

Applicant/Owner: State: WI Sampling Point: #7 wet

Investigator(s): Meyer Section, Township, Range: Sec. 32 T9N R9E

Landform (hillslope, terrace, etc.): depressional / built Local relief (concave, convex, none): concave Slope (%): 5

Subregion (LRR or MLRA): Lat: Long: Datum:

Soil Map Unit Name: Elburn silt loam DFR NWI classification: EIKF

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

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

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

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

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

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

Wetland B

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 Visible 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): 9
Saturation Present? (Includes capillary fringe)	Yes ✓	No ____	Depth (inches): 5

Wetland Hydrology Present? Yes ✓ No ____

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

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: 7

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		

Sapling/Shrub Stratum (Plot size:)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		

Herb Stratum (Plot size:)			
1.			
2. Typha angustifolia	95	✓	OBL
3.			
4. Scirpus fluviatilis	20	✓	OBL
5.			
6. Phalaris arundinacea	25	✓	FACW
7.			
8.			
9.			
10.			
11.			
12.			
	140 = Total Cover		

Woody Vine Stratum (Plot size:)			
1.			
2.			
3.			
4.			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

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

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

- ___ 1 - Rapid Test for Hydrophytic Vegetation
- ✓ 2 - Dominance Test is >50%
- ___ 3 - Prevalence Index is ≤3.0[1]
- ___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

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

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.)

SOIL

Sampling Point: 7

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-13	10YR 2/1	100					Silt loam	
13-21	10YR 2/1	95	10YR 3/6	5	C	M	Silt loam	
21-24	5Y 4/1	95	10YR 4/4	5	C	M	clay loam	

[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:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Madison St. / Easy St. City/County: Dane Sampling Date: 11-4-21

Applicant/Owner: State: WI Sampling Point: #1 Wet

Investigator(s): Meyer Section, Township, Range: Sec. 32 T9N R9E

Landform (hillslope, terrace, etc.): depressional basin Local relief (concave, convex, none): concave Slope (%): ~3

Subregion (LRR or MLRA): Lat: Long: Datum:

Soil Map Unit Name: Elburn Silt Loam (EFB) NWI classification: E1K

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

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No

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

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

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

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

FSA Area C Wetland T1

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 Visible 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): 15
Saturation Present? (includes capillary fringe)	Yes ✓	No	Depth (inches): 11

Wetland Hydrology Present? Yes ✓ No

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

Remarks:

VEGETATION – Use scientific names of plants. Sampling Point: 8

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		

Sapling/Shrub Stratum (Plot size:)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		

Herb Stratum (Plot size:)			
1.			
2. Cyperus esculentus	20	✓	FACW
3. N			
4. Plantago rugelii	5		FAC
5.			
6. Panicum dichotomiflorum	60	✓	FACW
7.			
8. Persicaria lapathifolia	5		FACW
9.			
10. Scirpus fluviatilis	5		OBL
11.			
12. Medicago sativa	2		UPL
	97 = Total Cover		

Woody Vine Stratum (Plot size:)			
1.			
2.			
3.			
4.			
	= Total Cover		

Dominance Test worksheet:

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

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

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

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

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

✓ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

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

___ Problematic Hydrophytic Vegetation[1] (Explain)

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

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.)

SOIL

Sampling Point: 8

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-7	10YR2/1	100					Silt loam	
7-24	10YR2/1	95	10YR3/6	5	C	M	Silt loam	

[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:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Madison St. / Easy St. City/County: Dane Sampling Date: 11-4-24

Applicant/Owner: State: WI Sampling Point: #9 wet

Investigator(s): Meyer Section, Township, Range: Sec. 32 T9N R9E

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

Subregion (LRR or MLRA): Lat: Long: Datum:

Soil Map Unit Name: Elburn silt loam 0-2% NWI classification: PEMC

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

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ___

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

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

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

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

Wetland B

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 Visible 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): 8
Saturation Present? (Includes capillary fringe)	Yes ✓	No ___	Depth (inches): 4

Wetland Hydrology Present? Yes ✓ No ___

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

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: 9

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size:)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		
Herb Stratum (Plot size:)			
1.			
2. Scirpus fluviatilis	95	✓	OBL
3.			
4. Phalaris arundinacea	40	✓	FACW
5.			
6. Panicum dichotomiflorum	10		FACW
7.			
8.			
9.			
10.			
11.			
12.			
	145 = Total Cover		
Woody Vine Stratum (Plot size:)			
1.			
2.			
3.			
4.			
	= Total Cover		

Dominance Test worksheet:

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

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

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

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

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

- ___ 1 - Rapid Test for Hydrophytic Vegetation
- ✓ 2 - Dominance Test is >50%
- ___ 3 - Prevalence Index is ≤3.0[1]
- ___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

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

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.)

SOIL Sampling Point: 9

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-9	10YR 2/1	95	10YR 3/6	5	C	M	Silt loam	
9-19	10YR 2/1	90	10YR 3/6	10	C	M	Silt loam	
19-24	5Y 4/1	90	10YR 4/6	10	C	M	Clay loam	

[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:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Madison St. / Easy St. City/County: Dane Sampling Date: 11-4-24

Applicant/Owner: State: WI Sampling Point: #10 UP

Investigator(s): Meyer Section, Township, Range: Sec. 32 T9N R9E

Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): Convex Slope (%): ~3

Subregion (LRR or MLRA): Lat: Long: Datum:

Soil Map Unit Name: Elburn silt loam 6+8 NWI classification: None

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

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

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

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

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

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

Alfalfa field

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 Visible 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:

VEGETATION – Use scientific names of plants.

Sampling Point: 10

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size:)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		
Herb Stratum (Plot size:)			
1.			
2. Medicago Sativa	100	✓	UPL
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	100 = Total Cover		
Woody Vine Stratum (Plot size:)			
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	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

- ___ 1 - Rapid Test for Hydrophytic Vegetation
- ___ 2 - Dominance Test is >50%
- ___ 3 - Prevalence Index is ≤3.0[1]
- ___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

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

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.)

SOIL

Sampling Point: 10

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	10YR 2/2	100					Silt loam	
12-19	10YR 2/2	98	10YR 5/6	2	C	M	Silt loam	
19-24	10YR 2/1	98	10YR 5/6	2	C	M	silt loam	

[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:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Madison St. / Easy St. City/County: Dane Sampling Date: 11-4-24

Applicant/Owner: State: WI Sampling Point: #11WC+

Investigator(s): Meyer Section, Township, Range: Sec. 32 T9N R9E

Landform (hillslope, terrace, etc.): depressional basin Local relief (concave, convex, none): Concave Slope (%): ~5

Subregion (LRR or MLRA): Lat: Long: Datum:

Soil Map Unit Name: Troxel silt loam TvB NWI classification: E1Cf

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

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No

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

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

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

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

Wetland B

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 Visible 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): 11
Saturation Present? (Includes capillary fringe)	Yes ✓	No	Depth (inches): 9

Wetland Hydrology Present? Yes ___ No ___

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

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: 11

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		

Sapling/Shrub Stratum (Plot size:)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		

Herb Stratum (Plot size:)			
1.			
2. Scirpus fluviatilis	100	✓	OBL
3.			
4.			
5. Phalaris arundinacea	30	✓	FACW
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	130 = Total Cover		

Woody Vine Stratum (Plot size:)			
1.			
2.			
3.			
4.			
	= Total Cover		

Dominance Test worksheet:

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

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

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

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

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

- ✓ 1 - Rapid Test for Hydrophytic Vegetation
- 2 - Dominance Test is >50%
- 3 - Prevalence Index is ≤3.0[1]
- 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- Problematic Hydrophytic Vegetation[1] (Explain)

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

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.)

SOIL

Sampling Point: 11

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-8	10YR 2/1	100					Silt loam	
8-18	10YR 2/1	95	10YR 3/6	5	C	M	silt loam	
18-24	5Y 4/1	90	10YR 4/6	10	C	M	clay loam	

[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:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Madison St. / Easy St. City/County: Dane Sampling Date: 11-4-24

Applicant/Owner: State: WI Sampling Point: #12 Wet

Investigator(s): Meyer Section, Township, Range: Sec. 32 T9N R9E

Landform (hillslope, terrace, etc.): depressional basin Local relief (concave, convex, none): Concave Slope (%): = 3

Subregion (LRR or MLRA): Lat: Long: Datum:

Soil Map Unit Name: Troxel silt loam TrB NWI classification: PEMF

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

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No

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

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

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

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

Wetland B FSA Area D

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 Visible 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): 11
Saturation Present? (Includes capillary fringe)	Yes ✓	No ___	Depth (inches): 7

Wetland Hydrology Present? Yes ✓ No

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

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: 12

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size:)			
1.			
2.			
3.			
4.			
5.			
8.			
7.			
	= Total Cover		
Herb Stratum (Plot size:)			
1.			
2. Scirpus fluviatilis	5		OBL
3.			
4. Scirpus validus	40	✓	OBL
5.			
6. Phalaris arundinacea	25	✓	FACW
7.			
8. Plantago rugelii	5		FAC
9.			
10. Persicaria lapathifolia	10		FACW
11.			
12.			
	85 = Total Cover		
Woody Vine Stratum (Plot size:)			
1.			
2.			
3.			
4.			
	= Total Cover		

Dominance Test worksheet:

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

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

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalance Index worksheet:

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

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

- ___ 1 - Rapid Test for Hydrophytic Vegetation
- ✓ 2 - Dominance Test is >50%
- ___ 3 - Prevalence Index is ≤3.0[1]
- ___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

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

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.)

