



AGENDA
OZAUKEE COUNTY BOARD
REGULAR MEETING
WEDNESDAY, OCTOBER 2, 2024 – 9:00 AM
ADMINISTRATION CENTER - ROOM A-204
121 W. MAIN STREET, PORT WASHINGTON, WI 53074

THE FOLLOWING BUSINESS WILL BE BEFORE THE COUNTY BOARD FOR INITIATION, DISCUSSION, CONSIDERATION, DELIBERATION AND POSSIBLE FORMAL ACTION:

The public can access the meeting by viewing the live stream at the link which will be opened five minutes before the call to order:

[County Board Live Stream](#)

The public can submit comments here: [Public Comment Form](#)

[Public Comment Policy & Instructions For Submitting Public Comments Online](#)

- 1. CALL TO ORDER**
- 2. PLEDGE OF ALLEGIANCE TO THE FLAG**
- 3. APPROVAL OF MINUTES**
 - a. September 4 & 18, 2024
- 4. PUBLIC COMMENT**
 - Legislative Update
 - Chairperson's Proclamation
- 5. COMMUNICATIONS**
- 6. CLAIMS**
- 7. REPORT OF COUNTY ADMINISTRATOR**
 - Lasata CBRF Update
 - Human Services Director Recruitment
 - Belgium Farms LLC Donation of Park Land
- 8. PRESENTATIONS**
 - 2025 Budget Update**
 - Jason Dzwiniel - County Administrator*
- 9. RESOLUTIONS**
 - RES.24-22: Authorization of Sale of Tax Deed Property, City of Mequon, 1162100 Lots 1, 2, 3, 4, 5 & 6 Blk 4 Riverdale Park - Vacant Land. Parcel# 15-100-04-01-000
 - RES.24-23: Union Pacific Railroad's CTH Q Crossing Repair Request
 - RES.24-24: Town Road Bridge Aid for Town of Cedarburg's Cedar Creek Bridge
 - RES.24-25: Town Road Bridge Aid for Town of Cedarburg's Cedar Creek Road Culvert
 - RES.24-26: Submittal and Acceptance of a Wisconsin Department of Natural Resources Surface Water Planning Grant to Support Water Quality Monitoring Activities on the Little Menomonee River, Mole Creek, Ulao Creek and Sucker Creek in Ozaukee County
- 10. ORDINANCES**
 - ORD.24-8: Shoreland & Floodplain Zoning Map Amendment - Town of Belgium, Section 18
 - ORD.24-9: Shoreland & Floodplain Zoning Map Amendment- Town of Cedarburg, Section 21
- 11. NUMBERED REPORTS**
 - REP.24-2: Annual Dog Listing Report 2024
- 12. COMMITTEE APPOINTMENTS/REAPPOINTMENTS**
- 13. COMMITTEE REPORTS AND SUPERVISOR ANNOUNCEMENTS**
- 14. ADJOURNMENT**

Ozaukee County Board**AGENDA INFORMATION SHEET**

AGENDA DATE:	October 2, 2024
DEPARTMENT:	County Clerk
DIRECTOR:	Karen Niemuth
PREPARER:	Karen Niemuth

Agenda Summary September 4 & 18, 2024

September 4, 2024

https://www.ozaukeecounty.gov/AgendaCenter/ViewFile/Minutes/_09042024-3461

September 18, 2024

https://www.ozaukeecounty.gov/AgendaCenter/ViewFile/Minutes/_09182024-3472

OZAUKEE COUNTY BOARD

RESOLUTION NO. 24-22

AUTHORIZATION OF SALE OF TAX DEED PROPERTY, CITY OF MEQUON, 1162100 LOTS 1, 2, 3, 4, 5 & 6 BLK 4 RIVERDALE PARK - VACANT LAND. PARCEL# 15-100-04-01-000

WHEREAS, Ozaukee County through its annual tax settlement with all property tax jurisdictions paid out \$639.28 in delinquent taxes on parcel #15-100-04-01-000, located on Circle Drive, in the City of Mequon; and

WHEREAS, Ozaukee County Treasurer subsequently was unable to collect the delinquent taxes, special assessments/charges along with the accrued interest and penalty through an installment or any other measures; and

WHEREAS, the Ozaukee County Treasurer initiated in rem foreclosure proceedings in an attempt to recover the delinquent taxes and Ozaukee County was eventually granted ownership via Circuit Court on August 5, 2024 to recover the value of delinquent taxes; and

WHEREAS, the Finance Committee has appraised the property's value to be \$5,000; and

WHEREAS, the Treasurer posted public notice for auction, and the Finance Committee reviewed the property bid results obtained from interested parties to purchase the property and will recommend disposition to the Ozaukee County Board.

NOW, THEREFORE, BE IT RESOLVED that the Ozaukee County Board of Supervisors, authorize the sale of property "as is" to the bid most advantageous to the county considering among other factors, the dollar amount of the respective bids, proposed use of the property, whether the land will be subject to real estate taxes, build ability under present zoning codes, cost of providing services, potential revenue and taxes, etc. as recommended by the Finance Committee.

Dated at Port Washington, Wisconsin, this 2nd day of October, 2024.

SUMMARY: Tax Deed Sale of Property, City of Mequon, 1162100 Lots 1, 2, 3, 4, 5 & 6 BLK 4 Riverdale Park - Vacant Land, parcel #15-100-04-01-000.

VOTE REQUIRED: Majority

FINANCE COMMITTEE

09/26/24

Finance Committee APPROVED

RESULT: **APPROVED [UNANIMOUS]**
MOVER: J. Arnett, Supervisor District 17
SECONDER: D. Clark, Supervisor District 5
AYES: Stelter, Larson, Richart, Clark, Arnett

FINANCE COMMITTEE

Finance Committee
AGENDA INFORMATION SHEET

AGENDA DATE:	October 2, 2024
DEPARTMENT:	Treasurer
DIRECTOR:	Sandi Tretow
PREPARER:	Sandi Tretow

Agenda Summary Authorization of Sale of Tax Deed Property, City of Mequon, 1162100 Lots 1, 2, 3, 4, 5 & 6 Blk 4 Riverdale Park - Vacant Land. Parcel# 15-100-04-01-000

BACKGROUND INFORMATION: Judgment to Ozaukee County for non-payment of real estate taxes on August 5, 2024 by the Honorable Sandy A. Williams, Circuit Court Judge.

Prior Owner: Pearl C. Sorce (dec).

Property Description 1162100 Lots 1, 2, 3, 4, 5 & 6 Blk 4 Riverdale Park.

Location: Circle Drive and Island Drive, Mequon, WI 53092

Assessment: 2024 Land Only: \$11,700

Appraisal: Ozaukee County Finance Department

ANALYSIS: Objective to sell property "as is" before 11/1/2024 to avoid any additional interest and penalties from 2023 tax bill.

FISCAL IMPACT: Excess proceeds after taxes and expenses on parcel are to be returned to prior owner's heirs/beneficiaries if any come forward, or to unclaimed funds.

Balance Current Year: \$2,067.36

FUNDING SOURCE: Sale of Property

RECOMMENDED MOTION: Accept highest bid no less than \$5,000

RESOLUTION NO. 24-23

UNION PACIFIC RAILROAD'S CTH Q CROSSING REPAIR REQUEST

WHEREAS, County Trunk Highway (CTH) Q (Ula Road), a County Highway and public street within the Town of Grafton, crosses the tracks of the Union Pacific Railroad at-grade crossing (Crossing #180124M); and

WHEREAS, section 86.12 of the Wisconsin statutes requires railroads to maintain public at-grade crossings in good condition and repair for public travel; and

WHEREAS, the CTH Q crossing is not in good condition with low spots, loose panels and failing asphalt; and

WHEREAS, the CTH Q crossing has generated complaints for over two years from residents, businesses and public officials;

WHEREAS, Ozaukee County hereby requires that the Union Pacific Railroad to pave, plank, repair, change or otherwise improve the crossing, as the needs require.

NOW, THEREFORE, BE IT RESOLVED, that the County Board hereby directs the Ozaukee County Public Works Director to serve a copy of this resolution upon the Union Pacific Railroad requesting repair of the rail-highway crossing at CTH Q in the Town of Grafton, Ozaukee County.

BE IT FURTHER RESOLVED, that in the event that the Union Pacific Railroad fails to repair the CTH Q crossing within 30-days after service of the resolution, the County Board hereby directs the Public Works Director to take all necessary steps to petition the Office of the Commissioner of Railroads for an investigation and order for the repair of the rail-highway crossing of CTH Q with the tracks of the Union Pacific Railroad in the Town of Grafton, Ozaukee County.

Dated at Port Washington, Wisconsin, this 2nd day of October, 2024.

SUMMARY: Request to Union Pacific to repair CTH Q railroad crossing.

VOTE REQUIRED: Majority

09/19/24

Public Works Committee

APPROVED

RESULT: **APPROVED [UNANIMOUS]**
MOVER: D. Vogel, Supervisor District 10
SECONDER: T. Grabow, Vice-Chairperson
AYES: Wolf, Grabow, Strom, Bichler, Vogel

PUBLIC WORKS COMMITTEE

Public Works Committee
AGENDA INFORMATION SHEET

AGENDA DATE:	October 2, 2024
DEPARTMENT:	Highway
DIRECTOR:	Jon Edgren
PREPARER:	Jon Edgren

Agenda Summary Union Pacific Railroad's CTH Q Crossing Repair Request

BACKGROUND INFORMATION:

The Union Pacific Railroad has a crossing on CTH Q (Ula Road), just east of I-43, that has been generating complaints for a couple years. We've reached out to the Union Pacific Railroad a few times, and directed residents to contact their Problem and/or Emergency Reporting Line as well.

Some work has been performed, but there continue to be loose panels and low spots causing vehicles to swerve around portions of the crossing. Also, there continues to be complaints arising from the rough nature of the crossing.

In order to start a formal process to require a rough crossing repair through the State of Wisconsin Office of the Commissioner of Railroads (OCR), Ozaukee County needs to pass a resolution, and then serve the resolution to Union Pacific before filing a formal OCR complaint. (See attached.)

ANALYSIS:

Attached is the proposed resolution requesting Union Pacific's attention to repair and/or replace the existing CTH Q Railroad Crossing.

Given the complaints, and the timeframe required to file a formal repair request through the OCR, we recommend moving forward with the resolution at this time. If Union Pacific performs repairs in the near future, no formal complaint would be required to be filed.

FISCAL IMPACT:

Balance Current Year: --

Next Year's Estimated Cost: --

FUNDING SOURCE:

County Levy: --

Non-County Levy: --

Indicate source: --

RECOMMENDED MOTION:

Approve the Union Pacific Railroad's CTH Q Crossing Repair Request resolution, and forward to the Ozaukee County Board for approval

ATTACHMENTS:

- OCR - Rough Crossing Process (PDF)

State of Wisconsin Office of the Commissioner of Railroads

Rough Crossing Process

Before proceeding with the rough crossing process, the Office of the Commissioner of Railroads (OCR) requires that the municipality report conditions to the railroad. The OCR can provide the municipality contact information to report the issues to the railroad. Reporting the crossing to the railroad can avert the need to go through the formal complaint and hearing process.

Rough crossing repairs. Section 86.12 of state law requires the railroad to maintain all at-grade crossings in good condition for travel. If the railroad fails to do so, the highway authority can enforce this law through the OCR. The statute requires a two-step process.

First, the governing body of the municipality must pass a resolution demanding the repairs and serve it upon the railroad. "Serving" is the formal delivery of legal documents to the railroad's registered legal agent. The mailing addresses for railroad registered agents are found here: [OCR Railroad Registered Agents \(wi.gov\) \(/pages/railroadRegisteredAgents.aspx\)](https://ocr.wi.gov/Pages/railroadRegisteredAgents.aspx). Correspondence to the railroad must include the municipality contact name, phone, and email. You are required to mail your resolution to the railroad **registered agent via certified mail**, so you have evidence that your resolution was delivered to the railroad. This certified mail receipt is required to show proof of service on the railroad should a formal complaint be filed later. The railroad then has 30 days under the statute to repair the crossing. If they fail to do so, the highway authority may file a formal complaint with the OCR. Individuals may not file formal rough crossing complaints directly with the OCR; instead, they should contact the local highway authority regarding the condition of the crossing.

The filing of the formal complaint must also be authorized by the local governing body. The governing body may either pass two separate resolutions or **include authorization to the municipal staff to file the complaint in the original resolution if the railroad fails to repair the crossing**. A sample resolution for the combined complaint can be found in the FAQ section of the OCR's website under OCR Legal Process: <https://ocr2016-auth-prod.wi.gov/Pages/ResolutionRoughCrossing.aspx> ([/Pages/ResolutionRoughCrossing.aspx](https://ocr2016-auth-prod.wi.gov/Pages/ResolutionRoughCrossing.aspx)).

Formal complaints are to be submitted electronically through the 'Electronic Records Filing' system on the OCR website, <https://ocr.wi.gov/> a minimum of 30 days after serving the railroad registered agent. Once the OCR receives the formal complaint and supporting documentation (petition, copy of resolution(s), and proof of service of railroad registered agent via certified mail receipt), we schedule a hearing to take testimony on the complaint. The hearing will be held in Madison and available by phone in the local municipality. At the hearing, the municipality has to demonstrate that the railroad has not kept the crossing "in good condition and repair for highway travel". This showing is often made using photos of the crossing (sometimes with a ruler/tape measure if there is a difference in elevation between the rail and the roadway surface) and testimony. Testimony could include the number of complaints the city has received about the crossing or that the crossing feels rough when driving over it. The testimony is usually given by the municipal engineer or Director of Public Works, but can also be given by local elected officials and individual residents.

After the hearing, the OCR decides whether the crossing requires repairs and if so, orders the railroad to repair the crossing by a date certain.

Contact Information

4822 Madison Yards Way
Suite S633
Madison, WI 53705

Resources

[Wisconsin Railroads \(/pages/WIRailroads.aspx\)](/pages/WIRailroads.aspx)

[Federal Rail Administration \(https://railroads.dot.gov/\)](https://railroads.dot.gov/)

[Operation Lifesaver \(https://www.facebook.com/WisconsinOperationLifesaver/\)](https://www.facebook.com/WisconsinOperationLifesaver/)

[\(https://www.wisconsin.gov/\)](https://www.wisconsin.gov/)

RESOLUTION NO. 24-24

TOWN ROAD BRIDGE AID FOR TOWN OF CEDARBURG'S CEDAR CREEK BRIDGE

WHEREAS, Wisconsin State Statutes allow for Townships to seek fifty-percent (50%) funding for bridges or culverts with a 36-inch or greater span through their respective County as prescribed in Wisconsin State Statutes Section 82.08 - Town bridges or culverts; construction and repair; county aid; and

WHEREAS, the Town Board of the Town of Cedarburg, by resolution, passed and adopted on September 4th, 2024, a petition for aid to replace the Cedar Creek Road Bridge (P45-0038), 2,000-ft east of County Trunk Highway (CTH) I; and

WHEREAS, the aforementioned bridge is in poor condition and needs to be replaced; and

WHEREAS, the proposed bridge will meet the standards and specifications for design and construction set by Wisconsin Department of Transportation (WisDOT); and

WHEREAS, the bridge replacement is estimated to have a total construction cost of \$1,686,359, but the Town received a Wisconsin Department of Transportation (WisDOT) grant to cover 80% of the costs leaving the Town to cover \$338,072; and

WHEREAS, the Town has requested for Ozaukee County to split the construction cost of the project, which would have the County and Town responsible for approximately \$138,586 each; and

WHEREAS, the county's share of this bridge replacement will be levied against the Town Parcels in Ozaukee County during the 2026 Budget.

NOW, THEREFORE, BE IT RESOLVED by the Ozaukee County Board of Supervisors that the Petition is hereby granted.

BE IT FURTHER RESOLVED that upon the filing of written notice with the County Public Works Committee by the Town of Cedarburg Town Board that the work has been completed and accepted by the Town Board, the County's share of the project costs shall be disbursed to the Town upon approval by the Public Works Committee and acquisition of the levied funds by the County Clerk.

Dated at Port Washington, Wisconsin, this 2nd day of October, 2024.

SUMMARY: Town of Cedarburg's Bridge Aid Request for Cedar Creek Bridge.

VOTE REQUIRED: Majority

09/19/24

Public Works Committee

APPROVED

RESULT: **APPROVED [UNANIMOUS]**
MOVER: T. Grabow, Vice-Chairperson
SECONDER: J. Strom, Supervisor District 21
AYES: Wolf, Grabow, Strom, Bichler, Vogel

PUBLIC WORKS COMMITTEE

Public Works Committee
AGENDA INFORMATION SHEET

AGENDA DATE:	October 2, 2024
DEPARTMENT:	Highway
DIRECTOR:	Jon Edgren
PREPARER:	Jon Edgren

Agenda Summary Town Road Bridge Aid for Town of Cedarburg's Cedar Creek Bridge

BACKGROUND INFORMATION:

The Town of Cedarburg has a second Town Road Bridge Aid request similar to the previous item for the Cedar Creek Culvert.

In this particular case, the Town of Cedarburg is planning to replace the Cedar Creek Road Bridge (P45-0038), which is 2,000-ft east of County Trunk Highway (CTH) I.

The total estimated construction cost is \$1,686,359, but the Town has received a WisDOT grant to cover 80% of the construction costs, which would leave the Town of Cedarburg with an estimated cost of \$338,072. The Town of Cedarburg has requested Ozaukee County to split the construction cost portion of the estimate, which would have Ozaukee County cover \$138,586.

Attached is the Town of Cedarburg's petition.

ANALYSIS:

Attached is the proposed resolution directing the set-aside of funds for the Town of Cedarburg's request. Per Section (2)(a), the funds should be set aside in a separate account administered by the Highway Department for future payments.

However, the Town of Cedarburg is planning for replacement of the Cedar Creek Road Bridge in 2026, so the funds won't need to be set aside until the 2026 Budget.

FISCAL IMPACT:

Balance Current Year: --

Next Year's Estimated Cost: \$138,586 (2026)

FUNDING SOURCE:

County Levy: \$138,586 (Apportionment to Ozaukee County Town Parcels)

Non-County Levy: --

Indicate source: --

RECOMMENDED MOTION:

Approve the Town of Cedarburg's Town Road Bridge Aid request for Cedar Creek Road Bridge, and forward to the Ozaukee County Board for approval.

ATTACHMENTS:

- Res. 2024-6 Cedar Creek Bridge Aid Request Resolution (PDF)

The Town of Cedarburg, Wisconsin

IN THE NAME AND BY THE AUTHORITY OF THE TOWN OF CEDARBURG, WISCONSIN

RESOLUTION #2024-6

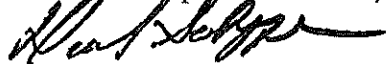
“Resolution Petitioning Ozaukee County Bridge Construction and Repair Funding for the Cedar Creek Road Bridge P45-0038”

WHEREAS, the Town of Cedarburg is an unincorporated Town within Ozaukee County, Wisconsin; and,
WHEREAS, the Town Public Works Department maintains specified bridges in the Town of Cedarburg, with the bridge on Cedar Creek Road (P45-0038) over Cedar Creek being one of those bridges; and,
WHEREAS, the Town Board of Supervisors is respectfully petitioning Ozaukee County for 50% of any costs not paid with funding through the State/Municipal Agreement for such bridge construction and repair as allowed by Chapter 82 of WI State statutes as follows:

- Ozaukee County is designated the responsibility of determining priorities of projects for the use of County funding eligible for projects, such as this bridge construction/repair.
- This bridge is located approximately 2,000 feet east of County Highway I on Cedar Creek Road, and the bridge has been identified as being deficient.
- The Town of Cedarburg was awarded a State/Municipal Agreement for a State-Let Local Bridge Project for the bridge on Cedar Creek Road (P45-0038) over Cedar Creek funding up to 80% of the project costs up to a limit of \$1,348,287, with total project length of 145 feet and the existing bridge length of 85', which was approved by the Town Board.
- Estimated total cost is \$1,686,359. The Town's share is estimated at +/- \$338,072 (design engineering + construction costs), with the Town respectfully requesting from Ozaukee County funding of +/- \$138,586 (50% of the construction only costs allowed by Ch 82 of WI State statutes).
- The town and county shall each pay one-half of the cost of construction or repair. In determining the cost of construction or repair of any bridge or culvert, the cost of constructing or repairing any approach not exceeding 100 feet in length shall be included.
- The project is set to be constructed in 2026.

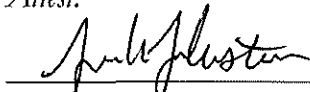
NOW THEREFORE, BE IT RESOLVED that the Town Board of Supervisors in Cedarburg, Wisconsin, does hereby petition Ozaukee County for reimbursement of 50% of any costs not paid with State funding for such bridge construction/repair as allowed by Chapter 82 of WI State Statute.

Passed and adopted this 4th day of September 2024.



David M. Salvaggio, Town Chairman

Attest:



Jack Johnston, Assistant Administrator/Clerk

Attachment: Res. 2024-6 Cedar Creek Bridge Aid Request Resolution (RES.24-24 : T-Cedarburg Bridge Aid)

RESOLUTION NO. 24-25

TOWN ROAD BRIDGE AID FOR TOWN OF CEDARBURG'S CEDAR CREEK ROAD
CULVERT

WHEREAS, Wisconsin State Statutes allow for Townships to seek fifty-percent (50%) funding for bridges or culverts with a 36-inch or greater span through their respective County as prescribed in Wisconsin State Statutes Section 82.08 - Town bridges or culverts; construction and repair; county aid; and

WHEREAS, the Town Board of the Town of Cedarburg, by resolution, passed and adopted on September 4th, 2024, a petition for aid to replace a 48-inch culvert under Cedar Creek Road, 900-ft west of Covered Bridge Road; and

WHEREAS, the aforementioned culvert is in poor condition and needs to be replaced; and

WHEREAS, the proposed culvert will meet the standards and specifications for design and construction set by Wisconsin Department of Transportation (WisDOT); and

WHEREAS, the Town requests that the County equally share in 50% of the cost of the culvert replacement, which is estimated to cost \$40,000 or \$20,000 each; and

WHEREAS, the county's share of this culvert replacement will be levied against the Town Parcels in Ozaukee County; and

NOW, THEREFORE, BE IT RESOLVED by the Ozaukee County Board of Supervisors that the Petition is hereby granted.

BE IT FURTHER RESOLVED that upon the filing of written notice with the County Public Works Committee by the Town of Cedarburg Town Board that the work has been completed and accepted by the Town Board, the County's share of the project costs shall be disbursed to the Town upon approval by the Public Works Committee and acquisition of the levied funds by the County Clerk.

Dated at Port Washington, Wisconsin, this 2nd day of October, 2024.

SUMMARY: Town of Cedarburg's Bridge Aid Request to Replace Culvert on Cedar Creek Road.

VOTE REQUIRED: Majority

09/19/24

Public Works Committee

APPROVED

RESULT: **APPROVED [UNANIMOUS]**
MOVER: D. Vogel, Supervisor District 10
SECONDER: T. Bichler, Supervisor District 1
AYES: Wolf, Grabow, Strom, Bichler, Vogel

PUBLIC WORKS COMMITTEE

Public Works Committee
AGENDA INFORMATION SHEET

AGENDA DATE:	October 2, 2024
DEPARTMENT:	Highway
DIRECTOR:	Jon Edgren
PREPARER:	Jon Edgren

Agenda Summary Town Road Bridge Aid for Town of Cedarburg's Cedar Creek Road Culvert

BACKGROUND INFORMATION:

Wisconsin State Statute 82.08 - Town Bridges or Culverts; Construction and Repair; County Aid (attached) provides Townships with a method to assist in the reconstruction of larger culverts or bridges by obtaining reimbursement of 50% of construction related costs from their County. The County's portion will be levied against Town parcels within the County.

Section (2)(b) does allow for County's to refuse these petitions, but only if the County Board hasn't granted County Bridge Aid previously. However, Ozaukee County has approved County Bridge Aid at various times, so I believe that there is no ability to decline the request.

In this particular case, the Town of Cedarburg is planning to replace a 48-inch diameter culvert under Cedar Creek Road, 900-ft west of Covered Bridge Road. It is eligible as it's larger than 36-inches, which is the minimum size to be eligible for Town Road Bridge Aid.

The Town of Cedarburg has already purchased the culvert, and worked with Ozaukee County to develop a rough total cost estimate, which was established at \$40,000. Therefore, the Town and County would each be responsible for \$20,000. Attached is the Town of Cedarburg's petition.

ANALYSIS:

The Town of Cedarburg is planning for replacement of the culvert under Cedar Creek Road this Fall. As part of Wisconsin State Statute 82.08 (5) Supervision over Design, Construction, and Cost, the County Highway Committee, along with the Town Board if interested, is given full charge of construction. Therefore, if the proposed work is able to be completed by County staff, then we plan to perform the construction.

Attached is the proposed resolution directing the set-aside of funds for the Town of Cedarburg's request. Per Section (2)(a), the funds should be set aside in a separate account administered by the Highway Department for future payments.

FISCAL IMPACT:

Balance Current Year: --

Next Year's Estimated Cost: \$20,000

FUNDING SOURCE:

County Levy: \$20,000 (Apportionment to Ozaukee County Town Parcels)

Non-County Levy: --

Indicate source: --

RECOMMENDED MOTION:

Approve the Town of Cedarburg's Town Road Bridge Aid request for Cedar Creek Road Culvert, and forward to the Ozaukee County Board for approval.

ATTACHMENTS:

- WI State Statutes - 82.08 - Town Bridges & County Aid - REV (PDF)
- Res. 2024-7 Cedar Creek Road Culvert Aid Request Resolution (PDF)

82.08 Town bridges or culverts; construction and repair; county aid.

- (1) PETITIONS. A town that has voted to construct or repair any bridge or culvert that is on, or that after the construction will be connected to, an existing highway maintained by the town may file a petition for county aid with the county highway commissioner. The petition shall describe the location and size of the bridge or culvert and shall contain a statement that the town has provided the funds required by sub. (3).
- (2) FUNDING REQUIREMENTS.
 - (a) Except as provided in par. (b), upon receipt of a petition for a bridge or culvert with a 36-inch or greater span, or a structure of equivalent capacity to carry water, the county board shall appropriate the sum required by sub. (3) and shall levy a tax therefor. The tax, when collected, shall be held in a separate account administered by the county highway committee.
 - (b) If on January 1, 2003, a county has a policy of providing funding only for bridges and culverts larger than the requirement of par. (a), the county may refuse to fund bridges and culverts that do not meet the minimum requirements of that policy. The minimum size bridge or culvert that a county is required to fund under this section may be raised, but not lowered, by the affirmative vote of a majority of the towns in the county. The county board of any county that has never granted aid under this section may, in its discretion, refuse all petitions under sub. (1).
- (3) SHARED COST. The town and county shall each pay one-half of the cost of construction or repair. In determining the cost of construction or repair of any bridge or culvert, the cost of constructing or repairing any approach not exceeding 100 feet in length shall be included.
- (4) EMERGENCY PETITION. Whenever the construction or repair of any bridge or culvert must be made without delay, the town board may file its petition with the county clerk and the county highway committee, explaining the necessity for immediate construction or repairs. It shall then be the duty of the town board and the county highway committee to construct or repair the bridge or culvert as soon as practicable. The construction or repair of a bridge or culvert undertaken pursuant to this subsection shall entitle the town to the same county aid that the town would have been entitled to had it filed its petition with the county board as provided in sub. (1).
- (5) SUPERVISION OVER DESIGN, CONSTRUCTION, AND COST.
 - (a) Except as provided under par. (b), the county highway committee and the town board shall have full charge of design, sizing, letting, inspecting, and accepting the construction or repair, but the town board may leave the matter entirely in the hands of the county highway committee. The county highway committee and the town board must agree on the cost of the project and must consult each other during construction.
 - (b) For a project receiving funds under s. 84.18, supervision and control of construction of the project shall be as provided under s. 84.18 (6).
- (6) CONSTRUCTION REQUIREMENTS. No county order may be drawn under sub. (2) for the construction of a bridge or culvert unless the design and construction comply with requirements under s. 84.01 (23).
- (7) NO TAX. Except as provided in ss. 61.48 and 84.14 (3), nothing contained in this section shall authorize the levy of a tax upon the property in any city or village that is required to maintain its own bridges.
- (8) ADMINISTRATION CHARGE. The county may charge the towns that apply for aid under this section an administration charge. The administration charge shall be fixed as a percentage of the total costs of administering aid under this section and the percentage shall be no more than the percentage that the county charges the state for records and reports.

History: 1977 c. 190; 1981 c. 296; 1983 a. 192 s. 303 (2); 1983 a. 532; 2003 a. 214 ss. 140 to 145, 147, 159; Stats. 2003 82.08; 2013 a. 152; 2023 a. 162.

NOTE: 2003 Wis. Act 214, which affected this section, contains extensive explanatory notes.

The county is obligated to pay its half of the cost of construction or repair of a bridge even if the final cost exceeds the amount the town requested in the petition. An estimate is sufficient in a petition for aid. Costs need not be determined exactly. *Town of Grand Chute v. Outagamie County*, 2004 WI App 35, 269 Wis. 2d 657, 676 N.W.2d 540, 03-1897.

The bridge at issue in this case was not a "bridge on a highway maintainable by the town" under s. 81.38 [now this section] because the bridge aid petition did not request funding to help connect the bridge to a highway maintainable by the town, there was no existing highway extending to the planned bridge site at the time of the petition, and the bridge was not connected to a highway maintainable by the town upon completion. Section 81.38 requires funding for only those bridges built on highways in existence at the time of a bridge's construction. *Town of Madison v. County of Dane*, 2008 WI 83, 311 Wis. 2d 402, 752 N.W.2d 260, 06-2554.

Although a 2003 act changed the phrase “highway maintainable” to “highway maintained,” this amendment change the substantive meaning of the statute. Town of Madison v. County of Dane, 2008 WI 83, 311 Wis. 2d 402, 752 N.W.2d 260, 06-2554.

9.a

NOTE: The above annotations cite to s. 81.38, the predecessor statute to this section.

Menu

2021-22 Wisconsin Statutes updated through 2023 Wis. Act 272 and through all Supreme Court and Controlled Substances Board Orders filed before and in effect on August 1, 2024. Published and certified under s. 35.18. Changes effective after August 1, 2024, are designated by NOTES. (Published 8-1-24)

The Town of Cedarburg, Wisconsin

IN THE NAME AND BY THE AUTHORITY OF THE TOWN OF CEDARBURG,
WISCONSIN

RESOLUTION #2024-7

“Resolution Petitioning Ozaukee County Bridge Construction and Repair Funding for the Cedar Creek Road Culvert”

WHEREAS, the Town of Cedarburg is an unincorporated Town within Ozaukee County, Wisconsin; and

WHEREAS, the Town Public Works Department maintains specified culverts in the Town of Cedarburg, with the culvert on Cedar Creek Road 900' West of Covered Bridge Road; and

WHEREAS, the Town Board of Supervisors is respectfully petitioning Ozaukee County for 50% of any costs not paid with funding through the Town of Cedarburg Capital Budget for such culvert replacement as allowed by Chapter 82 of WI State statutes as follows:

- Ozaukee County is designated the responsibility of determining priorities of projects for the use of County funding eligible for projects, such as this culvert replacement.
- This 48" diameter culvert being on Cedar Creek Road 900' West of Covered Bridge Road has been identified as being deficient.
- The Town of Cedarburg budgeted funds within the Capital Budget to cover the Town portion.
- The estimated cost is \$40,000, with the Town respectfully requesting from Ozaukee County funding of +/- \$20,000.
- The project is set to be constructed in 2024.

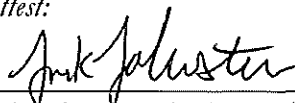
NOW THEREFORE, BE IT RESOLVED that the Town Board of Supervisors in Cedarburg, Wisconsin, does hereby petition Ozaukee County for reimbursement of 50% of any costs not paid with the Town Capital Budget for such culvert construction repair/replacement as allowed by Chapter 82 of WI State Statute.

Passed and adopted this 4th day of September 2024.



David M. Salvaggio, Town Chairman

Attest:



Jack Johnston, Assistant Administrator/Clerk

Attachment: Res. 2024-7 Cedar Creek Road Culvert Aid Request Resolution (RES.24-25 : T-Cedarburg Culvert Aid)

RESOLUTION NO. 24-26

SUBMITTAL AND ACCEPTANCE OF A WISCONSIN DEPARTMENT OF NATURAL RESOURCES SURFACE WATER PLANNING GRANT TO SUPPORT WATER QUALITY MONITORING ACTIVITIES ON THE LITTLE MENOMONEE RIVER, MOLE CREEK, ULAO CREEK AND SUCKER CREEK IN OZAUKEE COUNTY

WHEREAS, the Ozaukee County Planning and Parks Department is applying for Wisconsin Department of Natural Resources (WDNR) cost share Surface Water Planning Grant funding under a competitive request for proposals; and

WHEREAS, the primary goal of the project is to fund County activities to monitor water quality in conjunction with large-scale habitat restoration projects on the Little Menomonee River in the City of Mequon, Mole Creek in the Town of Saukville, Ulao Creek in the Town and Village of Grafton, and Sucker Creek in the Towns of Belgium and Port Washington and to determine the effectiveness of stream re-meandering and floodplain/wetland restoration as a best management practice to reduce pollutant loads (e.g., Total Maximum Daily Load - TMDL's) as well as provide baseline data for TMDL implementation; and

WHEREAS, financial aid is required to carry out the project; and

WHEREAS, the project is an integral part of the adopted Multi-Jurisdictional Comprehensive Plan for Ozaukee County: 2035 and is complimentary and consistent with other grant funded projects being implemented within the Fish Passage Program and the overall Ecological Division; and

WHEREAS, this project is also consistent with the adopted Park and Open Space Plan for Ozaukee County, the Farmland Preservation Plan for Ozaukee County, the County Board endorsed Regional Water Quality Management Plan for Southeastern Wisconsin 2000 prepared by the Southeastern Wisconsin Regional Planning Commission (SEWRPC) and partners, the 9 Key Element plan developed for the Cedar, Pigeon, Ulao and Mole Creek Watersheds, as well as several other State and Federal plans; and

WHEREAS, the project will support continuous water quality monitoring activities (conductivity, temperature, dissolved oxygen, pH, depth and discharge), and grab sample water quality monitoring (E. coli, total phosphorus, orthophosphate, chloride and total suspended solids) according to approved USEPA Quality Assurance Project Plan (QAPP) procedures and methodologies and consistent with the Total Maximum Daily Loads (TMDL) procedures; and

WHEREAS, this project will continue the Planning and Parks Department Ecological Division's goal to reestablish ecological and biological connections in conjunction with protecting and restoring habitat and water quality throughout the watershed; and

WHEREAS, the Surface Water Planning grant will provide for up to 67% of the total project cost up to \$10,000 and the remaining matching funds would be provided by a pending Fund for Lake Michigan grant and in-kind staff time, equipment and travel.

NOW, THEREFORE, BE IT RESOLVED, by the Ozaukee County Board of Supervisors that the Ozaukee County Planning and Parks Department attests to the validity and veracity of the statements and representations contained in the grant application, requests a grant agreement to carry out the project, has budgeted a sum sufficient to fully and satisfactorily complete the

project, and authorizes the Director of the Planning and Parks Department to act on behalf of Ozaukee County to sign and submit a WDNR Surface Water Planning Grant application, accept and sign a grant agreement between Ozaukee County the WDNR, act as the primary contact on the project, submit interim and/or final reports to the WDNR to satisfy the grant agreement, submit grant reimbursement requests to the WDNR along with necessary supporting documentation, and sign and submit other required documentation and take necessary actions to initiate, direct, and complete the approved project within the provided funding timeline.

BE IT FURTHER RESOLVED, that Ozaukee County will comply with all local, state and/or federal rules, regulations and ordinances for the program/project and the cost share agreement; may perform force account work; will maintain the completed project (as relevant) in an attractive, inviting, and safe manner; and will maintain complete and accurate project accounting and records according to the WDNR project agreement for these funds; and

BE IT FURTHER RESOLVED, by the Ozaukee County Board of Supervisors that the County Clerk shall forward a copy of this resolution to the Wisconsin Department of Natural Resources.

Dated at Port Washington, Wisconsin, this 2nd day of October, 2024.

SUMMARY: Submittal and acceptance by the Planning and Parks Department of a Wisconsin Department of Natural Resources Surface Water Planning Grant to support water quality monitoring activities on the Little Menomonee River, Mole Creek, Ulao Creek and Sucker Creek in Ozaukee County.