SOIL Sampling Point: 12

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-4	10YR2/1	100					silt loam	
4-13	10YR2/1	95	10YR3/6	5	C	M	silt loam	
13-24	10YR3/1	90	10YR3/6	10	C	M	silt loam	

[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:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Madison St. / Easy St. City/County: Dane Sampling Date: 11-4-24

Applicant/Owner: State: WI Sampling Point: #13UP

Investigator(s): Meyer Section, Township, Range: Sec. 32 T9N R9E

Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): ≈3

Subregion (LRR or MLRA): Lat: Long: Datum:

Soil Map Unit Name: Plano silt loam PnB NWI classification: None

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

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

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

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

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

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

Alfalfa field

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 Visible 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:

VEGETATION – Use scientific names of plants.

Sampling Point: 13

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size:)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		
Herb Stratum (Plot size:)			
1.			
2. Medicago Sativa	100	✓	UPL
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	100 = Total Cover		
Woody Vine Stratum (Plot size:)			
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		x 1 =	
FACW species		x 2 =	
FAC species		x 3 =	
FACU species		x 4 =	
UPL species		x 5 =	
Column Totals:	(A)		(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

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

___ Problematic Hydrophytic Vegetation[1] (Explain)

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

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.)

SOIL

Sampling Point: 13

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-19	10YR 2/2	100					silt loam	
19-24	10YR 2/1	100					silt loam	

[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:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Madison St. / Easy St. City/County: Dane Sampling Date: 11-4-24

Applicant/Owner: ______ State: WI Sampling Point: #14wet

Investigator(s): Meyer Section, Township, Range: Sec. 32 T9N R9E

Landform (hillslope, terrace, etc.): depression/basin Local relief (concave, convex, none): Concave Slope (%): ≈1-2

Subregion (LRR or MLRA): ______ Lat: ______ Long: ______ Datum: ______

Soil Map Unit Name: Elburn Silt loam EfB NWI classification: None

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

Are Vegetation Y, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes ___ No ✓

Are Vegetation N, Soil N, or Hydrology N 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 ___
Hydric Soil Present?	Yes ✓	No ___
Wetland Hydrology Present?	Yes ✓	No ___

Is the Sampled Area within a Wetland? Yes ✓ No ___

If yes, optional Wetland Site ID: ______

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

Cropped Field FSA Area C

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 Visible 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): 17

Wetland Hydrology Present? Yes ✓ No ___

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

Remarks:

VEGETATION – Use scientific names of plants. Sampling Point: 14

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		

Sapling/Shrub Stratum (Plot size:)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		

Herb Stratum (Plot size:)			
~~1.~~			
2. Panicum dichotomiflorum	20	✓	FACW
3.			
4. Phalaris arundinacea	15	✓	FACW
5.			
6. Taraxacum officinale	5		FACU
7.			
8. Setaria faberii	5		FACU
9.			
10.			
11.			
12.			
	45 = Total Cover		

Woody Vine Stratum (Plot size:)			
1.			
2.			
3.			
4.			
	= Total Cover		

Dominance Test worksheet:

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

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

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

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

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

- ___ 1 - Rapid Test for Hydrophytic Vegetation
- ✓ 2 - Dominance Test is >50%
- ___ 3 - Prevalence Index is ≤3.0[1]
- ___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

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

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.)

SOIL

Sampling Point: 14

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-6	10YR 2/2	100					silt loam	
6-17	10YR 2/2	95	10YR 3/6	5	C	M	silt loam	
17-21	10YR 2/1	95	10YR 3/6	5	C	M	silt loam	

[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:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Madison St. / Easy St. City/County: Dane Sampling Date: 11-4-24

Applicant/Owner: State: WI Sampling Point: #1 SUP

Investigator(s): Meyer Section, Township, Range: Sec. 32 T9N R9E

Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): Convex Slope (%): ≃ 4-5

Subregion (LRR or MLRA): Lat: Long: Datum:

Soil Map Unit Name: Plano Silt loam PnB NWI classification: None

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

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

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

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

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

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

Cropped Field FSA Area B

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 Visible 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:

VEGETATION – Use scientific names of plants.

Sampling Point: 15

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size:)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		
Herb Stratum (Plot size:)			
1.			
2. Panicum dichotomiflorum	25	✓	FACW
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	25 = Total Cover		
Woody Vine Stratum (Plot size:)			
1.			
2.			
3.			
4.			
	= Total Cover		

Dominance Test worksheet:

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

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

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

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

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

- ___ 1 - Rapid Test for Hydrophytic Vegetation
- ✓ 2 - Dominance Test is >50%
- ___ 3 - Prevalence Index is ≤3.0[1]
- ___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

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

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.)

SOIL

Sampling Point: 15

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-20	10YR 2/2	100					silt loam	
20-24	10YR 3/2	100					silt loam	

[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:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Madison St. / Easy St. City/County: Dane Sampling Date: 11-4-21
Applicant/Owner: State: WI Sampling Point: #16
Investigator(s): Meyer Section, Township, Range: Sec. 32 T9N R9E
Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): Convex Slope (%): 3-4
Subregion (LRR or MLRA): Lat: Long: Datum:
Soil Map Unit Name: Plano silt loam PlA NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Yes See Report (If no, explain in Remarks.)
Are Vegetation Y, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes ____ No ✓
Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

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

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

Remarks: (Explain alternative procedures here or in a separate report.)
Cropped Field FSA Area B

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 Visible 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:

VEGETATION – Use scientific names of plants. Sampling Point: 16

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		

Sapling/Shrub Stratum (Plot size:)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		

Herb Stratum (Plot size:)			
1.			
2. Panicum dichotomiflorum	15	✓	FACW
3.			
4. Scirpus validus	10	✓	OBL
5.			
6. Cirsium arvense	5		FACU
7.			
8.			
9.			
10.			
11.			
12.			
	30 = Total Cover		

Woody Vine Stratum (Plot size:)			
1.			
2.			
3.			
4.			
	= Total Cover		

Dominance Test worksheet:

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

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

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

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

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

- ___ 1 - Rapid Test for Hydrophytic Vegetation
- ✓ 2 - Dominance Test is >50%
- ___ 3 - Prevalence Index is ≤3.0[1]
- ___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

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

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.)

SOIL Sampling Point: 16

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-22	10YR 2/2	100					silt loam	
22-24	10YR 3/2	100					silt loam	

[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:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Madison St. / Easy St. City/County: Dane Sampling Date: 11-4-24

Applicant/Owner: State: WI Sampling Point: #17 up

Investigator(s): Meyer Section, Township, Range: Sec. 32 T9N R9E

Landform (hillslope, terrace, etc.): N. Hillslope Local relief (concave, convex, none): Convex Slope (%): ≈2-3

Subregion (LRR or MLRA): Lat: Long: Datum:

Soil Map Unit Name: Plano Silt loam PnB NWI classification: None

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

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

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

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

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

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

Cropped field FSA Area B

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 Visible 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:

VEGETATION – Use scientific names of plants. Sampling Point: 17

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		

Sapling/Shrub Stratum (Plot size:)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		

Herb Stratum (Plot size:)			
1.			
2. Panicum dichotoflorum	30	✓	FACW
3.			
4. Cirsium arvense	15	✓	FACU
5.			
6. Taraxacum officinale	5		FACU
7.			
8.			
9.			
10.			
11.			
12.			
	50 = Total Cover		

Woody Vine Stratum (Plot size:)			
1.			
2.			
3.			
4.			
	= Total Cover		

Dominance Test worksheet:

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

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

Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)

Prevalence Index worksheet:

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

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

- ___ 1 - Rapid Test for Hydrophytic Vegetation
- ___ 2 - Dominance Test is >50%
- ___ 3 - Prevalence Index is ≤3.0[1]
- ___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

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

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.)