VOTE REQUIRED: Majority

NATURAL RESOURCES COMMITTEE

09/05/24

Natural Resources Committee

APPROVED

RESULT:	APPROVED [UNANIMOUS]
MOVER:	T. Matera, Supervisor District 7
SECONDER:	B. Jobs, Supervisor District 3
AYES:	R. Holyoke, B. Jobs, T. Matera, K. Schoessow
EXCUSED:	B. Ross

NATURAL RESOURCES COMMITTEE

Natural Resources Committee
AGENDA INFORMATION SHEET

AGENDA DATE:	October 2, 2024
DEPARTMENT:	Planning and Parks
DIRECTOR:	Andrew Struck
PREPARER:	Andrew Struck

Agenda Summary Submittal and Acceptance of a Wisconsin Department of Natural Resources Surface Water Planning Grant to Support Water Quality Monitoring Activities on the Little Menomonee River, Mole Creek, Ulao Creek and Sucker Creek in Ozaukee County

BACKGROUND INFORMATION: The Ozaukee County - Planning and Parks Department (Department) proposes to submit an application to the Wisconsin Department of Natural Resources (WDNR) Surface Water Planning (SWP) grant program. Specifically, this grant will fund County activities to continue to monitor water quality conditions on the Little Menomonee River in the City of Mequon, Mole Creek in the Town of Saukville and Ulao Creek in the Town and Village of Grafton and begin water quality monitoring on Sucker Creek in the Towns of Belgium and Port Washington. Water quality monitoring will provide data to establish pre and post construction conditions at the ongoing habitat restoration projects being implemented on all streams and allow for analysis of water quality impacts as a result of restoration activities. The habitat restoration projects include stream re-meandering, restoration of hydrologically and ecologically functional floodplains, bank and in-stream structure restoration, wetland restoration and enhancements, invasive vegetation management and control, and native vegetation planting and restoration. Specifically, this SWP grant will support continuous and grab sample water quality monitoring to determine the effectiveness of stream re-meandering and floodplain/wetland restoration as a best management practice to reduce pollutant loads (e.g., Total Maximum Daily Loads - TMDL's). County and Southeastern Wisconsin Regional Planning Commission staff will conduct continuous water quality monitoring activities (conductivity, temperature, dissolved oxygen, pH, depth and discharge), and grab sample water quality monitoring (E. coli, total phosphorus, orthophosphate, chloride and total suspended solids) according to approved USEPA Quality Assurance Project Plan (QAPP) procedures and methodologies and consistent with Total Maximum Daily Load (TMDL) procedures. This project is a continuation of WDNR grants received by the Department from 2017-2024 for similar water quality monitoring and is consistent with other grant funded projects being implemented within the Fish Passage Program and overall Ecological Division. This project is also supported by the [County Park and Open Space Plan](https://www.co.ozaukee.wi.us/645/Park-Open-Space) <<https://www.co.ozaukee.wi.us/645/Park-Open-Space>> <<https://www.co.ozaukee.wi.us/645/Park-Open-Space>> within the standards set for the preservation and management of open spaces including natural areas, critical species habitats, primary and secondary environmental corridors and isolated natural resource areas to maintain their natural value (pages 77 - 92, 111), the [Comprehensive Plan for Ozaukee County: 2035](http://www.sewrpc.org/SEWRPCFiles/Publications/CAPR/capr-285-comp-plan-for-ozaukee-co.pdf) <<http://www.sewrpc.org/SEWRPCFiles/Publications/CAPR/capr-285-comp-plan-for-ozaukee-co.pdf>> <<http://www.sewrpc.org/SEWRPCFiles/Publications/CAPR/capr-285-comp-plan-for-ozaukee-co.pdf>>

[ozaukee-co.pdf](#)> “Agricultural, Natural, and Cultural Resources Issue” with the objective of preserving and enhancing the park and open space system within Ozaukee County (pages 318 - 326), the goals and objectives of the “General Natural Resource Issue” to preserve and enhance Ozaukee County’s natural resources, including Lake Michigan, open space and agricultural land which includes objections to develop methods to protect and preserve water quality (page 271) and the “Surface and Groundwater Resources and Watersheds Issue” goal of protecting and enhancing surface water quality in Ozaukee County (pages 276 - 277), the [SEWRPC Regional Water Management Plan for Southeastern Wisconsin 2000](#) [<https://www.sewrpc.org/SEWRPCFiles/Publications/pr/pr-030_vol-03_regional_water_quality_management_plan_2000.pdf>](https://www.sewrpc.org/SEWRPCFiles/Publications/pr/pr-030_vol-03_regional_water_quality_management_plan_2000.pdf) [<https://www.sewrpc.org/SEWRPCFiles/Publications/pr/pr-030_vol-03_regional_water_quality_management_plan_2000.pdf>](https://www.sewrpc.org/SEWRPCFiles/Publications/pr/pr-030_vol-03_regional_water_quality_management_plan_2000.pdf) (pages 99 - 102) and is consistent with the water quality monitoring recommendations of the recently adopted [9 Key Element Plan for the Cedar, Pigeon, Ulao and Mole Creek Watersheds](#) [<https://dnr.wisconsin.gov/topic/Nonpoint/9keyElement/planMap.html>](https://dnr.wisconsin.gov/topic/Nonpoint/9keyElement/planMap.html) [<https://dnr.wisconsin.gov/topic/Nonpoint/9keyElement/planMap.html>](https://dnr.wisconsin.gov/topic/Nonpoint/9keyElement/planMap.html). (pages 50 - 51) developed by the Southeastern Wisconsin Watersheds Trust, Inc. and SEWRPC. This grant opportunity is also identified as an agricultural, natural and cultural resource program available in Ozaukee County to advance the goals of the [Farmland Preservation Plan for Ozaukee County](#) [<https://www.co.ozaukee.wi.us/871/Farmland-Preservation-Plan>](https://www.co.ozaukee.wi.us/871/Farmland-Preservation-Plan) [<https://www.co.ozaukee.wi.us/871/Farmland-Preservation-Plan>](https://www.co.ozaukee.wi.us/871/Farmland-Preservation-Plan) which includes improvements to water quality (Appendix J-6, section VI-14).

ANALYSIS: Proposals to the WDNR SWP grant program are due November 15, 2024. The WDNR SWP grant request is \$10,000. WDNR SWP grants may be awarded for up to 67% of the total project cost up to \$10,000. Project match will be provided by a pending Fund for Lake Michigan (FFLM) grant and in-kind staff time and travel for a total project cost of \$36,720. Additionally, the overall Sucker Creek project will be supported by a secured National Oceanic and Atmospheric Administration (NOAA) grant.

FISCAL IMPACT:

Balance Current Year: NONE

Next Year’s Estimated Cost: NONE (Additional Program Revenue of \$10,000)

FUNDING SOURCE:

County Levy: Non-County Levy: X

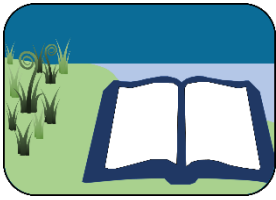
Indicate source: WDNR SWP and FFLM grants (pending), and in-kind Department staff time, travel, equipment and supplies.

RECOMMENDED MOTION: Approve and recommend to the Ozaukee County Board of Supervisors the resolution for submittal and acceptance of a grant by the Planning and Parks Department to the Wisconsin Department of Natural Resources - Surface Water Planning grant program for water quality monitoring activities on the Little Menomonee River, Mole Creek, Ulao Creek and Sucker Creek in Ozaukee County in conjunction with large-scale habitat restoration projects.

ATTACHMENTS:

- P&P_Dept_WDNR SurfaceWaterPlanning RFP (PDF)
- Grant Application Summary_WDNRSWP_WQ
Monitoring_SuckerLMRMoleUlao_ATSFinal082824 (PDF)
- P&P_Dept_WaterSamplingCombined_Maps (PDF)
- Sucker Creek Monitoring Sites Map 8.26.2024 (PDF)

Surface Water Planning



Surface water planning grants can be used to assess surface water quality or to create a plan that outlines future management actions for the benefit of surface water. Planning projects must lay the groundwork to protect or improve surface water, prevent pollution, prevent aquatic invasive species, or protect or improve aquatic ecosystems, including biological populations and habitat. For more details, see [Appendix B: Management Planning](#).

PREREQUISITES

Eligible organization.

Applicants must submit their pre-application by Sept. 15, final applications are due Nov. 15.

FUNDING

Grants may be awarded for up to 67% of total project costs, up to \$10,000.

No more than 20% of the funding for a planning project may support education and outreach.

The maximum annual total of education and planning grants per waterbody or grantee is \$50,000.

****REV**** Lakes exceeding 475 littoral acres are eligible for more than one Surface Water Planning grant if necessary to accomplish planning goals; however, each application needs to contain unique budget items.

REIMBURSEMENTS

One grant advance is available for up to 75% of the total grant award.

25% of the grant award is retained until approval of deliverables and reimbursement.

EXAMPLES OF ELIGIBLE SURFACE WATER PLANNING PROJECTS

Preparing to Plan projects can help take the first steps toward a comprehensive management plan. Eligible projects are various. Projects might identify data gaps, collect new data, assess condition following the [Wisconsin Consolidated Assessment and Listing Methodology](#) (WisCALM), identify management challenges, assess historical management and outline planning needs before starting.

Management Plans & Plan Update projects will write a focused management plan to address a specific management challenge or will update any management plan when necessary. Example challenges appropriate for a focused plan include aquatic plant management projects that don't require a large-scale approach, or lake protection plans for small lakes with healthy watersheds. Updates to management plans that have been implemented will have priority over those that have not. See the list of required elements for management plans in [Appendix B: Management Planning](#).

Organization & Community Assessment projects focus on the social dimensions of collaborative planning projects. See [Appendix C: Social Science Tools](#). Projects may identify stakeholders, determine a community's capacity to carry out a project, identify values or define management goals or objectives.

Water Quality, Watershed, or Aquatic Life Assessment projects attempt to understand ecological condition and contribute to planning and management. These projects often collect or assemble and analyze data on waterbodies, biological populations, or watersheds. Eligible projects might conduct WisCALM assessments, conduct field surveys, inventory stressors, or predict (model) the outcome of management actions.

Pre-Implementation projects provide a transition between planning and implementation. Design work may be required before a project is "shovel-ready". A pre-implementation project might result in engineering plans, site assessments, modelling, or design plans. Projects should contribute to the

GRANT APPLICATION SUMMARY

Project Name: Water Quality Monitoring on Sucker Creek, the Little Menomonee River and Creek, Mole Creek and Ulao Creek
Grant Name/Agency: WDNR Surface Water Planning **CFDA/State ID:**
Department: Planning and Parks
Total Project Amount: \$36,720 **Grant Match Required:** 33%

Exp Acct.
Rev Acct.

Preparer: Tina Kroening
Approver: Andrew Struck

Strategy: (Linkages to other planning efforts)

- Comprehensive Plan for Ozaukee County: 2035 (P. 271, 276-277, 318-326)
- POSP for Ozaukee County (P. 77-92, 111)
- Farmland Preservation Plan for Oz Co (Appendix J-6, section VI-14)
- SEWRPC Regional Water Quality Mgmt Plan for SE WI 2000 (P. 99-102)
- 9 Key Element Plan for Cedar, Pigeon, Mole and Ulao Watersheds (P. 50-51)

Project Scope and Expectations

- Water quality monitoring on habitat restoration project streams
- Establish pre and post construction stream conditions through data collection
- Baseline WQ Monitoring for TMDLs and Project Streams

Other Grants Supporting Project

- Fund for Lake Michigan

Status	Amount
pending	\$5,000
	\$0
	\$0
	\$0

Project Partners:

- Ozaukee County (LMRFWP, Ulao Creek Nature Preserve)
- Private Landowners within Sucker, LMR, Mole and Ulao stream corridors
- WDNR (Conservation Easement)

Project Landowner Upon Completion:

- Ozaukee County

GRANT EXPENSE

Operational Expense	\$
Contractual (WSLH)	\$10,000
Capital Expense	\$
TOTAL	\$10,000
% PROJECT	27%

GRANT/PROJECT MATCH

Operational Match	\$
Salaries & Benefits	\$20,401
Supplies	\$0
Travel	\$1,319
Other Grants	\$
Fund for Lake Michigan	\$5,000
TOTAL	\$26,720
% MATCH	73%

GRANT SUPPORTED STAFF

Position	\$
TOTAL	\$0

DEPARTMENT REVENUES

Department	\$
Contractual (WSLH)	\$10,000
TOTAL	\$10,000

Project Risks:

- Weather/site conditions
- Timelines
- Match availability

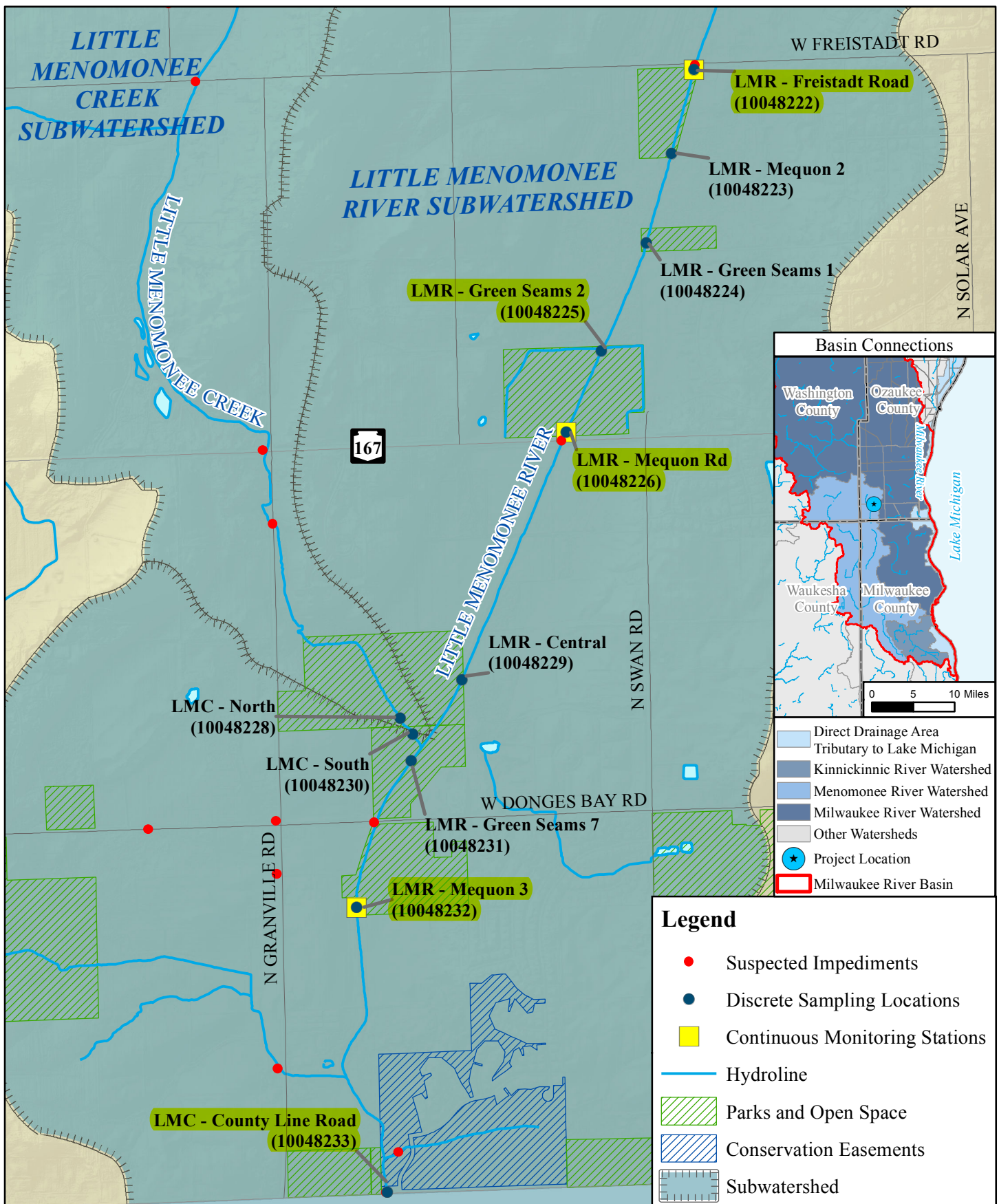
Comments

- Continuation of on-going monitoring program
- Non-federal match for other grants
- NOAA Grant supporting Sucker Creek project

Major Milestones

Major Milestones		Date
Award Notification		Mar-25
Water Quality Monitoring		Oct-25
Data Analysis/Final Report		Dec-26
Duration:	22 Months	Extension: NA

Little Menomonee River and Creek Water Quality Sampling Locations



Attachment: P&P_Dept_WaterSamplingCombined Maps (RES.24-26 :



0 1,250 2,500 5,000 Feet

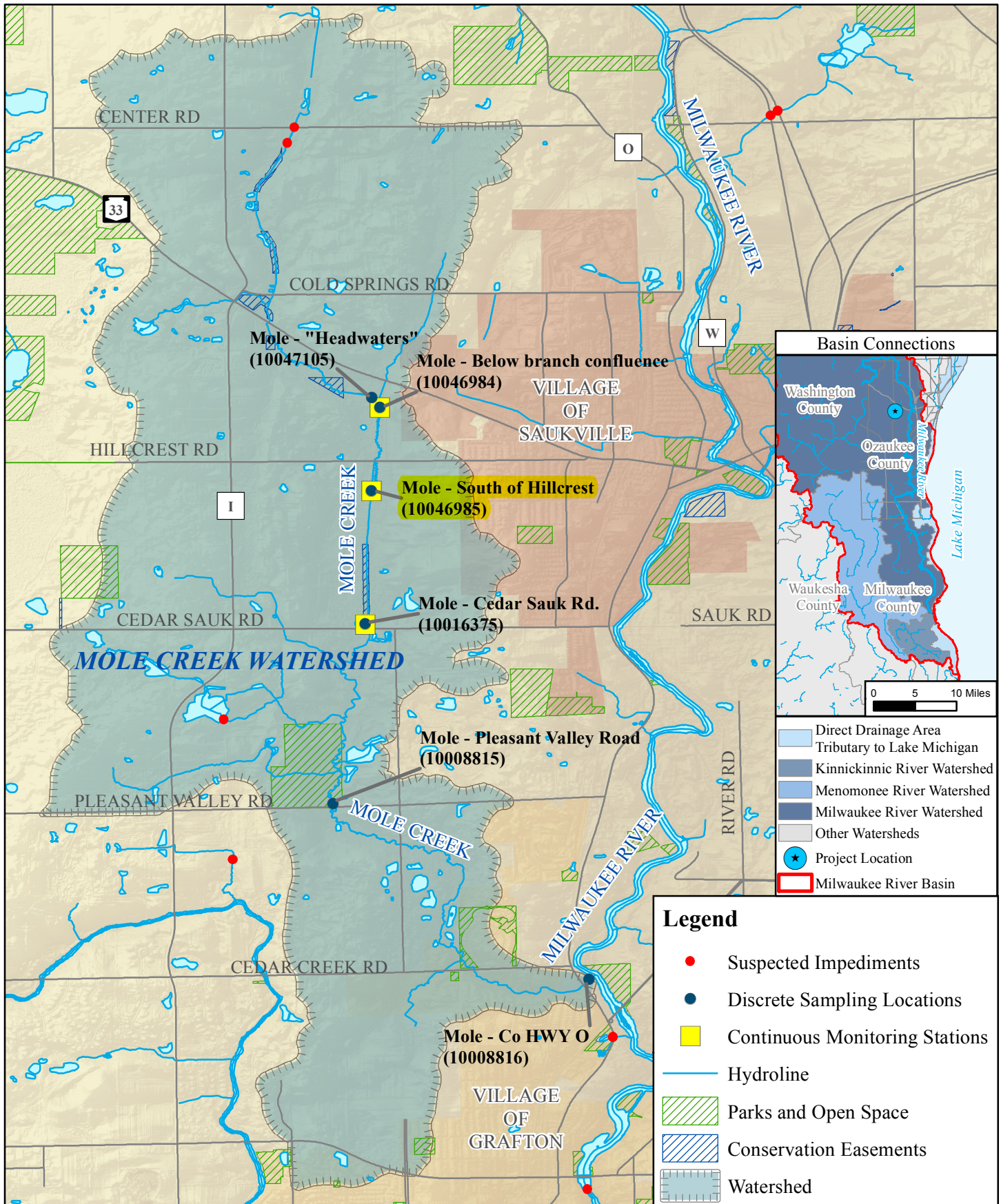


Map Produced By: Ozaukee County
Planning and Parks Department
9/4/2019

Highlighted sites proposed for monitoring in WDNR SWP FY25 Grant A

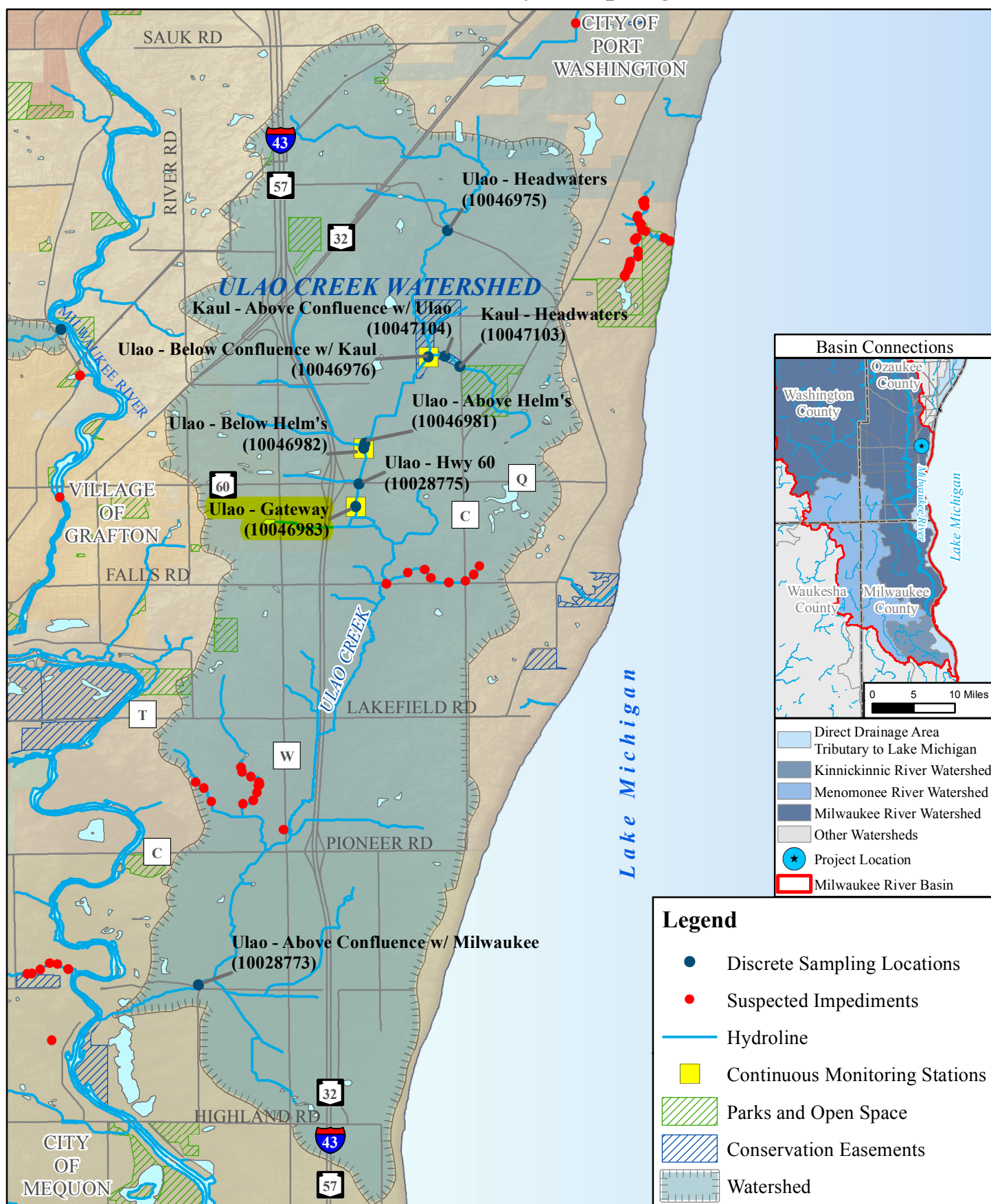
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Mole Creek Water Quality Sampling Locations



Attachment: P&P_Dept_WaterSamplingCombined_Maps (RES.24-26 :

Ula Creek Water Quality Sampling Locations



Attachment: P&P_Dept_WaterSamplingCombined Maps (RES.24-26 :



0 3,500 7,000 14,000 Feet



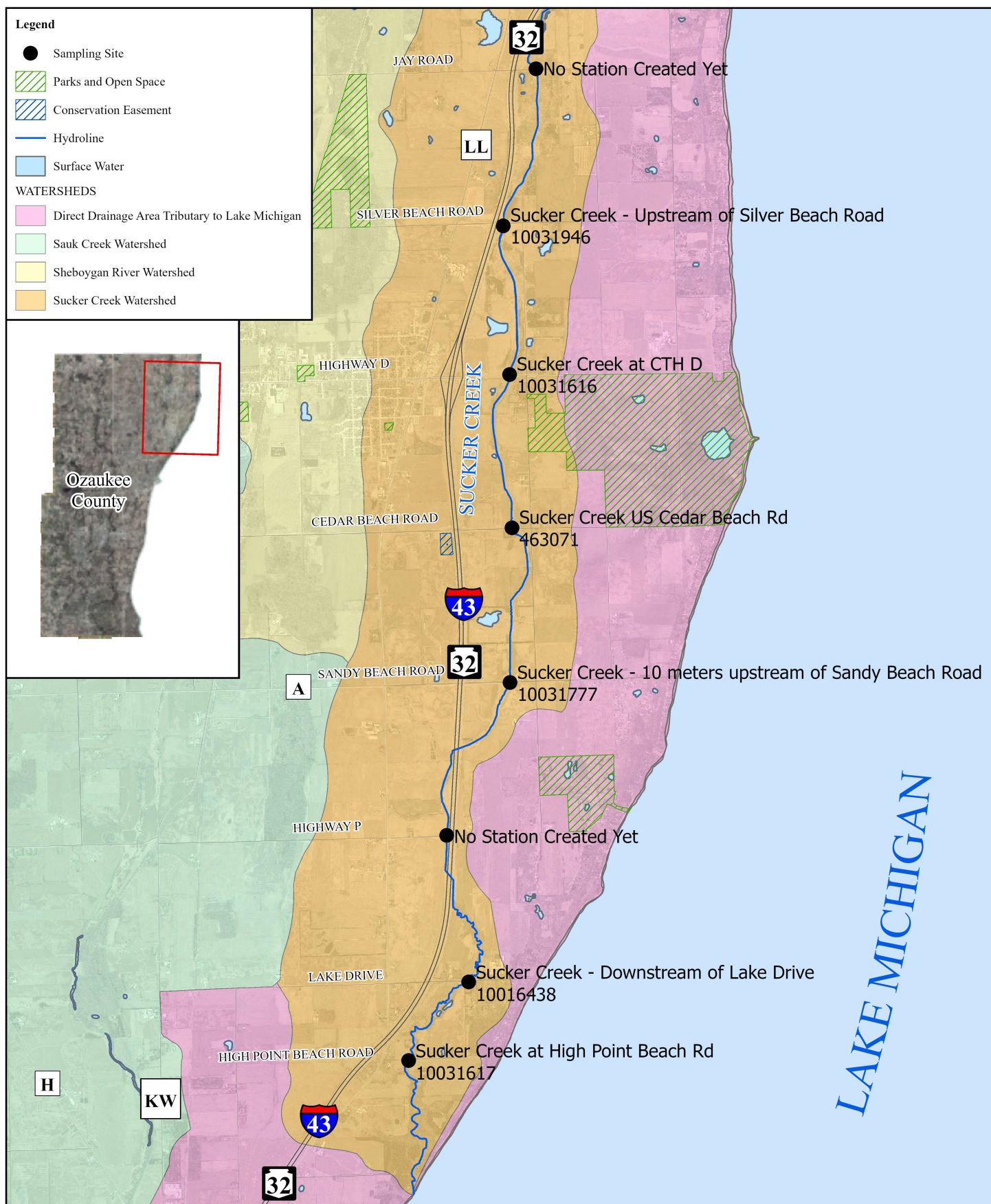
Map Produced By: Ozaukee County
Planning and Parks Department
9/4/2019

Highlighted sites proposed for monitoring in WDNR SWP FY25 Grant

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Sucker Creek Water Quality Sampling Locations



Attachment: Sucker Creek Monitoring Sites Map 8.26.2024 (RES.24-26 :

ORDINANCE NO. 24-8

SHORELAND & FLOODPLAIN ZONING MAP AMENDMENT - TOWN OF BELGIUM,
SECTION 18

The Ozaukee County Board of Supervisors does ordain that the County Shoreland and Floodplain Zoning Map be amended in accordance with Section 19.035 of the Ozaukee County Code of Ordinances to indicate a Zoning Classification change from Shoreland to Shoreland-Wetland.

Affecting the following described real estates: **Town of Belgium**, T12N-R23E in the SE 1/4 of the NW 1/4, Section 18, Lot 2 CSM #4208 Doc. 1143799.

Tax Key #02-018-08-007.00, owned by Glen R. Harsh Jr. 2016 Living Trust and Cheryl A. Harsh 2016 Living Trust; Property Address: 6336 Sauk Trail Road, Belgium WI 53004.

This Ordinance shall take effect upon enactment and publication.

Dated at Port Washington, Wisconsin, this 2nd day of October 2024.

SUMMARY: Shoreland and Floodplain Zoning Map Amendment, Town of Belgium, Section 18

VOTE REQUIRED: Majority

09/05/24

Natural Resources Committee

APPROVED

RESULT:	APPROVED [UNANIMOUS]
MOVER:	T. Matera, Supervisor District 7
SECONDER:	B. Jobs, Supervisor District 3
AYES:	R. Holyoke, B. Jobs, T. Matera, K. Schoessow
EXCUSED:	B. Ross

NATURAL RESOURCES COMMITTEE

Natural Resources Committee
AGENDA INFORMATION SHEET

AGENDA DATE:	October 2, 2024
DEPARTMENT:	Land and Water Management
DIRECTOR:	Katie Vogeler
PREPARER:	Katie Vogeler

Agenda Summary Shoreland & Floodplain Zoning Map Amendment - Town of Belgium, Section 18

BACKGROUND INFORMATION: Request by Matt Manzeck of Matt Manzeck Construction, as agent for the owners Glen R. Harsh Jr. 2016 Living Trust and Cheryl A. Harsh 2016 Living Trust, to petition the Natural Resources Committee for a Zoning Classification change Shoreland-Wetland to Shoreland in the Shoreland District, per Section 19.035 of the Ozaukee County Shoreland Protection Ordinance, to reflect the results of a wetland delineation report and survey.

Affecting the following described real estates: **Town of Belgium**, T12N-R23E in the SE 1/4 of the NW 1/4, Section 18, Lot 2 CSM #4208 Doc. 1143799.

Tax Key #02-018-08-007.00, owned by Glen R. Harsh Jr. 2016 Living Trust and Cheryl A. Harsh 2016 Living Trust; Property Address: 6336 Sauk Trail Road, Belgium WI 53004.

ANALYSIS: The Shoreland and Floodplain is to reflect the wetland delineation report conducted by Wetlands and Waterways LLC on January 2, 2024.

Per section 19.035 of the County Shoreland Protection Ordinance, any change to a wetland boundary shown on a Shoreland and Floodplain Zoning Map requires County Board approval.

FISCAL IMPACT: N/A FUNDING SOURCE: N/A

RECOMMENDED MOTION: Approval to amend the Shoreland & Floodplain Zoning Map to reflect the change in the wetland delineation as a result of the survey completed by Wetlands and Waterways LLC on January 2, 2024.

ATTACHMENTS:

- Harsh Combined Files (PDF)


LAND & WATER MANAGEMENT DEPARTMENT

Katie Vogeler, Director
 Edward J. Pfister, Sanitation & Zoning Coordinator
 Geoff Schramm, Land & Water Coordinator
www.co.ozaukee.wi.us

Staff Report – Natural Resources Committee Hearing – September 5, 2024

Request by Matt Manzeck of Manzeck Construction, Agent for the property owners, **Glenn R. & Cheryl A. Harsh 2016 Living Trust**, to petition the committee for a Zoning Classification change from Wetland to Non-Wetland in the Shoreland-Wetland District, per Section 19.15600 of the Ozaukee County Shoreland Protection Ordinance, to reflect the results of a wetland delineation report and survey for the property as described below.

Affecting the following described real estate:

The affected property is located in the **Town of Belgium**, T12N, R23E in part of the SE 1/4 and the NW 1/4 of Section 18, Lot 2 CSM #4208 Doc. 1143799, Parcel Key #02-018-08-007.00, 6336 Sauk Trail Road, Belgium Wisconsin.

Background:

The parcel has been in agricultural use since before 1941 until around 1980. Then it was left to reforest.

The parcel was split from a larger parcel and recorded on November 29, 2022.

A wetland delineation was completed by Wetlands & Waterways LLC. on January 2, 2024. The wetland delineation report found several wetland areas on the property.

The property was surveyed by Chaput Land Surveys on June 20, 2024.

The owners plan on building a residence on the property in the near future.

Discussion:

The wetland delineation report and survey were conducted to show, if any, wetlands existed on the property. The current Shoreland Zoning Map (Exhibit A), which incorporates the current Wisconsin Wetland Inventory Map information, shows that no wetlands have been identified thru aerial photography interpretation. The owners, on the advice from this department's personnel, had a wetland delineation conducted. The wetland delineation report and survey (Exhibit B & C) show that several small wetland areas were found on the property. This request is to update the current mapping to reflect the wetland delineation report. The wetland delineation report has been submitted to the DNR for review and subsequently to update the Wisconsin Inventory Mapping.

Per Section 19.15600 (05) of the County Shoreland Protection, any change to a shoreland-wetland boundary shown on a Shoreland and Floodplain Zoning District Map requires County Board approval.

END/BAS
 (8/20/24)

Property
Location

0 500 1,000 2,000
Feet

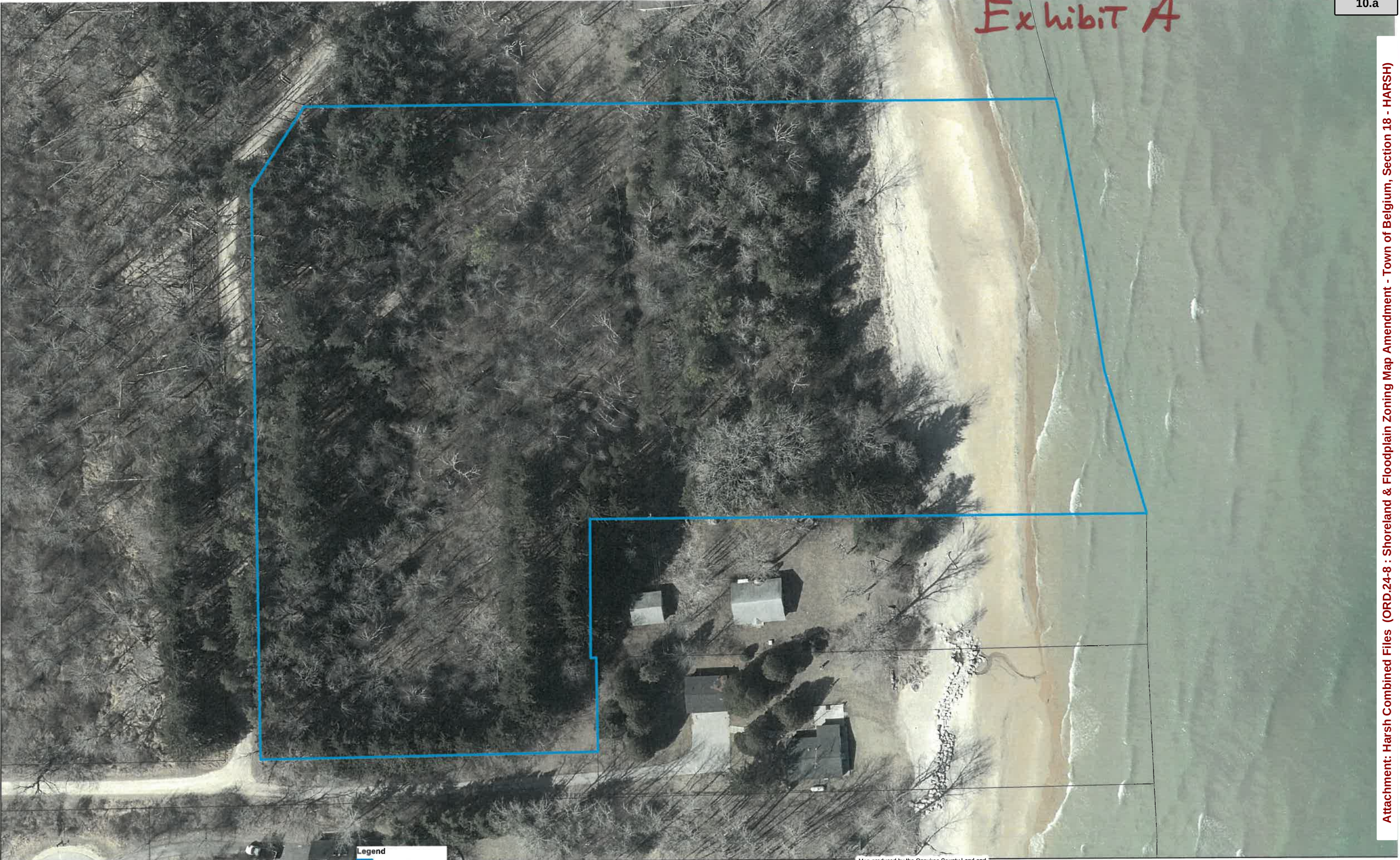
2022 AERIAL



Map produced by the Ozaukee County Land and Water Management Dept. This is not a survey.
The information on the as is. It is based on the best available information at the time of its printing.

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Exhibit A



Legend

- Wetlands_WithinShoreland
- Wetlands_OtherRegulated
- Wetlands_OpenWater

0 15 30 60 Feet

2022 AERIAL



Map produced by the Ozaukee County Land and Water Management Dept. This is not a survey. The information on the aerial is subject to change. It is based on the best available information at the time of its printing.