SOIL

Sampling Point: 17

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-13	10YR 2/2	100					silt loam	
13-16	10YR 2/1	100					silt loam	
16-24	10YR 2/2	100					silt loam	

[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):

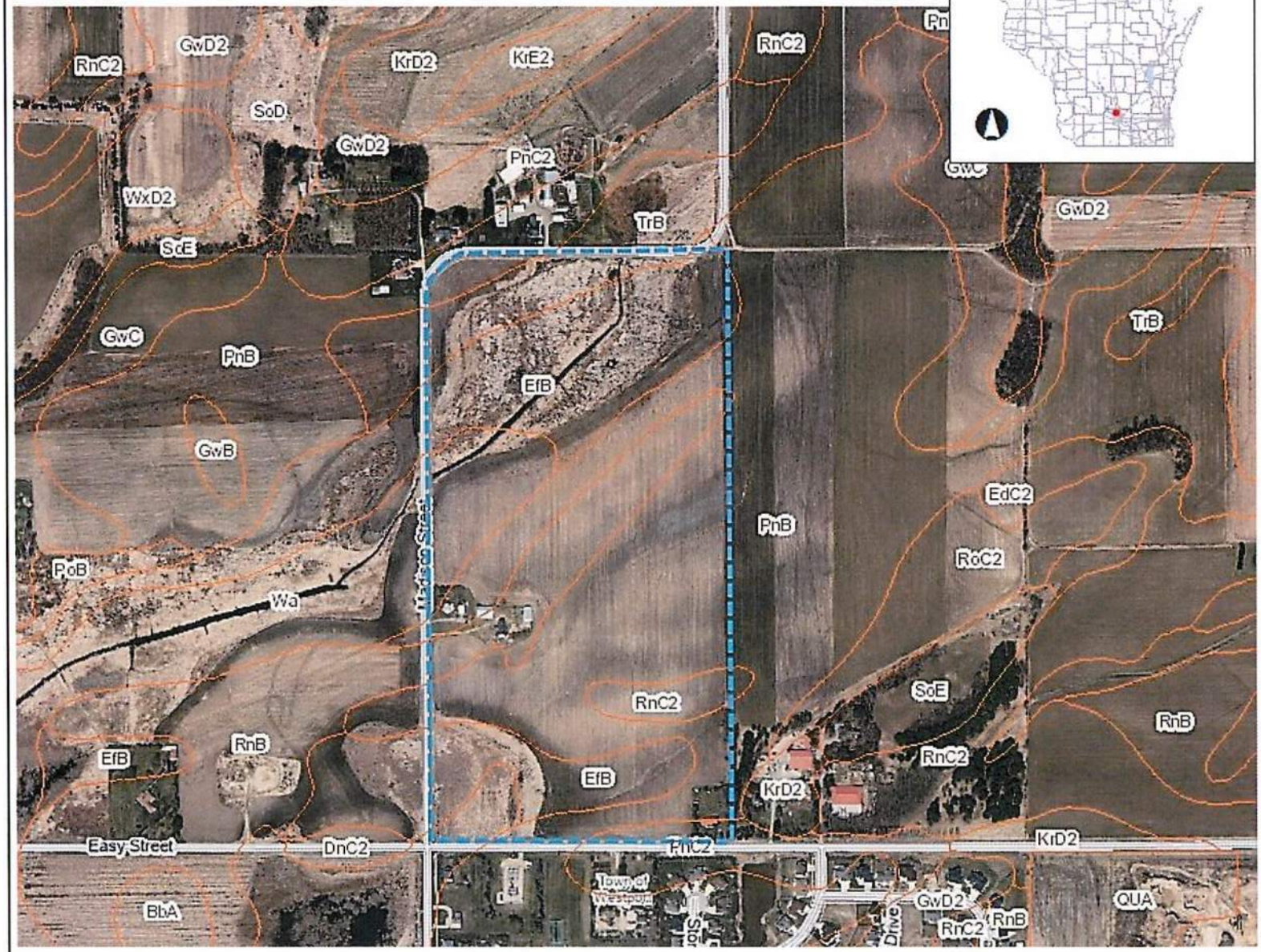
Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No ✓

Remarks:

Surface Water Data Viewer Map



Legend

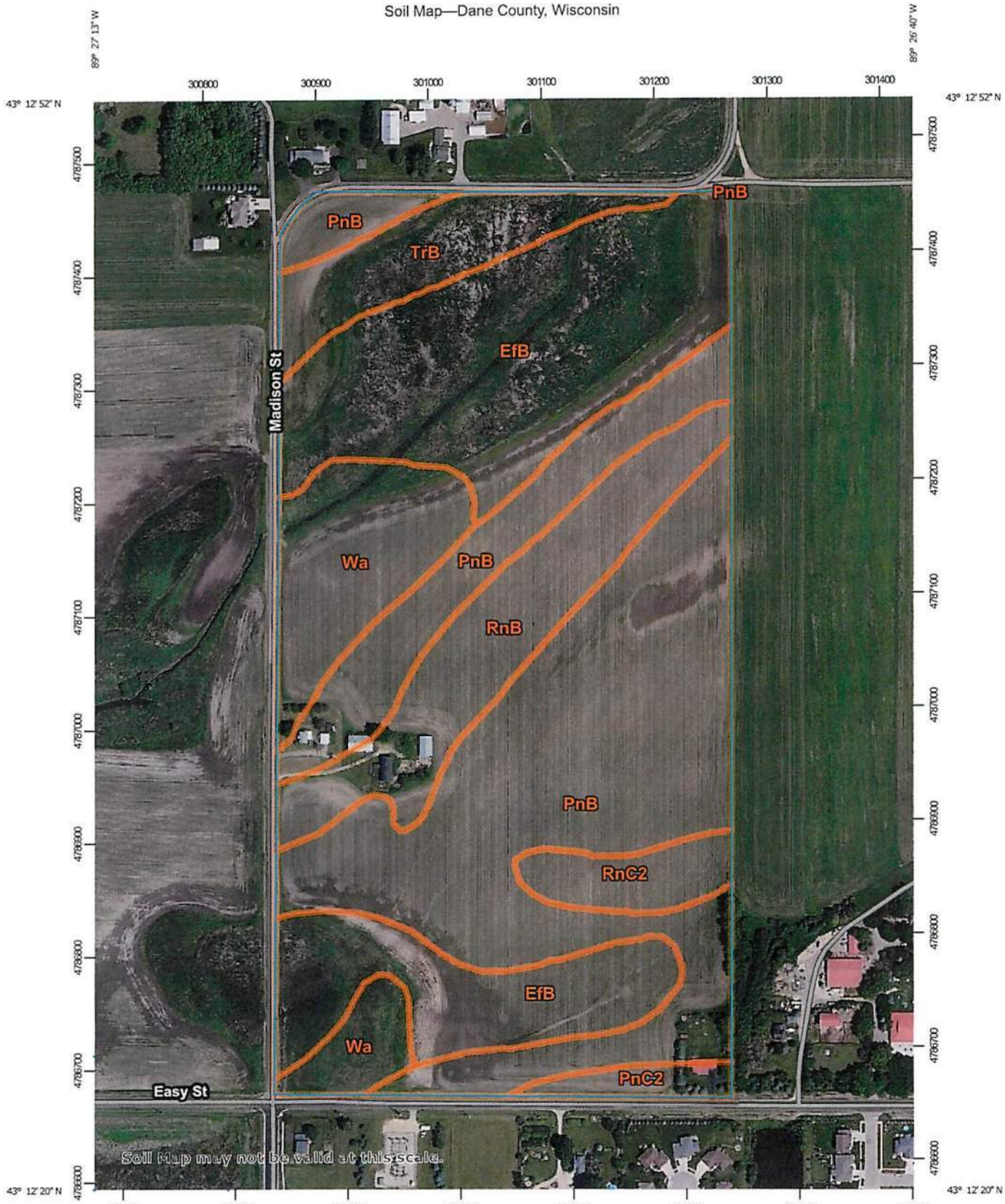
- NRCS Wisconsin Soils
  - Soil Mapping Unit
  - Water
- Municipality
- State Boundaries
- County Boundaries
- Major Roads
  - Interstate Highway
  - State Highway
  - US Highway
- County and Local Roads
  - County HWY
  - Local Road
- Railroads
- Tribal Lands

Notes

0.3 0 0.13 0.3 Miles

NAD_1983_HARN_Wisconsin_TM

1: 7,920



Map Scale: 1:4,680 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 50 100 200 300

Feet: 0 200 400 800 1200

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 16N WGS84

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
EfB	Elburn silt loam, 0 to 3 percent slopes	22.9	28.9%
PnB	Plano silt loam, till substratum, 2 to 6 percent slopes	32.0	40.3%
PnC2	Plano silt loam, till substratum, 6 to 12 percent slopes, eroded	1.1	1.4%
RnB	Ringwood silt loam, 2 to 6 percent slopes	8.4	10.5%
RnC2	Ringwood silt loam, 6 to 12 percent slopes, eroded	2.4	3.0%
TrB	Troxel silt loam, 0 to 3 percent slopes	4.7	5.9%
Wa	Wacousta silty clay loam, 0 to 2 percent slopes	7.9	9.9%
Totals for Area of Interest		**79.4**	**100.0%**

Report—Hydric Soil List - All Components

Hydric Soil List - All Components–WI025-Dane County, Wisconsin					
Map symbol and map unit name	**Component/Local Phase**	**Comp. pct.**	**Landform**	**Hydric status**	**Hydric criteria met (code)**
EfB: Elburn silt loam, 0 to 3 percent slopes	Elburn	85-95	Drainageways,outwash plains,stream terraces	No	—
	Pella	2-5	Drainageways	Yes	2,3
	Mahalasville	1-4	Drainageways	Yes	2,3
	Sable	1-4	Drainageways	Yes	2,3
	Plano	1-2	Till plains	No	—
PnB: Plano silt loam, till substratum, 2 to 6 percent slopes	Plano-Till substratum	80-90	Till plains	No	—
	Griswold	5-11	Till plains	No	—
	Elburn	5-9	Till plains	No	—
PnC2: Plano silt loam, till substratum, 6 to 12 percent slopes, eroded	Plano-Till substratum	85-95	Till plains	No	—
	Ringwood	5-15	Till plains	No	—
RnB: Ringwood silt loam, 2 to 6 percent slopes	Ringwood	85-95	Moraines	No	—
	Elburn	2-6	Drainageways	No	—
	Plano-Till substratum	1-4	Moraines	No	—
	Griswold	2-5	Moraines	No	—
RnC2: Ringwood silt loam, 6 to 12 percent slopes, eroded	Ringwood-Eroded	85-95	Moraines	No	—
	Griswold-Eroded	3-9	Till plains	No	—
	Plano-Till substratum	2-6	Moraines	No	—
TrB: Troxel silt loam, 0 to 3 percent slopes	Troxel-Wet substratum	80-90	Depressions,moraines	No	—
	Elburn	5-11	Drainageways	No	—
	Plano	5-9	Till plains	No	—
Wa: Wacousta silty clay loam, 0 to 2 percent slopes	Wacousta	80-90	Interdrumlins	Yes	2,3
	Sable	5-10	Interdrumlins	Yes	2,3
	Sebewa	5-10	Interdrumlins	Yes	2,3