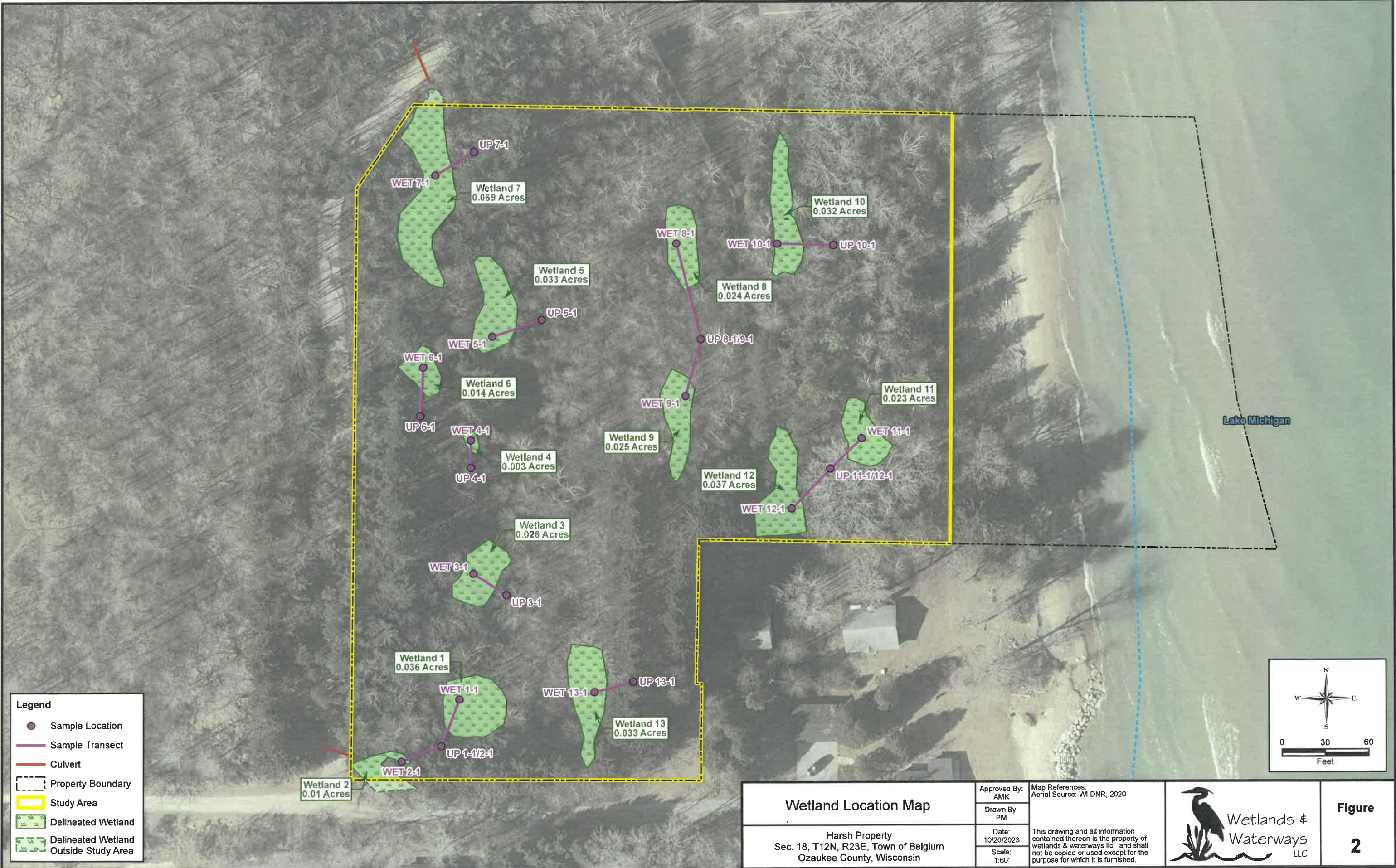


Exhibit C

LOT 2 OF CSM NO. 4208
A PART OF THE NW1/4,
SECTION 18, T12N, R23E,
TOWN OF BELGIUM,
OZAUKEE COUNTY, WISCONSIN

 **BENCHMARK:** TOP OF BRASS CAPPED CONCRETE MONUMENT AT MEANDER CORNER ON THE SOUTH LINE OF THE NW 1/4 SECTION 18. ELEVATION = 590.87 (NAVD88)

BEARINGS AND DISTANCES SHOWN ARE REFERENCED TO THE SOUTH LINE OF THE NW1/4, SECTION 18, T12N, R23E WHICH BEARS S89°41'59"E PER THE OZAUKEE COUNTY COORDINATE SYSTEM

PROPOSED HOUSE ELEVATIONS

TOP OF FOUNDATION WALL = 590.50
 GARAGE FINISH FLOOR = 590.17
 TOP OF FOOTING = 586.50
 BOTTOM OF FOOTING = TBD

AREAS

TOTAL LOT AREA WITHIN 300' SHORELAND LIMIT = 124,990± SF
 PROPOSED HOUSE W/ OVERHANGS = 3,611 SF
 PATIO AREA = 1,235 SF (195 SF WITHIN 75' OHWM SETBACK)
 DRIVEWAY = 5,289 SF WITHIN 300' SHORELAND LIMIT
 FUTURE BOATHOUSE = 400 SF

TOTAL PROPOSED IMPERVIOUS AREA WITHIN SHORELAND LIMIT = 10,535 SF
 TOTAL % IMPERVIOUS AREA = 8.4% (NO MITIGATION REQUIRED)

EROSION CONTROL NOTES:

1. INSTALL SILT FENCE AS SHOWN ON SURVEY
2. INSTALL TRACKING PAD AT START OF PROPOSED DRIVE
3. PLACE TEMPORARY TOPSOIL PILE AS SHOWN ON SURVEY

PARCEL NUMBER: 020180800700
 PARCEL OWNER: GLENN R HARSH JR 2016 LIVING TRUST, CHERYL A HARSH 2016 LIVING TRUST
 PARCEL ADDRESS: 6352 SAUK TRAIL ROAD, BELGIUM, WI 53004
 PARCEL AREA: 4.19± ACRES TOTAL, 3.84 ACRES TO MEANDER LINE

BUILDING DIMENSIONS TO PROPERTY LINE ARE FROM THE FOUNDATION WALL CORNER AND PERPENDICULAR TO THE PROPERTY LINE

TOWN ZONING: R-1 SINGLE FAMILY
 75' STREET SETBACK (FROM CENTERLINE)
 20' SIDE SETBACK (ONE STORY)
 30' SIDE SETBACK (TWO STORY)
 50' REAR SETBACK
 75' FROM OHWM
 35' HEIGHT MAXIMUM

GRAPHIC SCALE
 0 60
 1 inch = 60 ft.



CURRENT FLOODPLAIN ELEVATION LIMIT AS SHOWN ON MOST CURRENT FEMA MAPS AND COUNTY GIS ELEVATION = 588.2

12' WIDE ELECTRIC UTILITY EASEMENT

WETLAND BOUNDARY PER 2023 WDNR ASSURED DELINEATOR WETLANDS AND WATERWAYS, LLC DELINEATION, TYP

LOT 1

WATER ELEV = 580.48
4-28-23

OHWM AS DETERMINED BY OZAUKEE COUNTY LAND AND WATER MANAGEMENT DEPARTMENT ON 4-28-23

MEANDER LINE
 35' SETBACK FROM OHWM

LAKE MICHIGAN

PROPOSED PATIO AREA

75' SETBACK FROM OHWM
 FUTURE 400 SF BOATHOUSE

EXISTING CONTOUR, TYP

LOT 2

ZONE VE LIMIT AS DETAILED IN UPDATED PRELIMINARY FEMA FLOOD MAPS DATED 12-30-2021 ELEVATION = 586.0'
 FORMAL MAP UPDATE EXPECTED BY JUNE-JULY 2024
 CONTOUR DETERMINED BY TOPOGRAPHIC SURVEY APRIL 2023

UNPLATTED LANDS

PROPOSED STONE TRACKING PAD

PROPOSED DRIVEWAY 14' WIDE

PROPOSED SILT FENCE, TYP

PROPERTY BOUNDARY, TYP

UNPLATTED LANDS

PRELIMINARY DRAFT FOR COUNTY REVIEW

SHORELAND PERMIT SURVEY & EROSION CONTROL PLAN

PROPOSED RESIDENCE
GLENN HARSH
6352 SAUK TRAIL ROAD
TOWN OF BELGIUM, WISCONSIN

DATE
8-7-2024

1/1



WDNR Professionally Assured Wetland Delineation Report

Glenn Harsh Property

Town of Belgium

Ozaukee County, Wisconsin

January 2, 2024





**WDNR PROFESSIONALLY ASSURED
WETLAND DELINEATION REPORT**

**GLENN HARSH PROPERTY
TOWN OF BELGIUM
OZAUKEE COUNTY, WISCONSIN**

January 2, 2024

Prepared for:

Glenn Harsh
8 Yorktown Court
South Barrington, Illinois 60010

Prepared By:

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Ann M. Key, PSS, PWS, CST
WDNR Professionally Assured Wetland Delineator

Ann Key



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Introduction

Glenn Harsh contracted Wetlands and Waterways, LLC to delineate wetlands on a parcel of land located at 6352 Sauk Trail Road approximately 1.8 miles northeast of Belgium, Wisconsin and along the west shore of Lake Michigan. The Study Area is 3.71 acres and is described as being located in Part of the Southwest ¼ of the Northwest ¼ of Section 18, Township 12 North, Range 23 East, Town of Belgium, Ozaukee County, Wisconsin. The entire property extends to the east to the Lake Michigan shoreline but the Study Area was confined to potential buildable areas beyond the lake setback area. See Figure 1A for the Study Area location and local topography.

The wetland delineation was conducted on October 18, 2023 by Ms. Ann Key, a Wisconsin Department of Natural Resources (WDNR) Professionally Assured Wetland Delineator. The intent of the delineation was to identify wetlands for purposes of design and permitting a residential structure. The Study Area is comprised primarily of upland forest with several small swales identified as wetland throughout. The landowner had recently hired a tree removal service to conduct substantial tree clearing throughout portions of the property. However, no roots were removed and technically the activities are authorized. Therefore, the Study Area was considered to have normal circumstances. Several wetland areas had very minimal vegetation but based on review of a previous wetland delineation study (October 17, 2017), these areas had sparse vegetation at that time so it is assumed the sparse vegetative cover during the 2023 site visit was a natural condition and not a result of the tree clearing activities.

The Wisconsin Wetland Inventory Map (WWI) was reviewed and does not indicate the presence of any wetlands within the Study Area although two small (< 2 acres) wetlands are mapped just northeast and southeast of the Study Area. The WWI wetland indicator soils layer was reviewed and identifies wetland indicator soils along the northwest edge of the Study Area. Indicator soils are soils which are commonly found in wetlands or have inclusions of soils that are commonly found in wetlands.

The WDNR Surface Water Data Viewer (SWDV) was also reviewed and identifies Lake Michigan immediately east of the Study Area but does not identify this portion of Lake Michigan as having any special designations or status.

Thirteen wetlands (Wetlands 1 through 13) were delineated during the site visit. The Wetland Data Sheets classify the wetlands according to the Cowardin *Classification of Wetlands and Deepwater Habitats of the United States* (U.S. Fish and Wildlife Service, 1979) classification system.

An antecedent precipitation evaluation was conducted for the three months prior the site visit using the U.S. Army Corps of Engineers (USACE) Antecedent Precipitation Tool (APT). The APT summarized data from local weather stations and determined climatic conditions were within normal for the time of the site visit.

All wetland sample plots met wetland vegetation criteria with a dominance of hydrophytic species. Hydric soil criteria was met at all wetland sample plots with the following indicators were observed and recorded where applicable; A11 (Depleted Below Dark Surface), A12 (Thick Dark Surface), S5 (Sandy Redox), F1 (Loamy Mucky Mineral), F3 (Depleted Matrix) and F6 (Redox Dark Surface).

Most wetland sample plots met hydrology criteria although most sample plots were considered to have naturally problematic hydrology due to lack of saturation or high water table within the soil profile. Sample plots Wet 4-1 and Wet 9-1 only met one secondary hydrology indicator but hydrology was assumed based on best professional judgment and a prior wetland delineation study indicating other hydrology indicators were present at that time. The following hydrology indicators were recorded where applicable; A3 (Saturation), B8 (Sparsely Vegetated Concave Surface), B9 (Water-Stained Leaves), D2 (Geomorphologic Position) and D5 (FAC-Neutral Test).



Wetland boundaries were identified using procedures outlined in the 1987 Corps of Engineering Wetland Delineation Manual and Northcentral/Northeast Regional Supplement. The areas identified as wetland were identified based on transitions from wetland to upland vegetation, hydrology indicators and hydric soil indicators, or lack thereof, in wetland areas versus upland areas, topographical position and best professional judgment.



Study Methods

Available topographic maps, survey maps, WWI maps, Ozaukee County Soil Survey maps, Hydric Soil maps and recent aerial photos were reviewed prior to visiting the Study Area to identify potential wetland areas. The United States Geological Survey (USGS) Topographical map is included as Figure 1A and the Ozaukee County 2-foot Contour map is included as Figure 1B. The WWI map with wetland and indicator soil layers is included as Figure 3. The Ozaukee County Soil Survey Map is included as Figure 4. The Hydric Soils map is included as Figure 5. In addition, antecedent precipitation information was evaluated through use of available USACE APT which determines climatic conditions for a specific location on a specific date based on automated evaluation of all available local WETS data to determine if conditions were within normal, wetter than normal or drier than normal at the time of the site visits. The APT report for this site is included in Appendix B.

Examination of vegetation, soils and hydrology, as outlined in the 1987 U.S. Army Corps of Engineers Wetlands Delineation Manual (Environmental Laboratory, 1987) and the Northcentral/Northeast Regional Supplement, were used to characterize and determine wetland boundaries. The Natural Resources Conservation Service (NRCS) Field Indicators of Hydric Soils in the United States Guide was also utilized to help identify hydric soils at the site. All available information including transitions in vegetation, soils and hydrology, review of recent aerial photos, antecedent precipitation analysis, topographic position, along with best professional judgment was applied. Wetland edges were flagged and wetland boundaries and sample plot locations were located with a Trimble DA2 Global Positioning System (GPS) with sub-meter accuracy and are shown on Figure 2.

Sample transects were established in a representative wetland to upland transition zone. The transects were comprised of two sample points located along a line running perpendicular to the wetland edge, with one point in obvious wetland and one point in obvious upland. A field data form was completed for each of the upland and wetland sample points. The sample locations were also located with a sub-meter GPS and are indicated on Figure 2. Field data forms are included in Appendix A.

Wetland classification was performed according to Cowardin *Classification of Wetlands and Deepwater Habitats of the United States* (U.S. Fish and Wildlife Service, 1979) systems. Vegetation was identified using suitable keys (Eggers and Reed, 2014; Knoop, 1980; Courtenay/Zimmerman, 1972; Fassett, 1951; Chadde, 1998) and a plant's hydrophytic status was determined using the most recent Northcentral/Northeast Region – National Wetland Plant List (U.S. Army Corps of Engineers, 2021).



Results

OFF-SITE SURVEY

Prior to the site visit, all available maps including the USGS Topographical map, the Ozaukee County 2-Foot Contour map, WWI map, Ozaukee County Soil Survey, Hydric Soil maps and recent aerial photos were reviewed.

The USGS Topographical Map (Figure 1A) and the Ozaukee County 2-Foot Contour Map (Figure 1B) indicate the Study Area has relatively flat to gently rolling topography with a high elevation of approximately 590 feet above mean sea level (msl) mapped as small knolls throughout the Study Area and a low elevation of approximately 585 feet above msl in the southeast corner of the Study Area.

The WWI map (Figure 3) was reviewed and does not indicate the presence of any wetlands within the Study Area although two small (< 2 acres) wetlands are mapped just northeast and southeast of the Study Area. The WWI wetland indicator soils layer (Figure 3) was reviewed and identifies wetland indicator soils along the northwest edge of the Study Area. Indicator soils are soils which are commonly found in wetlands or have inclusions of soils that are commonly found in wetlands.

The WDNR SWDV was also reviewed and identifies Lake Michigan immediately east of the Study Area but does not identify this portion of Lake Michigan as having any special designations or status.

The Oneida County Soil Survey (Figure 4) and Hydric Soils Map (Figure 5) indicate that the following soil series are present throughout the Study Area:

BmB2 – Boyer Loamy Sand, 1 to 6% slopes, Eroded (3.62 acres – 97.52% of Area of Interest) – These soils consist of well drained loamy sand soils overlying sand. These soils are formed on convex and linear treads and shoulders of outwash plains with nearly level to gently rolling terrain.

Ge – Granby Loamy Sand, Loamy Substratum, 0 to 2% slopes (0.07 acres – 1.81% of Area of Interest) – These soils consist of poorly drained loamy sand overlying sand over sand. These soils are formed on linear and concave base slope and toeslopes of drainageways and depressions on outwash plains and outwash plains with level to nearly level terrain.

Sfb – Sandy Lake Beaches, 2 to 6% slopes (0.02 acres – 0.58% of Area of Interest) – These soils consist of somewhat poorly drained sand soils formed on convex and linear risers and backslopes of beaches with nearly level to gently rolling terrain.



The hydric soils reports for the Study Area, including minor components, are shown below;

Table 1 – Hydric Soil Rating

Hydric Rating by Map Unit (WI)–Ozaukee County, Wisconsin				
Map Unit Symbol	Map Unit Name	Hydric Percent of Map Unit	Hydric Category	Landform Hydric Minor Components
BmB2	Boyer loamy sand, 1 to 6 percent slopes, eroded	0	WI Nonhydric	—
Ge	Granby loamy sand, loamy substratum	100	WI Hydric	—
Sfb	Sandy lake beaches	0	WI Nonhydric	—
WmA	Wasepi sandy loam, 1 to 3 percent slopes	10	WI Predominantly Nonhydric	Depressions

Table 2 – Hydric Soils List – All Components

Hydric Soil List - All Components–WI089–Ozaukee County, Wisconsin					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
BmB2: Boyer loamy sand, 1 to 6 percent slopes, eroded	Boyer	100	Outwash terraces	No	—
Ge: Granby loamy sand, loamy substratum	Granby	100	Drainageways on outwash plains, depressions on outwash plains	Yes	2,3
Sfb: Sandy lake beaches	Sandy lake beaches	100	Beaches	No	—
WmA: Wasepi sandy loam, 1 to 3 percent slopes	Wasepi	85-95	Drainageways	No	—
	Granby-Loamy substratum	5-15	Depressions	Yes	2,3

Hydric criteria codes 2 and 3 are defined as follows;

2. Soils in Aquic suborders, great groups, or subgroups, Albolls suborder, Historthels great group, Histoturbels great group, Pachic subgroups, or Cumulic subgroups that:
 - a. Based on the range of characteristics for the soil series, will at least in part meet one or more Field Indicators of Hydric Soils in the United States, or
 - b. Show evidence that the soil meets the definition of a hydric soil;
3. Soils that are frequently ponded for long or very long duration during the growing season.
 - a. Based on the range of characteristics for the soil series, will at least in part meet one or more Field Indicators of Hydric Soils in the United States, or
 - b. Show evidence that the soil meets the definition of a hydric soil;

An antecedent precipitation evaluation was conducted for the three months prior the site visit using the USACE APT. The APT summarized data from local weather stations and determined climatic conditions were within normal for the time of the site visit. The antecedent precipitation evaluation and WETS data report for the area at the time of the site visit is included in Appendix B.

FIELD DELINEATION

Thirteen wetlands (Wetlands 1 through 13) were delineated during the site visit. The following section describes the wetlands identified within the Study Area and the basis for determining the wetland boundaries. See Appendix A for Wetland Data Forms. Refer to Figure 2 for the location of the wetlands and each sample transect. Site photos are included in Appendix C.



The Wetland Data Sheets classify the wetland according to the Cowardin classification system. The wetland boundaries were identified using procedures identified in the 1987 Corp of Engineers Wetlands Delineation Manual and Northcentral/Northeast Regional Supplement, including observations of transitions in wetland hydrology, vegetation and soils, as well as topographical position and best professional judgment.

DELINEATED WETLANDS

Wetland 1

Wetland 1 is a small depression located in the southwest corner of the Study Area and is +/- 0.036 acres in size. Wetland 1 is entirely located within the Study Area and is classified as a Wet Meadow/remnant dune-swale community. The WWI map does not indicate the presence of any wetlands or wetland indicator soils in this area.

The wetland boundaries were identified based on well defined topographic transitions with the wetland being located in an obvious depression approximately 2 to 3 feet lower than adjacent uplands with moderately steep upland sideslopes. Transitions in vegetation, soils and hydrology were relatively evident with dominant upland transition species including white spruce (*Picea glauca*), black cherry (*Prunus serotina*), Tartarian honeysuckle (*Lonicera tatarica*) and Virginia strawberry (*Fragaria virginiana*) and dominant wetland transition species including reed canary grass (*Phalaris arundinacea*) and bittersweet nightshade (*Solanum dulcamara*).

Hydrology within the wetland area was considered naturally problematic due to lack of saturation or high water table within the upper 12 inches of the soil profile but the sample plot met hydrology with other hydrology indicators observed. Saturation was observed at -16 inches below the soil surface and water table at -21 inches below the soil surface. Soils consisted of a thick mucky silt loam surface horizon overlying depleted sand soils with redoximorphic features.

Plot Wet 1-1: The plant community met wetland vegetation criteria with the Dominance Test (100.0%) and the Prevalence Index (1.958) being met. The dominant vegetation at the sample plot included reed canary grass and bittersweet nightshade. Primary wetland hydrology indicator B9 (Water-Stained Leaves) and secondary indicators D2 (Geomorphologic Position) and D5 (FAC-neutral Test) were present. NRCS hydric soil indicator S5 (Sandy Redox) was present.

Wetland 2

Wetland 2 is an excavated ditch located in the southwest corner of the Study Area and is +/- 0.01 acres in size. Wetland 2 extends beyond the Study Area to the south and is classified as a Wooded Swamp/ditch swale community. The WWI map does not indicate the presence of any wetlands or wetland indicator soils in this area.

The wetland boundaries were identified based on somewhat well defined topographic transitions with the wetland being located in an obvious depression approximately 1 foot lower in elevation than adjacent uplands with gently rolling upland sideslopes. Transitions in vegetation, soils and hydrology were relatively evident with dominant upland transition species including white spruce, black cherry, Tartarian honeysuckle and Virginia strawberry and dominant wetland transition species including white spruce, green ash (*Fraxinus pennsylvanica*), common buckthorn (*Rhamnus cathartica*), reed canary grass and orange jewelweed (*Impatiens capensis*).

Hydrology within the wetland area was considered naturally problematic due to lack of saturation or high water table within the upper 12 inches of the soil profile but the sample plot met hydrology with other



hydrology indicators observed. Soils consisted of a dark silt loam surface horizon overlying dark silt loam soils with redoximorphic features overlying sand soils lacking redoximorphic features.

Plot Wet 2-1: The plant community met wetland vegetation criteria with the Dominance Test (83.3%) and the Prevalence Index (2.500) being met. The dominant vegetation at the sample plot included white spruce, green ash, common buckthorn, reed canary grass and orange jewelweed. Primary wetland hydrology indicator B9 and secondary indicators D2 and D5 were present. NRCS hydric soil indicator F6 (Redox Dark Surface) was present.

Wetland 3

Wetland 3 is a small depression located in the southwest corner of the Study Area and is +/- 0.026 acres in size. Wetland 3 is entirely located within the Study Area and is classified as a Wet Meadow/remnant dune-swale community. The WWI map does not indicate the presence of any wetlands or wetland indicator soils in this area.

The wetland boundaries were identified based on a very subtle dip in topography and limited hydrophytic vegetation with the wetland being approximately 6 to 12 inches lower in elevation than adjacent uplands. Transitions in vegetation were noted with dominant upland transition species including cultivated apple (*Malus pumila*), black snakeroot (*Sanicula marilandica*), creeping Charlie (*Glechomahederacea*) and Virginia creeper (*Parthenocissus quinquefolia*) and dominant wetland transition species including Canadian clearweed (*Pilea pumila*) and reed canary grass.

Hydrology within the wetland area was considered naturally problematic due to lack of saturation or high water table within the upper 12 inches of the soil profile but the sample plot met hydrology with other hydrology indicators observed. Soils consisted of mucky silt loam overlying high chroma/value sandy loam over depleted sandy loam with redoximorphic features.

Plot Wet 3-1: The plant community met wetland vegetation criteria with the Rapid Test for Hydrophytic Vegetation, the Dominance Test (100.0%) and the Prevalence Index (2.262) being met. The dominant vegetation at the sample plot included Canadian clearweed and reed canary grass. Secondary hydrology indicators D2 and D5 were present. NRCS hydric soil indicator F1 (Loamy Mucky Mineral) was present.

Wetland 4

Wetland 4 is a small depression located in the western portion of the Study Area and is +/- 0.003 acres in size. Wetland 4 is entirely located within the Study Area and is classified as a Wet Meadow/remnant dune-swale community. The WWI map does not indicate the presence of any wetlands or wetland indicator soils in this area.

The wetland boundaries were identified based on a very subtle dip in topography and limited hydrophytic vegetation with the wetland being approximately 6 to 12 inches lower in elevation than adjacent uplands. Transitions in vegetation were noted with dominant upland transition species including eastern white pine (*Pinus strobus*), Japanese barberry (*Berberis thunbergia*), Tartarian honeysuckle and Pennsylvania sedge (*Carex pennsylvanica*) and dominant wetland transition species including white avens (*Geum canadense*), calico aster (*Symphotrichum lateriflorum*) and common buckthorn.

Hydrology within the wetland area was considered naturally problematic due to lack of saturation or high water table within the upper 12 inches of the soil profile but the sample plot met hydrology with other hydrology indicators observed and best professional judgment. Soils consisted of loamy sand overlying depleted loamy sand and sand with redoximorphic features.



Plot Wet 4-1: The plant community met wetland vegetation criteria with the Dominance Test (100.0%) and the Prevalence Index (2.867) being met. The dominant vegetation at the sample plot included white avens, calico aster and common buckthorn. Secondary hydrology indicator D2 was present and hydrology was determined to be present based on best professional judgment and a prior wetland delineation indicating other hydrology indicators were present at that time. NRCS hydric soil indicators A11 (Depleted Below Dark Surface) and F3 (Depleted Matrix) were present.

Wetland 5

Wetland 5 is a small depression located in the northwest corner of the Study Area and is +/- 0.033 acres in size. Wetland 5 is entirely located within the Study Area and is classified as a Wet Meadow/remnant dune-swale community. The WWI map does not indicate the presence of any wetlands or wetland indicator soils in this area.

The wetland boundaries were identified with a relatively evident drop in topography with the wetland being located approximately 1 to 2 feet lower in elevation than adjacent upland areas. Transitions in vegetation were noted with dominant upland transition species including white spruce, paper birch (*Betula papyrifera*), Japanese barberry and Pennsylvania sedge and dominant wetland transition species including reed canary grass.

Hydrology within the wetland area was considered naturally problematic due to lack of saturation or high water table within the upper 12 inches of the soil profile but the sample plot met hydrology with other hydrology indicators observed. Soils consisted of mucky silt loam overlying depleted sand with redoximorphic features.

Plot Wet 5-1: The plant community met wetland vegetation criteria with the Rapid Test for Hydrophytic Vegetation, the Dominance Test (100.0%) and the Prevalence Index (2.200) being met. The dominant vegetation at the sample plot included reed canary grass. Secondary hydrology indicators D2 and D5 were present. NRCS hydric soil indicators A11, S5 and F1 were present.

Wetland 6

Wetland 6 is a small depression located in the western portion of the Study Area and is +/- 0.014 acres in size. Wetland 6 is entirely located within the Study Area and is classified as a Wet Meadow/remnant dune-swale community. The WWI map does not indicate the presence of any wetlands or wetland indicator soils in this area.

The wetland boundaries were identified with a subtle drop in topography with the wetland being located approximately 6 to 12 inches lower in elevation than adjacent upland areas. Transitions in vegetation were noted with dominant upland transition species including eastern white pine, Japanese barberry, bull thistle (*Cirsium arvense*) and Canada goldenrod and dominant wetland transition species including bittersweet nightshade.

Perched saturation was observed at the soil surface and several other hydrology indicators were observed. Soils consisted of dark sandy loam with redoximorphic features overlying depleted sand with redoximorphic features.

Plot Wet 6-1: The plant community met wetland vegetation criteria with the Dominance Test (100.0%) and the Prevalence Index (3.000) being met. The dominant vegetation at the sample plot included bittersweet nightshade. Primary hydrology indicators A3 (Saturation), B8 (Sparsely Vegetated Concave



Surface), B9 and secondary hydrology indicators D2 and D5 were present. NRCS hydric soil indicator F6 was present.

Wetland 7

Wetland 7 is a depression located in the northwest corner of the Study Area and is +/- 0.069 acres in size. Wetland 7 extends beyond the Study Area to the northwest and appears to connect to off-site wetlands via culvert under the existing driveway. Wetland 7 is classified as a Wet Meadow/remnant dune-swale community. The WWI map does not indicate the presence of any wetlands in this area but identifies a narrow strip of wetland indicator soils along the northwest edge of this area.

The wetland boundaries were identified with a relatively evident drop in topography with the wetland being located approximately 1 to 2 feet lower in elevation than adjacent upland areas. Transitions in vegetation were noted with dominant upland transition species including eastern white pine, white spruce, Japanese barberry, autumn olive (*Eleagnus umbellata*) and Pennsylvania sedge and dominant wetland transition species including calico aster and bittersweet nightshade.

Hydrology within the wetland area was considered naturally problematic due to lack of saturation or high water table within the upper 12 inches of the soil profile but the sample plot met hydrology with other hydrology indicators observed. Soils consisted of dark silt loam with redoximorphic features overlying depleted sand with redoximorphic features.

Plot Wet 7-1: The plant community met wetland vegetation criteria with the Rapid Test for Hydrophytic Vegetation, the Dominance Test (100.0%) and the Prevalence Index (3.000) being met. The dominant vegetation at the sample plot included calico aster and bittersweet nightshade. Primary hydrology indicator B8 and secondary hydrology indicator D2 were present. NRCS hydric soil indicators A11 and F6 were present.

Wetland 8

Wetland 8 is a small depression located in the northcentral portion of the Study Area and is +/- 0.024 acres in size. Wetland 8 is entirely located within the Study Area and is classified as a Wet Meadow/remnant dune-swale community. The WWI map does not indicate the presence of any wetlands or wetland indicator soils in this area.

The wetland boundaries were identified with a relatively evident drop in topography with the wetland being located approximately 1 foot lower in elevation than adjacent upland areas. Transitions in vegetation were noted with dominant upland transition species including paper birch, white spruce, Canada goldenrod and Japanese barberry and dominant wetland transition species including calico aster.

Hydrology within the wetland area was considered naturally problematic due to lack of saturation or high water table within the upper 12 inches of the soil profile but the sample plot met hydrology with other hydrology indicators observed and best professional judgment. Soils consisted of dark silt loam with redoximorphic features overlying depleted sand with redoximorphic features.

Plot Wet 8-1: The plant community met wetland vegetation criteria with the Dominance Test (100.0%) and the Prevalence Index (3.000) being met. The dominant vegetation at the sample plot included calico aster. Primary hydrology indicator B8 and secondary hydrology indicator D2 was present and hydrology was determined to be present based on best professional judgment and a prior wetland delineation indicating other hydrology indicators were present at that time. NRCS hydric soil indicators A11 and F6 were present.



Wetland 9

Wetland 9 is a small depression located in the southcentral portion of the Study Area and is +/- 0.025 acres in size. Wetland 9 is entirely located within the Study Area and is classified as a Wet Meadow/remnant dune-swale community. The WWI map does not indicate the presence of any wetlands or wetland indicator soils in this area.

The wetland boundaries were identified with a relatively evident drop in topography with the wetland being located approximately 1 foot lower in elevation than adjacent upland areas. Transitions in vegetation were noted with dominant upland transition species including paper birch, white spruce, Canada goldenrod and Japanese barberry and dominant wetland transition species including calico aster and common buckthorn.

Hydrology within the wetland area was considered naturally problematic due to lack of saturation or high water table within the upper 12 inches of the soil profile but the sample plot met hydrology with other hydrology indicators observed and best professional judgment. Soils consisted of mucky silt loam overlying depleted sand with redoximorphic features.

Plot Wet 9-1: The plant community met wetland vegetation criteria with the Dominance Test (100.0%) and the Prevalence Index (2.943) being met. The dominant vegetation at the sample plot included calico aster and common buckthorn. Secondary hydrology indicator D2 was present and hydrology was determined to be present based on best professional judgment and a prior wetland delineation indicating other hydrology indicators were present at that time. NRCS hydric soil indicators A12 (Thick Dark Surface) and F1 were present.

Wetland 10

Wetland 10 is a small depression located in the southcentral portion of the Study Area and is +/- 0.032 acres in size. Wetland 10 is entirely located within the Study Area and is classified as a Wet Meadow/remnant dune-swale community. The WWI map does not indicate the presence of any wetlands or wetland indicator soils in this area.

The wetland boundaries were identified with a relatively evident drop in topography with the wetland being located approximately 1 foot lower in elevation than adjacent upland areas. Transitions in vegetation were noted with dominant upland transition species including white spruce, common milkweed (*Asclepias syriaca*) and Japanese barberry and dominant wetland transition species including speckled alder (*Alnus incana ssp. rugosa*), green ash and bittersweet nightshade.

Hydrology within the wetland area was considered naturally problematic due to lack of saturation or high water table within the upper 12 inches of the soil profile but the sample plot met hydrology with other hydrology indicators observed. Soils consisted of mucky silt loam overlying sand with redoximorphic features.

Plot Wet 10-1: The plant community met wetland vegetation criteria with the Dominance Test (75.0%) and the Prevalence Index (2.603) being met. The dominant vegetation at the sample plot included eastern cottonwood (*Populus deltoides*), speckled alder, green ash and bittersweet nightshade. Primary hydrology indicator B9 and secondary hydrology indicators D2 and D5 were present. NRCS hydric soil indicator F1 was present.



Wetland 11

Wetland 11 is a small depression located in the southeast portion of the Study Area and is +/- 0.023 acres in size. Wetland 11 is entirely located within the Study Area and is classified as a Wet Meadow/remnant dune-swale community. The WWI map does not indicate the presence of any wetlands or wetland indicator soils in this area.

The wetland boundaries were identified with a subtle drop in topography with the wetland being located approximately 1 foot lower in elevation than adjacent upland areas. Transitions in vegetation were noted with dominant upland transition species including white spruce, red pine (*Pinus resinosa*), Japanese barberry and Canada goldenrod and dominant wetland transition species including northern water horehound.

Hydrology within the wetland area was considered naturally problematic due to lack of saturation or high water table within the upper 12 inches of the soil profile but the sample plot met hydrology with other hydrology indicators observed. Soils consisted of a thin mucky silt loam horizon overlying depleted sand with redoximorphic features.

Plot Wet 11-1: The plant community met wetland vegetation criteria with the Rapid Test for Hydrophytic Vegetation, the Dominance Test (100.0%) and the Prevalence Index (1.000) being met. The dominant vegetation at the sample plot included northern water horehound. Primary hydrology indicator B8 and secondary hydrology indicators D2 and D5 present. NRCS hydric soil indicators A11 and S5 were present.

Wetland 12

Wetland 12 is a small depression located in the southeast portion of the Study Area and is +/- 0.037 acres in size. Wetland 12 is entirely located within the Study Area and is classified as a Wet Meadow/remnant dune-swale community. The WWI map does not indicate the presence of any wetlands or wetland indicator soils in this area.

The wetland boundaries were identified with an evident drop in topography with the wetland being located approximately 2 feet lower in elevation than adjacent upland areas. Transitions in vegetation were noted with dominant upland transition species including white spruce, red pine, Japanese barberry and Canada goldenrod and dominant wetland transition species including Canada bluejoint (*Calamagrostis canadensis*), calico aster, reed canary grass and blueflag iris (*Iris versicolor*).

Saturation was observed at -12 inches below the soil surface and water table at -14 inches below the soil surface. Soils consisted of mucky silt loam horizon overlying depleted sand lacking redoximorphic features.

Plot Wet 12-1: The plant community met wetland vegetation criteria with the Dominance Test (100.0%) and the Prevalence Index (1.750) being met. The dominant vegetation at the sample plot included Canada bluejoint, calico aster, reed canary grass and blueflag iris. Primary hydrology indicator A3 and secondary hydrology indicators D2 and D5 were present. NRCS hydric soil indicators A12 and F1 were present.

Wetland 13

Wetland 13 is a small depression located in the southeast portion of the Study Area and is +/- 0.033 acres in size. Wetland 13 is entirely located within the Study Area and is classified as a Wet Meadow/remnant dune-swale community. The WWI map does not indicate the presence of any wetlands or wetland indicator soils in this area.



The wetland boundaries were identified with a subtle drop in topography with the wetland being located approximately 1 foot lower in elevation than adjacent upland areas. Transitions in vegetation were noted with dominant upland transition species including white spruce, red pine and autumn olive and dominant wetland transition species including white avens and tall beggarticks (*Bidens vulgata*).

Saturation was observed at -12 inches below the soil surface and water table at -14 inches below the soil surface. Soils consisted of mucky silt loam horizon overlying depleted sand lacking redoximorphic features.

Plot Wet 13-1: The plant community met wetland vegetation criteria with the Dominance Test (100.0%) and the Prevalence Index (2.890) being met. The dominant vegetation at the sample plot included white avens and tall beggarticks. Primary hydrology indicator A3 and secondary hydrology indicator D2 were present. NRCS hydric soil indicator S5 was present.

Vegetation found within representative wetland areas throughout the study area includes the following:

Scientific Name	Common Name	Indicator
<i>Alnus incana ssp. rugosa</i>	Speckled Alder	FACW
<i>Bidens vulgata</i>	Tall Beggar-Ticks	FAC
<i>Calamagrostis canadensis</i>	Canada Bluejoint	OBL
<i>Equisetum pratense</i>	Meadow Horsetail	FACW
<i>Fraxinus pennsylvanica</i>	Green Ash	FACW
<i>Geum canadense</i>	White Avens	FAC
<i>Impatiens capensis</i>	Orange Jewelweed	FACW
<i>Iris versicolor</i>	Blueflag	OBL
<i>Lycopus uniflorus</i>	Northern Water Horehound	OBL
<i>Persicaria pensylvanica</i>	Pennsylvania Smartweed	FACW
<i>Phalaris arundinacea</i>	Reed Canary Grass	FACW
<i>Pilea pumila</i>	Canadian Clearweed	FACW
<i>Populus deltoides</i>	Eastern Cottonwood	FAC
<i>Rhamnus cathartica</i>	Common Buckthorn	FAC
<i>Smilax hispida</i>	Bristly Greenbrier	FAC
<i>Solanum dulcamara</i>	Bittersweet Nightshade	FAC
<i>Solidago gigantea</i>	Giant Goldenrod	FACW
<i>Symphotrichum lateriflorum</i>	Calico Aster	FAC
<i>Vitis riparia</i>	Riverbank Grape	FAC

Vegetation found within representative upland areas throughout the study area includes the following:

Scientific Name	Common Name	Indicator
<i>Acer negundo</i>	Box Elder	FAC
<i>Arctium minus</i>	Common Burdock	FACU
<i>Asclepias syriaca</i>	Common Milkweed	UPL
<i>Berberis thunbergia</i>	Japanese Barberry	FACU
<i>Betula papyrifera</i>	Paper Birch	FACU
<i>Carex arctata</i>	Drooping Woodland Sedge	UPL
<i>Carex pensylvanica</i>	Pennsylvania Sedge	UPL
<i>Cirsium arvense</i>	Canada Thistle	FACU
<i>Daucus carota</i>	Queen-Anne's Lace	UPL
<i>Elaeagnus umbellata</i>	Autumn Olive	UPL
<i>Erythronium albidum</i>	White Trout Lily	FACU
<i>Fragaria virginiana</i>	Virginia Strawberry	FACU
<i>Fraxinus pennsylvanica</i>	Green Ash	FACW



<i>Geum canadense</i>	White Avena	FAC
<i>Glechoma hederacea</i>	Creeping Charlie	FACU
<i>Lonicera tatarica</i>	Tartarian Honeysuckle	FACU
<i>Oxalis stricta</i>	Tall Wood-Sorrel	FACU
<i>Parthenocissus quinquefolia</i>	Virginia Creeper	FACU
<i>Picea glauca</i>	White Spruce	FACU
<i>Pilea pumila</i>	Cultivated Apple	UPL
<i>Pinus resinosa</i>	Red Pine	FACU
<i>Pinus strobus</i>	Eastern White Pine	FACU
<i>Populus deltoides</i>	Eastern Cottonwood	FAC
<i>Prunus serotina</i>	Black Cherry	FACU
<i>Rhamnus cathartica</i>	Common Buckthorn	FAC
<i>Rosa blanda</i>	Wild Rose	FACU
<i>Rubus idaeus</i>	Red Raspberry	FAC
<i>Sanicula marilandica</i>	Black Snakeroot	FACU
<i>Smilax hispida</i>	Bristly Greenbrier	FAC
<i>Solidago canadensis</i>	Canada Goldenrod	FACU
<i>Symphotrichum lateriflorum</i>	Calico Aster	FAC
<i>Taraxacum officinale</i>	Common Dandelion	FACU

The wetland edges were flagged based on the transition from upland vegetation to wetland vegetation and transitions in soil and hydrology observed at upland and wetland sample points.



Conclusions

The wetland delineation was conducted on October 18, 2023 by Ms. Ann Key, a WDNR Professionally Assured Wetland Delineator. The intent of the delineation was to identify wetlands for purposes of design and permitting a residential structure. The Study Area is comprised primarily of upland forest with several small swales identified as wetland throughout. The landowner had recently hired a tree removal service to conduct substantial tree clearing throughout portions of the property. However, no roots were removed and technically the activities are authorized. Therefore, the Study Area was considered to have normal circumstances. Several wetland areas had very minimal vegetation but based on review of a previous wetland delineation study (October 17, 2017), these areas had sparse vegetation at that time so it is assumed the sparse vegetative cover during the 2023 site visit was a natural condition and not a result of the tree clearing activities.

The WWI map was reviewed and does not indicate the presence of any wetlands within the Study Area although two small (< 2 acres) wetlands are mapped just northeast and southeast of the Study Area. The WWI wetland indicator soils layer was reviewed and identifies wetland indicator soils along the northwest edge of the Study Area. Indicator soils are soils which are commonly found in wetlands or have inclusions of soils that are commonly found in wetlands.

The WDNR SSWDV was also reviewed and identifies Lake Michigan immediately east of the Study Area but does not identify this portion of Lake Michigan as having any special designations or status.

Thirteen wetlands (Wetlands 1 through 13) were delineated during the site visit. The Wetland Data Sheets classify the wetlands according to the Cowardin *Classification of Wetlands and Deepwater Habitats of the United States* (U.S. Fish and Wildlife Service, 1979) classification system.

An antecedent precipitation evaluation was conducted for the three months prior the site visit using the USACE APT. The APT summarized data from local weather stations and determined climatic conditions were within normal for the time of the site visit.

All wetland sample plots met wetland vegetation criteria with a dominance of hydrophytic species. Hydric soil criteria was met at all wetland sample plots with the following indicators were observed and recorded where applicable; A11, A12, S5, F1, F3 and F6.

Wetland boundaries were identified using procedures outlined in the 1987 Corps of Engineering Wetland Delineation Manual and Northcentral/Northeast Regional Supplement. The areas identified as wetland were identified based on transitions from wetland to upland vegetation, hydrology indicators and hydric soil indicators, or lack thereof, in wetland areas versus upland areas, topographical position and best professional judgment.

The findings of this wetland delineation report are only valid for the site conditions which existed at the time of this investigation. All wetland boundaries and jurisdictional determinations presented in this report are preliminary and subject to verification by USACE. The final authority for wetland boundaries and permit requirements rests with the government agencies which have jurisdiction over this project. Findings of this wetland delineation are subject to revision based upon natural or induced changes in weather, vegetation management, land use, topography, surface water flow, subsurface drainage, stormwater management, within or near the project site which may affect the soils, hydrology, or vegetative community on the project site.

This report provides a description of existing wetland conditions within the Study Area and does not include quantification of any temporary or permanent impacts to wetlands or waterbodies. Such impacts would require review and approval from a variety of agencies. Activities which impact or potentially impact jurisdictional wetlands, are currently regulated at several levels of government. Federal (USACE), State (WDNR) and local



government agencies may all be involved in reviewing a single project. To avoid potential penalties and project delays it is necessary to acquire necessary permits and approvals from all jurisdictional agencies before initiating activities in wetlands. It is important to obtain USACE concurrence on the wetland boundaries prior to proceeding with activities at the site.

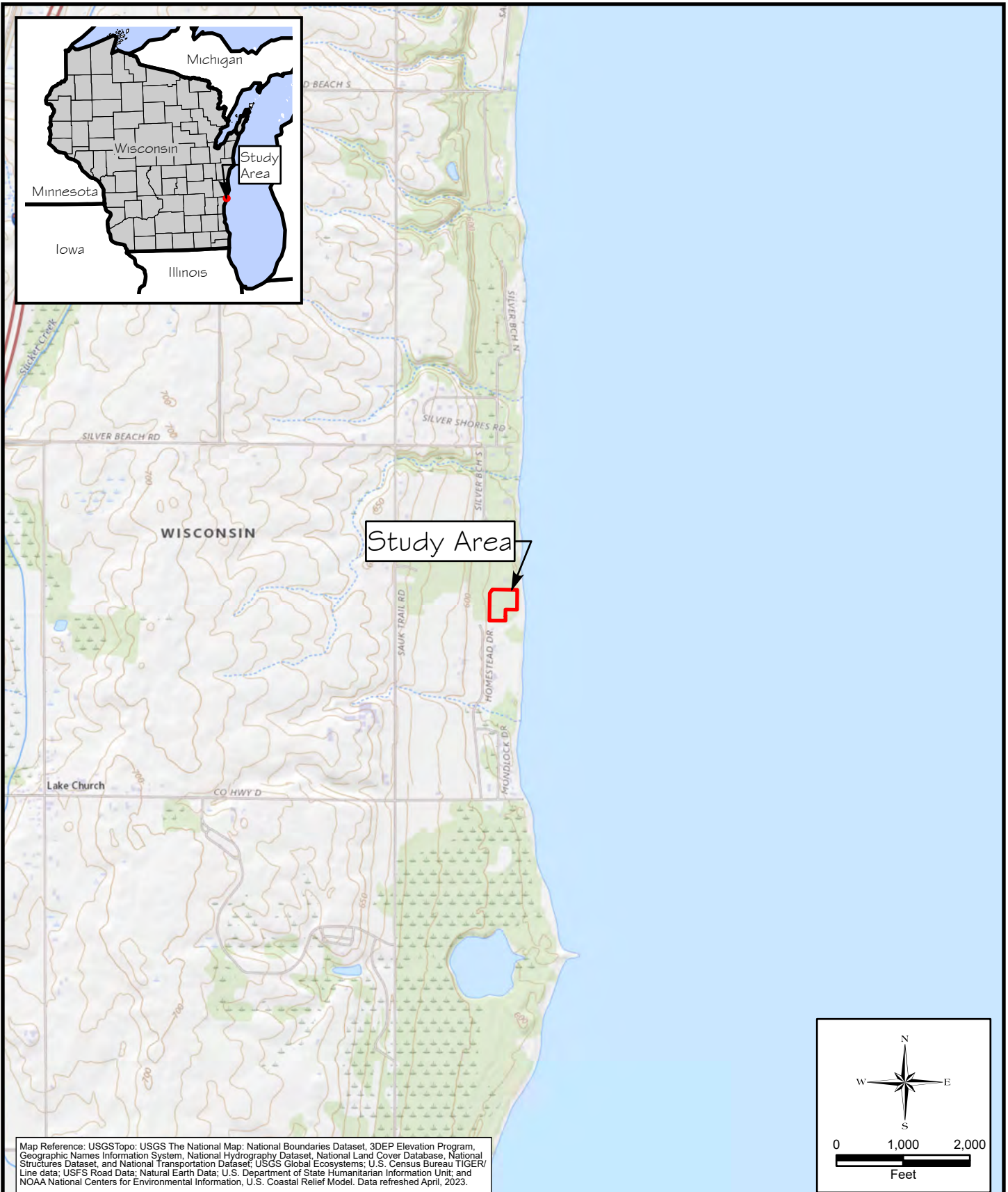


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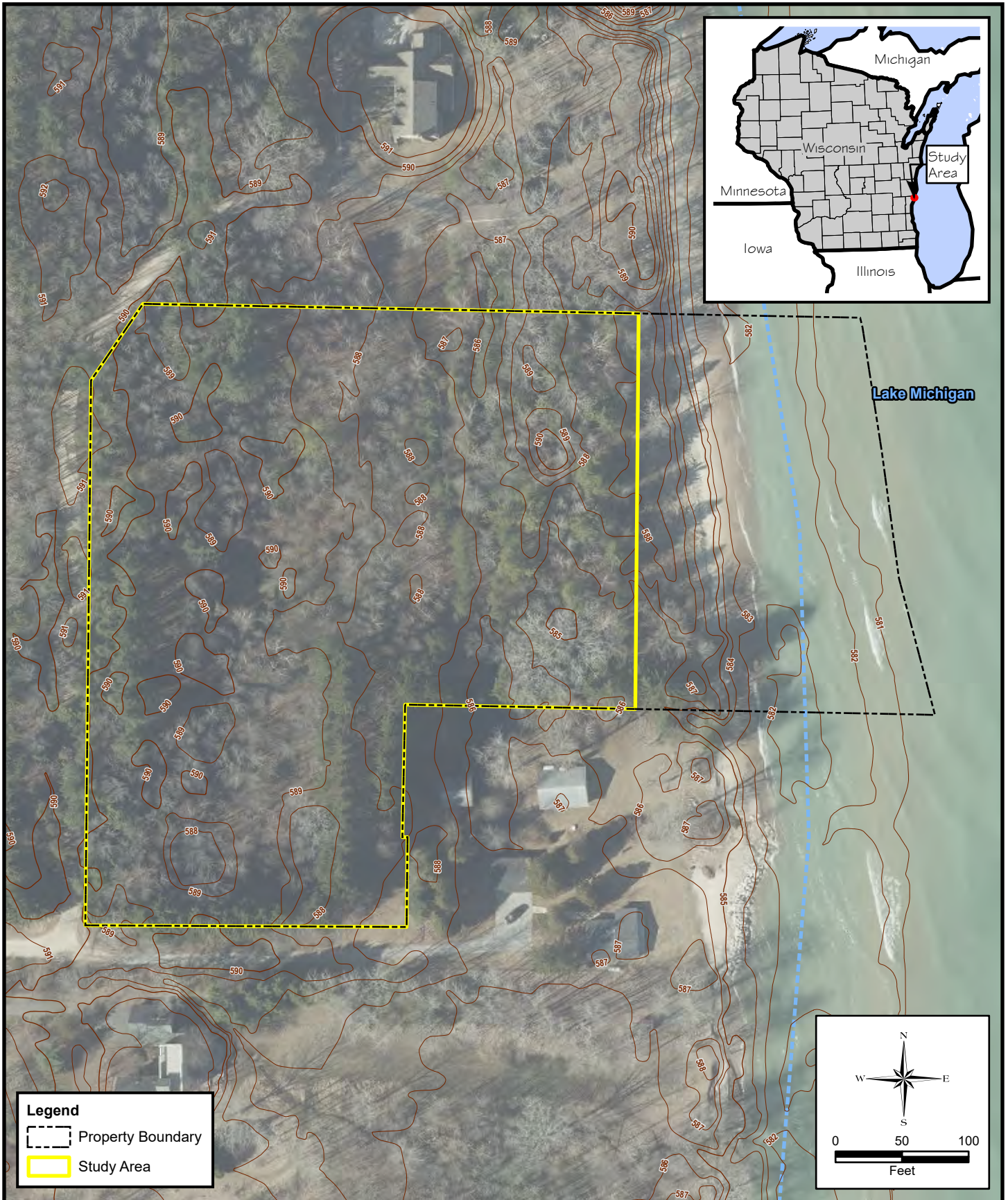
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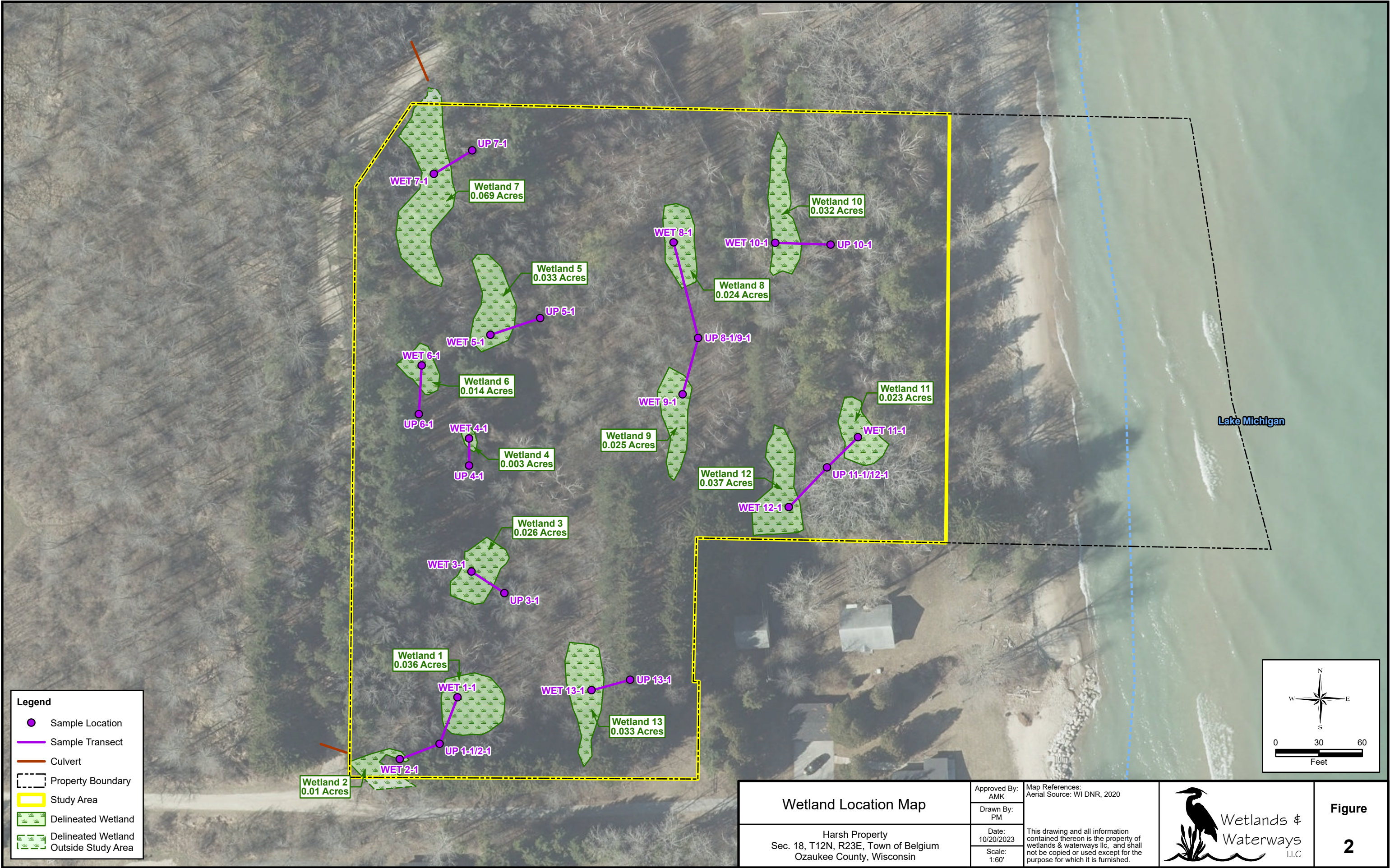
SITE FIGURES

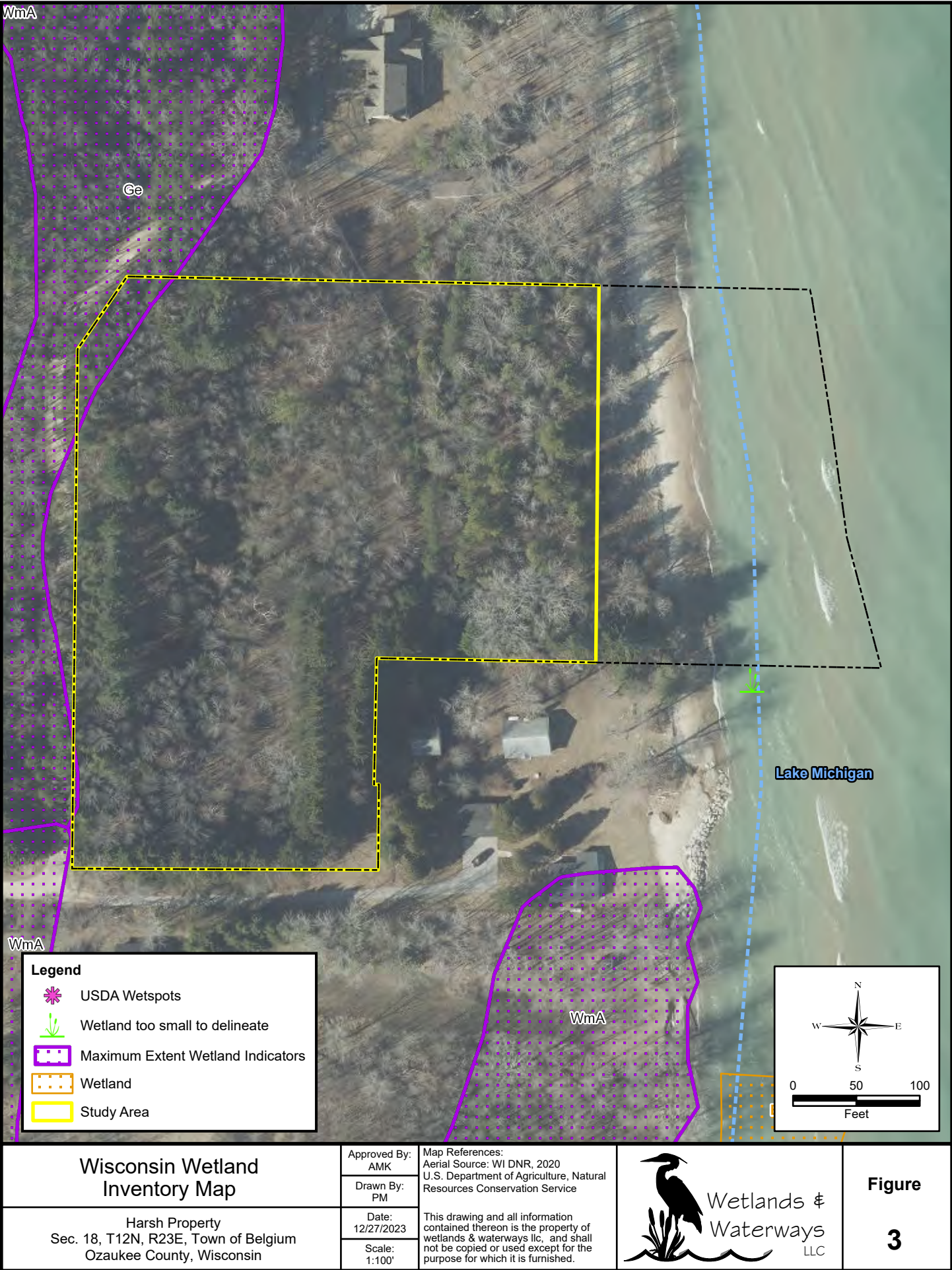


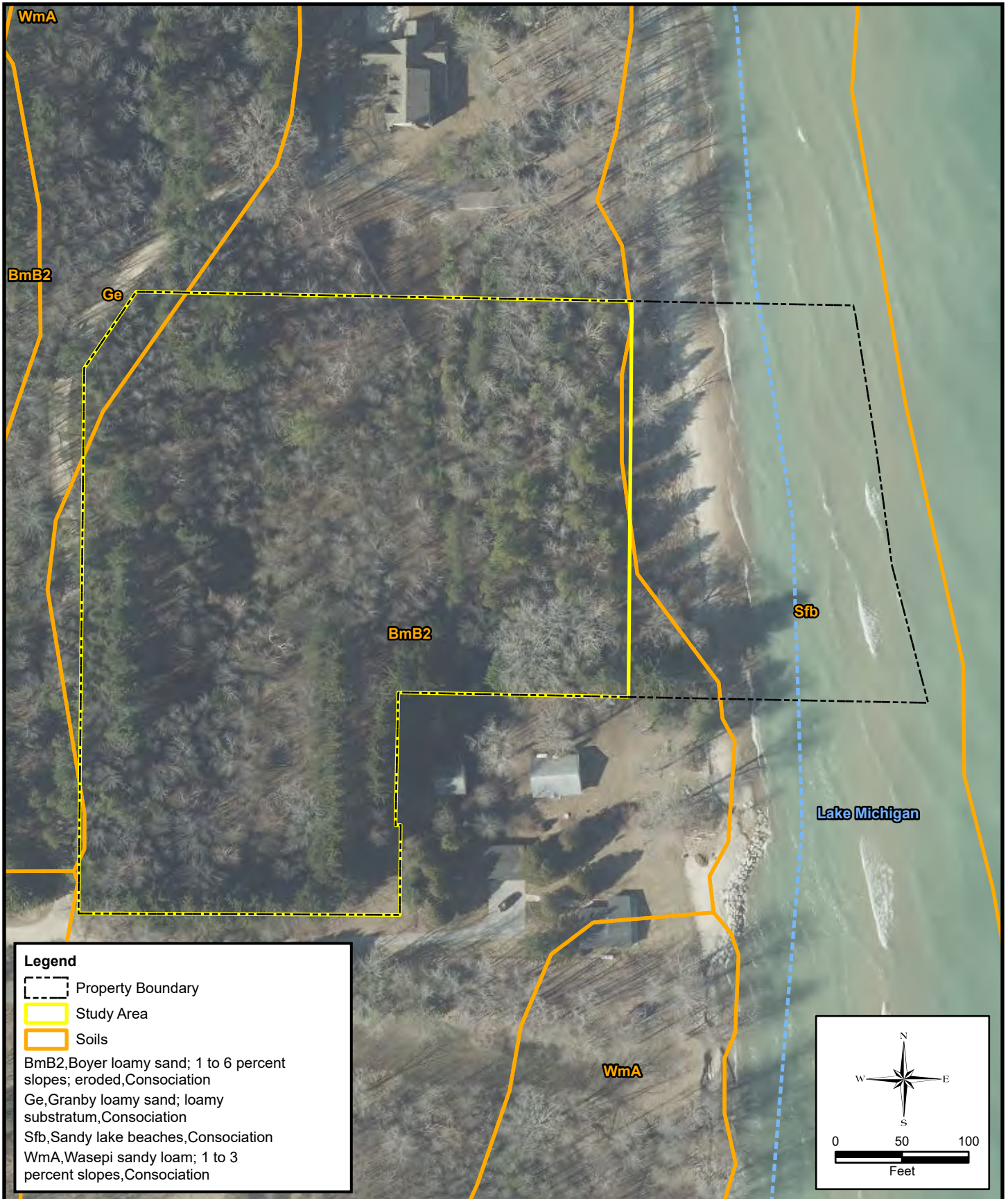
Site Location and Local Topography	Approved By: AMK	This drawing and all information contained thereon is the property of wetlands & waterways llc, and shall not be copied or used except for the purpose for which it is furnished.		Figure
Harsh Property Sec. 18, T12N, R23E, Town of Belgium Ozaukee County, Wisconsin	Drawn By: PM			1A
	Date: 12/27/2023 Scale: 1:2,000'			



Ozaukee County 2-Foot Contour Map	Approved By: AMK Drawn By: PM	Map References: Contours: Ozaukee County Aerial Source: WI DNR, 2020	 Wetlands & Waterways LLC	Figure
Harsh Property Sec. 18, T12N, R23E, Town of Belgium Ozaukee County, Wisconsin	Date: 12/27/2023 Scale: 1:100'	This drawing and all information contained thereon is the property of wetlands & waterways llc, and shall not be copied or used except for the purpose for which it is furnished.		1B







Legend

- Property Boundary
- Study Area
- Soils

BmB2, Boyer loamy sand; 1 to 6 percent slopes; eroded, Consociation
 Ge, Granby loamy sand; loamy substratum, Consociation
 Sfb, Sandy lake beaches, Consociation
 WmA, Wasepi sandy loam; 1 to 3 percent slopes, Consociation

**Ozaukee County
Soil Survey Map**

Harsh Property
 Sec. 18, T12N, R23E, Town of Belgium
 Ozaukee County, Wisconsin

Approved By:
AMK
 Drawn By:
PM

Date:
12/27/2023
 Scale:
1:100'

Map References:
 Ozaukee County Soil Survey, 2023
 Aerial Source: WI DNR, 2020

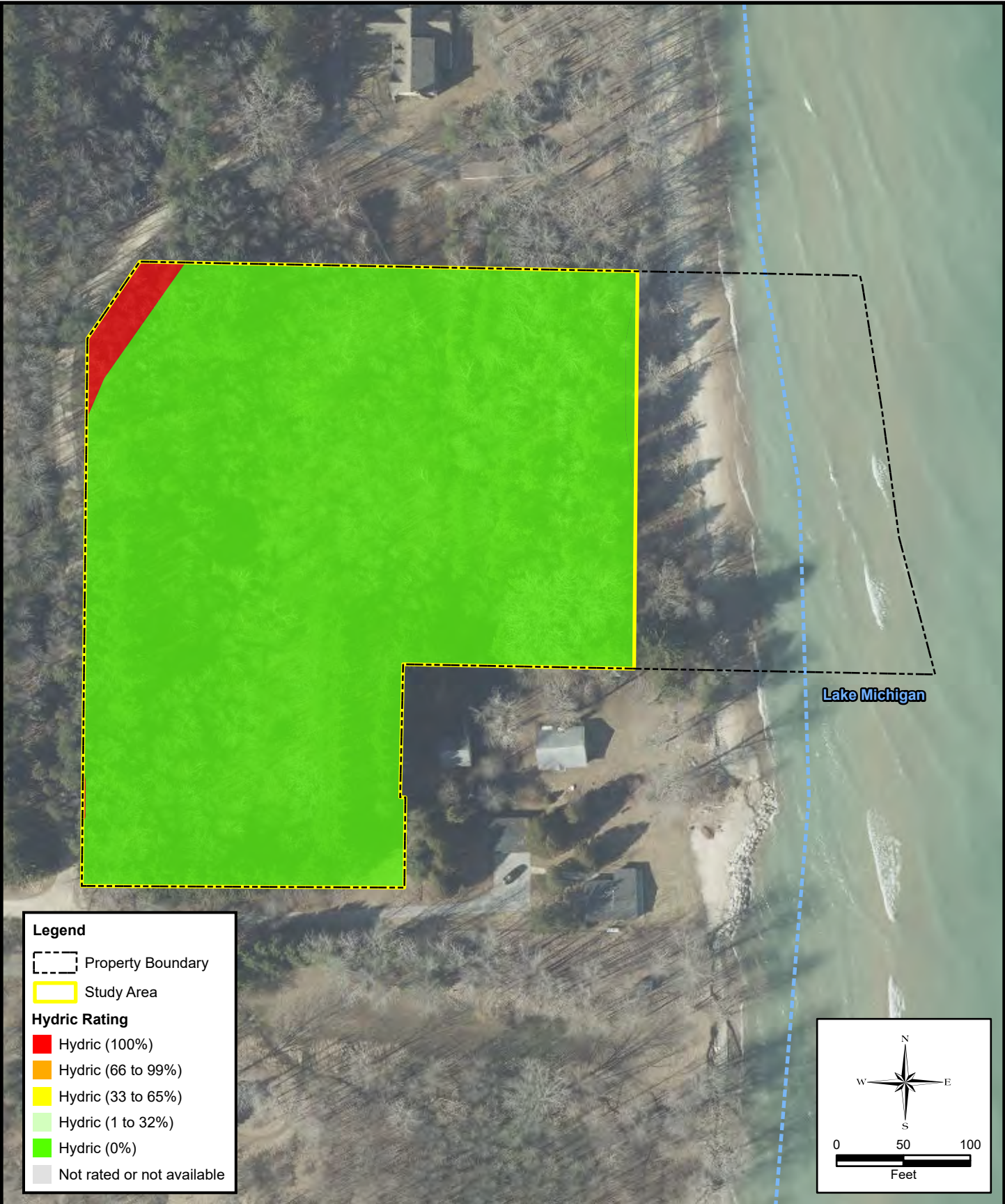
This drawing and all information contained thereon is the property of wetlands & waterways llc, and shall not be copied or used except for the purpose for which it is furnished.



Wetlands &
 Waterways
 LLC

Figure

4



Ozaukee County Hydric Soil Map	Approved By: AMK	Map References: Ozaukee County Soil Survey, 2023 Aerial Source: WI DNR, 2020		Figure 5
	Drawn By: PM			
Harsh Property Sec. 18, T12N, R23E, Town of Belgium Ozaukee County, Wisconsin	Date: 12/27/2023	This drawing and all information contained thereon is the property of wetlands & waterways llc, and shall not be copied or used except for the purpose for which it is furnished.		
	Scale: 1:100'			



APPENDIX A – FIELD DATA SHEETS

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Glenn Harsh Property

City/County: Town of Belgium, Ozaukee Co,

Sampling Date: 18-Oct-23

Applicant/Owner: Glenn Harsh

State: WI

Sampling Point:

Wet 1-1

Investigator(s): Ann Key, WDNR Professionally Assured

Section, Township, Range: S. 18

T. 12N

R. 23E

Landform (hillslope, terrace, etc.): Toeslope/Depression

Local relief (concave, convex, none): concave

Slope: 0.0 % / 0.0

Subregion (LRR or MLRA): LRR K

Lat.: 43.5068470700

Long.: -87.7953779200

Datum: WGS84

Soil Map Unit Name: Boyer loamy sand; 1 to 6 percent slopes; eroded

NWI classification:

Are climatic/hydrologic conditions on the site typical for this time of year?

Yes ☒ No ☐

(If no, explain in Remarks.)

Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ significantly disturbed?

Are "Normal Circumstances" present?

Yes ☒ No ☐Are Vegetation ☐ , Soil ☐ , or Hydrology ☒ naturally problematic?

(If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ☒ No ☐	Is the Sampled Area within a Wetland?	Yes ☒ No ☐
Hydric Soil Present?	Yes ☒ No ☐		
Wetland Hydrology Present?	Yes ☒ No ☐		
Remarks: (Explain alternative procedures here or in a separate report.) Although recent tree and shrub removal has been conducted on this property, the activities were done without removal of tree roots. Despite a limited amount of vegetation present, the Study Area was still considered to have normal circumstances. This wetland is classified as a remnant dune-swale.			

Hydrology

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)	
Primary Indicators (minimum of one required; check all that apply)			
☐ Surface Water (A1)	☒ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ Marl Deposits (B15)	☐ Moss Trim Lines (B16)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Dry Season Water Table (C2)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres along Living Roots (C3)	☐ Crayfish Burrows (C8)	
☐ Drift deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Stunted or Stressed Plants (D1)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☒ Geomorphic Position (D2)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Other (Explain in Remarks)	☐ Shallow Aquitard (D3)	
☐ Sparsely Vegetated Concave Surface (B8)		☐ Microtopographic Relief (D4)	
		☒ FAC-neutral Test (D5)	
Field Observations:			
Surface Water Present?	Yes ☐ No ☒	Depth (inches):	
Water Table Present?	Yes ☐ No ☒	Depth (inches):	-16
Saturation Present? (includes capillary fringe)	Yes ☐ No ☒	Depth (inches):	-21
Wetland Hydrology Present? Yes ☒ No ☐			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			
The APT analysis indicates climatic conditions were within normal at the time of the site visit. Wetland hydrology is considered naturally problematic due to lack of saturation or high water table within the upper 12 inches of the soil profile but the sample plot still met wetland hydrology criteria through other hydrology indicators.			

VEGETATION - Use scientific names of plants.

Sampling Point: Wet 1-1

Tree Stratum	(Plot size: 44' x 45')	Absolute % Cover	Dominant Species?	Indicator Status
1.		0	☐	
2.		0	☐	
3.		0	☐	
4.		0	☐	
5.		0	☐	
6.		0	☐	
7.		0	☐	
		0	= Total Cover	
Sapling/Shrub Stratum	(Plot size: 15' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.		0	☐	
2.		0	☐	
3.		0	☐	
4.		0	☐	
5.		0	☐	
6.		0	☐	
7.		0	☐	
		0	= Total Cover	
Herb Stratum	(Plot size: 5' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Phalaris arundinacea</i>		10	☒	FACW
2. <i>Solanum dulcamara</i>		5	☒	FAC
3. <i>Iris versicolor</i>		3	☐	OBL
4. <i>Fraxinus pennsylvanica</i>		3	☐	FACW
5. <i>Lycopus uniflorus</i>		3	☐	OBL
6.		0	☐	
7.		0	☐	
8.		0	☐	
9.		0	☐	
10.		0	☐	
11.		0	☐	
12.		0	☐	
		24	= Total Cover	
Woody Vine Stratum	(Plot size: 44' x 45')	Absolute % Cover	Dominant Species?	Indicator Status
1.		0	☐	
2.		0	☐	
3.		0	☐	
4.		0	☐	
		0	= Total Cover	

Dominance Test worksheet:

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

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

Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>6</u>	x 1 = <u>6</u>
FACW species <u>13</u>	x 2 = <u>26</u>
FAC species <u>5</u>	x 3 = <u>15</u>
FACU species <u>0</u>	x 4 = <u>0</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>24</u> (A)	<u>47</u> (B)

Prevalence Index = B/A = 1.958

Hydrophytic Vegetation Indicators:

☐ Rapid Test for Hydrophytic Vegetation

☒ Dominance Test is > 50%

☒ Prevalence Index is ≤ 3.0 ¹

☐ 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 3.28 ft (1m) tall..

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

Woody vine - 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.)

Vegetation meets wetland criteria.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: Wet 1-1

[illegible]

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Glenn Harsh Property

City/County: Town of Belgium, Ozaukee Co,

Sampling Date: 18-Oct-23

Applicant/Owner: Glenn Harsh

State: WI

Sampling Point:

Up 1-1

Investigator(s): Ann Key, WDNR Professionally Assured

Section, Township, Range: S. 18

T. 12N

R. 23E

Landform (hillslope, terrace, etc.): Shoulder slope

Local relief (concave, convex, none): convex

Slope: 2.0 % / 1.1

Subregion (LRR or MLRA): LRR K

Lat.: 43.5067583300

Long.: -87.7954248200

Datum: WGS84

Soil Map Unit Name: Boyer loamy sand; 1 to 6 percent slopes; eroded

NWI classification:

Are climatic/hydrologic conditions on the site typical for this time of year?

Yes ☒ No ☐

(If no, explain in Remarks.)

Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ significantly disturbed?

Are "Normal Circumstances" present?

Yes ☒ No ☐Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic?

(If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ☐ No ☒	Is the Sampled Area within a Wetland?	Yes ☐ No ☒
Hydric Soil Present?	Yes ☐ No ☒		
Wetland Hydrology Present?	Yes ☐ No ☒		
Remarks: (Explain alternative procedures here or in a separate report.) Although recent tree and shrub removal has been conducted on this property, the activities were done without removal of tree roots. Despite a limited amount of vegetation present in some areas, the Study Area was still considered to have normal circumstances.			

Hydrology

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)	
Primary Indicators (minimum of one required; check all that apply)			
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ Marl Deposits (B15)	☐ Moss Trim Lines (B16)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Dry Season Water Table (C2)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres along Living Roots (C3)	☐ Crayfish Burrows (C8)	
☐ Drift deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Stunted or Stressed Plants (D1)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☐ Geomorphic Position (D2)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Other (Explain in Remarks)	☐ Shallow Aquitard (D3)	
☐ Sparsely Vegetated Concave Surface (B8)		☐ 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:			
The APT analysis indicates climatic conditions were within normal at the time of the site visit. No hydrology indicators were observed and this sample plot does not meet wetland hydrology criteria.			

VEGETATION - Use scientific names of plants.

Sampling Point: Up 1-1

Tree Stratum	(Plot size: 30' x 94')	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Picea glauca</i>		30	☒	FACU
2.		0	☐	
3.		0	☐	
4.		0	☐	
5.		0	☐	
6.		0	☐	
7.		0	☐	
		30	= Total Cover	
Sapling/Shrub Stratum	(Plot size: 15' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Prunus serotina</i>		5	☒	FACU
2.		0	☐	
3.		0	☐	
4.		0	☐	
5.		0	☐	
6.		0	☐	
7.		0	☐	
		5	= Total Cover	
Herb Stratum	(Plot size: 5' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Lonicera tatarica</i>		15	☒	FACU
2. <i>Rubus idaeus (NGL)</i>		15	☒	FAC
3. <i>Fraxinus pennsylvanica</i>		10	☒	FACW
4. <i>Fragaria virginiana</i>		10	☒	FACU
5. <i>Solidago canadensis</i>		5	☐	FACU
6. <i>Arctium minus</i>		5	☐	FACU
7. <i>Acer negundo</i>		5	☐	FAC
8. <i>Daucus carota</i>		5	☐	UPL
9. <i>Taraxacum officinale</i>		5	☐	FACU
10.		0	☐	
11.		0	☐	
12.		0	☐	
		75	= Total Cover	
Woody Vine Stratum	(Plot size: 30' x 94')	Absolute % Cover	Dominant Species?	Indicator Status
1.		0	☐	
2.		0	☐	
3.		0	☐	
4.		0	☐	
		0	= Total Cover	

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>10</u>	x 2 = <u>20</u>
FAC species <u>20</u>	x 3 = <u>60</u>
FACU species <u>75</u>	x 4 = <u>300</u>
UPL species <u>5</u>	x 5 = <u>25</u>
Column Totals: <u>110</u> (A)	<u>405</u> (B)
Prevalence Index = B/A = <u>3.682</u>	

Hydrophytic Vegetation Indicators:

☐ Rapid Test for Hydrophytic Vegetation

☐ Dominance Test is > 50%

☐ Prevalence Index is ≤ 3.0 ¹

☐ 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 3.28 ft (1m) tall..

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

Woody vine - 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.)

Vegetation does not meet wetland criteria.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: Up 1-1

[illegible]

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Glenn Harsh Property

City/County: Town of Belgium, Ozaukee Co,

Sampling Date: 18-Oct-23

Applicant/Owner: Glenn Harsh

State: WI

Sampling Point:

Wet 2-1

Investigator(s): Ann Key, WDNR Professionally Assured

Section, Township, Range: S. 18

T. 12N

R. 23E

Landform (hillslope, terrace, etc.): Toeslope/Ditch

Local relief (concave, convex, none): concave

Slope: 0.0 % / 0.0

Subregion (LRR or MLRA): LRR K

Lat.: 43.5067291300

Long.: -87.7955288000

Datum: WGS84

Soil Map Unit Name: Boyer loamy sand; 1 to 6 percent slopes; eroded

NWI classification:

Are climatic/hydrologic conditions on the site typical for this time of year?