Data Source Information

Soil Survey Area: Dane County, Wisconsin
Survey Area Data: Version 23, Sep 3, 2024

Surface Water Data Viewer Map

Legend

- Ponds/Open Water
- Lake Class Areas
- Riverine/ditch Class Areas
- Wetland Class Areas
- Wetland Class Points
  - Dammed pond
  - Excavated pond
  - Filled/drained wetland
  - Wetland too small to delineate
  - Filled excavated pond
- Filled Points
- Wetland Class Areas
- Filled Areas
- Wetland Identifications and Confirmations
- Municipality
- State Boundaries
- County Boundaries
- Major Roads
  - Interstate Highway
  - State Highway
  - US Highway
- County and Local Roads
  - County HWY
  - Local Road
- Railroads
- Tribal Lands

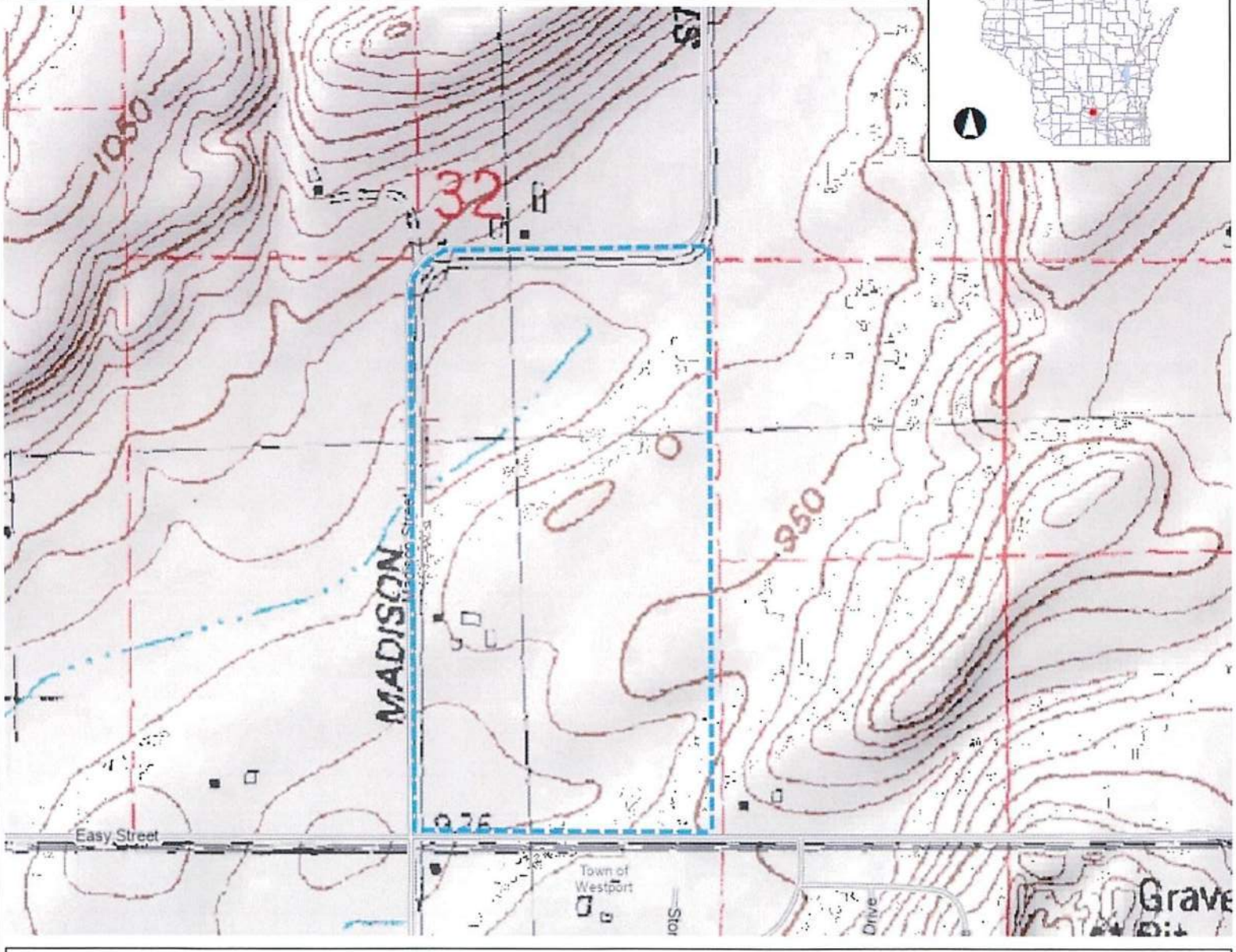
Notes

0.3 0 0.13 0.3 Miles

NAD_1983_HARN_Wisconsin_TM

1: 7,920

Surface Water Data Viewer Map



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

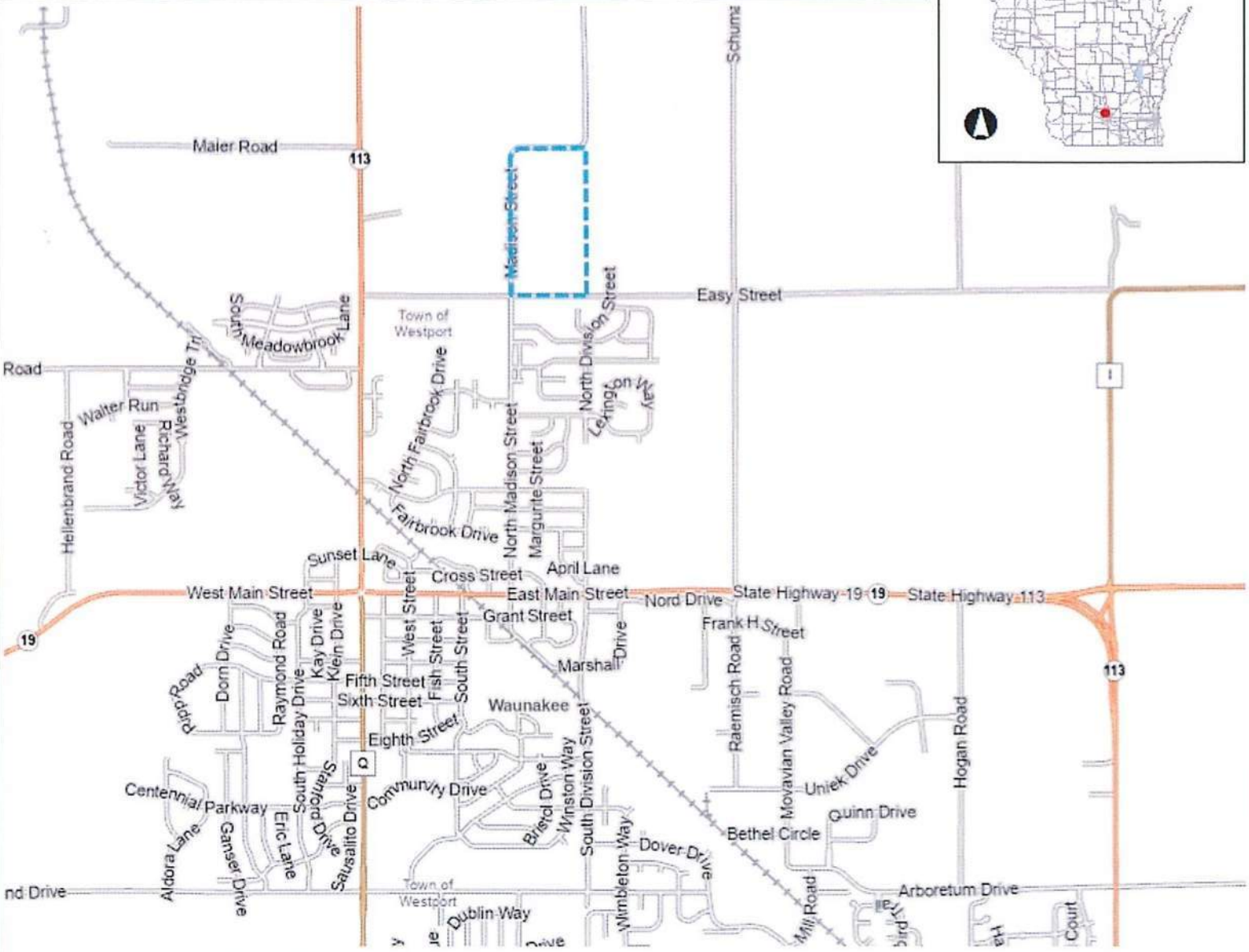
Notes

0.3 0 0.13 0.3 Miles

NAD_1983_HARN_Wisconsin_TM

1: 7,920

Surface Water Data Viewer Map



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

Notes

1.0 0 0.50 1.0 Miles

NAD_1983_HARN_Wisconsin_TM

1: 31,680

DISCLAIMER: The information shown on these maps has been obtained from various sources, and are of varying age, reliability and resolution. These maps are not intended to be used for navigation, nor are these maps an authoritative source of information about legal land ownership or public access. No warranty, expressed or implied, is made regarding accuracy, applicability for a particular use, completeness, or legality of the information depicted on this map. For more information, see the DNR Legal Notices web page: http://dnr.wi.gov/legal/

PHOTOGRAPHS

Photo A.....Typical view of Wetland A.