Yes ☒ No ☐

(If no, explain in Remarks.)

Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ significantly disturbed?

Are "Normal Circumstances" present?

Yes ☒ No ☐Are Vegetation ☐ , Soil ☐ , or Hydrology ☒ naturally problematic?

(If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ☒ No ☐	Is the Sampled Area within a Wetland?	Yes ☒ No ☐
Hydric Soil Present?	Yes ☒ No ☐		
Wetland Hydrology Present?	Yes ☒ No ☐		
Remarks: (Explain alternative procedures here or in a separate report.) No recent significant disturbances were observed and this area was considered to have normal circumstances. This wetland is classified as a Wooded Swamp ditch/swale that appears to be artificially constructed.			

Hydrology

Wetland Hydrology Indicators:		<u>Secondary Indicators (minimum of 2 required)</u>	
Primary Indicators (minimum of one required; check all that apply)			
☐ Surface Water (A1)	☒ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ Marl Deposits (B15)	☐ Moss Trim Lines (B16)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Dry Season Water Table (C2)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres along Living Roots (C3)	☐ Crayfish Burrows (C8)	
☐ Drift deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Stunted or Stressed Plants (D1)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☒ Geomorphic Position (D2)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Other (Explain in Remarks)	☐ Shallow Aquitard (D3)	
☐ Sparsely Vegetated Concave Surface (B8)		☐ 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:			
The APT analysis indicates climatic conditions were within normal at the time of the site visit. Wetland hydrology is considered naturally problematic due to lack of saturation or high water table within the upper 12 inches of the soil profile but the sample plot still met wetland hydrology criteria through other hydrology indicators.			

VEGETATION - Use scientific names of plants.

Sampling Point: Wet 2-1

Tree Stratum	(Plot size: 20' x 21')	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Picea glauca</i>		30	☒	FACU
2. <i>Fraxinus pennsylvanica</i>		30	☒	FACW
3. _____		0	☐	
4. _____		0	☐	
5. _____		0	☐	
6. _____		0	☐	
7. _____		0	☐	
		60	= Total Cover	
Sapling/Shrub Stratum	(Plot size: 20' x 21')	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Rhamnus cathartica</i>		15	☒	FAC
2. <i>Fraxinus pennsylvanica</i>		10	☒	FACW
3. _____		0	☐	
4. _____		0	☐	
5. _____		0	☐	
6. _____		0	☐	
7. _____		0	☐	
		25	= Total Cover	
Herb Stratum	(Plot size: 5' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Phalaris arundinacea</i>		40	☒	FACW
2. <i>Impatiens capensis</i>		25	☒	FACW
3. <i>Fraxinus pennsylvanica</i>		10	☐	FACW
4. <i>Symphotrichum lateriflorum</i> var. <i>lateriflorum</i>		10	☐	FAC
5. <i>Vitis riparia</i>		5	☐	FAC
6. <i>Equisetum pratense</i>		5	☐	FACW
7. _____		0	☐	
8. _____		0	☐	
9. _____		0	☐	
10. _____		0	☐	
11. _____		0	☐	
12. _____		0	☐	
		95	= Total Cover	
Woody Vine Stratum	(Plot size: 20' x 21')	Absolute % Cover	Dominant Species?	Indicator Status
1. _____		0	☐	
2. _____		0	☐	
3. _____		0	☐	
4. _____		0	☐	
		0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 83.3% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>120</u>	x 2 = <u>240</u>
FAC species <u>30</u>	x 3 = <u>90</u>
FACU species <u>30</u>	x 4 = <u>120</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>180</u> (A)	<u>450</u> (B)
Prevalence Index = B/A = <u>2.500</u>	

Hydrophytic Vegetation Indicators:

☐ Rapid Test for Hydrophytic Vegetation

☒ Dominance Test is > 50%

☒ Prevalence Index is ≤ 3.0 ¹

☐ 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 3.28 ft (1m) tall..

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

Woody vine - 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.)

Vegetation meets wetland criteria.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: Wet 2-1

[illegible]

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Glenn Harsh Property

City/County: Town of Belgium, Ozaukee Co,

Sampling Date: 18-Oct-23

Applicant/Owner: Glenn Harsh

State: WI

Sampling Point:

Up 2-1

Investigator(s): Ann Key, WDNR Professionally Assured

Section, Township, Range: S. 18

T. 12N

R. 23E

Landform (hillslope, terrace, etc.): Shoulder slope

Local relief (concave, convex, none): convex

Slope: 2.0 % / 1.1

Subregion (LRR or MLRA): LRR K

Lat.: 43.5067583300

Long.: -87.7954248200

Datum: WGS84

Soil Map Unit Name: Boyer loamy sand; 1 to 6 percent slopes; eroded

NWI classification:

Are climatic/hydrologic conditions on the site typical for this time of year?

Yes ☒ No ☐

(If no, explain in Remarks.)

Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ significantly disturbed?

Are "Normal Circumstances" present?

Yes ☒ No ☐Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic?

(If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ☐ No ☒	Is the Sampled Area within a Wetland?	Yes ☐ No ☒
Hydric Soil Present?	Yes ☐ No ☒		
Wetland Hydrology Present?	Yes ☐ No ☒		
Remarks: (Explain alternative procedures here or in a separate report.) Although recent tree and shrub removal has been conducted on this property, the activities were done without removal of tree roots. Despite a limited amount of vegetation present in some areas, the Study Area was still considered to have normal circumstances.			

Hydrology

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)	
Primary Indicators (minimum of one required; check all that apply)			
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ Marl Deposits (B15)	☐ Moss Trim Lines (B16)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Dry Season Water Table (C2)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres along Living Roots (C3)	☐ Crayfish Burrows (C8)	
☐ Drift deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Stunted or Stressed Plants (D1)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☐ Geomorphic Position (D2)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Other (Explain in Remarks)	☐ Shallow Aquitard (D3)	
☐ Sparsely Vegetated Concave Surface (B8)		☐ 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:			
The APT analysis indicates climatic conditions were within normal at the time of the site visit. No hydrology indicators were observed and this sample plot does not meet wetland hydrology criteria.			

VEGETATION - Use scientific names of plants.

Sampling Point: Up 2-1

Tree Stratum	(Plot size: 30' x 94')	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Picea glauca</i>		30	☒	FACU
2. _____		0	☐	
3. _____		0	☐	
4. _____		0	☐	
5. _____		0	☐	
6. _____		0	☐	
7. _____		0	☐	
		30	= Total Cover	
Sapling/Shrub Stratum	(Plot size: 15' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Prunus serotina</i>		5	☒	FACU
2. _____		0	☐	
3. _____		0	☐	
4. _____		0	☐	
5. _____		0	☐	
6. _____		0	☐	
7. _____		0	☐	
		5	= Total Cover	
Herb Stratum	(Plot size: 5' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Lonicera tatarica</i>		15	☒	FACU
2. <i>Rubus idaeus (NGL)</i>		15	☒	FAC
3. <i>Fraxinus pennsylvanica</i>		10	☒	FACW
4. <i>Fragaria virginiana</i>		10	☒	FACU
5. <i>Solidago canadensis</i>		5	☐	FACU
6. <i>Arctium minus</i>		5	☐	FACU
7. <i>Acer negundo</i>		5	☐	FAC
8. <i>Daucus carota</i>		5	☐	UPL
9. <i>Taraxacum officinale</i>		5	☐	FACU
10. _____		0	☐	
11. _____		0	☐	
12. _____		0	☐	
		75	= Total Cover	
Woody Vine Stratum	(Plot size: 30' x 94')	Absolute % Cover	Dominant Species?	Indicator Status
1. _____		0	☐	
2. _____		0	☐	
3. _____		0	☐	
4. _____		0	☐	
		0	= Total Cover	

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>10</u>	x 2 = <u>20</u>
FAC species <u>20</u>	x 3 = <u>60</u>
FACU species <u>75</u>	x 4 = <u>300</u>
UPL species <u>5</u>	x 5 = <u>25</u>
Column Totals: <u>110</u> (A)	<u>405</u> (B)
Prevalence Index = B/A = <u>3.682</u>	

Hydrophytic Vegetation Indicators:

☐ Rapid Test for Hydrophytic Vegetation

☐ Dominance Test is > 50%

☐ Prevalence Index is ≤ 3.0 ¹

☐ 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 3.28 ft (1m) tall..

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

Woody vine - 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.)

Vegetation does not meet wetland criteria.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: Up 2-1

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

[illegible]

¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: 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 Muck 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, M)
- ☐ 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)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☐ No ☒

Remarks:

Soils do not meet hydric soil criteria.

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Glenn Harsh Property

City/County: Town of Belgium, Ozaukee Co,

Sampling Date: 18-Oct-23

Applicant/Owner: Glenn Harsh

State: WI

Sampling Point:

Wet 3-1

Investigator(s): Ann Key, WDNR Professionally Assured

Section, Township, Range: S. 18

T. 12N

R. 23E

Landform (hillslope, terrace, etc.): Toeslope/Depression

Local relief (concave, convex, none): concave

Slope: 0.0 % / 0.0

Subregion (LRR or MLRA): LRR K

Lat.: 43.5070858700

Long.: -87.7953409700

Datum: WGS84

Soil Map Unit Name: Boyer loamy sand; 1 to 6 percent slopes; eroded

NWI classification:

Are climatic/hydrologic conditions on the site typical for this time of year?

Yes ☒ No ☐

(If no, explain in Remarks.)

Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ significantly disturbed?

Are "Normal Circumstances" present?

Yes ☒ No ☐Are Vegetation ☐ , Soil ☐ , or Hydrology ☒ naturally problematic?

(If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ☒ No ☐	Is the Sampled Area within a Wetland?	Yes ☒ No ☐
Hydric Soil Present?	Yes ☒ No ☐		
Wetland Hydrology Present?	Yes ☒ No ☐		
Remarks: (Explain alternative procedures here or in a separate report.) Although recent tree and shrub removal has been conducted on this property, the activities were done without removal of tree roots. Despite a limited amount of vegetation present, the Study Area was still considered to have normal circumstances. This wetland is classified as a remnant dune-swale.			

Hydrology

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)	
Primary Indicators (minimum of one required; check all that apply)			
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ Marl Deposits (B15)	☐ Moss Trim Lines (B16)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Dry Season Water Table (C2)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres along Living Roots (C3)	☐ Crayfish Burrows (C8)	
☐ Drift deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Stunted or Stressed Plants (D1)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☒ Geomorphic Position (D2)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Other (Explain in Remarks)	☐ Shallow Aquitard (D3)	
☐ Sparsely Vegetated Concave Surface (B8)		☐ 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:			
The APT analysis indicates climatic conditions were within normal at the time of the site visit. Wetland hydrology is considered naturally problematic due to lack of saturation or high water table within the upper 12 inches of the soil profile but the sampel plot still met wetland hydrology criteria through other hydrology indicators.			

VEGETATION - Use scientific names of plants.

Sampling Point: Wet 3-1

Tree Stratum	(Plot size: 26' x 43')	Absolute % Cover	Dominant Species?	Indicator Status
1.		0	☐	
2.		0	☐	
3.		0	☐	
4.		0	☐	
5.		0	☐	
6.		0	☐	
7.		0	☐	
		0	= Total Cover	

Sapling/Shrub Stratum	(Plot size: 26' x 27')	Absolute % Cover	Dominant Species?	Indicator Status
1.		0	☐	
2.		0	☐	
3.		0	☐	
4.		0	☐	
5.		0	☐	
6.		0	☐	
7.		0	☐	
		0	= Total Cover	

Herb Stratum	(Plot size: 5' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Pilea pumila</i>		20	☒	FACW
2. <i>Phalaris arundinacea</i>		20	☒	FACW
3. <i>Bidens vulgata</i>		10	☐	FAC
4. <i>Persicaria pensylvanica</i>		5	☐	FACW
5. <i>Symphyotrichum lateriflorum</i> var. <i>lateriflorum</i>		3	☐	FAC
6. <i>Smilax hispida</i>		3	☐	FAC
7.		0	☐	
8.		0	☐	
9.		0	☐	
10.		0	☐	
11.		0	☐	
12.		0	☐	
		61	= Total Cover	

Woody Vine Stratum	(Plot size: 26' x 43')	Absolute % Cover	Dominant Species?	Indicator Status
1.		0	☐	
2.		0	☐	
3.		0	☐	
4.		0	☐	
		0	= Total Cover	

Dominance Test worksheet:

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

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

Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>45</u>	x 2 = <u>90</u>
FAC species <u>16</u>	x 3 = <u>48</u>
FACU species <u>0</u>	x 4 = <u>0</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>61</u> (A)	<u>138</u> (B)
Prevalence Index = B/A = <u>2.262</u>	

Hydrophytic Vegetation Indicators:

- ☒ Rapid Test for Hydrophytic Vegetation
- ☒ Dominance Test is > 50%
- ☒ Prevalence Index is ≤ 3.0 ¹
- ☐ 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 3.28 ft (1m) tall..

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

Woody vine - 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.)

Vegetation meets wetland criteria.

Attachment: Harsh Combined Files (ORD-24-8 : Shoreland & Floodplain Zoning Map Amendment - Town of Belgium, Section 18 - HARSH)

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: Wet 3-1

[illegible]

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Glenn Harsh Property

City/County: Town of Belgium, Ozaukee Co,

Sampling Date: 18-Oct-23

Applicant/Owner: Glenn Harsh

State: WI

Sampling Point:

Up 3-1

Investigator(s): Ann Key, WDNR Professionally Assured

Section, Township, Range: S. 18

T. 12N

R. 23E

Landform (hillslope, terrace, etc.): Sideslope

Local relief (concave, convex, none): linear

Slope: 3.0 % / 1.7

Subregion (LRR or MLRA): LRR K

Lat.: 43.5070451500

Long.: -87.7952550600

Datum: WGS84

Soil Map Unit Name: Boyer loamy sand; 1 to 6 percent slopes; eroded

NWI classification:

Are climatic/hydrologic conditions on the site typical for this time of year?

Yes ☒ No ☐

(If no, explain in Remarks.)

Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ significantly disturbed?

Are "Normal Circumstances" present?

Yes ☒ No ☐Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic?

(If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ☐ No ☒	Is the Sampled Area within a Wetland?	Yes ☐ No ☒
Hydric Soil Present?	Yes ☐ No ☒		
Wetland Hydrology Present?	Yes ☐ No ☒		
Remarks: (Explain alternative procedures here or in a separate report.) Although recent tree and shrub removal has been conducted on this property, the activities were done without removal of tree roots. Despite a limited amount of vegetation present in some areas, the Study Area was still considered to have normal circumstances.			

Hydrology

Wetland Hydrology Indicators:		<u>Secondary Indicators (minimum of 2 required)</u>	
Primary Indicators (minimum of one required; check all that apply)			
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ Marl Deposits (B15)	☐ Moss Trim Lines (B16)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Dry Season Water Table (C2)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres along Living Roots (C3)	☐ Crayfish Burrows (C8)	
☐ Drift deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Stunted or Stressed Plants (D1)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☐ Geomorphic Position (D2)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Other (Explain in Remarks)	☐ Shallow Aquitard (D3)	
☐ Sparsely Vegetated Concave Surface (B8)		☐ 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:			
The APT analysis indicates climatic conditions were within normal at the time of the site visit. No hydrology indicators were observed and this sample plot does not meet wetland hydrology criteria.			

VEGETATION - Use scientific names of plants.

Sampling Point: Up 3-1

Tree Stratum	(Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Malus pumila</i>		15	☒	UPL
2. <i>Picea glauca</i>		10	☒	FACU
3. _____		0	☐	_____
4. _____		0	☐	_____
5. _____		0	☐	_____
6. _____		0	☐	_____
7. _____		0	☐	_____
		25	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15' radius)				
1. _____		0	☐	_____
2. _____		0	☐	_____
3. _____		0	☐	_____
4. _____		0	☐	_____
5. _____		0	☐	_____
6. _____		0	☐	_____
7. _____		0	☐	_____
		0	= Total Cover	
Herb Stratum (Plot size: 5' radius)				
1. <i>Sanicula marilandica</i>		30	☒	FACU
2. <i>Glechoma hederacea</i>		20	☒	FACU
3. <i>Parthenocissus quinquefolia</i>		15	☒	FACU
4. <i>Solidago canadensis</i>		10	☐	FACU
5. <i>Smilax hispida</i>		10	☐	FAC
6. <i>Oxalis stricta</i>		10	☐	FACU
7. <i>Carex arctata</i>		10	☐	UPL
8. _____		0	☐	_____
9. _____		0	☐	_____
10. _____		0	☐	_____
11. _____		0	☐	_____
12. _____		0	☐	_____
		105	= Total Cover	
Woody Vine Stratum (Plot size: 30' x 94')				
1. _____		0	☐	_____
2. _____		0	☐	_____
3. _____		0	☐	_____
4. _____		0	☐	_____
		0	= Total Cover	

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>0</u>	x 2 = <u>0</u>
FAC species <u>10</u>	x 3 = <u>30</u>
FACU species <u>95</u>	x 4 = <u>380</u>
UPL species <u>25</u>	x 5 = <u>125</u>
Column Totals: <u>130</u> (A)	<u>535</u> (B)
Prevalence Index = B/A = <u>4.115</u>	

Hydrophytic Vegetation Indicators:

☐ Rapid Test for Hydrophytic Vegetation

☐ Dominance Test is > 50%

☐ Prevalence Index is ≤ 3.0 ¹

☐ 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 3.28 ft (1m) tall..

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

Woody vine - 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.)

Vegetation does not meet wetland criteria.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: Up 3-1

[illegible]

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region**Project/Site:** Glenn Harsh Property**City/County:** Town of Belgium, Ozaukee Co,**Sampling Date:** 18-Oct-23**Applicant/Owner:** Glenn Harsh**State:** WI**Sampling Point:****Wet 4-1****Investigator(s):** Ann Key, WDNR Professionally Assured**Section, Township, Range:** S. 18

T. 12N

R. 23E

Landform (hillslope, terrace, etc.): Toeslope/Depression**Local relief (concave, convex, none):** concave**Slope:** 0.0 % / 0.0**Subregion (LRR or MLRA):** LRR K**Lat.:** 43.5073392300**Long.:** -87.7953470900**Datum:** WGS84**Soil Map Unit Name:** Boyer loamy sand; 1 to 6 percent slopes; eroded**NWI classification:****Are climatic/hydrologic conditions on the site typical for this time of year?**Yes ☒ No ☐

(If no, explain in Remarks.)

Are Vegetation ☐ , **Soil** ☐ , **or Hydrology** ☐ **significantly disturbed?****Are "Normal Circumstances" present?**Yes ☒ No ☐**Are Vegetation** ☐ , **Soil** ☐ , **or Hydrology** ☒ **naturally problematic?**

(If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ☒ No ☐	Is the Sampled Area within a Wetland?	Yes ☒ No ☐
Hydric Soil Present?	Yes ☒ No ☐		
Wetland Hydrology Present?	Yes ☒ No ☐		
Remarks: (Explain alternative procedures here or in a separate report.)			
Although recent tree and shrub removal has been conducted on this property, the activities were done without removal of tree roots. Despite a limited amount of vegetation present, the Study Area was still considered to have normal circumstances. This wetland is classified as a remnant dune-swale.			

Hydrology

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)	
Primary Indicators (minimum of one required; check all that apply)			
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ Marl Deposits (B15)	☐ Moss Trim Lines (B16)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Dry Season Water Table (C2)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres along Living Roots (C3)	☐ Crayfish Burrows (C8)	
☐ Drift deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Stunted or Stressed Plants (D1)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☒ Geomorphic Position (D2)	
☐ Inundation Visible on Aerial Imagery (B7)	☒ Other (Explain in Remarks)	☐ Shallow Aquitard (D3)	
☐ Sparsely Vegetated Concave Surface (B8)		☐ 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:			
The APT analysis indicates climatic conditions were within normal at the time of the site visit. Wetland hydrology is considered naturally problematic due to lack of saturation or high water table within the upper 12 inches of the soil profile but best professional judgment indicates this area meets hydrology criteria due to a prior delineation that indicated other hydrology indicators were present at that time.			

VEGETATION - Use scientific names of plants.

Sampling Point: Wet 4-1

Tree Stratum (Plot size: 9' x 15')	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	0	☐	_____
2. _____	0	☐	_____
3. _____	0	☐	_____
4. _____	0	☐	_____
5. _____	0	☐	_____
6. _____	0	☐	_____
7. _____	0	☐	_____
0 = Total Cover			
Sapling/Shrub Stratum (Plot size: 9' x 15')	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	0	☐	_____
2. _____	0	☐	_____
3. _____	0	☐	_____
4. _____	0	☐	_____
5. _____	0	☐	_____
6. _____	0	☐	_____
7. _____	0	☐	_____
0 = Total Cover			
Herb Stratum (Plot size: 9' x 15')	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Geum canadense</i>	5	☒	FAC
2. <i>Symphyotrichum lateriflorum</i> var. <i>lateriflorum</i>	5	☒	FAC
3. <i>Rhamnus cathartica</i>	3	☒	FAC
4. <i>Fraxinus pennsylvanica</i>	2	☐	FACW
5. _____	0	☐	_____
6. _____	0	☐	_____
7. _____	0	☐	_____
8. _____	0	☐	_____
9. _____	0	☐	_____
10. _____	0	☐	_____
11. _____	0	☐	_____
12. _____	0	☐	_____
15 = Total Cover			
Woody Vine Stratum (Plot size: 9' x 15')	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	0	☐	_____
2. _____	0	☐	_____
3. _____	0	☐	_____
4. _____	0	☐	_____
0 = 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: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>2</u>	x 2 = <u>4</u>
FAC species <u>13</u>	x 3 = <u>39</u>
FACU species <u>0</u>	x 4 = <u>0</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>15</u> (A)	<u>43</u> (B)
Prevalence Index = B/A = <u>2.867</u>	

Hydrophytic Vegetation Indicators:

☐ Rapid Test for Hydrophytic Vegetation

☒ Dominance Test is > 50%

☒ Prevalence Index is ≤ 3.0 ¹

☐ 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 3.28 ft (1m) tall..

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

Woody vine - 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.)

Vegetation meets wetland criteria.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: Wet 4-1

[illegible]

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region**Project/Site:** Glenn Harsh Property**City/County:** Town of Belgium, Ozaukee Co,**Sampling Date:** 18-Oct-23**Applicant/Owner:** Glenn Harsh**State:** WI**Sampling Point:****Up 4-1****Investigator(s):** Ann Key, WDNR Professionally Assured**Section, Township, Range:** S. 18

T. 12N

R. 23E

Landform (hillslope, terrace, etc.): Sideslope**Local relief (concave, convex, none):** convex**Slope:** 2.0 % / 1.1**Subregion (LRR or MLRA):** LRR K**Lat.:** 43.5072871500**Long.:** -87.7953468400**Datum:** WGS84**Soil Map Unit Name:** Boyer loamy sand; 1 to 6 percent slopes; eroded**NWI classification:****Are climatic/hydrologic conditions on the site typical for this time of year?**Yes ☒ No ☐

(If no, explain in Remarks.)

Are Vegetation ☐ , **Soil** ☐ , **or Hydrology** ☐ **significantly disturbed?****Are "Normal Circumstances" present?**Yes ☒ No ☐**Are Vegetation** ☐ , **Soil** ☐ , **or Hydrology** ☐ **naturally problematic?**

(If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ☐ No ☒	Is the Sampled Area within a Wetland?	Yes ☐ No ☒
Hydric Soil Present?	Yes ☐ No ☒		
Wetland Hydrology Present?	Yes ☐ No ☒		

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

Although recent tree and shrub removal has been conducted on this property, the activities were done without removal of tree roots. Despite a limited amount of vegetation present in some areas, the Study Area was still considered to have normal circumstances.

Hydrology

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)	
Primary Indicators (minimum of one required; check all that apply)			
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ Marl Deposits (B15)	☐ Moss Trim Lines (B16)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Dry Season Water Table (C2)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres along Living Roots (C3)	☐ Crayfish Burrows (C8)	
☐ Drift deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Stunted or Stressed Plants (D1)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☐ Geomorphic Position (D2)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Other (Explain in Remarks)	☐ Shallow Aquitard (D3)	
☐ Sparsely Vegetated Concave Surface (B8)		☐ 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:			
The APT analysis indicates climatic conditions were within normal at the time of the site visit. No hydrology indicators were observed and this sample plot does not meet wetland hydrology criteria.			

VEGETATION - Use scientific names of plants.

Sampling Point: Up 4-1

Tree Stratum	(Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Pinus strobus</i>	15	☒	FACU
2.	<i>Fraxinus pennsylvanica</i>	15	☒	FACW
3.		0	☐	
4.		0	☐	
5.		0	☐	
6.		0	☐	
7.		0	☐	
		30	= Total Cover	
Sapling/Shrub Stratum	(Plot size: 15' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Rhamnus cathartica</i>	5	☒	FAC
2.		0	☐	
3.		0	☐	
4.		0	☐	
5.		0	☐	
6.		0	☐	
7.		0	☐	
		5	= Total Cover	
Herb Stratum	(Plot size: 5' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Berberis thunbergii</i>	25	☒	FACU
2.	<i>Lonicera tatarica</i>	10	☒	FACU
3.	<i>Carex pensylvanica</i>	10	☒	UPL
4.	<i>Rosa blanda</i>	5	☐	FACU
5.	<i>Geum canadense</i>	5	☐	FAC
6.	<i>Asclepias syriaca</i>	3	☐	UPL
7.		0	☐	
8.		0	☐	
9.		0	☐	
10.		0	☐	
11.		0	☐	
12.		0	☐	
		58	= Total Cover	
Woody Vine Stratum	(Plot size: 30' x 94')	Absolute % Cover	Dominant Species?	Indicator Status
1.		0	☐	
2.		0	☐	
3.		0	☐	
4.		0	☐	
		0	= Total Cover	

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>15</u>	x 2 = <u>30</u>
FAC species <u>10</u>	x 3 = <u>30</u>
FACU species <u>55</u>	x 4 = <u>220</u>
UPL species <u>13</u>	x 5 = <u>65</u>
Column Totals: <u>93</u> (A)	<u>345</u> (B)
Prevalence Index = B/A = <u>3.710</u>	

Hydrophytic Vegetation Indicators:

☐ Rapid Test for Hydrophytic Vegetation

☐ Dominance Test is > 50%

☐ Prevalence Index is ≤ 3.0 ¹

☐ 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 3.28 ft (1m) tall..

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

Woody vine - 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.)

Vegetation does not meet wetland criteria.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: Up 4-1

[illegible]

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Glenn Harsh Property

City/County: Town of Belgium, Ozaukee Co,

Sampling Date: 18-Oct-23

Applicant/Owner: Glenn Harsh

State: WI

Sampling Point:

Wet 5-1

Investigator(s): Ann Key, WDNR Professionally Assured

Section, Township, Range: S. 18

T. 12N

R. 23E

Landform (hillslope, terrace, etc.): Toeslope/Depression

Local relief (concave, convex, none): concave

Slope: 0.0 % / 0.0

Subregion (LRR or MLRA): LRR K

Lat.: 43.5075359500

Long.: -87.7952908200

Datum: WGS84

Soil Map Unit Name: Boyer loamy sand; 1 to 6 percent slopes; eroded

NWI classification:

Are climatic/hydrologic conditions on the site typical for this time of year?

Yes ☒ No ☐

(If no, explain in Remarks.)

Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ significantly disturbed?

Are "Normal Circumstances" present?

Yes ☒ No ☐Are Vegetation ☐ , Soil ☐ , or Hydrology ☒ naturally problematic?

(If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ☒ No ☐	Is the Sampled Area within a Wetland?	Yes ☒ No ☐
Hydric Soil Present?	Yes ☒ No ☐		
Wetland Hydrology Present?	Yes ☒ No ☐		
Remarks: (Explain alternative procedures here or in a separate report.) Although recent tree and shrub removal has been conducted on this property, the activities were done without removal of tree roots. Despite a limited amount of vegetation present, the Study Area was still considered to have normal circumstances. This wetland is classified as a remnant dune-swale.			

Hydrology

Wetland Hydrology Indicators:		<u>Secondary Indicators (minimum of 2 required)</u>	
Primary Indicators (minimum of one required; check all that apply)			
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ Marl Deposits (B15)	☐ Moss Trim Lines (B16)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Dry Season Water Table (C2)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres along Living Roots (C3)	☐ Crayfish Burrows (C8)	
☐ Drift deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Stunted or Stressed Plants (D1)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☒ Geomorphic Position (D2)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Other (Explain in Remarks)	☐ Shallow Aquitard (D3)	
☐ Sparsely Vegetated Concave Surface (B8)		☐ 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:			
The APT analysis indicates climatic conditions were within normal at the time of the site visit. Wetland hydrology is considered naturally problematic due to lack of saturation or high water table within the upper 12 inches of the soil profile but the sample plot still met wetland hydrology criteria through other hydrology indicators.			

VEGETATION - Use scientific names of plants.

Sampling Point: Wet 5-1

Tree Stratum	(Plot size: 26' x 67')	Absolute % Cover	Dominant Species?	Indicator Status
1.		0	☐	
2.		0	☐	
3.		0	☐	
4.		0	☐	
5.		0	☐	
6.		0	☐	
7.		0	☐	
		0	= Total Cover	

Sapling/Shrub Stratum	(Plot size: 26' x 27')	Absolute % Cover	Dominant Species?	Indicator Status
1.		0	☐	
2.		0	☐	
3.		0	☐	
4.		0	☐	
5.		0	☐	
6.		0	☐	
7.		0	☐	
		0	= Total Cover	

Herb Stratum	(Plot size: 5' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Phalaris arundinacea</i>		50	☒	FACW
2. <i>Bidens vulgata</i>		10	☐	FAC
3. <i>Impatiens capensis</i>		10	☐	FACW
4. <i>Solanum dulcamara</i>		5	☐	FAC
5.		0	☐	
6.		0	☐	
7.		0	☐	
8.		0	☐	
9.		0	☐	
10.		0	☐	
11.		0	☐	
12.		0	☐	
		75	= Total Cover	

Woody Vine Stratum	(Plot size: 26' x 67')	Absolute % Cover	Dominant Species?	Indicator Status
1.		0	☐	
2.		0	☐	
3.		0	☐	
4.		0	☐	
		0	= Total Cover	

Dominance Test worksheet:
 Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)
 Total Number of Dominant Species Across All Strata: 1 (B)
 Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>60</u>	x 2 = <u>120</u>
FAC species <u>15</u>	x 3 = <u>45</u>
FACU species <u>0</u>	x 4 = <u>0</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>75</u> (A)	<u>165</u> (B)

 Prevalence Index = B/A = 2.200

Hydrophytic Vegetation Indicators:
☒ Rapid Test for Hydrophytic Vegetation
☒ Dominance Test is > 50%
☒ Prevalence Index is ≤3.0 ¹
☐ 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 3.28 ft (1m) tall..
 Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
 Woody vine - 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.)

Vegetation meets wetland criteria.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: Wet 5-1

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

[illegible]

¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining. M=Matrix

Hydric Soil Indicators:

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

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, M)
- ☐ 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)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☒ No ☐

Remarks:

Soils meet hydric soil criteria.

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Glenn Harsh Property

City/County: Town of Belgium, Ozaukee Co,

Sampling Date: 18-Oct-23

Applicant/Owner: Glenn Harsh

State: WI

Sampling Point:

Up 5-1

Investigator(s): Ann Key, WDNR Professionally Assured

Section, Township, Range: S. 18

T. 12N

R. 23E

Landform (hillslope, terrace, etc.): Sideslope

Local relief (concave, convex, none): linear

Slope: 3.0 % / 1.7

Subregion (LRR or MLRA): LRR K

Lat.: 43.5075674000

Long.: -87.7951608100

Datum: WGS84

Soil Map Unit Name: Boyer loamy sand; 1 to 6 percent slopes; eroded

NWI classification:

Are climatic/hydrologic conditions on the site typical for this time of year?

Yes ☒ No ☐

(If no, explain in Remarks.)

Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ significantly disturbed?

Are "Normal Circumstances" present?

Yes ☒ No ☐Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic?

(If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ☐ No ☒	Is the Sampled Area within a Wetland?	Yes ☐ No ☒
Hydric Soil Present?	Yes ☐ No ☒		
Wetland Hydrology Present?	Yes ☐ No ☒		
Remarks: (Explain alternative procedures here or in a separate report.) Although recent tree and shrub removal has been conducted on this property, the activities were done without removal of tree roots. Despite a limited amount of vegetation present in some areas, the Study Area was still considered to have normal circumstances.			

Hydrology

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)	
Primary Indicators (minimum of one required; check all that apply)			
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ Marl Deposits (B15)	☐ Moss Trim Lines (B16)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Dry Season Water Table (C2)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres along Living Roots (C3)	☐ Crayfish Burrows (C8)	
☐ Drift deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Stunted or Stressed Plants (D1)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☐ Geomorphic Position (D2)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Other (Explain in Remarks)	☐ Shallow Aquitard (D3)	
☐ Sparsely Vegetated Concave Surface (B8)		☐ 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:			
The APT analysis indicates climatic conditions were within normal at the time of the site visit. No hydrology indicators were observed and this sample plot does not meet wetland hydrology criteria.			

VEGETATION - Use scientific names of plants.

Sampling Point: Up 5-1

Tree Stratum	(Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Picea glauca</i>		25	☒	FACU
2. <i>Betula papyrifera</i>		15	☒	FACU
3. _____		0	☐	
4. _____		0	☐	
5. _____		0	☐	
6. _____		0	☐	
7. _____		0	☐	
		40	= Total Cover	
Sapling/Shrub Stratum	(Plot size: 15' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Rhamnus cathartica</i>		10	☒	FAC
2. <i>Berberis thunbergii</i>		10	☒	FACU
3. _____		0	☐	
4. _____		0	☐	
5. _____		0	☐	
6. _____		0	☐	
7. _____		0	☐	
		20	= Total Cover	
Herb Stratum	(Plot size: 5' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Berberis thunbergii</i>		30	☒	FACU
2. <i>Carex pensylvanica</i>		20	☒	UPL
3. <i>Geum canadense</i>		10	☐	FAC
4. <i>Fraxinus pennsylvanica</i>		5	☐	FACW
5. <i>Lonicera tatarica</i>		5	☐	FACU
6. <i>Rhamnus cathartica</i>		5	☐	FAC
7. _____		0	☐	
8. _____		0	☐	
9. _____		0	☐	
10. _____		0	☐	
11. _____		0	☐	
12. _____		0	☐	
		75	= Total Cover	
Woody Vine Stratum	(Plot size: 30' x 94')	Absolute % Cover	Dominant Species?	Indicator Status
1. _____		0	☐	
2. _____		0	☐	
3. _____		0	☐	
4. _____		0	☐	
		0	= Total Cover	

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 16.7% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>5</u>	x 2 = <u>10</u>
FAC species <u>25</u>	x 3 = <u>75</u>
FACU species <u>85</u>	x 4 = <u>340</u>
UPL species <u>20</u>	x 5 = <u>100</u>
Column Totals: <u>135</u> (A)	<u>525</u> (B)
Prevalence Index = B/A = <u>3.889</u>	

Hydrophytic Vegetation Indicators:

☐ Rapid Test for Hydrophytic Vegetation

☐ Dominance Test is > 50%

☐ Prevalence Index is ≤ 3.0 ¹

☐ 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 3.28 ft (1m) tall..

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

Woody vine - 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.)

Vegetation does not meet wetland criteria.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: Up 5-1

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

[illegible]

¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: 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 Muck 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, M)
- ☐ 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)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☐ No ☒

Remarks:

Soils do not meet hydric soil criteria.

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Glenn Harsh Property

City/County: Town of Belgium, Ozaukee Co,

Sampling Date: 18-Oct-23

Applicant/Owner: Glenn Harsh

State: WI

Sampling Point:

Wet 6-1

Investigator(s): Ann Key, WDNR Professionally Assured

Section, Township, Range: S. 18

T. 12N

R. 23E

Landform (hillslope, terrace, etc.): Toeslope/Depression

Local relief (concave, convex, none): concave

Slope: 0.0 % / 0.0

Subregion (LRR or MLRA): LRR K

Lat.: 43.5074780800

Long.: -87.7954705200

Datum: WGS84

Soil Map Unit Name: Boyer loamy sand; 1 to 6 percent slopes; eroded

NWI classification:

Are climatic/hydrologic conditions on the site typical for this time of year?

Yes ☒ No ☐

(If no, explain in Remarks.)

Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ significantly disturbed?

Are "Normal Circumstances" present?

Yes ☒ No ☐Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic?

(If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ☒ No ☐	Is the Sampled Area within a Wetland?	Yes ☒ No ☐
Hydric Soil Present?	Yes ☒ No ☐		
Wetland Hydrology Present?	Yes ☒ No ☐		
Remarks: (Explain alternative procedures here or in a separate report.) Although recent tree and shrub removal has been conducted on this property, the activities were done without removal of tree roots. Despite a limited amount of vegetation present, the Study Area was still considered to have normal circumstances. This wetland is classified as a remnant dune-swale.			

Hydrology

Wetland Hydrology Indicators:		<u>Secondary Indicators (minimum of 2 required)</u>	
Primary Indicators (minimum of one required; check all that apply)			
☐ Surface Water (A1)	☒ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☒ Saturation (A3)	☐ Marl Deposits (B15)	☐ Moss Trim Lines (B16)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Dry Season Water Table (C2)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres along Living Roots (C3)	☐ Crayfish Burrows (C8)	
☐ Drift deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Stunted or Stressed Plants (D1)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☒ Geomorphic Position (D2)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Other (Explain in Remarks)	☐ Shallow Aquitard (D3)	
☒ Sparsely Vegetated Concave Surface (B8)		☐ 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):	0
Wetland Hydrology Present? Yes ☒ No ☐			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: The APT analysis indicates climatic conditions were within normal at the time of the site visit. Saturation was perched.			

VEGETATION - Use scientific names of plants.

Sampling Point: Wet 6-1

Tree Stratum	(Plot size: 25' x 38')	Absolute % Cover	Dominant Species?	Indicator Status
1.		0	☐	
2.		0	☐	
3.		0	☐	
4.		0	☐	
5.		0	☐	
6.		0	☐	
7.		0	☐	
		0	= Total Cover	
Sapling/Shrub Stratum	(Plot size: 25' x 28')	Absolute % Cover	Dominant Species?	Indicator Status
1.		0	☐	
2.		0	☐	
3.		0	☐	
4.		0	☐	
5.		0	☐	
6.		0	☐	
7.		0	☐	
		0	= Total Cover	
Herb Stratum	(Plot size: 5' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Solanum dulcamara</i>	3	☒	FAC
2.		0	☐	
3.		0	☐	
4.		0	☐	
5.		0	☐	
6.		0	☐	
7.		0	☐	
8.		0	☐	
9.		0	☐	
10.		0	☐	
11.		0	☐	
12.		0	☐	
		3	= Total Cover	
Woody Vine Stratum	(Plot size: 25' x 38')	Absolute % Cover	Dominant Species?	Indicator Status
1.		0	☐	
2.		0	☐	
3.		0	☐	
4.		0	☐	
		0	= Total Cover	

Dominance Test worksheet:

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

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

Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>0</u>	x 2 = <u>0</u>
FAC species <u>3</u>	x 3 = <u>9</u>
FACU species <u>0</u>	x 4 = <u>0</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>3</u> (A)	<u>9</u> (B)

Prevalence Index = B/A = 3.000

Hydrophytic Vegetation Indicators:

☐ Rapid Test for Hydrophytic Vegetation

☒ Dominance Test is > 50%

☒ Prevalence Index is ≤ 3.0 ¹

☐ 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 3.28 ft (1m) tall..

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

Woody vine - 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.)

Vegetation meets wetland criteria.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: Wet 6-1

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

[illegible]

¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: 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 Muck 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, M)
- ☐ 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)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☒ No ☐

Remarks:

Soils meet hydric soil criteria.

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Glenn Harsh Property

City/County: Town of Belgium, Ozaukee Co,

Sampling Date: 18-Oct-23

Applicant/Owner: Glenn Harsh

State: WI

Sampling Point:

Up 6-1

Investigator(s): Ann Key, WDNR Professionally Assured

Section, Township, Range: S. 18

T. 12N

R. 23E

Landform (hillslope, terrace, etc.): Sideslope

Local relief (concave, convex, none): linear

Slope: 3.0 % / 1.7

Subregion (LRR or MLRA): LRR K

Lat.: 43.5073855400

Long.: -87.7954781000

Datum: WGS84

Soil Map Unit Name: Boyer loamy sand; 1 to 6 percent slopes; eroded

NWI classification:

Are climatic/hydrologic conditions on the site typical for this time of year?

Yes ☒ No ☐

(If no, explain in Remarks.)

Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ significantly disturbed?

Are "Normal Circumstances" present?

Yes ☒ No ☐Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic?

(If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ☐ No ☒	Is the Sampled Area within a Wetland?	Yes ☐ No ☒
Hydric Soil Present?	Yes ☐ No ☒		
Wetland Hydrology Present?	Yes ☐ No ☒		
Remarks: (Explain alternative procedures here or in a separate report.) Although recent tree and shrub removal has been conducted on this property, the activities were done without removal of tree roots. Despite a limited amount of vegetation present in some areas, the Study Area was still considered to have normal circumstances.			

Hydrology

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)	
Primary Indicators (minimum of one required; check all that apply)			
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ Marl Deposits (B15)	☐ Moss Trim Lines (B16)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Dry Season Water Table (C2)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres along Living Roots (C3)	☐ Crayfish Burrows (C8)	
☐ Drift deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Stunted or Stressed Plants (D1)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☐ Geomorphic Position (D2)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Other (Explain in Remarks)	☐ Shallow Aquitard (D3)	
☐ Sparsely Vegetated Concave Surface (B8)		☐ 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:			
The APT analysis indicates climatic conditions were within normal at the time of the site visit. No hydrology indicators were observed and this sample plot does not meet wetland hydrology criteria.			

VEGETATION - Use scientific names of plants.

Sampling Point: Up 6-1

Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Pinus strobus</i>	50	☒	FACU
2.	0	☐	
3.	0	☐	
4.	0	☐	
5.	0	☐	
6.	0	☐	
7.	0	☐	
50 = Total Cover			
Sapling/Shrub Stratum (Plot size: 15' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Berberis thunbergii</i>	20	☒	FACU
2.	0	☐	
3.	0	☐	
4.	0	☐	
5.	0	☐	
6.	0	☐	
7.	0	☐	
20 = Total Cover			
Herb Stratum (Plot size: 5' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Cirsium arvense</i>	15	☒	FACU
2. <i>Solidago canadensis</i>	15	☒	FACU
3. <i>Fraxinus pennsylvanica</i>	10	☐	FACW
4. <i>Lonicera tatarica</i>	10	☐	FACU
5. <i>Symphotrichum lateriflorum</i> var. <i>lateriflorum</i>	5	☐	FAC
6.	0	☐	
7.	0	☐	
8.	0	☐	
9.	0	☐	
10.	0	☐	
11.	0	☐	
12.	0	☐	
55 = Total Cover			
Woody Vine Stratum (Plot size: 30' x 94')	Absolute % Cover	Dominant Species?	Indicator Status
1.	0	☐	
2.	0	☐	
3.	0	☐	
4.	0	☐	
0 = Total Cover			

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>10</u>	x 2 = <u>20</u>
FAC species <u>5</u>	x 3 = <u>15</u>
FACU species <u>110</u>	x 4 = <u>440</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>125</u> (A)	<u>475</u> (B)
Prevalence Index = B/A = <u>3.800</u>	

Hydrophytic Vegetation Indicators:

☐ Rapid Test for Hydrophytic Vegetation

☐ Dominance Test is > 50%

☐ Prevalence Index is ≤ 3.0 ¹

☐ 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 3.28 ft (1m) tall..

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

Woody vine - 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.)

Vegetation does not meet wetland criteria.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: Up 6-1

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

[illegible]

¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: 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 Muck 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, M)
- ☐ 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)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☐ No ☒

Remarks:

Soils do not meet hydric soil criteria.

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Glenn Harsh Property

City/County: Town of Belgium, Ozaukee Co,

Sampling Date: 18-Oct-23

Applicant/Owner: Glenn Harsh

State: WI

Sampling Point:

Wet 7-1

Investigator(s): Ann Key, WDNR Professionally Assured

Section, Township, Range: S. 18

T. 12N

R. 23E

Landform (hillslope, terrace, etc.): Toeslope/Depression

Local relief (concave, convex, none): concave

Slope: 0.0 % / 0.0

Subregion (LRR or MLRA): LRR K

Lat.: 43.5078418200

Long.: -87.7954379400

Datum: WGS84

Soil Map Unit Name: Boyer loamy sand; 1 to 6 percent slopes; eroded

NWI classification:

Are climatic/hydrologic conditions on the site typical for this time of year?

Yes ☒ No ☐

(If no, explain in Remarks.)

Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ significantly disturbed?

Are "Normal Circumstances" present?

Yes ☒ No ☐Are Vegetation ☐ , Soil ☐ , or Hydrology ☒ naturally problematic?

(If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ☒ No ☐	Is the Sampled Area within a Wetland?	Yes ☒ No ☐
Hydric Soil Present?	Yes ☒ No ☐		
Wetland Hydrology Present?	Yes ☒ No ☐		
Remarks: (Explain alternative procedures here or in a separate report.) Although recent tree and shrub removal has been conducted on this property, the activities were done without removal of tree roots. Despite a limited amount of vegetation present, the Study Area was still considered to have normal circumstances. This wetland is classified as a remnant dune-swale.			

Hydrology

Wetland Hydrology Indicators:		<u>Secondary Indicators (minimum of 2 required)</u>	
Primary Indicators (minimum of one required; check all that apply)			
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ Marl Deposits (B15)	☐ Moss Trim Lines (B16)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Dry Season Water Table (C2)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres along Living Roots (C3)	☐ Crayfish Burrows (C8)	
☐ Drift deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Stunted or Stressed Plants (D1)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☒ Geomorphic Position (D2)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Other (Explain in Remarks)	☐ Shallow Aquitard (D3)	
☒ Sparsely Vegetated Concave Surface (B8)		☐ Microtopographic Relief (D4)	
		☐ FAC-neutral Test (D5)	
Field Observations:			
Surface Water Present?	Yes ☐ No ☒	Depth (inches):	
Water Table Present?	Yes ☐ No ☒	Depth (inches):	-28
Saturation Present? (includes capillary fringe)	Yes ☐ No ☒	Depth (inches):	-24
		Wetland Hydrology Present?	Yes ☒ No ☐
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			
The APT analysis indicates climatic conditions were within normal at the time of the site visit. Hydrology is considered naturally problematic due to lack of saturation or water table but this sample plot meets wetland hydrology criteria through other hydrology indicators.			

VEGETATION - Use scientific names of plants.

Sampling Point: Wet 7-1

Tree Stratum (Plot size: 25' x 38')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	0	☐	_____	Number of Dominant Species That are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
2. _____	0	☐	_____	
3. _____	0	☐	_____	
4. _____	0	☐	_____	
5. _____	0	☐	_____	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>5</u> x 3 = <u>15</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>5</u> (A) <u>15</u> (B) Prevalence Index = B/A = <u>3.000</u>
6. _____	0	☐	_____	
7. _____	0	☐	_____	
0 = Total Cover				
Sapling/Shrub Stratum (Plot size: 25' x 28')				Hydrophytic Vegetation Indicators: ☐ Rapid Test for Hydrophytic Vegetation ☒ Dominance Test is > 50% ☒ Prevalence Index is ≤ 3.0 ¹ ☐ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation ¹ (Explain)
1. _____	0	☐	_____	
2. _____	0	☐	_____	
3. _____	0	☐	_____	
4. _____	0	☐	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5. _____	0	☐	_____	
6. _____	0	☐	_____	
7. _____	0	☐	_____	
8. _____	0	☐	_____	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 3.28 ft (1m) tall.. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height.
9. _____	0	☐	_____	
10. _____	0	☐	_____	
11. _____	0	☐	_____	
12. _____	0	☐	_____	Hydrophytic Vegetation Present? Yes ☒ No ☐
5 = Total Cover				
Woody Vine Stratum (Plot size: 25' x 38')				
1. _____	0	☐	_____	
2. _____	0	☐	_____	0 = Total Cover
3. _____	0	☐	_____	
4. _____	0	☐	_____	
0 = Total Cover				

Remarks: (Include photo numbers here or on a separate sheet.)
 Vegetation meets wetland criteria.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: Wet 7-1

[illegible]

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region**Project/Site:** Glenn Harsh Property**City/County:** Town of Belgium, Ozaukee Co,**Sampling Date:** 18-Oct-23**Applicant/Owner:** Glenn Harsh**State:** WI**Sampling Point:****Up 7-1****Investigator(s):** Ann Key, WDNR Professionally Assured**Section, Township, Range:** S. 18

T. 12N

R. 23E

Landform (hillslope, terrace, etc.): Sideslope**Local relief (concave, convex, none):** linear**Slope:** 4.0 % / 2.3**Subregion (LRR or MLRA):** LRR K**Lat.:** 43.5078864400**Long.:** -87.7953375900**Datum:** WGS84**Soil Map Unit Name:** Boyer loamy sand; 1 to 6 percent slopes; eroded**NWI classification:****Are climatic/hydrologic conditions on the site typical for this time of year?**Yes ☒ No ☐

(If no, explain in Remarks.)

Are Vegetation ☐ , **Soil** ☐ , **or Hydrology** ☐ **significantly disturbed?****Are "Normal Circumstances" present?**Yes ☒ No ☐**Are Vegetation** ☐ , **Soil** ☐ , **or Hydrology** ☐ **naturally problematic?**

(If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ☐ No ☒	Is the Sampled Area within a Wetland?	Yes ☐ No ☒
Hydric Soil Present?	Yes ☐ No ☒		
Wetland Hydrology Present?	Yes ☐ No ☒		
Remarks: (Explain alternative procedures here or in a separate report.)			
Although recent tree and shrub removal has been conducted on this property, the activities were done without removal of tree roots. Despite a limited amount of vegetation present in some areas, the Study Area was still considered to have normal circumstances.			

Hydrology

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)	
Primary Indicators (minimum of one required; check all that apply)			
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ Marl Deposits (B15)	☐ Moss Trim Lines (B16)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Dry Season Water Table (C2)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres along Living Roots (C3)	☐ Crayfish Burrows (C8)	
☐ Drift deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Stunted or Stressed Plants (D1)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☐ Geomorphic Position (D2)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Other (Explain in Remarks)	☐ Shallow Aquitard (D3)	
☐ Sparsely Vegetated Concave Surface (B8)		☐ 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:			
The APT analysis indicates climatic conditions were within normal at the time of the site visit. No hydrology indicators were observed and this sample plot does not meet wetland hydrology criteria.			

VEGETATION - Use scientific names of plants.

Sampling Point: Up 7-1

Tree Stratum	(Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Pinus strobus</i>	60	☒	FACU
2.	<i>Picea glauca</i>	40	☒	FACU
3.		0	☐	
4.		0	☐	
5.		0	☐	
6.		0	☐	
7.		0	☐	
		100	= Total Cover	
Sapling/Shrub Stratum	(Plot size: 15' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Berberis thunbergii</i>	30	☒	FACU
2.	<i>Elaeagnus umbellata</i>	15	☒	UPL
3.		0	☐	
4.		0	☐	
5.		0	☐	
6.		0	☐	
7.		0	☐	
		45	= Total Cover	
Herb Stratum	(Plot size: 5' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Berberis thunbergii</i>	25	☒	FACU
2.	<i>Fraxinus pennsylvanica</i>	10	☒	FACW
3.	<i>Parthenocissus quinquefolia</i>	5	☐	FACU
4.		0	☐	
5.		0	☐	
6.		0	☐	
7.		0	☐	
8.		0	☐	
9.		0	☐	
10.		0	☐	
11.		0	☐	
12.		0	☐	
		40	= Total Cover	
Woody Vine Stratum	(Plot size: 30' x 94')	Absolute % Cover	Dominant Species?	Indicator Status
1.		0	☐	
2.		0	☐	
3.		0	☐	
4.		0	☐	
		0	= Total Cover	

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 16.7% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>10</u>	x 2 = <u>20</u>
FAC species <u>0</u>	x 3 = <u>0</u>
FACU species <u>160</u>	x 4 = <u>640</u>
UPL species <u>15</u>	x 5 = <u>75</u>
Column Totals: <u>185</u> (A)	<u>735</u> (B)
Prevalence Index = B/A = <u>3.973</u>	

Hydrophytic Vegetation Indicators:

☐ Rapid Test for Hydrophytic Vegetation

☐ Dominance Test is > 50%

☐ Prevalence Index is ≤ 3.0 ¹

☐ 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 3.28 ft (1m) tall..

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

Woody vine - 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.)

Vegetation does not meet wetland criteria.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: Up 7-1

[illegible]

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Glenn Harsh Property

City/County: Town of Belgium, Ozaukee Co,

Sampling Date: 18-Oct-23

Applicant/Owner: Glenn Harsh

State: WI

Sampling Point:

Wet 8-1

Investigator(s): Ann Key, WDNR Professionally Assured

Section, Township, Range: S. 18

T. 12N

R. 23E

Landform (hillslope, terrace, etc.): Toeslope/Depression

Local relief (concave, convex, none): concave

Slope: 0.0 % / 0.0

Subregion (LRR or MLRA): LRR K

Lat.: 43.5077115000

Long.: -87.7948124300

Datum: WGS84

Soil Map Unit Name: Boyer loamy sand; 1 to 6 percent slopes; eroded

NWI classification:

Are climatic/hydrologic conditions on the site typical for this time of year?

Yes ☒ No ☐

(If no, explain in Remarks.)

Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ significantly disturbed?

Are "Normal Circumstances" present?

Yes ☒ No ☐Are Vegetation ☐ , Soil ☐ , or Hydrology ☒ naturally problematic?

(If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ☒ No ☐	Is the Sampled Area within a Wetland?	Yes ☒ No ☐
Hydric Soil Present?	Yes ☒ No ☐		
Wetland Hydrology Present?	Yes ☒ No ☐		
Remarks: (Explain alternative procedures here or in a separate report.) Although recent tree and shrub removal has been conducted on this property, the activities were done without removal of tree roots. Despite a limited amount of vegetation present, the Study Area was still considered to have normal circumstances. This wetland is classified as a remnant dune-swale.			

Hydrology

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)	
Primary Indicators (minimum of one required; check all that apply)			
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ Marl Deposits (B15)	☐ Moss Trim Lines (B16)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Dry Season Water Table (C2)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres along Living Roots (C3)	☐ Crayfish Burrows (C8)	
☐ Drift deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Stunted or Stressed Plants (D1)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☒ Geomorphic Position (D2)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Other (Explain in Remarks)	☐ Shallow Aquitard (D3)	
☒ Sparsely Vegetated Concave Surface (B8)		☐ 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:			
The APT analysis indicates climatic conditions were within normal at the time of the site visit. Hydrology is considered naturally problematic due to lack of saturation or water table but this sample plot meets wetland hydrology criteria through other hydrology indicators.			

VEGETATION - Use scientific names of plants.

Sampling Point: Wet 8-1

Tree Stratum	(Plot size: 22' x 55')	Absolute % Cover	Dominant Species?	Indicator Status
1.		0	☐	
2.		0	☐	
3.		0	☐	
4.		0	☐	
5.		0	☐	
6.		0	☐	
7.		0	☐	
		0	= Total Cover	
Sapling/Shrub Stratum	(Plot size: 22' x 32')	Absolute % Cover	Dominant Species?	Indicator Status
1.		0	☐	
2.		0	☐	
3.		0	☐	
4.		0	☐	
5.		0	☐	
6.		0	☐	
7.		0	☐	
		0	= Total Cover	
Herb Stratum	(Plot size: 5' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Symphyotrichum lateriflorum</i> var. <i>lateriflorum</i>	2	☒	FAC
2.		0	☐	
3.		0	☐	
4.		0	☐	
5.		0	☐	
6.		0	☐	
7.		0	☐	
8.		0	☐	
9.		0	☐	
10.		0	☐	
11.		0	☐	
12.		0	☐	
		2	= Total Cover	
Woody Vine Stratum	(Plot size: 22' x 55')	Absolute % Cover	Dominant Species?	Indicator Status
1.		0	☐	
2.		0	☐	
3.		0	☐	
4.		0	☐	
		0	= Total Cover	

Dominance Test worksheet:

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

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

Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>0</u>	x 2 = <u>0</u>
FAC species <u>2</u>	x 3 = <u>6</u>
FACU species <u>0</u>	x 4 = <u>0</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>2</u> (A)	<u>6</u> (B)

Prevalence Index = B/A = 3.000

Hydrophytic Vegetation Indicators:

☐ Rapid Test for Hydrophytic Vegetation

☒ Dominance Test is > 50%

☒ Prevalence Index is ≤ 3.0 ¹

☐ 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 3.28 ft (1m) tall..

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

Woody vine - 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.)

Vegetation meets wetland criteria.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: Wet 8-1

[illegible]

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Glenn Harsh Property

City/County: Town of Belgium, Ozaukee Co,

Sampling Date: 18-Oct-23

Applicant/Owner: Glenn Harsh

State: WI

Sampling Point:

Up 8-1

Investigator(s): Ann Key, WDNR Professionally Assured

Section, Township, Range: S. 18

T. 12N

R. 23E

Landform (hillslope, terrace, etc.): Sideslope

Local relief (concave, convex, none): convex

Slope: 3.0 % / 1.7

Subregion (LRR or MLRA): LRR K

Lat.: 43.5075296200

Long.: -87.7947486100

Datum: WGS84

Soil Map Unit Name: Boyer loamy sand; 1 to 6 percent slopes; eroded

NWI classification:

Are climatic/hydrologic conditions on the site typical for this time of year?

Yes ☒ No ☐

(If no, explain in Remarks.)

Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ significantly disturbed?

Are "Normal Circumstances" present?

Yes ☒ No ☐Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic?

(If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ☐ No ☒	Is the Sampled Area within a Wetland?	Yes ☐ No ☒
Hydric Soil Present?	Yes ☐ No ☒		
Wetland Hydrology Present?	Yes ☐ No ☒		

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

Although recent tree and shrub removal has been conducted on this property, the activities were done without removal of tree roots. Despite a limited amount of vegetation present in some areas, the Study Area was still considered to have normal circumstances.

Hydrology

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)	
Primary Indicators (minimum of one required; check all that apply)			
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ Marl Deposits (B15)	☐ Moss Trim Lines (B16)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Dry Season Water Table (C2)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres along Living Roots (C3)	☐ Crayfish Burrows (C8)	
☐ Drift deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Stunted or Stressed Plants (D1)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☐ Geomorphic Position (D2)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Other (Explain in Remarks)	☐ Shallow Aquitard (D3)	
☐ Sparsely Vegetated Concave Surface (B8)		☐ 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:			
The APT analysis indicates climatic conditions were within normal at the time of the site visit. No hydrology indicators were observed and this sample plot does not meet wetland hydrology criteria.			

VEGETATION - Use scientific names of plants.

Sampling Point: Up 8-1

Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Betula papyrifera</i>	20	☒	FACU
2. <i>Picea glauca</i>	5	☒	FACU
3. _____	0	☐	_____
4. _____	0	☐	_____
5. _____	0	☐	_____
6. _____	0	☐	_____
7. _____	0	☐	_____
25 = Total Cover			
Sapling/Shrub Stratum (Plot size: 15' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Rhamnus cathartica</i>	10	☒	FAC
2. <i>Picea glauca</i>	2	☐	FACU
3. _____	0	☐	_____
4. _____	0	☐	_____
5. _____	0	☐	_____
6. _____	0	☐	_____
7. _____	0	☐	_____
12 = Total Cover			
Herb Stratum (Plot size: 5' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Solidago canadensis</i>	10	☒	FACU
2. <i>Rhamnus cathartica</i>	10	☒	FAC
3. <i>Berberis thunbergii</i>	10	☒	FACU
4. _____	0	☐	_____
5. _____	0	☐	_____
6. _____	0	☐	_____
7. _____	0	☐	_____
8. _____	0	☐	_____
9. _____	0	☐	_____
10. _____	0	☐	_____
11. _____	0	☐	_____
12. _____	0	☐	_____
30 = Total Cover			
Woody Vine Stratum (Plot size: 30' x 94')	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	0	☐	_____
2. _____	0	☐	_____
3. _____	0	☐	_____
4. _____	0	☐	_____
0 = Total Cover			

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>0</u>	x 2 = <u>0</u>
FAC species <u>20</u>	x 3 = <u>60</u>
FACU species <u>47</u>	x 4 = <u>188</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>67</u> (A)	<u>248</u> (B)
Prevalence Index = B/A = <u>3.701</u>	

Hydrophytic Vegetation Indicators:

☐ Rapid Test for Hydrophytic Vegetation

☐ Dominance Test is > 50%

☐ Prevalence Index is ≤ 3.0 ¹

☐ 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 3.28 ft (1m) tall..

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

Woody vine - 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.)

Vegetation does not meet wetland criteria.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

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

[illegible]

¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: 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 Muck 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, M)
- ☐ 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)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☐ No ☒

Remarks:

Soils do not meet hydric soil criteria.

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Glenn Harsh Property

City/County: Town of Belgium, Ozaukee Co,

Sampling Date: 18-Oct-23

Applicant/Owner: Glenn Harsh

State: WI

Sampling Point:

Wet 9-1

Investigator(s): Ann Key, WDNR Professionally Assured

Section, Township, Range: S. 18

T. 12N

R. 23E

Landform (hillslope, terrace, etc.): Toeslope/Depression

Local relief (concave, convex, none): concave

Slope: 0.0 % / 0.0

Subregion (LRR or MLRA): LRR K

Lat.: 43.5074219800

Long.: -87.7947894400

Datum: WGS84

Soil Map Unit Name: Boyer loamy sand; 1 to 6 percent slopes; eroded

NWI classification:

Are climatic/hydrologic conditions on the site typical for this time of year?

Yes ☒ No ☐

(If no, explain in Remarks.)

Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ significantly disturbed?

Are "Normal Circumstances" present?

Yes ☒ No ☐Are Vegetation ☐ , Soil ☐ , or Hydrology ☒ naturally problematic?

(If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ☒ No ☐	Is the Sampled Area within a Wetland?	Yes ☒ No ☐
Hydric Soil Present?	Yes ☒ No ☐		
Wetland Hydrology Present?	Yes ☒ No ☐		
Remarks: (Explain alternative procedures here or in a separate report.) Although recent tree and shrub removal has been conducted on this property, the activities were done without removal of tree roots. Despite a limited amount of vegetation present, the Study Area was still considered to have normal circumstances. This wetland is classified as a remnant dune-swale.			

Hydrology

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)	
Primary Indicators (minimum of one required; check all that apply)			
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ Marl Deposits (B15)	☐ Moss Trim Lines (B16)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Dry Season Water Table (C2)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres along Living Roots (C3)	☐ Crayfish Burrows (C8)	
☐ Drift deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Stunted or Stressed Plants (D1)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☒ Geomorphic Position (D2)	
☐ Inundation Visible on Aerial Imagery (B7)	☒ Other (Explain in Remarks)	☐ Shallow Aquitard (D3)	
☐ Sparsely Vegetated Concave Surface (B8)		☐ 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:			
The APT analysis indicates climatic conditions were within normal at the time of the site visit. Wetland hydrology is considered naturally problematic due to lack of saturation or high water table within the upper 12 inches of the soil profile but best professional judgment indicates this area meets hydrology criteria due to a prior delineation that indicated such.			

VEGETATION - Use scientific names of plants.

Sampling Point: Wet 9-1

Tree Stratum	(Plot size: 24' x 72')	Absolute % Cover	Dominant Species?	Indicator Status
1.		0	☐	
2.		0	☐	
3.		0	☐	
4.		0	☐	
5.		0	☐	
6.		0	☐	
7.		0	☐	
		0	= Total Cover	

Sapling/Shrub Stratum	(Plot size: 24' x 29')	Absolute % Cover	Dominant Species?	Indicator Status
1.		0	☐	
2.		0	☐	
3.		0	☐	
4.		0	☐	
5.		0	☐	
6.		0	☐	
7.		0	☐	
		0	= Total Cover	

Herb Stratum	(Plot size: 5' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Symphyotrichum lateriflorum</i> var. <i>lateriflorum</i>		30	☒	FAC
2. <i>Rhamnus cathartica</i>		15	☒	FAC
3. <i>Solanum dulcamara</i>		5	☐	FAC
4. <i>Solidago gigantea</i>		3	☐	FACW
5.		0	☐	
6.		0	☐	
7.		0	☐	
8.		0	☐	
9.		0	☐	
10.		0	☐	
11.		0	☐	
12.		0	☐	
		53	= Total Cover	

Woody Vine Stratum	(Plot size: 24' x 72')	Absolute % Cover	Dominant Species?	Indicator Status
1.		0	☐	
2.		0	☐	
3.		0	☐	
4.		0	☐	
		0	= Total Cover	

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

Vegetation meets wetland criteria.

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: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>3</u>	x 2 = <u>6</u>
FAC species <u>50</u>	x 3 = <u>150</u>
FACU species <u>0</u>	x 4 = <u>0</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>53</u> (A)	<u>156</u> (B)
Prevalence Index = B/A = <u>2.943</u>	

Hydrophytic Vegetation Indicators:

☐ Rapid Test for Hydrophytic Vegetation

☒ Dominance Test is > 50%

☒ Prevalence Index is ≤ 3.0 ¹

☐ 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 3.28 ft (1m) tall..

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

Woody vine - All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ☒ No ☐

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: Wet 9-1

[illegible]

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Glenn Harsh Property

City/County: Town of Belgium, Ozaukee Co,

Sampling Date: 18-Oct-23

Applicant/Owner: Glenn Harsh

State: WI

Sampling Point:

Up 9-1

Investigator(s): Ann Key, WDNR Professionally Assured

Section, Township, Range: S. 18

T. 12N

R. 23E

Landform (hillslope, terrace, etc.): Sideslope

Local relief (concave, convex, none): convex

Slope: 3.0 % / 1.7

Subregion (LRR or MLRA): LRR K

Lat.: 43.5075296200

Long.: -87.7947486100

Datum: WGS84

Soil Map Unit Name: Boyer loamy sand; 1 to 6 percent slopes; eroded

NWI classification:

Are climatic/hydrologic conditions on the site typical for this time of year?

Yes ☒ No ☐

(If no, explain in Remarks.)

Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ significantly disturbed?

Are "Normal Circumstances" present?

Yes ☒ No ☐Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic?

(If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ☐ No ☒	Is the Sampled Area within a Wetland?	Yes ☐ No ☒
Hydric Soil Present?	Yes ☐ No ☒		
Wetland Hydrology Present?	Yes ☐ No ☒		
Remarks: (Explain alternative procedures here or in a separate report.) Although recent tree and shrub removal has been conducted on this property, the activities were done without removal of tree roots. Despite a limited amount of vegetation present in some areas, the Study Area was still considered to have normal circumstances.			

Hydrology

Wetland Hydrology Indicators:		<u>Secondary Indicators (minimum of 2 required)</u>	
Primary Indicators (minimum of one required; check all that apply)			
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ Marl Deposits (B15)	☐ Moss Trim Lines (B16)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Dry Season Water Table (C2)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres along Living Roots (C3)	☐ Crayfish Burrows (C8)	
☐ Drift deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Stunted or Stressed Plants (D1)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☐ Geomorphic Position (D2)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Other (Explain in Remarks)	☐ Shallow Aquitard (D3)	
☐ Sparsely Vegetated Concave Surface (B8)		☐ 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:			
The APT analysis indicates climatic conditions were within normal at the time of the site visit. No hydrology indicators were observed and this sample plot does not meet wetland hydrology criteria.			

VEGETATION - Use scientific names of plants.

Sampling Point: Up 9-1

Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Betula papyrifera</i>	20	☒	FACU
2. <i>Picea glauca</i>	5	☒	FACU
3.	0	☐	
4.	0	☐	
5.	0	☐	
6.	0	☐	
7.	0	☐	
25 = Total Cover			
Sapling/Shrub Stratum (Plot size: 15' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Rhamnus cathartica</i>	10	☒	FAC
2. <i>Picea glauca</i>	2	☐	FACU
3.	0	☐	
4.	0	☐	
5.	0	☐	
6.	0	☐	
7.	0	☐	
12 = Total Cover			
Herb Stratum (Plot size: 5' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Solidago canadensis</i>	10	☒	FACU
2. <i>Rhamnus cathartica</i>	10	☒	FAC
3. <i>Berberis thunbergii</i>	10	☒	FACU
4.	0	☐	
5.	0	☐	
6.	0	☐	
7.	0	☐	
8.	0	☐	
9.	0	☐	
10.	0	☐	
11.	0	☐	
12.	0	☐	
30 = Total Cover			
Woody Vine Stratum (Plot size: 30' x 94')	Absolute % Cover	Dominant Species?	Indicator Status
1.	0	☐	
2.	0	☐	
3.	0	☐	
4.	0	☐	
0 = Total Cover			

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>0</u>	x 2 = <u>0</u>
FAC species <u>20</u>	x 3 = <u>60</u>
FACU species <u>47</u>	x 4 = <u>188</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>67</u> (A)	<u>248</u> (B)
Prevalence Index = B/A = <u>3.701</u>	

Hydrophytic Vegetation Indicators:

☐ Rapid Test for Hydrophytic Vegetation

☐ Dominance Test is > 50%

☐ Prevalence Index is ≤ 3.0 ¹

☐ 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 3.28 ft (1m) tall..

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

Woody vine - 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.)

Vegetation does not meet wetland criteria.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: Up 9-1

[illegible]

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Glenn Harsh Property

City/County: Town of Belgium, Ozaukee Co,

Sampling Date: 18-Oct-23

Applicant/Owner: Glenn Harsh

State: WI

Sampling Point:

Wet 10-1

Investigator(s): Ann Key, WDNR Professionally Assured

Section, Township, Range: S. 18

T. 12N

R. 23E

Landform (hillslope, terrace, etc.): Toeslope/Depression

Local relief (concave, convex, none): concave

Slope: 0.0 % / 0.0

Subregion (LRR or MLRA): LRR K

Lat.: 43.5077101100

Long.: -87.7945470000

Datum: WGS84

Soil Map Unit Name: Boyer loamy sand; 1 to 6 percent slopes; eroded

NWI classification:

Are climatic/hydrologic conditions on the site typical for this time of year?

Yes ☒ No ☐

(If no, explain in Remarks.)

Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ significantly disturbed?

Are "Normal Circumstances" present?

Yes ☒ No ☐Are Vegetation ☐ , Soil ☐ , or Hydrology ☒ naturally problematic?

(If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ☒ No ☐	Is the Sampled Area within a Wetland?	Yes ☒ No ☐
Hydric Soil Present?	Yes ☒ No ☐		
Wetland Hydrology Present?	Yes ☒ No ☐		
Remarks: (Explain alternative procedures here or in a separate report.) Although recent tree and shrub removal has been conducted on this property, the activities were done without removal of tree roots. Despite a limited amount of vegetation present in some areas, the Study Area was still considered to have normal circumstances. This wetland is classified as a remnant dune-swale.			

Hydrology

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)	
Primary Indicators (minimum of one required; check all that apply)			
☐ Surface Water (A1)	☒ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ Marl Deposits (B15)	☐ Moss Trim Lines (B16)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Dry Season Water Table (C2)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres along Living Roots (C3)	☐ Crayfish Burrows (C8)	
☐ Drift deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Stunted or Stressed Plants (D1)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☒ Geomorphic Position (D2)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Other (Explain in Remarks)	☐ Shallow Aquitard (D3)	
☐ Sparsely Vegetated Concave Surface (B8)		☐ 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:			
The APT analysis indicates climatic conditions were within normal at the time of the site visit. Wetland hydrology is considered naturally problematic due to lack of saturation or high water table within the upper 12 inches of the soil profile but the sample plot still met wetland hydrology criteria through other hydrology indicators.			

VEGETATION - Use scientific names of plants.

Sampling Point: Wet 10-1

Tree Stratum	(Plot size: 18' x 95')	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Populus deltoides</i>		10	☒	FAC
2.		0	☐	
3.		0	☐	
4.		0	☐	
5.		0	☐	
6.		0	☐	
7.		0	☐	
		10	= Total Cover	
Sapling/Shrub Stratum	(Plot size: 18' x 39')	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Alnus incana ssp. rugosa</i>		20	☒	FACW
2.		0	☐	
3.		0	☐	
4.		0	☐	
5.		0	☐	
6.		0	☐	
7.		0	☐	
		20	= Total Cover	
Herb Stratum	(Plot size: 5' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Fraxinus pennsylvanica</i>		10	☒	FACW
2. <i>Solanum ptycanthum</i>		10	☒	FACU
3. <i>Solanum dulcamara</i>		5	☐	FAC
4. <i>Solidago gigantea</i>		3	☐	FACW
5.		0	☐	
6.		0	☐	
7.		0	☐	
8.		0	☐	
9.		0	☐	
10.		0	☐	
11.		0	☐	
12.		0	☐	
		28	= Total Cover	
Woody Vine Stratum	(Plot size: 18' x 95')	Absolute % Cover	Dominant Species?	Indicator Status
1.		0	☐	
2.		0	☐	
3.		0	☐	
4.		0	☐	
		0	= 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: 4 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>33</u>	x 2 = <u>66</u>
FAC species <u>15</u>	x 3 = <u>45</u>
FACU species <u>10</u>	x 4 = <u>40</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>58</u> (A)	<u>151</u> (B)
Prevalence Index = B/A = <u>2.603</u>	

Hydrophytic Vegetation Indicators:

☐ Rapid Test for Hydrophytic Vegetation

☒ Dominance Test is > 50%

☒ Prevalence Index is ≤ 3.0 ¹

☐ 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 3.28 ft (1m) tall..

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

Woody vine - 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.)

Vegetation meets wetland criteria.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: Wet 10-1

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

[illegible]

¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining. M=Matrix

Hydric Soil Indicators:

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

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, M)
- ☐ 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)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☒ No ☐

Remarks:

Soils meet hydric soil criteria.

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Glenn Harsh Property

City/County: Town of Belgium, Ozaukee Co,

Sampling Date: 18-Oct-23

Applicant/Owner: Glenn Harsh

State: WI

Sampling Point:

Up 10-1

Investigator(s): Ann Key, WDNR Professionally Assured

Section, Township, Range: S. 18

T. 12N

R. 23E

Landform (hillslope, terrace, etc.): Shoulder slope

Local relief (concave, convex, none): convex

Slope: 4.0 % / 2.3

Subregion (LRR or MLRA): LRR K

Lat.: 43.5077067900

Long.: -87.7944022700

Datum: WGS84

Soil Map Unit Name: Boyer loamy sand; 1 to 6 percent slopes; eroded

NWI classification:

Are climatic/hydrologic conditions on the site typical for this time of year?

Yes ☒ No ☐

(If no, explain in Remarks.)

Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ significantly disturbed?

Are "Normal Circumstances" present?

Yes ☒ No ☐Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic?

(If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ☐ No ☒	Is the Sampled Area within a Wetland?	Yes ☐ No ☒
Hydric Soil Present?	Yes ☐ No ☒		
Wetland Hydrology Present?	Yes ☐ No ☒		
Remarks: (Explain alternative procedures here or in a separate report.) Although recent tree and shrub removal has been conducted on this property, the activities were done without removal of tree roots. Despite a limited amount of vegetation present in some areas, the Study Area was still considered to have normal circumstances.			

Hydrology

Wetland Hydrology Indicators:		<u>Secondary Indicators (minimum of 2 required)</u>	
Primary Indicators (minimum of one required; check all that apply)			
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ Marl Deposits (B15)	☐ Moss Trim Lines (B16)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Dry Season Water Table (C2)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres along Living Roots (C3)	☐ Crayfish Burrows (C8)	
☐ Drift deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Stunted or Stressed Plants (D1)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☐ Geomorphic Position (D2)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Other (Explain in Remarks)	☐ Shallow Aquitard (D3)	
☐ Sparsely Vegetated Concave Surface (B8)		☐ 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:			
The APT analysis indicates climatic conditions were within normal at the time of the site visit. No hydrology indicators were observed and this sample plot does not meet wetland hydrology criteria.			

VEGETATION - Use scientific names of plants.