Photo B.....Typical view of Wetland B.

Photo C.....Viewing east along unnamed waterway in Wetland B.

Photo D.....Typical view alfalfa fields that occupy the majority of the parcel.

Photo E.....Viewing east across DP #'s 15, 16, and 17.

A

B

C

D

E

NRCS-CPA-32W
(6-9-06)

WETLAND DOCUMENTATION RECORD
Remotely Sensed Data Summary

Owner/Operator: CR Deuce County: Dane State: WI

Slide Reviewer: Meyer Date: 11-2-24

Site Identification No. 837 (Tract No. + Site No.)

Farm Service Agency (or Other) Aerial Slide Data

Date (Mo./Yr)	Rainfall (in) +D/N/W (Apr-June ave. = 9.85)	Interpretation- (codes listed in box below) A	B	C	D
8/2024	18.63W	Y NC 6a	Y NC 6d	Y NC 6b	Y NC 6b
11/2023	4.49D	N CR	N CR	N CR	Y NC 6a
6/2022	10.06N	Y NC 6b	N CR	N CR	Y NC 6a
9/2021	8.24N	N CR	N CR	N CR	N CR
6/2020	12.51N	Y NC 6d	Y NC 6d	N CR	N CR
10/2018	18.94W	Y NC 6d	Y NC 6d	Y NC 6d	N CR
6/2014	18.25W	N CR	N CR	Y NC 6b	N CR
8/2010	15.82W	N CR	N CR	Y NC 6d	Y NC 6b
12/2005	7.29N	N CR	N CR	N CR	N CR
8/2004	16.65W	Y NC 6d	N CR	N CR	N CR

Air Photo

Y = Yes, signal indicates wetness (+ = strong, - = weak)
CR = cropped (row crop or tilled)
N = No wetness signature
NC = not cropped (hay, pasture, idle, etc.)

Feature	Color	Manipulation (year of installation)	Other
1 = water	6a = dark green	7a = ditched	write explanation
2 = mud flat	6b = light green	7b = tiled	
3 = bare spot	6c = yellow	7c = filled	
4 = drowned crop	6d = brown	7d = tree/brush removal	
5 = planted late	6e = black	8 = plowed/tilled	

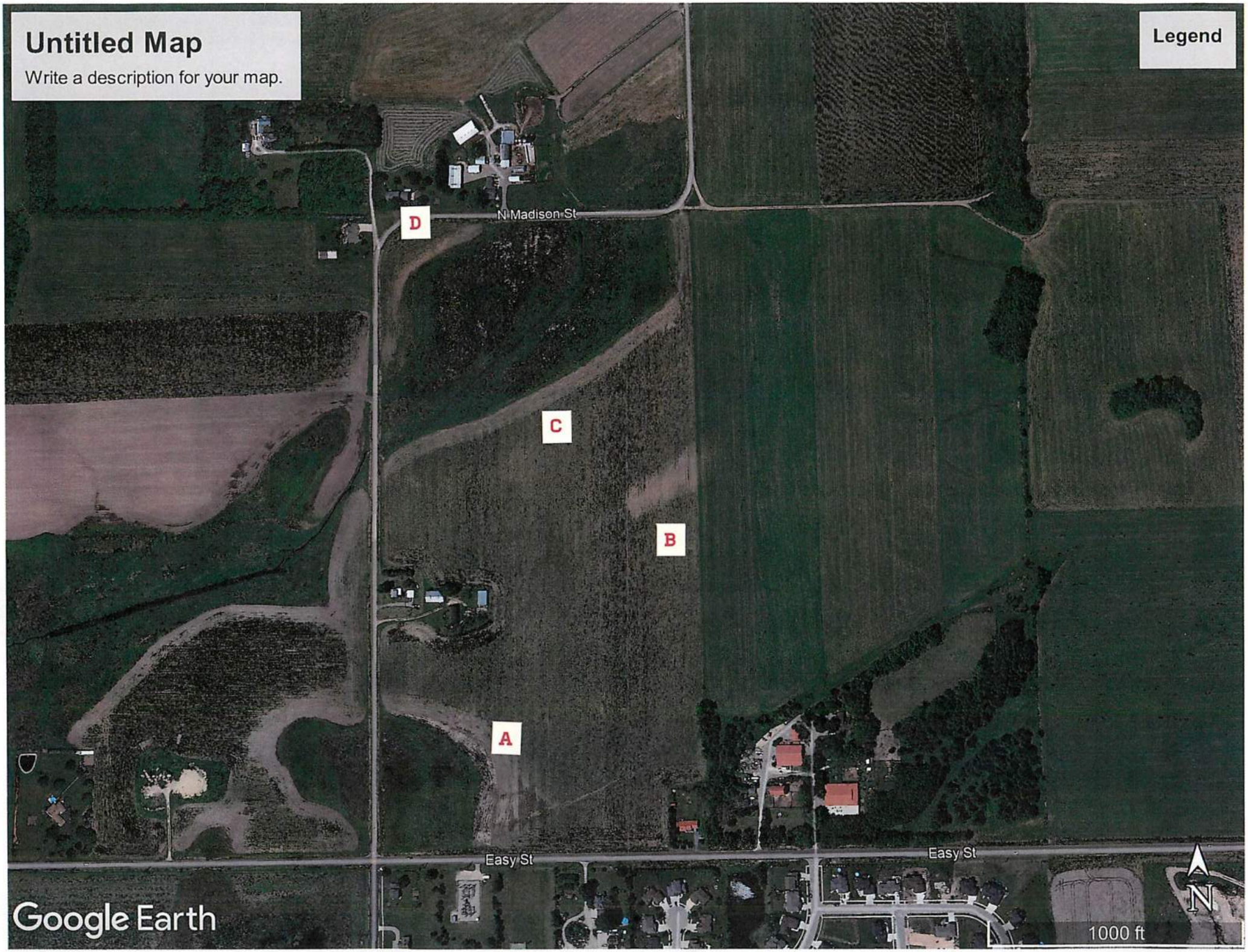
Does slide/air photo data indicate the site is a wetland? 0Yes 0No

5 years out of # 10 years observed have wet (Y) signatures. For Area A

3 " 10 " For Area B

4 " 10 " For Area C

4 " 10 " For Area D


Untitled Map
Write a description for your map.
Legend
N Madison St
D
C
B
A
Easy St
Easy St
N
1000 ft
Google Earth


8/2024
Write a description for your map.
Legend
N Madison St
Easy St
Easy St
Google Earth
Image © 2024 Airbus
N
1000 ft


11/2023
Write a description for your map.
Legend
N Madison St
Easy St
Easy St
Google Earth
Image © 2024 Airbus
N
1000 ft


6/2022
Write a description for your map.
Legend
N Madison St
Easy St
Easy St
N
1000 ft
Google Earth


9/2021
Write a description for your map.
Legend
N Madison St
Easy St
Easy St
N
1000 ft
Google Earth


6/2020
Write a description for your map.
Legend
N Madison St
Easy St
Easy St
N
1000 ft
Google Earth


10/2018
Write a description for your map.
Legend
N Madison St
Easy St
Easy St
Google Earth
N
1000 ft


6/2014
Write a description for your map.
Legend
N Madison St
Easy St
Easy St
Google Earth
1000 ft
N


8/2010
Write a description for your map.
Legend
N Madison St
Easy St
Easy St
Google Earth
Image © 2024 Maxar Technologies
N
1000 ft


12/2005
Write a description for your map.
Legend
N Madison St
Easy St
Easy St
N
1000 ft
Google Earth


8/2004
Write a description for your map.
Legend
N Madison St
Easy St
Easy St
Google Earth
Image U.S. Geological Survey
Image © 2024 Maxar Technologies
N
1000 ft

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
1027 W St Paul Ave
Milwaukee WI, WI, 53233

Tony Evers, Governor
Adam N. Payne, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

March 22, 2024

Dave Meyer
Wetland & Waterway Consulting, LLC
S83 W23915 Artesian Ave
Big Bend, WI 53103

Subject: 2024 Assured Wetland Delineator Confirmation

Dear Mr. Meyer:

This letter provides Wisconsin Department of Natural Resources (WDNR) confirmation for the wetland delineations you conduct during the 2024 growing season. You and your clients will not need to wait for the WDNR to review your wetland delineations before moving forward with project planning. This will help expedite the review process for WDNR's wetland regulatory program. Your name and contact information will continue to be listed on our website at: http://dnr.wi.gov/topic/wetlands/assurance.html.