Sampling Point: Up 10-1

Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Populus deltoides</i>	30	☒	FAC
2. <i>Picea glauca</i>	30	☒	FACU
3. _____	0	☐	_____
4. _____	0	☐	_____
5. _____	0	☐	_____
6. _____	0	☐	_____
7. _____	0	☐	_____
60 = Total Cover			
Sapling/Shrub Stratum (Plot size: 15' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	0	☐	_____
2. _____	0	☐	_____
3. _____	0	☐	_____
4. _____	0	☐	_____
5. _____	0	☐	_____
6. _____	0	☐	_____
7. _____	0	☐	_____
0 = Total Cover			
Herb Stratum (Plot size: 5' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Rhamnus cathartica</i>	20	☒	FAC
2. <i>Asclepias syriaca</i>	10	☒	UPL
3. <i>Berberis thunbergii</i>	10	☒	FACU
4. <i>Parthenocissus quinquefolia</i>	5	☐	FACU
5. <i>Rosa blanda</i>	5	☐	FACU
6. _____	0	☐	_____
7. _____	0	☐	_____
8. _____	0	☐	_____
9. _____	0	☐	_____
10. _____	0	☐	_____
11. _____	0	☐	_____
12. _____	0	☐	_____
50 = Total Cover			
Woody Vine Stratum (Plot size: 30' x 94')	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	0	☐	_____
2. _____	0	☐	_____
3. _____	0	☐	_____
4. _____	0	☐	_____
0 = Total Cover			

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 40.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>0</u>	x 2 = <u>0</u>
FAC species <u>50</u>	x 3 = <u>150</u>
FACU species <u>50</u>	x 4 = <u>200</u>
UPL species <u>10</u>	x 5 = <u>50</u>
Column Totals: <u>110</u> (A)	<u>400</u> (B)

Prevalence Index = B/A = 3.636

Hydrophytic Vegetation Indicators:

☐ Rapid Test for Hydrophytic Vegetation

☐ Dominance Test is > 50%

☐ Prevalence Index is ≤ 3.0 ¹

☐ 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 3.28 ft (1m) tall..

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

Woody vine - 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.)

Vegetation does not meet wetland criteria.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: Up 10-1

[illegible]

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Glenn Harsh Property

City/County: Town of Belgium, Ozaukee Co,

Sampling Date: 18-Oct-23

Applicant/Owner: Glenn Harsh

State: WI

Sampling Point:

Wet 11-1

Investigator(s): Ann Key, WDNR Professionally Assured

Section, Township, Range: S. 18

T. 12N

R. 23E

Landform (hillslope, terrace, etc.): Toeslope/Depression

Local relief (concave, convex, none): concave

Slope: 0.0 % / 0.0

Subregion (LRR or MLRA): LRR K

Lat.: 43.5073402600

Long.: -87.7943317100

Datum: WGS84

Soil Map Unit Name: Boyer loamy sand; 1 to 6 percent slopes; eroded

NWI classification:

Are climatic/hydrologic conditions on the site typical for this time of year?

Yes ☒ No ☐

(If no, explain in Remarks.)

Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ significantly disturbed?

Are "Normal Circumstances" present?

Yes ☒ No ☐Are Vegetation ☐ , Soil ☐ , or Hydrology ☒ naturally problematic?

(If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ☒ No ☐	Is the Sampled Area within a Wetland?	Yes ☒ No ☐
Hydric Soil Present?	Yes ☒ No ☐		
Wetland Hydrology Present?	Yes ☒ No ☐		
Remarks: (Explain alternative procedures here or in a separate report.) Although recent tree and shrub removal has been conducted on this property, the activities were done without removal of tree roots. Despite a limited amount of vegetation present, the Study Area was still considered to have normal circumstances. This wetland is classified as a remnant dune-swale.			

Hydrology

Wetland Hydrology Indicators:		<u>Secondary Indicators (minimum of 2 required)</u>	
Primary Indicators (minimum of one required; check all that apply)			
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ Marl Deposits (B15)	☐ Moss Trim Lines (B16)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Dry Season Water Table (C2)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres along Living Roots (C3)	☐ Crayfish Burrows (C8)	
☐ Drift deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Stunted or Stressed Plants (D1)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☒ Geomorphic Position (D2)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Other (Explain in Remarks)	☐ Shallow Aquitard (D3)	
☒ Sparsely Vegetated Concave Surface (B8)		☐ Microtopographic Relief (D4)	
		☒ FAC-neutral Test (D5)	
Field Observations:			
Surface Water Present?	Yes ☐ No ☒	Depth (inches):	
Water Table Present?	Yes ☐ No ☒	Depth (inches):	-20
Saturation Present? (includes capillary fringe)	Yes ☐ No ☒	Depth (inches):	-18
Wetland Hydrology Present? Yes ☒ No ☐			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			
The APT analysis indicates climatic conditions were within normal at the time of the site visit. Wetland hydrology is considered naturally problematic due to lack of saturation or high water table within the upper 12 inches of the soil profile but the sample plot still met wetland hydrology criteria through other hydrology indicators.			

VEGETATION - Use scientific names of plants.

Sampling Point: Wet 11-1

Tree Stratum	(Plot size: 26' x 52')	Absolute % Cover	Dominant Species?	Indicator Status
1.		0	☐	
2.		0	☐	
3.		0	☐	
4.		0	☐	
5.		0	☐	
6.		0	☐	
7.		0	☐	
		0	= Total Cover	
Sapling/Shrub Stratum	(Plot size: 26' x 27')	Absolute % Cover	Dominant Species?	Indicator Status
1.		0	☐	
2.		0	☐	
3.		0	☐	
4.		0	☐	
5.		0	☐	
6.		0	☐	
7.		0	☐	
		0	= Total Cover	
Herb Stratum	(Plot size: 5' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Lycopodium uniflorum</i>	3	☒	OBL
2.		0	☐	
3.		0	☐	
4.		0	☐	
5.		0	☐	
6.		0	☐	
7.		0	☐	
8.		0	☐	
9.		0	☐	
10.		0	☐	
11.		0	☐	
12.		0	☐	
		3	= Total Cover	
Woody Vine Stratum	(Plot size: 26' x 52')	Absolute % Cover	Dominant Species?	Indicator Status
1.		0	☐	
2.		0	☐	
3.		0	☐	
4.		0	☐	
		0	= Total Cover	

Dominance Test worksheet:

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

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

Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

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

Prevalence Index = B/A = 1.000

Hydrophytic Vegetation Indicators:

☒ Rapid Test for Hydrophytic Vegetation

☒ Dominance Test is > 50%

☒ Prevalence Index is ≤ 3.0 ¹

☐ 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 3.28 ft (1m) tall..

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

Woody vine - 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.)

Vegetation meets wetland criteria.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: Wet 11-1

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

[illegible]

¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: 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 Muck 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, M)
- ☐ 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)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☒ No ☐

Remarks:

Soils meet hydric soil criteria.

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Glenn Harsh Property

City/County: Town of Belgium, Ozaukee Co,

Sampling Date: 18-Oct-23

Applicant/Owner: Glenn Harsh

State: WI

Sampling Point:

Up 11-1

Investigator(s): Ann Key, WDNR Professionally Assured

Section, Township, Range: S. 18

T. 12N

R. 23E

Landform (hillslope, terrace, etc.): Shoulder slope

Local relief (concave, convex, none): convex

Slope: 3.0 % / 1.7

Subregion (LRR or MLRA): LRR K

Lat.: 43.5072831400

Long.: -87.7944125200

Datum: WGS84

Soil Map Unit Name: Boyer loamy sand; 1 to 6 percent slopes; eroded

NWI classification:

Are climatic/hydrologic conditions on the site typical for this time of year?

Yes ☒ No ☐

(If no, explain in Remarks.)

Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ significantly disturbed?

Are "Normal Circumstances" present?

Yes ☒ No ☐Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic?

(If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ☐ No ☒	Is the Sampled Area within a Wetland?	Yes ☐ No ☒
Hydric Soil Present?	Yes ☐ No ☒		
Wetland Hydrology Present?	Yes ☐ No ☒		
Remarks: (Explain alternative procedures here or in a separate report.) Although recent tree and shrub removal has been conducted on this property, the activities were done without removal of tree roots. Despite a limited amount of vegetation present in some areas, the Study Area was still considered to have normal circumstances.			

Hydrology

Wetland Hydrology Indicators:		<u>Secondary Indicators (minimum of 2 required)</u>	
Primary Indicators (minimum of one required; check all that apply)			
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ Marl Deposits (B15)	☐ Moss Trim Lines (B16)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Dry Season Water Table (C2)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres along Living Roots (C3)	☐ Crayfish Burrows (C8)	
☐ Drift deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Stunted or Stressed Plants (D1)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☐ Geomorphic Position (D2)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Other (Explain in Remarks)	☐ Shallow Aquitard (D3)	
☐ Sparsely Vegetated Concave Surface (B8)		☐ 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:			
The APT analysis indicates climatic conditions were within normal at the time of the site visit. No hydrology indicators were observed and this sample plot does not meet wetland hydrology criteria.			

VEGETATION - Use scientific names of plants.

Sampling Point: Up 11-1

Tree Stratum (Plot size: 40' x 71')	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Populus deltoides</i>	40	☒	FAC
2. <i>Picea glauca</i>	30	☒	FACU
3. <i>Pinus resinosa</i>	25	☒	FACU
4.	0	☐	
5.	0	☐	
6.	0	☐	
7.	0	☐	
95 = Total Cover			
Sapling/Shrub Stratum (Plot size: 15' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Berberis thunbergii</i>	10	☒	FACU
2.	0	☐	
3.	0	☐	
4.	0	☐	
5.	0	☐	
6.	0	☐	
7.	0	☐	
10 = Total Cover			
Herb Stratum (Plot size: 5' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Solidago canadensis</i>	25	☒	FACU
2. <i>Rhamnus cathartica</i>	20	☒	FAC
3. <i>Berberis thunbergii</i>	20	☒	FACU
4. <i>Fraxinus pennsylvanica</i>	15	☐	FACW
5. <i>Parthenocissus quinquefolia</i>	10	☐	FACU
6. <i>Symphytotrichum lateriflorum</i> var. <i>lateriflorum</i>	10	☐	FAC
7.	0	☐	
8.	0	☐	
9.	0	☐	
10.	0	☐	
11.	0	☐	
12.	0	☐	
100 = Total Cover			
Woody Vine Stratum (Plot size: 40' x 71')	Absolute % Cover	Dominant Species?	Indicator Status
1.	0	☐	
2.	0	☐	
3.	0	☐	
4.	0	☐	
0 = Total Cover			

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 7 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 28.6% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>15</u>	x 2 = <u>30</u>
FAC species <u>70</u>	x 3 = <u>210</u>
FACU species <u>120</u>	x 4 = <u>480</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>205</u> (A)	<u>720</u> (B)
Prevalence Index = B/A = <u>3.512</u>	

Hydrophytic Vegetation Indicators:

☐ Rapid Test for Hydrophytic Vegetation

☐ Dominance Test is > 50%

☐ Prevalence Index is ≤ 3.0 ¹

☐ 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 3.28 ft (1m) tall..

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

Woody vine - 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.)

Vegetation does not meet wetland criteria.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: Up 11-1

[illegible]

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Glenn Harsh Property

City/County: Town of Belgium, Ozaukee Co,

Sampling Date: 18-Oct-23

Applicant/Owner: Glenn Harsh

State: WI

Sampling Point:

Wet 12-1

Investigator(s): Ann Key, WDNR Professionally Assured

Section, Township, Range: S. 18

T. 12N

R. 23E

Landform (hillslope, terrace, etc.): Toeslope/Depression

Local relief (concave, convex, none): concave

Slope: 0.0 % / 0.0

Subregion (LRR or MLRA): LRR K

Lat.: 43.5072075600

Long.: -87.7945123000

Datum: WGS84

Soil Map Unit Name: Boyer loamy sand; 1 to 6 percent slopes; eroded

NWI classification:

Are climatic/hydrologic conditions on the site typical for this time of year?

Yes ☒ No ☐

(If no, explain in Remarks.)

Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ significantly disturbed?

Are "Normal Circumstances" present?

Yes ☒ No ☐Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic?

(If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ☒ No ☐	Is the Sampled Area within a Wetland?	Yes ☒ No ☐
Hydric Soil Present?	Yes ☒ No ☐		
Wetland Hydrology Present?	Yes ☒ No ☐		
Remarks: (Explain alternative procedures here or in a separate report.) Although recent tree and shrub removal has been conducted on this property, the activities were done without removal of tree roots. Despite a limited amount of vegetation present in some areas, the Study Area was still considered to have normal circumstances. This wetland is classified as a remnant dune-swale.			

Hydrology

Wetland Hydrology Indicators:		<u>Secondary Indicators (minimum of 2 required)</u>	
Primary Indicators (minimum of one required; check all that apply)			
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☒ Saturation (A3)	☐ Marl Deposits (B15)	☐ Moss Trim Lines (B16)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Dry Season Water Table (C2)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres along Living Roots (C3)	☐ Crayfish Burrows (C8)	
☐ Drift deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Stunted or Stressed Plants (D1)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☒ Geomorphic Position (D2)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Other (Explain in Remarks)	☐ Shallow Aquitard (D3)	
☐ Sparsely Vegetated Concave Surface (B8)		☐ Microtopographic Relief (D4)	
		☒ FAC-neutral Test (D5)	
Field Observations:			
Surface Water Present?	Yes ☐ No ☒	Depth (inches):	
Water Table Present?	Yes ☐ No ☒	Depth (inches):	-12
Saturation Present? (includes capillary fringe)	Yes ☒ No ☐	Depth (inches):	-14
Wetland Hydrology Present? Yes ☒ No ☐			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			
The APT analysis indicates climatic conditions were within normal at the time of the site visit.			

VEGETATION - Use scientific names of plants.

Sampling Point: Wet 12-1

Tree Stratum	(Plot size: 35' x 81')	Absolute % Cover	Dominant Species?	Indicator Status
1.		0	☐	
2.		0	☐	
3.		0	☐	
4.		0	☐	
5.		0	☐	
6.		0	☐	
7.		0	☐	
		0	= Total Cover	

Sapling/Shrub Stratum	(Plot size: 20' x 35')	Absolute % Cover	Dominant Species?	Indicator Status
1.		0	☐	
2.		0	☐	
3.		0	☐	
4.		0	☐	
5.		0	☐	
6.		0	☐	
7.		0	☐	
		0	= Total Cover	

Herb Stratum	(Plot size: 5' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Calamagrostis canadensis</i>		25	☒	OBL
2. <i>Symphyotrichum lateriflorum</i> var. <i>lateriflorum</i>		20	☒	FAC
3. <i>Phalaris arundinacea</i>		20	☒	FACW
4. <i>Iris versicolor</i>		20	☒	OBL
5. <i>Fraxinus pennsylvanica</i>		15	☐	FACW
6.		0	☐	
7.		0	☐	
8.		0	☐	
9.		0	☐	
10.		0	☐	
11.		0	☐	
12.		0	☐	
		100	= Total Cover	

Woody Vine Stratum	(Plot size: 35' x 81')	Absolute % Cover	Dominant Species?	Indicator Status
1.		0	☐	
2.		0	☐	
3.		0	☐	
4.		0	☐	
		0	= Total Cover	

Dominance Test worksheet:
 Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)

 Total Number of Dominant Species Across All Strata: 4 (B)

 Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:
 Total % Cover of: Multiply by:
 OBL species 45 x 1 = 45
 FACW species 35 x 2 = 70
 FAC species 20 x 3 = 60
 FACU species 0 x 4 = 0
 UPL species 0 x 5 = 0
 Column Totals: 100 (A) 175 (B)

 Prevalence Index = B/A = 1.750

Hydrophytic Vegetation Indicators:
☐ Rapid Test for Hydrophytic Vegetation
☒ Dominance Test is > 50%
☒ Prevalence Index is ≤ 3.0 ¹
☐ 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 3.28 ft (1m) tall..

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

 Woody vine - 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.)

Vegetation meets wetland criteria.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: Wet 12-1

[illegible]

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Glenn Harsh Property

City/County: Town of Belgium, Ozaukee Co,

Sampling Date: 18-Oct-23

Applicant/Owner: Glenn Harsh

State: WI

Sampling Point:

Up 12-1

Investigator(s): Ann Key, WDNR Professionally Assured

Section, Township, Range: S. 18

T. 12N

R. 23E

Landform (hillslope, terrace, etc.): Shoulder slope

Local relief (concave, convex, none): convex

Slope: 3.0 % / 1.7

Subregion (LRR or MLRA): LRR K

Lat.: 43.5072831400

Long.: -87.7944125200

Datum: WGS84

Soil Map Unit Name: Boyer loamy sand; 1 to 6 percent slopes; eroded

NWI classification:

Are climatic/hydrologic conditions on the site typical for this time of year?

Yes ☒ No ☐

(If no, explain in Remarks.)

Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ significantly disturbed?

Are "Normal Circumstances" present?

Yes ☒ No ☐Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic?

(If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ☐ No ☒	Is the Sampled Area within a Wetland?	Yes ☐ No ☒
Hydric Soil Present?	Yes ☐ No ☒		
Wetland Hydrology Present?	Yes ☐ No ☒		
Remarks: (Explain alternative procedures here or in a separate report.) Although recent tree and shrub removal has been conducted on this property, the activities were done without removal of tree roots. Despite a limited amount of vegetation present in some areas, the Study Area was still considered to have normal circumstances.			

Hydrology

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)	
Primary Indicators (minimum of one required; check all that apply)			
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ Marl Deposits (B15)	☐ Moss Trim Lines (B16)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Dry Season Water Table (C2)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres along Living Roots (C3)	☐ Crayfish Burrows (C8)	
☐ Drift deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Stunted or Stressed Plants (D1)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☐ Geomorphic Position (D2)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Other (Explain in Remarks)	☐ Shallow Aquitard (D3)	
☐ Sparsely Vegetated Concave Surface (B8)		☐ 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:			
The APT analysis indicates climatic conditions were within normal at the time of the site visit. No hydrology indicators were observed and this sample plot does not meet wetland hydrology criteria.			

VEGETATION - Use scientific names of plants.

Sampling Point: Up 12-1

Tree Stratum (Plot size: 40' x 71')	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Populus deltoides</i>	40	☒	FAC
2. <i>Picea glauca</i>	30	☒	FACU
3. <i>Pinus resinosa</i>	25	☒	FACU
4.	0	☐	
5.	0	☐	
6.	0	☐	
7.	0	☐	
95 = Total Cover			
Sapling/Shrub Stratum (Plot size: 15' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Berberis thunbergii</i>	10	☒	FACU
2.	0	☐	
3.	0	☐	
4.	0	☐	
5.	0	☐	
6.	0	☐	
7.	0	☐	
10 = Total Cover			
Herb Stratum (Plot size: 5' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Solidago canadensis</i>	25	☒	FACU
2. <i>Rhamnus cathartica</i>	20	☒	FAC
3. <i>Berberis thunbergii</i>	20	☒	FACU
4. <i>Fraxinus pennsylvanica</i>	15	☐	FACW
5. <i>Parthenocissus quinquefolia</i>	10	☐	FACU
6. <i>Symphotrichum lateriflorum var. lateriflorum</i>	10	☐	FAC
7.	0	☐	
8.	0	☐	
9.	0	☐	
10.	0	☐	
11.	0	☐	
12.	0	☐	
100 = Total Cover			
Woody Vine Stratum (Plot size: 40' x 71')	Absolute % Cover	Dominant Species?	Indicator Status
1.	0	☐	
2.	0	☐	
3.	0	☐	
4.	0	☐	
0 = Total Cover			

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 7 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 28.6% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>15</u>	x 2 = <u>30</u>
FAC species <u>70</u>	x 3 = <u>210</u>
FACU species <u>120</u>	x 4 = <u>480</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>205</u> (A)	<u>720</u> (B)
Prevalence Index = B/A = <u>3.512</u>	

Hydrophytic Vegetation Indicators:

☐ Rapid Test for Hydrophytic Vegetation

☐ Dominance Test is > 50%

☐ Prevalence Index is ≤ 3.0 ¹

☐ 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 3.28 ft (1m) tall..

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

Woody vine - 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.)

Vegetation does not meet wetland criteria.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: Up 12-1

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

[illegible]

¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: 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 Muck 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, M)
- ☐ 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)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☐ No ☒

Remarks:

Soils do not meet hydric soil criteria.

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Glenn Harsh Property

City/County: Town of Belgium, Ozaukee Co,

Sampling Date: 18-Oct-23

Applicant/Owner: Glenn Harsh

State: WI

Sampling Point:

Wet 13-1

Investigator(s): Ann Key, WDNR Professionally Assured

Section, Township, Range: S. 18

T. 12N

R. 23E

Landform (hillslope, terrace, etc.): Toeslope/Depression

Local relief (concave, convex, none): concave

Slope: 0.0 % / 0.0

Subregion (LRR or MLRA): LRR K

Lat.: 43.5068598600

Long.: -87.7950279200

Datum: WGS84

Soil Map Unit Name: Boyer loamy sand; 1 to 6 percent slopes; eroded

NWI classification:

Are climatic/hydrologic conditions on the site typical for this time of year?

Yes ☒ No ☐

(If no, explain in Remarks.)

Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ significantly disturbed?

Are "Normal Circumstances" present?

Yes ☒ No ☐Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic?

(If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ☒ No ☐	Is the Sampled Area within a Wetland?	Yes ☒ No ☐
Hydric Soil Present?	Yes ☒ No ☐		
Wetland Hydrology Present?	Yes ☒ No ☐		
Remarks: (Explain alternative procedures here or in a separate report.) Although recent tree and shrub removal has been conducted on this property, the activities were done without removal of tree roots. Despite a limited amount of vegetation present, the Study Area was still considered to have normal circumstances. This wetland is classified as a remnant dune-swale.			

Hydrology

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)	
Primary Indicators (minimum of one required; check all that apply)			
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☒ Saturation (A3)	☐ Marl Deposits (B15)	☐ Moss Trim Lines (B16)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Dry Season Water Table (C2)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres along Living Roots (C3)	☐ Crayfish Burrows (C8)	
☐ Drift deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Stunted or Stressed Plants (D1)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☒ Geomorphic Position (D2)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Other (Explain in Remarks)	☐ Shallow Aquitard (D3)	
☐ Sparsely Vegetated Concave Surface (B8)		☐ Microtopographic Relief (D4)	
		☐ FAC-neutral Test (D5)	
Field Observations:			
Surface Water Present?	Yes ☐ No ☒	Depth (inches):	
Water Table Present?	Yes ☐ No ☒	Depth (inches):	-12
Saturation Present? (includes capillary fringe)	Yes ☒ No ☐	Depth (inches):	-14
Wetland Hydrology Present? Yes ☒ No ☐			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			
The APT analysis indicates climatic conditions were within normal at the time of the site visit. This sample plot meets wetland hydrology criteria.			

VEGETATION - Use scientific names of plants.

Sampling Point: Wet 13-1

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	0	☐	_____
2. _____	0	☐	_____
3. _____	0	☐	_____
4. _____	0	☐	_____
5. _____	0	☐	_____
6. _____	0	☐	_____
7. _____	0	☐	_____
= Total Cover			
Sapling/Shrub Stratum (Plot size: 26' x 27')			
1. _____	0	☐	_____
2. _____	0	☐	_____
3. _____	0	☐	_____
4. _____	0	☐	_____
5. _____	0	☐	_____
6. _____	0	☐	_____
7. _____	0	☐	_____
= Total Cover			
Herb Stratum (Plot size: 5' radius)			
1. <i>Geum canadense</i>	15	☒	FAC
2. <i>Bidens vulgata</i>	10	☒	FAC
3. <i>Symphotrichum lateriflorum var. lateriflorum</i>	5	☐	FAC
4. <i>Calamagrostis canadensis</i>	3	☐	OBL
5. <i>Vitis riparia</i>	2	☐	FAC
6. _____	0	☐	_____
7. _____	0	☐	_____
8. _____	0	☐	_____
9. _____	0	☐	_____
10. _____	0	☐	_____
11. _____	0	☐	_____
12. _____	0	☐	_____
= Total Cover			
Woody Vine Stratum (Plot size: 26' x 85')			
1. _____	0	☐	_____
2. _____	0	☐	_____
3. _____	0	☐	_____
4. _____	0	☐	_____
= Total Cover			

Dominance Test worksheet:

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

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

Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>3</u>	x 1 = <u>3</u>
FACW species <u>0</u>	x 2 = <u>0</u>
FAC species <u>32</u>	x 3 = <u>96</u>
FACU species <u>0</u>	x 4 = <u>0</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>35</u> (A)	<u>99</u> (B)
Prevalence Index = B/A = <u>2.829</u>	

Hydrophytic Vegetation Indicators:

☐ Rapid Test for Hydrophytic Vegetation

☒ Dominance Test is > 50%

☒ Prevalence Index is ≤ 3.0 ¹

☐ 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 3.28 ft (1m) tall..

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

Woody vine - 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.)

Vegetation meets wetland criteria.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: Wet 13-1

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

[illegible]

¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: 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 Muck 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, M)
- ☐ 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)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☒ No ☐

Remarks:

Soils meet hydric soil criteria.

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Glenn Harsh Property

City/County: Town of Belgium, Ozaukee Co,

Sampling Date: 18-Oct-23

Applicant/Owner: Glenn Harsh

State: WI

Sampling Point:

Up 13-1

Investigator(s): Ann Key, WDNR Professionally Assured

Section, Township, Range: S. 18

T. 12N

R. 23E

Landform (hillslope, terrace, etc.): Shoulder slope

Local relief (concave, convex, none): convex

Slope: 2.0 % / 1.1

Subregion (LRR or MLRA): LRR K

Lat.: 43.5068797300

Long.: -87.7949272900

Datum: WGS84

Soil Map Unit Name: Boyer loamy sand; 1 to 6 percent slopes; eroded

NWI classification:

Are climatic/hydrologic conditions on the site typical for this time of year?

Yes ☒ No ☐

(If no, explain in Remarks.)

Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ significantly disturbed?

Are "Normal Circumstances" present?

Yes ☒ No ☐Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic?

(If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ☐ No ☒	Is the Sampled Area within a Wetland?	Yes ☐ No ☒
Hydric Soil Present?	Yes ☐ No ☒		
Wetland Hydrology Present?	Yes ☐ No ☒		
Remarks: (Explain alternative procedures here or in a separate report.) Although recent tree and shrub removal has been conducted on this property, the activities were done without removal of tree roots. Despite a limited amount of vegetation present in some areas, the Study Area was still considered to have normal circumstances.			

Hydrology

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)	
Primary Indicators (minimum of one required; check all that apply)			
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ Marl Deposits (B15)	☐ Moss Trim Lines (B16)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Dry Season Water Table (C2)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres along Living Roots (C3)	☐ Crayfish Burrows (C8)	
☐ Drift deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Stunted or Stressed Plants (D1)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☐ Geomorphic Position (D2)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Other (Explain in Remarks)	☐ Shallow Aquitard (D3)	
☐ Sparsely Vegetated Concave Surface (B8)		☐ 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:			
The APT analysis indicates climatic conditions were within normal at the time of the site visit. No hydrology indicators were observed and this sample plot does not meet wetland hydrology criteria.			

VEGETATION - Use scientific names of plants.

Sampling Point: Up 13-1

Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Picea glauca</i>	50	☒	FACU
2. <i>Populus deltoides</i>	20	☒	FAC
3. <i>Pinus resinosa</i>	20	☒	FACU
4. <i>Pinus strobus</i>	15	☐	FACU
5. _____	0	☐	
6. _____	0	☐	
7. _____	0	☐	
105 = Total Cover			
Sapling/Shrub Stratum (Plot size: 15' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	0	☐	
2. _____	0	☐	
3. _____	0	☐	
4. _____	0	☐	
5. _____	0	☐	
6. _____	0	☐	
7. _____	0	☐	
0 = Total Cover			
Herb Stratum (Plot size: 5' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Fraxinus pennsylvanica</i>	10	☒	FACW
2. <i>Elaeagnus umbellata</i>	10	☒	UPL
3. <i>Solidago canadensis</i>	5	☐	FACU
4. <i>Arctium minus</i>	5	☐	FACU
5. <i>Maianthemum trifolium</i>	0	☐	OBL
6. <i>Erythronium albidum</i>	0	☐	FACU
7. _____	0	☐	
8. _____	0	☐	
9. _____	0	☐	
10. _____	0	☐	
11. _____	0	☐	
12. _____	0	☐	
30 = Total Cover			
Woody Vine Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	0	☐	
2. _____	0	☐	
3. _____	0	☐	
4. _____	0	☐	
0 = Total Cover			

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 40.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>10</u>	x 2 = <u>20</u>
FAC species <u>20</u>	x 3 = <u>60</u>
FACU species <u>95</u>	x 4 = <u>380</u>
UPL species <u>10</u>	x 5 = <u>50</u>
Column Totals: <u>135</u> (A)	<u>510</u> (B)
Prevalence Index = B/A = <u>3.778</u>	

Hydrophytic Vegetation Indicators:

☐ Rapid Test for Hydrophytic Vegetation

☐ Dominance Test is > 50%

☐ Prevalence Index is ≤ 3.0 ¹

☐ 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 3.28 ft (1m) tall..

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

Woody vine - 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.)

Vegetation does not meet wetland criteria.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: Up 13-1

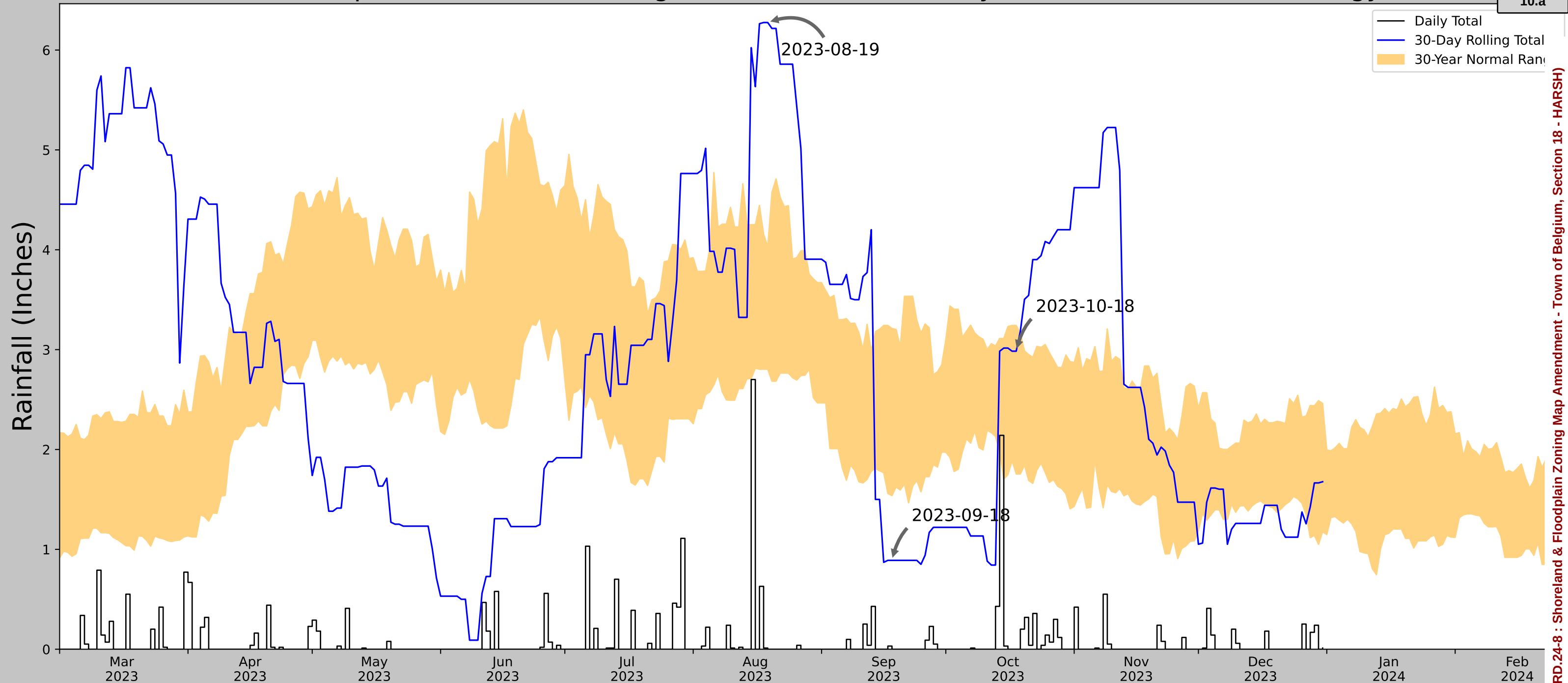
[illegible]



APPENDIX B – ANTECEDENT PRECIPITATION EVALUATION, WETS DATA

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

10.a



Coordinates	43.499721, -87.850367
Observation Date	2023-10-18
Elevation (ft)	731.572
Drought Index (PDSI)	Mild drought
WebWIMP H ₂ O Balance	Wet Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2023-10-18	1.754331	3.242913	2.984252	Normal	2	3	6
2023-09-18	1.537795	3.211811	0.889764	Dry	1	2	2
2023-08-19	2.802756	4.031496	6.275591	Wet	3	1	3
Result							Normal Conditions - 11



Figure and tables made by the
Antecedent Precipitation Tool
Version 1.0

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

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
OOSTBURG	43.6308, -87.7997	678.15	9.405	53.422	4.735	6729	9
CEDAR GROVE 0.4 NNE	43.5716, -87.8199	690.945	4.213	12.795	1.95	227	
HINGHAM WWTP	43.6408, -87.9097	763.123	5.544	84.973	2.966	1168	
SHEBOYGAN	43.75, -87.7167	647.966	9.221	30.184	4.428	3135	
SHEBOYGAN CO MEM AP	43.7747, -87.8492	750.984	10.245	72.834	5.356	88	0
PLYMOUTH WWTP	43.73, -87.9714	828.084	10.981	149.934	6.588	5	



APPENDIX C – SITE PHOTOS

GLENN HARSH PROPERTY
WETLAND DELINEATION SITE PHOTOS



WET 1-1



UP 1-1

GLENN HARSH PROPERTY
WETLAND DELINEATION SITE PHOTOS



WET 2-1



UP 2-1

GLENN HARSH PROPERTY
WETLAND DELINEATION SITE PHOTOS



WET 3-1



UP 3-1

GLENN HARSH PROPERTY
WETLAND DELINEATION SITE PHOTOS



WET 4-1



UP 4-1

GLENN HARSH PROPERTY
WETLAND DELINEATION SITE PHOTOS



WET 5-1



UP 5-1

GLENN HARSH PROPERTY
WETLAND DELINEATION SITE PHOTOS



WET 6-1



UP 6-1

GLENN HARSH PROPERTY
WETLAND DELINEATION SITE PHOTOS



WET 7-1



UP 7-1

GLENN HARSH PROPERTY
WETLAND DELINEATION SITE PHOTOS



WET 8-1



UP 8-1

GLENN HARSH PROPERTY
WETLAND DELINEATION SITE PHOTOS



WET 9-1



UP 9-1

GLENN HARSH PROPERTY
WETLAND DELINEATION SITE PHOTOS



WET 10-1



UP 10-1

GLENN HARSH PROPERTY
WETLAND DELINEATION SITE PHOTOS



WET 11-1



UP 11-1

GLENN HARSH PROPERTY
WETLAND DELINEATION SITE PHOTOS



WET 12-1



UP 12-1

GLENN HARSH PROPERTY WETLAND DELINEATION SITE PHOTOS



WET 13-1



UP 13-1



APPENDIX D – ASSURED WETLAND DELINEATOR 2023 CONFIRMATION LETTER

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



Attachment: Harsh Combined Files (ORD-24-8 : Shoreland & Floodplain Zoning Map Amendment - Town of Belgium, Section 18 - HARSH)

April 3, 2023

Ann Key, PSS, PWS, CST
Wetlands and Waterways, LLC
5742 Warbonnet Lane
Hazelhurst, WI 54531

Subject: 2023 Assured Wetland Delineator Confirmation

Dear Ms. Key:

This letter provides Wisconsin Department of Natural Resources (WDNR) confirmation for the wetland delineations you conduct during the 2023 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

ORDINANCE NO. 24-9

SHORELAND & FLOODPLAIN ZONING MAP AMENDMENT- TOWN OF CEDARBURG,
SECTION 21

The Ozaukee County Board of Supervisors does ordain that the County Shoreland and Floodplain Zoning Map be amended in accordance with Section 19.035 of the Ozaukee County Code of Ordinances to indicate a Zoning Classification change from Shoreland-Wetland to Shoreland.

Affecting the following described real estates: **Town of Cedarburg**, T10N-R21E in the NE 1/4 of the NW 1/4, Section 21, Lot 3 CSM #3997 Doc. 1050182.

Tax Key #03-021-05-003.00, owned by Venturespace LLC; Property Address: 8535 State Road 60, Cedarburg WI 53012.

This Ordinance shall take effect upon enactment and publication.

Dated at Port Washington, Wisconsin, this 2nd day of October 2024.

SUMMARY: Shoreland and Floodplain Zoning Map Amendment, Town of Cedarburg, Section 21

VOTE REQUIRED: Majority

09/05/24

Natural Resources Committee

APPROVED

RESULT:	APPROVED [UNANIMOUS]
MOVER:	K. Schoessow, Supervisor District 23
SECONDER:	T. Matera, Supervisor District 7
AYES:	R. Holyoke, B. Jobs, T. Matera, K. Schoessow
EXCUSED:	B. Ross

NATURAL RESOURCES COMMITTEE

Natural Resources Committee
AGENDA INFORMATION SHEET

AGENDA DATE:	October 2, 2024
DEPARTMENT:	Land and Water Management
DIRECTOR:	Katie Vogeler
PREPARER:	Katie Vogeler

Agenda Summary Shoreland & Floodplain Zoning Map Amendment- Town of Cedarburg, Section 21

BACKGROUND INFORMATION: Request by Michael Frede, as agent for Venturespace LLC, to petition the Natural Resources Committee for a Zoning Classification change Shoreland-Wetland to Shoreland in the Shoreland District, per Section 19.035 of the Ozaukee County Shoreland Protection Ordinance, to reflect the results of a wetland delineation report and survey; and per Section 19.03500 to rezone all or part of the delineated wetlands to allow land disturbance activities for the purpose of a commercial building and parking area.

Affecting the following described real estates: **Town of Cedarburg**, T10N-R21E in the NE 1/4 of the NW 1/4, Section 21, Lot 3 CSM #3997 Doc. 1050182.

Tax Key #03-021-05-003.00, owned by Venturespace LLC; Property Address: 8535 State Road 60, Cedarburg WI 53012.

ANALYSIS: The Shoreland and Floodplain is to reflect the wetland delineation report conducted by Wetlands and Waterways LLC on December 7, 2024.

Per section 19.035 of the County Shoreland Protection Ordinance, any change to a wetland boundary shown on a Shoreland and Floodplain Zoning Map requires County Board approval.