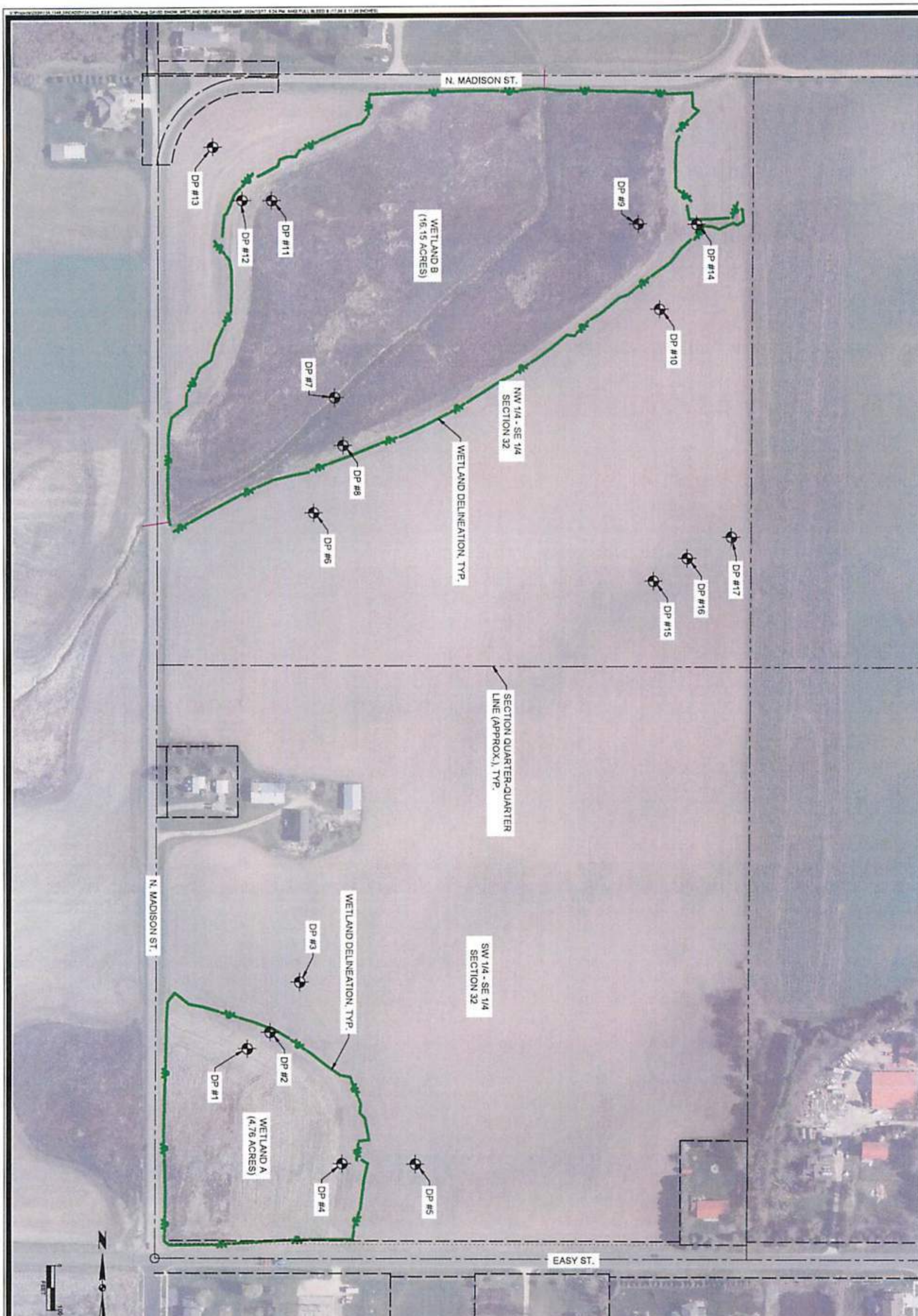
In the instance where a municipality may require a letter of confirmation for your work prior to moving forward in the local regulatory process, this letter shall serve as that confirmation. Although your wetland delineations do not require WDNR field review, inclusion of a Wetland Delineation Report is required for projects needing State authorized wetland, waterway and/or storm water permit approvals.

To comply with Chapter 23.321, State Statutes, please supply the department with a polygon shapefile of the wetland boundaries delineated within the project area. Please do not include data such as parcel boundaries, project limits, wetland graphic representation symbols, etc. If internal upland polygons are found within a wetland polygon, then please label as UPLAND. The shapefile should utilize a State Plane Projection and be overlain onto recent aerial photography. If a different projection system is used, please indicate in which system the data are projected. In the correspondence sent with the shapefile, please supply a brief description of each wetland's plant community (eg: wet meadow, floodplain forest, etc.). Please send these data to Calvin Lawrence (608-266-0756 or email at calvin.lawrence@wisconsin.gov).

If you or any client has a question regarding your status in the Wetland Delineation Professional Assurance Program, contact me by email at kara.brooks@wisconsin.gov or phone at 414-308-6780. Thank you for all your hard work and best wishes for the upcoming field season.

Sincerely,

Kara Brooks
Wetland Identification Coordinator
Bureau of Watershed Management



HEYDAY WAUNAKEE		
WETLAND DELINEATION MAP	TOWN OF VIENNA, DANE COUNTY, WI	
SNYDER & ASSOCIATES, INC.	2727 S.W. SNYDER BLVD ANKENY, IOWA 50023 515-964-2020 | www.snyder-associates.com	

MARK	REVISION	DATE	BY
Engineer: ENGR	Checked By: CHKD	Scale: 1" = 100'	
Technician: TECH	Date: 11-11-2024	T-R-S: TTN-RRW-SS	
Project No: 124.1348.30		Sheet EXBT1	

SNYDER & ASSOCIATES

Project No: 124.1348.30

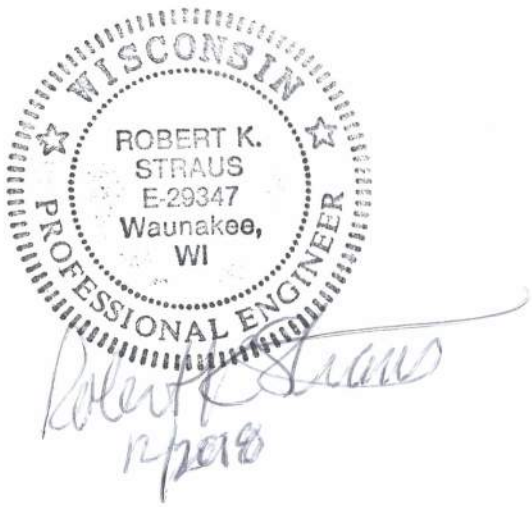
Sheet EXBT1

Appendix D – Supplemental Information

NOTE: Complete Report has been intentionally omitted--please contact the Village of Waunakee directly if you would like to request a copy.

Report for
Waunakee Utilities,
Village of Waunakee, Wisconsin

Sanitary Sewer Comprehensive Plan



Prepared by:

STRAND ASSOCIATES, INC.®
910 West Wingra Drive
Madison, WI 53715
www.strand.com

December 2018

STRAND ASSOCIATES®

Memorandum

To: Nick Bowers, P.E. **Date:** 12/8/2025

From: Brian Arcand, P.E.

CC:

RE: Heyday Waunakee – Stormwater Management

This memo is intended as a supplement to the Urban Service Area amendment submittal to verify that the proposed development can meet all state, county, and local stormwater requirements.

The site contains approximately 51.4 acres of developable area that consists mainly of agricultural land and grassland. There are existing wetlands in the north and also the southwest of the parcel. The north wetland area is not included in the annexation and will remain in the Town of Vienna. The south wetland will be annexed into the Village of Waunakee. Both wetland areas are included in the HydroCAD modeling but are being treated as off-site area since they are both entirely downstream of the development. There is an additional 43.8 acres of off-site area that drains to the parcel from the east and another 963 acres on the north side of Madison Street that flows through the drainage ditch through the north wetland. The site also includes an existing depressional area on the east, modeled in the pre-development HydroCAD model as node 1-PX. The portion of the depressional area located on this parcel will be filled in, with the off-site portion of the depressional area on the parcel to the east routed to the north stormwater management facility via a drainage swale. Post-development flows account for the depressional area in the pre-development condition.

Basins 1P and 2P will be part of the Heyday development and will be privately owned and maintained and will include a recorded Stormwater Maintenance Agreement. Basins 3P and 4P will include runoff from public right-of-way and will be located within an outlot that will be dedicated to the public.

Stormwater requirements include:

- Comply with NR-151 requirements.
- Maintain the pre-developed peak flow runoff rates for the 1, 2, 10, 100, and 200-year storm events.
- Safely pass the 500-year storm event.
- 80% of total suspended solids removal for water quality.
- Utilize maximum pre-development runoff curve number (CN) as required by the Village of Waunakee.
- Maintain 90% of pre-development stay-on (infiltration).

- Provide sediment control during construction, limiting construction erosion to 5 tons per acre per year.

Table 0-1: Pre-Development Peak Flows

Storm Event (Yr.)	Flow North (cfs)	Flow South (cfs)	Total Flow (cfs)
1	23.49	4.91	25.08
2	25.37	7.33	28.95
10	160.25	32.89	171.86
100	1,084.40	126.87	1,111.58
200	1,389.09	158.87	1,422.67
500	1,856.64	207.38	1,904.49

Table 0-2: Post-Development Peak Flows

Storm Event (Yr.)	Flow North (cfs)	Flow South (cfs)	Total Flow (cfs)	Total Flow With No Controls (cfs)
1	23.48	2.73	24.72	26.66
2	25.37	4.10	26.63	29.72
10	163.60	7.42	170.55	213.47
100	1,099.62	10.26	1,108.78	1,153.99
200	1,412.42	10.95	1,421.82	1,449.15
500	1,899.25	14.23	1,909.47	1,922.81

Table 0-3: Pre-Development High Water Levels

Storm Event (Yr.)	High Water Level – 1-PX	High Water Level – 2-PX	High Water Level – 3-PX	High Water Level – 4-PX
1	940.02	923.71	928.50	932.07
2	940.04	923.96	929.14	932.86
10	940.19	924.65	930.42	933.20
100	940.54	925.65	931.07	933.58
200	940.63	925.96	931.21	933.69
500	940.77	926.40	931.41	933.84

Table 0-4: Post-Development High Water Levels

Storm Event (Yr.)	High Water Level – 2-PX	High Water Level – 3-PX	High Water Level – 4-PX	High Water Level – 1-P	High Water Level – 2-P	High Water Level – 3-P	High Water Level – 4-P
1	923.30	928.50	932.07	930.86	930.83	930.51	929.87
2	923.55	929.14	932.86	931.29	931.26	930.96	930.25
10	924.39	930.42	933.20	932.75	932.51	932.77	930.71
100	925.50	931.08	933.58	934.28	934.31	933.88	933.62
200	925.83	931.22	933.69	934.92	935.01	934.45	934.46
500	926.34	931.42	933.84	935.37	935.49	935.38	935.38

Table 0-5: Total Suspended Solid Calculations

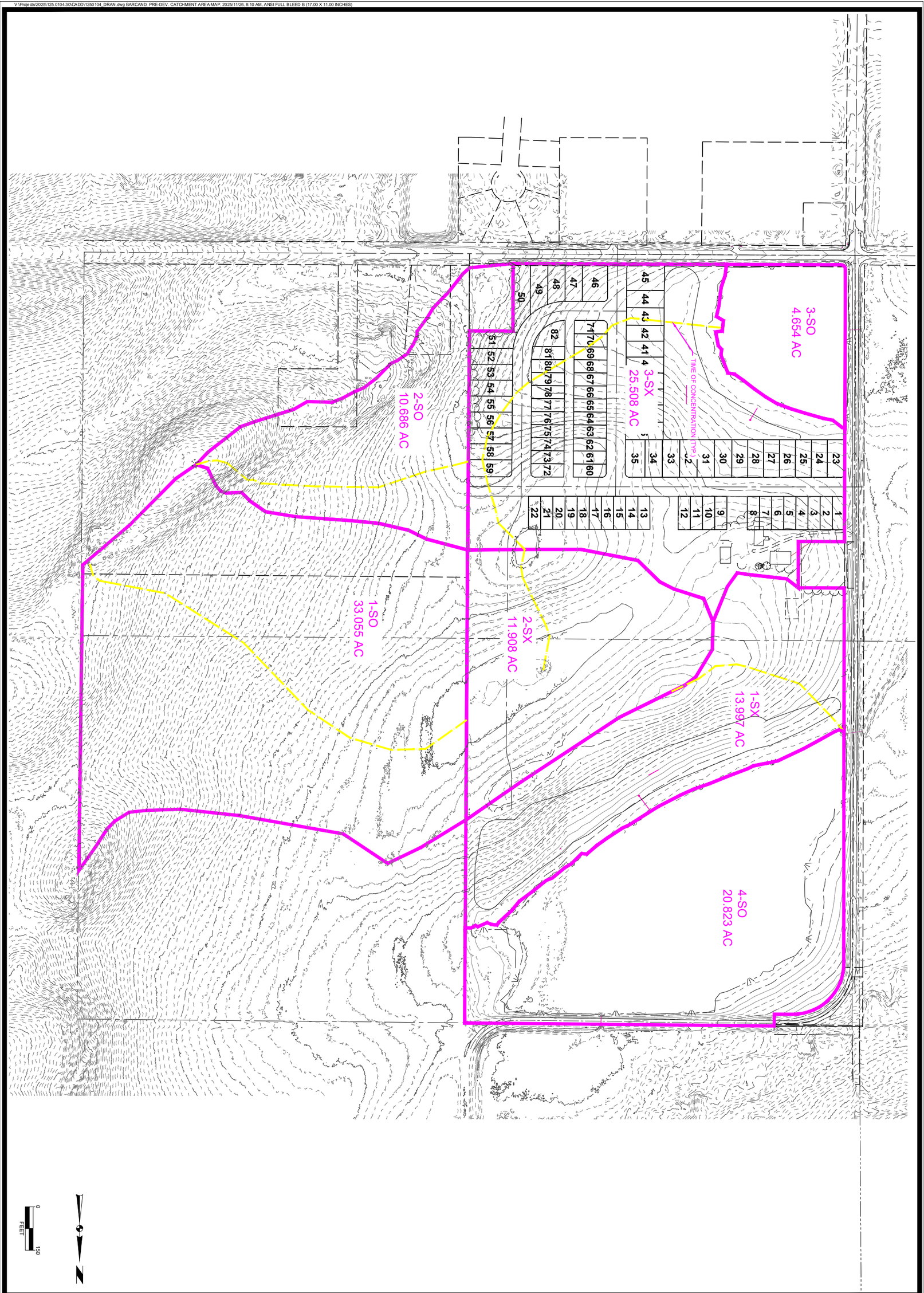
	Particulate Solids Yield (lbs.)	Percent Particulate Solids Reduction
Total of All Land Uses without Controls	14,741	
Outfall Total with Controls	2,129	85.56
Annualized Total After Outfall Controls	2,134	

Table 0-6: Total Infiltration

Condition	Runoff Volume (cu. ft.)	Percent Infiltrated
Pre-Development	322,719	
Post-Development	688,047	92.8

Enclosures include:

- Pre-Development Drainage Map
- Post-Development Drainage Maps
- HydroCAD Modeling
- WinSLAMM Modeling
- Infiltration Calculations
- Modeling Assumptions



HEYDAY WAUNAKEE

PRE-DEV. CATCHMENT AREA MAP

VILLAGE OF WAUNAKEE, DANE COUNTY, WI

SNYDER & ASSOCIATES

SNYDER & ASSOCIATES, INC.

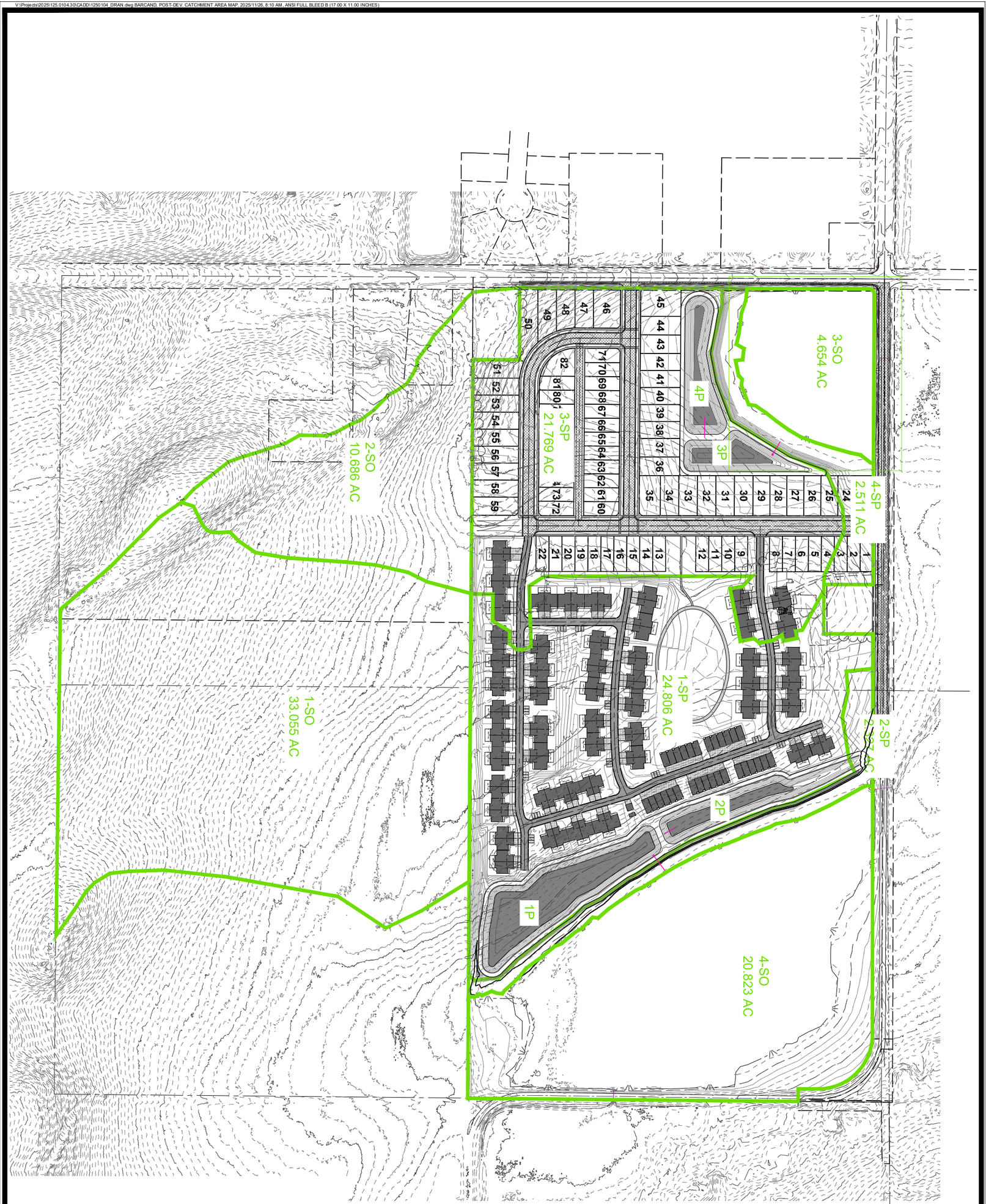
5010 VOGES ROAD
MADISON, WISCONSIN 53718
608-838-0444 | www.snyder-associates.com

MARK	REVISION	DATE	BY

Engineer: BCA	Checked By: MLC	Scale: 1" = 150'
Technician: DMS	Date: 11-12-2025	T-R-S: TTN-RRW-SS
Project No: 125.0104.30		Sheet EXBT

Project No: 125.0104.30

Sheet EXBT



HEYDAY WAUNAKEE

POST-DEV. CATCHMENT AREA MAP

VILLAGE OF WAUNAKEE, DANE COUNTY, WI

SNYDER & ASSOCIATES, INC.

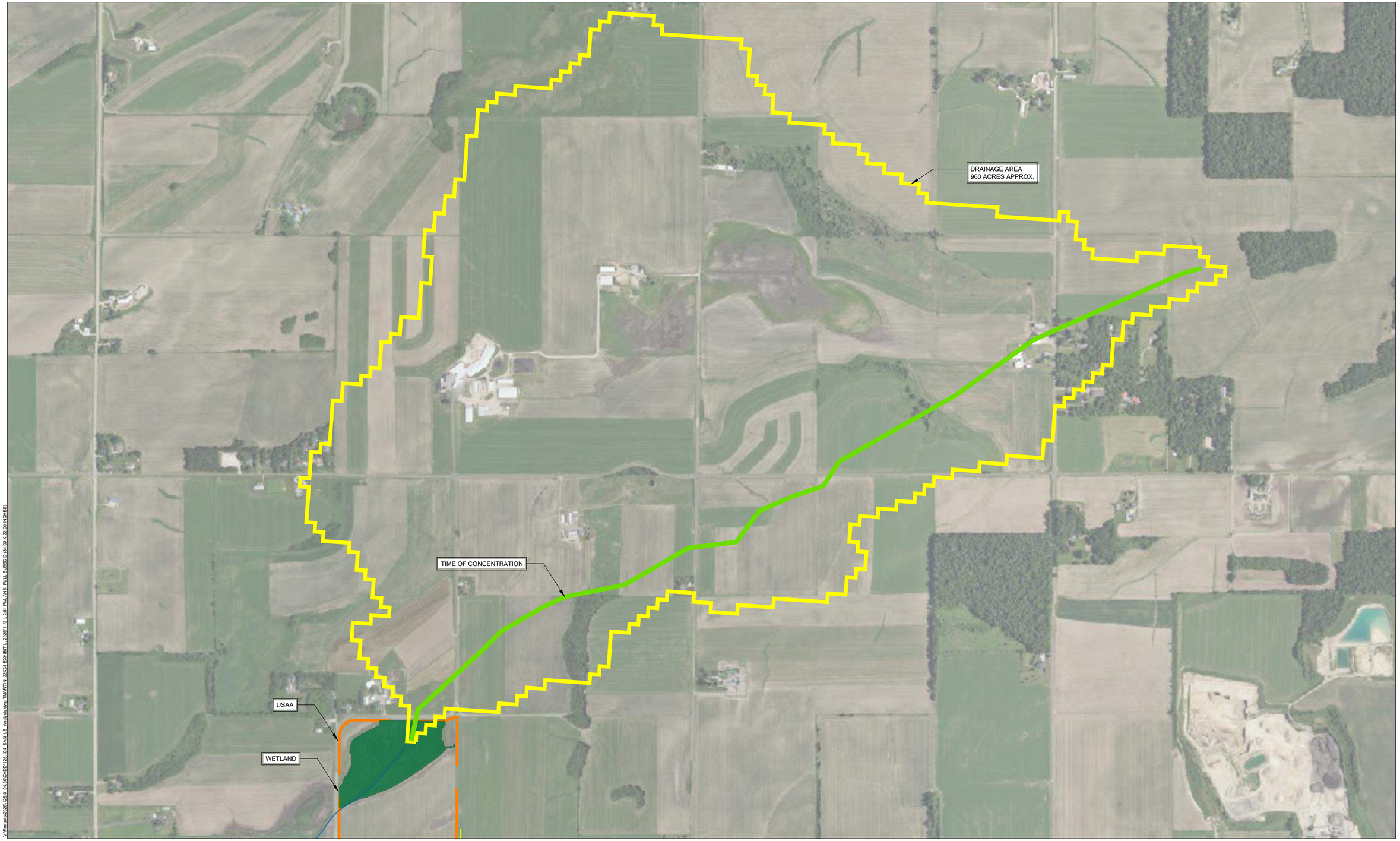
5010 VOGES ROAD
MADISON, WISCONSIN 53718
608-838-0444 | www.snyder-associates.com

MARK	REVISION	DATE	BY

Engineer: BCA	Checked By: MLC	Scale: 1" = 150'
Technician: DMS	Date: 11-12-2025	T-R-S: TTN-RRW-SS
Project No: 125.0104.30		Sheet EXBT

Project No: 125.0104.30

Sheet EXBT



V:\Projects\2025\125.0104.30\CAD\125.104_SNA_LS_Analysis.dwg TMARTIN, 2/3/24 EXHIBIT L, 2025/11/21, 2:51 PM, ANSI FULL BLEED D (34.00 X 22.00 INCHES)

SNYDER & ASSOCIATES

0 500
FEET

N

HEYDAY WAUNAKEE USA

DRAINAGE BASIN

WAUNAKEE, DANE COUNTY, WISCONSIN | 11/21/2025

Model Assumptions

Notes:

1. WinSLAMM model is based on the post-development HydroCAD model for the proposed project site along with the assumptions stated below.

Assumptions:

1. Post-development WinSLAMM model assumes normal clayey soil for any disturbed areas to account for compaction during construction.

2. Post-development HydroCAD model lowers permeable areas by one permeability class to account for compaction during construction.

3. High Rise Residential (HRR) Applied Land Use was utilized in WinSLAMM to approximately match the 1/8 acre (65% impervious) lots in the HydroCAD model.

4. Medium Density Residential No Alleys (MDRNA) Applied Land Use was utilized in WinSLAMM to approximately match the 1/4 acre (38% impervious) lots in the HydroCAD model.

5. All offsite impervious was modeled as driveway in WinSLAMM.

6. Wetland depressional areas were not modeled as basins in WinSLAMM.

7. Drainage areas for wetlands were modeled with a CN of 100 in HydroCAD and as Water Body Areas in WinSLAMM.

8. Off-site areas utilize an “Other Device” in WinSLAMM to remove TSS loadings for modeling TSS removal on site.

9. Off-site areas utilize an “Other Device” in WinSLAMM to remove both TSS loadings and runoff for modeling infiltration on site to ensure credit is not taken for off-site runoff.

10. Wetland drainage areas and the large off site drainage area north of Madison Street utilize an “Other Device” in WinSLAMM to remove both TSS loadings and runoff for modeling.

SNYDER
& ASSOCIATES

Infiltration Calculations

Heyday Waunakee
12/08/25

Average Annual Rainfall = 28.81 inches

Notes:

1.) Infiltration calculations are based on runoff volume outputs from WinSLAMM v10.2.1
2.) = Cells That Require Data Input.

Pre-Development Infiltration Calculations:

1.) Pre-development Project Site Area = 51.413 acres

51.413 acres * (43,560 sq. ft./1 acre) = 2,239,550 sq. ft.

2.) Pre-development runoff volume = 322,719 cu. ft.

3.) Pre-development runoff depth = (322,719 cu. ft. / 2,239,550 sq. ft.)

= 0.14 ft.
= 1.73 in.

4.) Pre-development stay-on depth = (28.81 in. - 1.73 in.)

= 27.08 in

Target Post-Development Stay-On Depth = 90.0% of Pre-Development Stay-On Depth

5.) Target Post-development stay-on = (27.08 in. * 0.9)

= 24.37 in.

Post-Development Infiltration Calculations:

1.) Post-development Project Site Area = 51.413 acres

51.413 acres * (43,560 sq. ft./1 acre) = 2,239,550 sq. ft.

2.) Post-development runoff volume = 688,047 cu. ft.

3.) Post-development runoff depth = (688,047 cu. ft. / 2,239,550 sq. ft.)

= 0.31 ft.
= 3.69 in.

Infiltration Calculations

Post-Development Infiltration Calculations (Continued):

4.) Post-development stay-on depth = (28.81 in. - 3.69 in.)

= **25.12 in**

5.) Post-development stay-on percentage as compared to pre-development stay-on:

= (25.12 in. / 27.08 in.)
= **92.8%**

The post-development project site infiltrates approximately **92.8%** of the pre-development infiltration volume.