FISCAL IMPACT: N/A FUNDING SOURCE: N/A

RECOMMENDED MOTION: Approval to amend the Shoreland & Floodplain Zoning Map to reflect the change in the wetland delineation as a result of the survey completed by Wetlands and Waterways LLC on December 7, 2024.

ATTACHMENTS:

- Venturespace Combined File (PDF)



LAND & WATER MANAGEMENT DEPARTMENT

Katie Vogeler, Director
Edward J. Pfister, Sanitation & Zoning Coordinator
Geoff Schramm, Land & Water Coordinator
www.co.ozaukee.wi.us

Staff Report – Natural Resources Committee Hearing – September 5, 2024

Request by Michael Frede of **VentureSpace LLC** to petition the committee for a Zoning Classification change from Wetland to Non-Wetland in the Shoreland-Wetland District, per Section 19.15600 of the Ozaukee County Shoreland Protection Ordinance, 1) to reflect the results of a wetland delineation report and survey; and 2) to rezone all or part of the delineated wetlands out of wetlands to allow for earth moving activities per Section 19.03500; for the property as described below.

Affecting the following described real estate:

The affected wetland is located in the **Town of Cedarburg**, T10N, R21E in part of the NE1/4 of the NW 1/4 of Section 21, Lot 3 CSM #3997 Doc. 1050182, Parcel Key # 03-021-05-003.00, 8535 State Road 60.

Background: The VentureSpace LLC is planning on developing the property into the Cedarburg Professional Center with parking area.

The area was farmed until the parcel was subdivided in 2017.

A wetland delineation and survey were completed by Wetland & Waterway Consulting, LLC. on December 7, 2022.

Discussion:

The Mr. Frede is petitioning to amend 1) the Ozaukee County Shoreland Zoning map to reflect the wetland delineation report and survey; and 2) to rezoning the designated Wetland A (6,310 sq. ft.) and part of Wetland D (3,540 sq. ft.) on the survey out of Shoreland-Wetland to Shoreland to allow the filling, grading, and excavating to occur as part of the development of the property. The DNR has issued a permit dated September 29, 2023, to allow these wetland areas to be disturbed.

The current Ozaukee County Shoreland Zoning map (Exhibit A), which incorporates the Wisconsin Wetland Inventory Map, only indicates wetlands along the southeast and northeast portions of the property. This mapping is based only on aerial interpretations.

The Wetland Delineation Report and survey (Exhibit B) shows the actual wetlands on the property. The Wetland C, which is a detention pond, on the survey meets the DNR exemption criteria and is not classified as a wetland per DNR letter dated July 19, 2023.

Exhibit C shows the two wetland areas highlighted in yellow that the petitioner wants to rezone from Shoreland-Wetland to Shoreland to allow land disturbance activities. The DNR has issued a permit on August 7, 2024, to allow the land disturbance activities in these areas.

Per Section 19.03400 of the County Shoreland Protection Ordinance, any use not listed in Section 19.03301, 19.03302, or 19.03303 is prohibited, unless the wetland or portion of the wetland has been rezoned by amendment of this ordinance in accordance with Section 19.03500 of this ordinance and Section 59.69(5)(e), Wis. Stats.

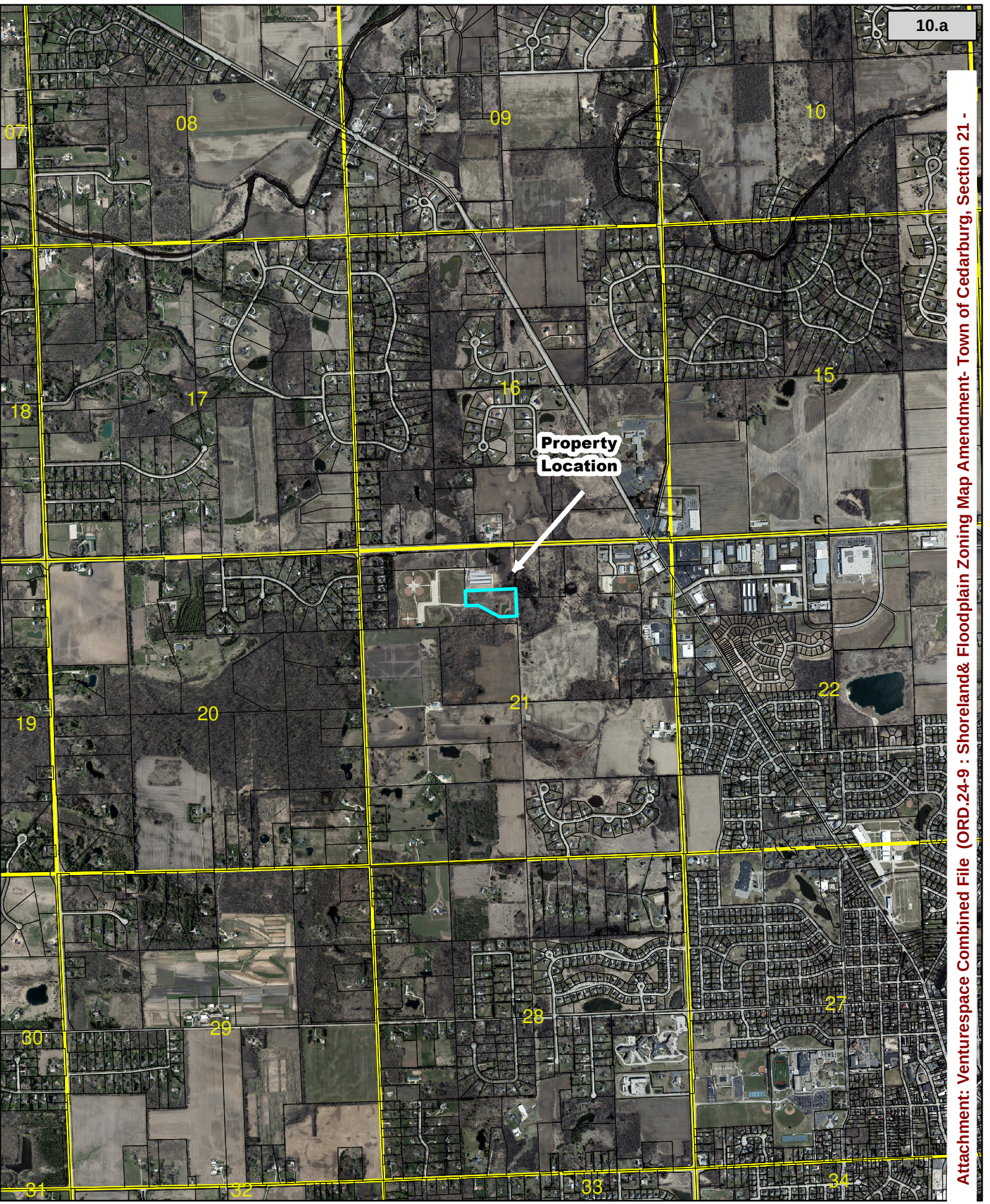
Per Section 19.03500 (02) - A wetland, or a portion thereof, in the shoreland-wetland district shall be rezoned if the proposed rezoning may result in a significant adverse impact upon any of the following:

- (A) Storm and flood water storage capacity.
- (B) Maintenance of dry season stream flow, the discharge of groundwater to a wetland, the recharge of groundwater from a wetland to another area, or the flow of groundwater through a wetland.
- (C) Filtering or storage of sediments, nutrients, heavy metals or organic compounds that would otherwise drain into navigable waters.
- (D) Shoreline protection against soil erosion.
- (E) Fish spawning, breeding, nursery or feeding grounds.
- (F) Wildlife habitat.
- (G) Wetlands both within the boundary of designated areas of special natural resource interest and those wetlands which are in proximity to or have a direct hydrologic connection to such designated areas as defined in ch. NR 103.04, Wis. Adm. Code, which can be accessed at the following web site: <http://www.legis.state.wi.us/rsb/code/nr/nr103.pdf>.

The Land & Water Management Department (LWMD) finds the proposed recognition of the wetland delineation report and survey along with the rezoning of wetland A and part D out of wetland to allow land disturbance activities will not result in significant adverse impacts in this area.

Per Section 19.15600 (05) of the Ozaukee County Shoreland Protection Ordinance, any change to a shoreland-wetland boundary shown on a Shoreland and Floodplain Zoning District Map requires County Board approval.

END/BAS
(8/23/24)

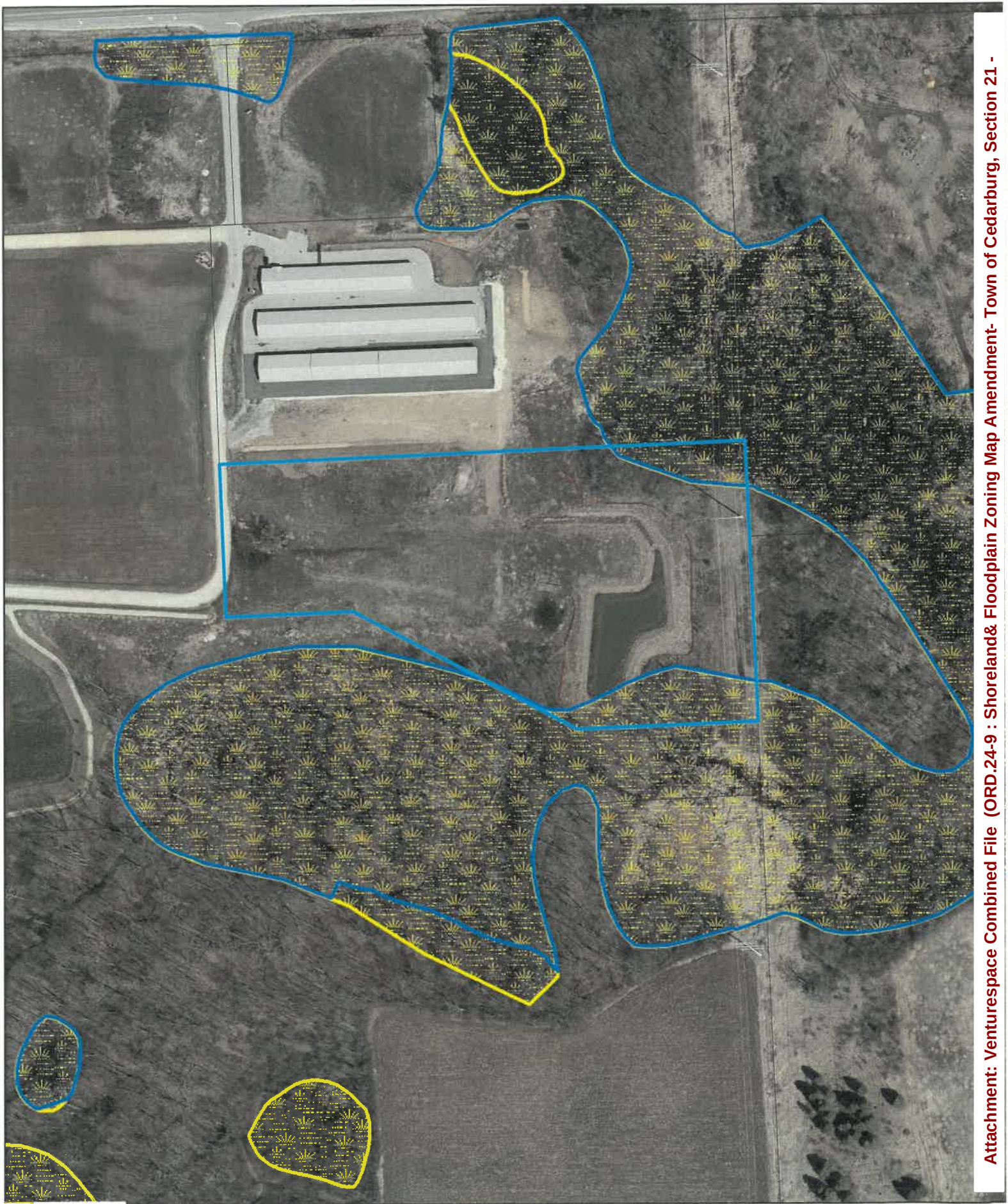


0 500 1,000 2,000 Feet

2022 AERIAL



Map produced by the Ozaukee County Land and Water Management Dept. This is not a survey. The information on the as is. It is based on the best available information at the time of its printing.



Legend
Wetlands_WithinShoreland
Wetlands_OtherRegulated

0 50 100 200 Feet

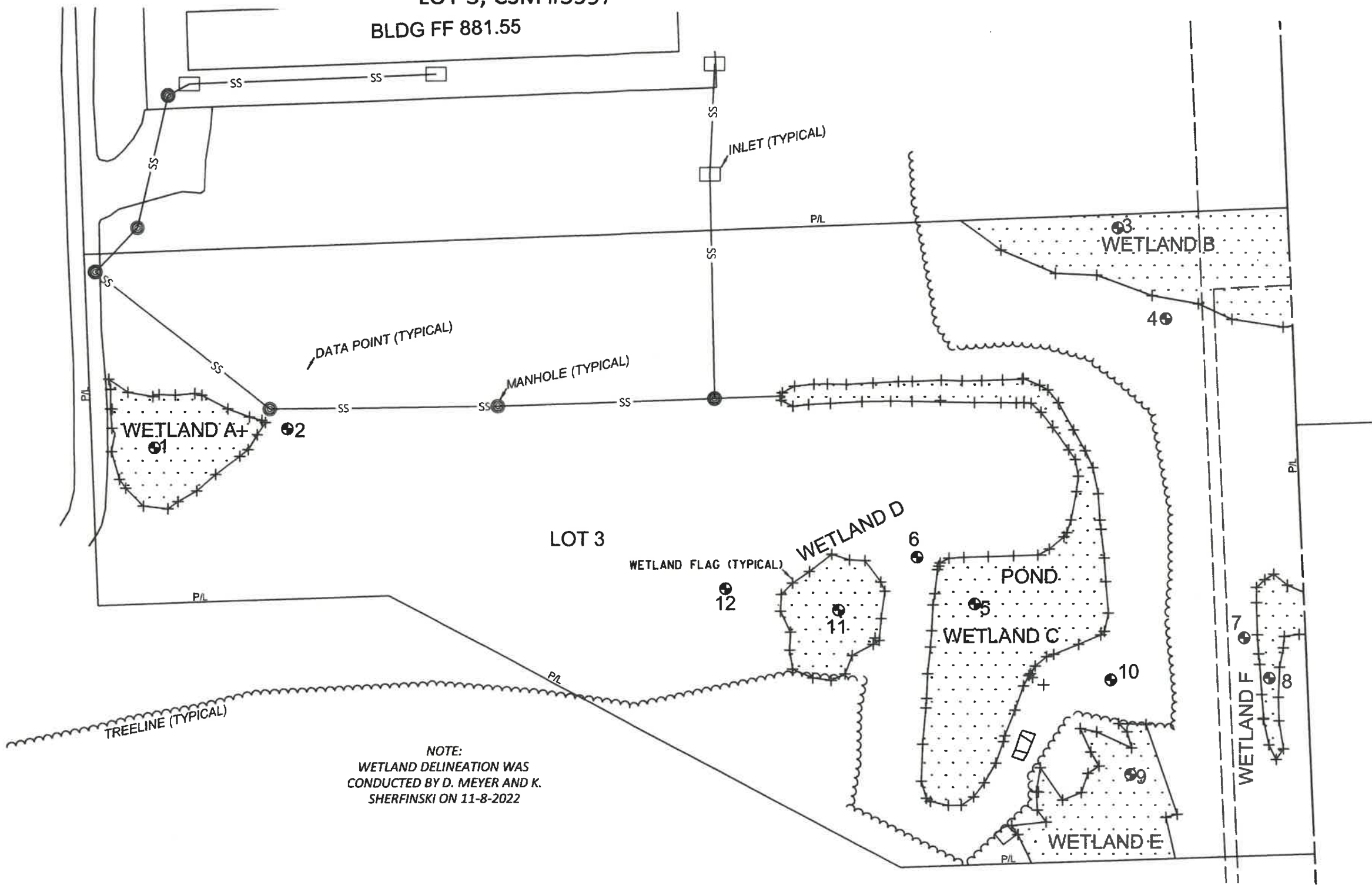


Map produced by the Ozaukee
Water Management Dept.
The information on the aer

Attachment: Venturespace Combined File (ORD.24-9 : Shoreland& Floodplain Zoning Map Amendment- Town of Cedarburg, Section 21 -

WETLAND EXHIBIT

LOT 3, CSM #3997
BLDG FF 881.55



NOTE:
WETLAND DELINEATION WAS
CONDUCTED BY D. MEYER AND K.
SHERFINSKI ON 11-8-2022

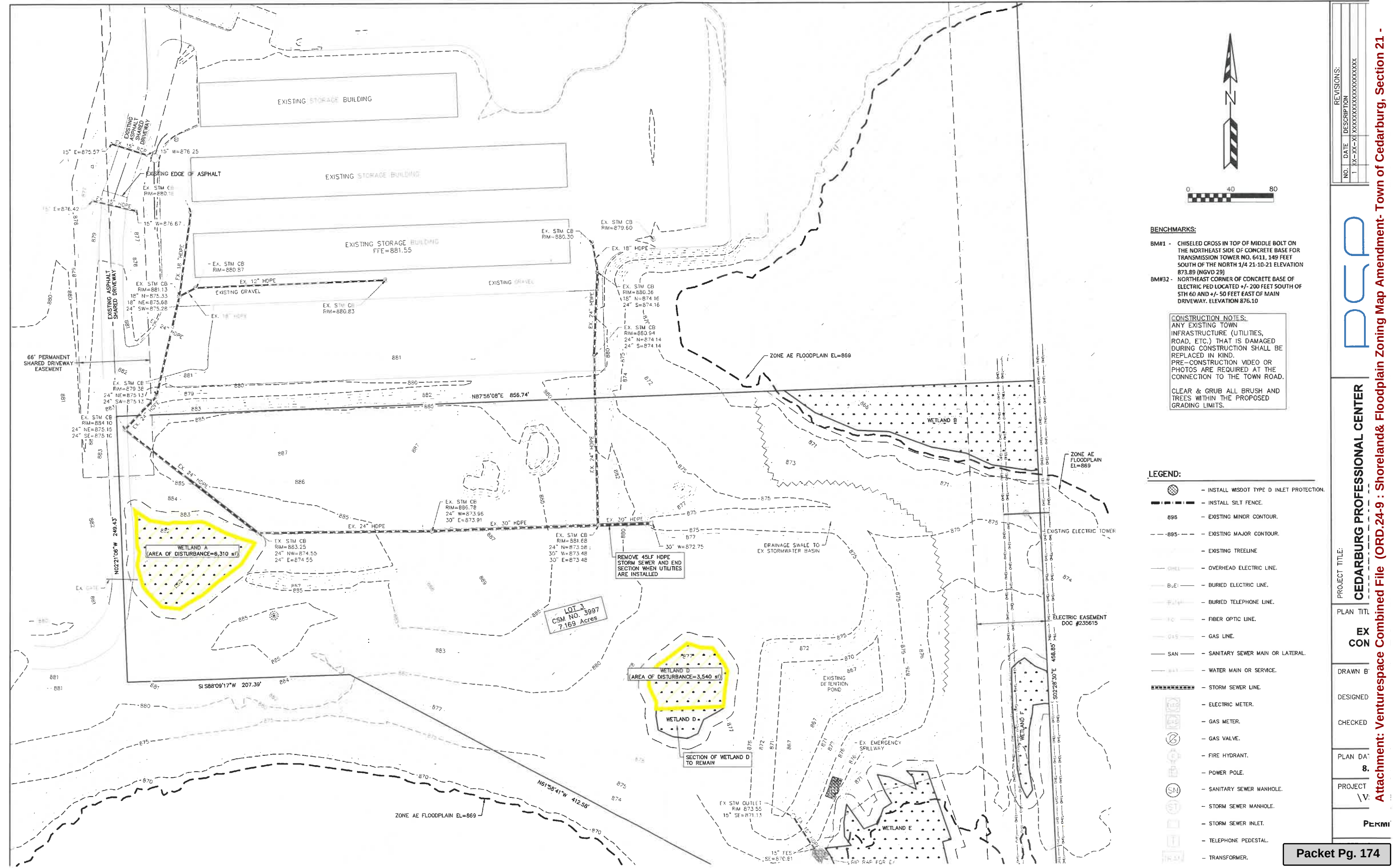


PREPARED BY:
M SQUARED ENGINEERING LLC
N19 W6719 COMMERCE CT
CEDARBURG, WI 53012
PHONE (262) 376-4246
msquaredengineering.com

PROJECT: **WETLAND EXHIBIT**
8535 S.T.H. 60
CEDARBURG WI 53012

CLIENT: **VENTURE SPACE**

PROJECT NO:	22-702-120	DATE	12/02/22	DESCRIPTION OF REVISION	WETLAND EXHIBIT	SHEET:
SCALE:	1" = 80'					1 OF 1
DRAWN BY:	A. GROMACKI					
CHECKED BY:						



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

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



07/19/2023

Michael Frede
 W330 N4191 Lakeland Drive
 Nashotah, WI 53058
 [sent electronically]

EXE-SE-2023-46-01945

RE: Artificial Wetland Exemption Determination for an area described as Wetland C located in the City of Cedarburg, Ozaukee County

Dear Mr. Frede:

This letter is in response to your request for an artificial wetland exemption determination for the above mentioned wetlands.

According to 281.36 (4n), State Statutes, a landscape feature where hydrophytic vegetation may be present as a result of human modification to the landscape or hydrology and for which no definitive evidence exists showing a prior wetland or stream history before August 1, 1991, may be exempt from state wetland regulations. The following types of artificial wetlands cannot be exempted from state wetland regulation: 1) a wetland that serves as a fish spawning area or that is passage to a fish spawning area and 2) a wetland created as a result of a wetland mitigation requirement. In addition, DNR must also consider whether the artificial wetland is providing significant flood protection to adjacent or downstream properties and infrastructure, and/or significant water quality functions to adjacent or downstream water bodies.

The Department reviewed the following materials to aid in our exemption determination:

- The request narrative
- Site photographs that show different angles and views of the wetland
- Historic Maps such as the Original Land Survey Plat, Bordner Survey, USGS topographic Quad map, and/or soil mapping

Conclusion:

Based upon the information provided above, the wetland identified as Wetland C, lacked a wetland history prior to August 1, 1991, and fulfills all artificial wetland exemption standards. Therefore, Wetland C is exempt from state wetland regulations.

This letter describes DNR's decision regarding the jurisdictional status of Wetland C, and is only valid for state jurisdictional purposes. For decisions regarding the federal jurisdictional status of Wetland C, you will need to contact the U.S. Army Corps of Engineers.

If you have any questions, please call me at (414) 430-7129 or email michelle.soderling@wisconsin.gov.

Sincerely,

Michelle Soderling
 Water Management Specialist

Copy to: USACE Project Manager
 County Zoning Administrator
 Evan Nickodem, PSE

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
 N7725 Hwy 28
 Horicon, WI, 53032

Tony Evers, Governor

 Telephone 608-266-2621
 Toll Free 1-888-936-7463
 TTY Access via relay - 711



August 7, 2024

EXE-SE-2024-46-02283

Michael Frede
 W330 N4191 Lakeland Drive
 Nashotah, WI
 53058

RE: Nonfederal Wetland Exemption Determination for an area described as **Wetlands A** and **D** located at 8535 State Road 60 (parcel 03-021-05-003.00) in the Town of Cedarburg, Ozaukee County

Dear Mr. Frede,

This letter is in response to your request for a nonfederal wetland exemption determination for the above mentioned wetlands.

According to 281.36 (4n), Wis. Stats., a nonfederal urban wetland is a wetland that is not federally jurisdictional. Projects impacting nonfederal wetlands in urban areas must be less than 1 acre of total impact per parcel. Mitigation will be required for impacts greater than 10,000 sq ft up to 1 acre. The applicant must have a nonfederal jurisdictional determination from the Army Corps of Engineers along with a map of the wetland(s) involved. In addition, DNR must also consider whether the nonfederal wetland is a rare and high quality wetland as defined in s 281.36(4n), Wis. Stat.

The Department reviewed the following materials to aid in our exemption determination:

- The request narrative including project scope and purpose
- Site location map and photographs that show different angles and views of the wetland
- Botanical survey results
- Wetland delineation information

Below is a summary of our findings:

Request Narrative

According to the request narrative the total wetland impacts to **Wetland A** will be 6,310 square feet and the impacts to **Wetland D** will be 3,540 square feet for a total of 9,850 square feet. The purpose of this project is to construct 18 small buildings for businesses and a parking area.

Site Location and Photographs

The site location confirms that the wetland is located in an urban area. Wetland photographs also show **Wetland A** as having dense herbaceous vegetation with one tree and **Wetland D** as having dense herbaceous vegetation with what appears to be saplings.

Botanical Survey

The botanical survey demonstrates that the wetland is not a rare and high quality wetland.

Wetland Delineation Information

The wetland delineation shows that **Wetland A** is dominated by reed canary grass and black willow. **Wetland D** is dominated by purple loosestrife, reed canary grass, and frost and calico aster.

Stormwater Compliance Information

The documentation demonstrated that the project will be completed in compliance with applicable WPDES stormwater permits and stormwater ordinances adopted under s. 59.693, 60.627, 61.354, or 62.234, Wis. Stats.



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

December 7, 2022

Michael Frede
VentureSpace LLC
W330 N4191 Lakeland Drive
Nashotah, WI 53058

Dear Mr. Frede:

Wetland & Waterway Consulting (WWC) has conducted a wetland delineation on property located in Sec. 21, T10N, R21E, Town of Cedarburg, Ozaukee County. The delineation was conducted on November 8, 2022 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.

The subject site is a 7.169-acre parcel located at 8535 State Road 60, which is southwest of the intersection of State Road 60 and State Road 181. The predominant land cover for this property is old field, forest, and wetland.

INTRODUCTION

Dave Meyer, the owner of WWC and co-delineator for this project, is an independent environmental consultant providing environmental permitting services, site assessments, wetland delineations, 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, the Wetland Training Institute's Advanced Hydrology for Jurisdictional Determinations in 2016, and the SEWRPC Environmental Corridor Delineation Workshops in 2004 and 2015. Mr. Meyer is recognized by the Wisconsin Department of Natural Resources as an Assured Delineator.

Kristi Sherfinski, the co-delineator for this project, is also recognized as an Assured Wetland Delineator with the Wisconsin Department of Natural Resources (WDNR). She has over 20 years of experience delineating wetlands in the Great Lakes Region. She received her initial basic wetland training at the Wetland Training Institute in Hastings, Michigan in 2002. Kristi worked as a project manager and wetland delineator at JFNew & Associates in Grand Haven, Michigan for six years, conducting wetland delineations in Michigan, Indiana, Illinois, and Wisconsin. Kristi then moved to Wisconsin to work for the Southeastern Wisconsin Regional Planning Commission (SEWRPC) with Dr. Donald Reed. At SEWRPC, Kristi updated the Wisconsin Wetland Inventory (WWI) in 2005 and in 2010 for the seven-county area of southeast Wisconsin. Kristi participated in the Advanced Wetland Delineation training in 2006. In 2009, she attended the Wetland Delineation USACE Regional Supplement training session, the Environmental Corridor Delineation Workshop, and the Farm Service Agency (FSA) Slide Review training session. After working at SEWRPC for seven years, Kristi worked as an environmental specialist at JSD Professional Services, Inc. for two years, before she started her own consulting business.

Dave Meyer and Kristi Sherfinski conducted the wetland delineation field work on November 8, 2022. Field conditions on November 8 were partly cloudy with air temperatures in the 40s (°F). It was the dry season; therefore, dry season methodology was followed per the Northcentral and Northeast Regional supplement. Growing season conditions were still present. The soil temperature at 12 inches below the ground surface measured in wetland plots was 45°F. Actively growing green plants recorded included dandelion, Kentucky bluegrass, reed canary grass, and bee balm.

METHODS

The process of wetland delineation involves collecting information about the soils, vegetation, and hydrology of a site in order to determine where the wetland boundary is located. The methodology used to conduct the delineation followed the US Army Corps of Engineers Wetlands Delineation Manual (1987), and the appropriate Regional Supplement to the Corps of Engineers Wetland Delineation Manual. In general, in southeastern and western Wisconsin, the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0, August, 2010) is used. The remaining portions of the state follow the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (Version 2.0, January, 2012). At this site, the Northcentral and Northeast Region manual was used.

Prior to the site visit, several sources of data are consulted to reveal information that will aid in locating wetlands on the site. The sources reviewed include weather records to determine antecedent hydrologic conditions, the Wisconsin Wetland Inventory (WWI) map, the soil survey map, a topographic map, and historic aerial photographs of the project area. In areas that are

under active cultivation as farmland, a Farm Service Agency (FSA) Slide Review is also conducted if hydric soils are mapped.

Data sample points are chosen based on the potential wetland areas identified by reviewing the above-referenced sources, and other sample points are added based on information gathered while in the field. Sample points are chosen on either side of the wetland line for their ability to reveal information about the actual location of the line, and upland reference data samples are chosen in order to show the contrast between wetland and upland field conditions.

Once a data sample point is chosen and located in the field, data is collected on the vegetation, the hydrology, and the soils of the site. Vegetation is identified by strata (tree, shrub, herbaceous, and vine layers), and an aerial coverage percent is determined for each species by layer. The plot size for the tree, shrub, and vine layers is a 30-foot radius circle, and the plot size for the herbaceous layer is a 5-foot radius circle. The scientific names and wetland status of each plant species follows the National Wetland Plant List (2018). Once all species have been assigned a cover percentage, the dominance by wetland indicator plant species is assessed.

Hydrological indicators, as described in the Regional Supplements, are then listed for the sample point. A soil pit is excavated to required depths, saturation, and the water table is recorded. The soil profile at the sample point is also described, using the Munsell Soil-Color Charts (2009) to assess the color of the soil, and a texture analysis to determine the predominant texture of each soil layer. This data is used to determine if the soil profile meets the hydric soil indicators as defined in the Regional Supplements and the Field Guide for Identifying Hydric Soils V. 8.2 (USDA, 2018).

Once the location of the wetland line is determined from the data sampling effort, the edge of the wetland is flagged in the field and then surveyed in order to produce a map of the wetland that occurs on the subject property. Representative photographs of the sample points and of each wetland area were taken during the field visit. Any ditch, stream, pond or other water body that may be considered a Water of the U.S. and thus regulated by the U.S. Army Corps of Engineers (USACE) or the Wisconsin Department of Natural Resources (WDNR) is also identified.

RESULTS AND DISCUSSION

Antecedent Hydrologic Condition Analysis

Weather records were consulted from the Germantown Wastewater Utility weather station to determine if precipitation levels were normal (based on 1990-2020) for the three months prior to the site visit. The antecedent hydrologic condition analysis for the site revealed that climatic conditions near the site were normal at the time of the site visit (**Table 1**). Drier than normal conditions means that hydrologic indicators may be absent from the wetland sample points and the data must be interpreted accordingly. Wetter than normal conditions must be accounted

for when interpreting the data because saturation or the water table may be higher than it is during normal conditions, giving false positives for hydrological indicators.

Table 1 – Antecedent Hydrologic Condition Analysis

Month	3 yrs in 10 Less Than* (inches)	3 yrs in 10 More Than* (inches)	Rain Fall (inches)	Condition Dry, Wet, Normal	Condition Value	Month Weight Value	Product of Previous Two Columns
October	1.72	3.19	1.01	Dry	1	3	3
September	1.89	3.91	6.26	Wet	3	2	6
August	2.64	4.61	5.09	Wet	3	1	3
						Sum	12
If sum is:							
6-9	Then prior period has been drier than normal						
10-14	Then prior period has been normal						
15-18	Then prior period has been wetter than normal						
Conclusions:	A sum of 12 shows the prior period to the site visit to be normal.						

*Averages based on the 1990-2020 data.

Review of Existing Data Sources

Existing data sources were reviewed to aid in the identification of wetland areas in the field.

The topographic map shows a vegetated parcel with past disturbance evidenced by multiple fill piles and depressions. The site slopes down to about 867 feet in elevation in the forested wetland along the northeast and southeast boundaries. An open water stormwater pond is visible in the center of the east side of the site. The highest point of the site is approximately 889 feet in elevation on top of the hill west of the stormwater basin. Hillslopes range from 5-15%, leveling out to 0-2% in the depressional areas. An intermittent creek is visible to the south of the property.

The soil survey map shows four different soil types. The Ogden mucky peat is Hydric and the Ozaukee silt loam is Predominantly Non-hydric, but may include hydric inclusions in depressions. The remaining soils were non-hydric. All of the soil types occurring on the property are listed in **Table 2**.

Table 2 – Soil Types

Map Symbol	Map Unit Name	Hydric Soil Type
HmC2	Hochheim loam, 6-12%,	Non-hydric

	eroded	
Od	Ogden mucky peat	Hydric
OuB2	Ozaukee silt loam, high carbonate substratum, 2-6%, eroded	Predominantly Non-hydric
ThB	Theresa silt loam, 2-6%	Non-hydric

The Wisconsin Wetland Inventory identifies a T3/E1K, forested/emergent wetland, in both the northeast and southeast corners of the parcel.

Historic aerial photographs show that the parcel was farmed with adjacent forest immediately east and south of the parcel as of 1941. There were no more signs of cultivation on the east side of the site after the 1960s, at which time the east portion of the parcel began to develop into old field and woods. Farming ceased on the rest of the site between 2015 and 2020, when a stormwater retention basin on the east side of the site and an access road along the west boundary were constructed.

A previous delineation of the site was conducted in 2017.

Wetlands Identified During the Site Visit

A total of six wetlands were identified on the property during the field visit. A description of each wetland follows.

Wetland A is a disturbed wet meadow wetland on the west side of the site. DP1 was taken in a depression and had dominant species which included black willow, red osier dogwood, green ash, and reed canary grass. The soils met the criteria for A11. Depleted Below Dark Surface and F6. Redox Dark Surface. The soils were saturated at the surface with a water table at three inches below the surface, and the hydrology indicators included High Water Table, Saturation, Geomorphic Position, and FAC-Neutral Test. The adjacent upland point (DP2) was located on a hillslope in old field and the dominant species were grass-leaved goldenrod, Kentucky bluegrass, Canadian goldenrod, and tall fescue. The sample point lacked hydric soils and wetland hydrology.

Wetland B is a disturbed forested/scrub-shrub wetland in the northeast corner of the site mapped as forested/emergent wetland by the Wisconsin Wetland Inventory. DP3 was taken at the toe of slope and the dominant species included green ash, common buckthorn, white avens, and river bank grape. The soils met the criteria for F6. Redox Dark Surface. The soils were saturated at 11 inches below the surface with a water table at 21 inches below, and the hydrology indicators included Saturation, Dry-Season Water Table, Geomorphic Position, and FAC-Neutral Test. The adjacent upland point (DP4) was located on a 15% hillslope in old field

where the dominant species included gray dogwood, prickly ash, hybrid honeysuckle, and Kentucky bluegrass. The sample point lacked hydric soils and wetland hydrology.

Wetland C is an open stormwater pond with an emergent wetland fringe in the center of the east side of the site. DP5 was taken at the toe of slope and the dominant species was narrow-leaved cattail. The soils met the criteria for F6. Redox Dark Surface. There were three inches of standing water in the plot. The hydrology indicators included Surface Water, Inundation Visible on Aerial Imagery, Geomorphic Position, and FAC-Neutral Test. The adjacent upland point (DP6) was located on a hillslope of a berm in old field where the dominant species were Kentucky bluegrass and frost aster. The sample point lacked hydric soils and wetland hydrology.

Wetland D is a disturbed wet meadow wetland west of the stormwater pond. DP11 was taken in a closed depression and the dominant species were eastern cottonwood, purple loosestrife, and reed canary grass. The soils met the criteria for F3. Depleted Matrix. There were two inches of standing water in the plot and the hydrology indicators included Surface Water, Geomorphic Position, and FAC-Neutral Test. The adjacent upland point (DP12) was located on a hillslope in old field where the dominant species were autumn olive, Kentucky bluegrass, and Canadian goldenrod. The sample point lacked hydric soils and wetland hydrology.

Wetland E is a disturbed forested wetland along the southeast boundary of the site in an area mapped as forested/emergent wetland by the Wisconsin Wetland Inventory. DP9 was taken at the toe of slope and the dominant species were green ash, common buckthorn, fowl manna grass, and reed canary grass. Approximately 70% of the tree stratum was composed of dead green ash trees. The soils met the criteria for A12. Thick Dark Surface and F6. Redox Dark Surface. The soils were saturated at the surface with the water table eight inches below and the hydrology indicators included High Water Table, Saturation, Water Marks, Water-Stained Leaves, Geomorphic Position, and FAC-Neutral Test. The adjacent upland point (DP10) was located on a hillslope in old field where the dominant species were American elm, sugar maple, hybrid honeysuckle, common buckthorn, Canadian goldenrod, and Kentucky bluegrass. The sample point lacked hydric soils and wetland hydrology.

Wetland F is a disturbed wet meadow wetland under the power lines along the east boundary of the site. DP8 was taken in a swale and the dominant species were green ash, silky dogwood, and reed canary grass. The soils met the criteria for F6. Redox Dark Surface. The hydrology indicators included Drainage Patterns, Geomorphic Position, and FAC-Neutral Test. The adjacent upland point (DP7) was located on a hillslope in old field where the dominant species were autumn olive, eastern red cedar, common buckthorn, and Kentucky bluegrass. The sample point lacked hydric soils and wetland hydrology.

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. Because this delineation was conducted by Ms. Sherfinski, 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. In addition, because a wetland delineation is considered to be a point in time determination, wetland delineations are considered to be valid for a period of only five years for federal wetlands and 15 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. Weather patterns and site conditions can change over time, making a new delineation 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



Kristi Sherfinski

Attachments

1. Literature Cited
2. Location map
3. USGS topo maps
4. Soil Survey maps
5. Wisconsin Wetland Inventory map
6. Historical Aerial Photographs
7. Previous Delineation Map
8. Site photographs
9. Data Points
10. Wetland boundary map

LITERATURE CITED

Environmental Laboratory. 1987. Corps of Engineers Wetland Delineation Manual. Technical Report Y-87-1. Vicksburg, MS: U.S. Army Engineer Waterways Experiment Station.

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Lichvar, R.W, D.L. Banks, W.N. Kirchner, and N.C. Melvin. 2018. State of Wisconsin 2018 Wetland Plant List. The National Wetland Plant List: 2018 Wetland Ratings. Phytoneuron 2016-30: 1-17.

Munsell Color X-rite. 2009. Munsell Soil-Color Charts. Grand Rapids, MI.

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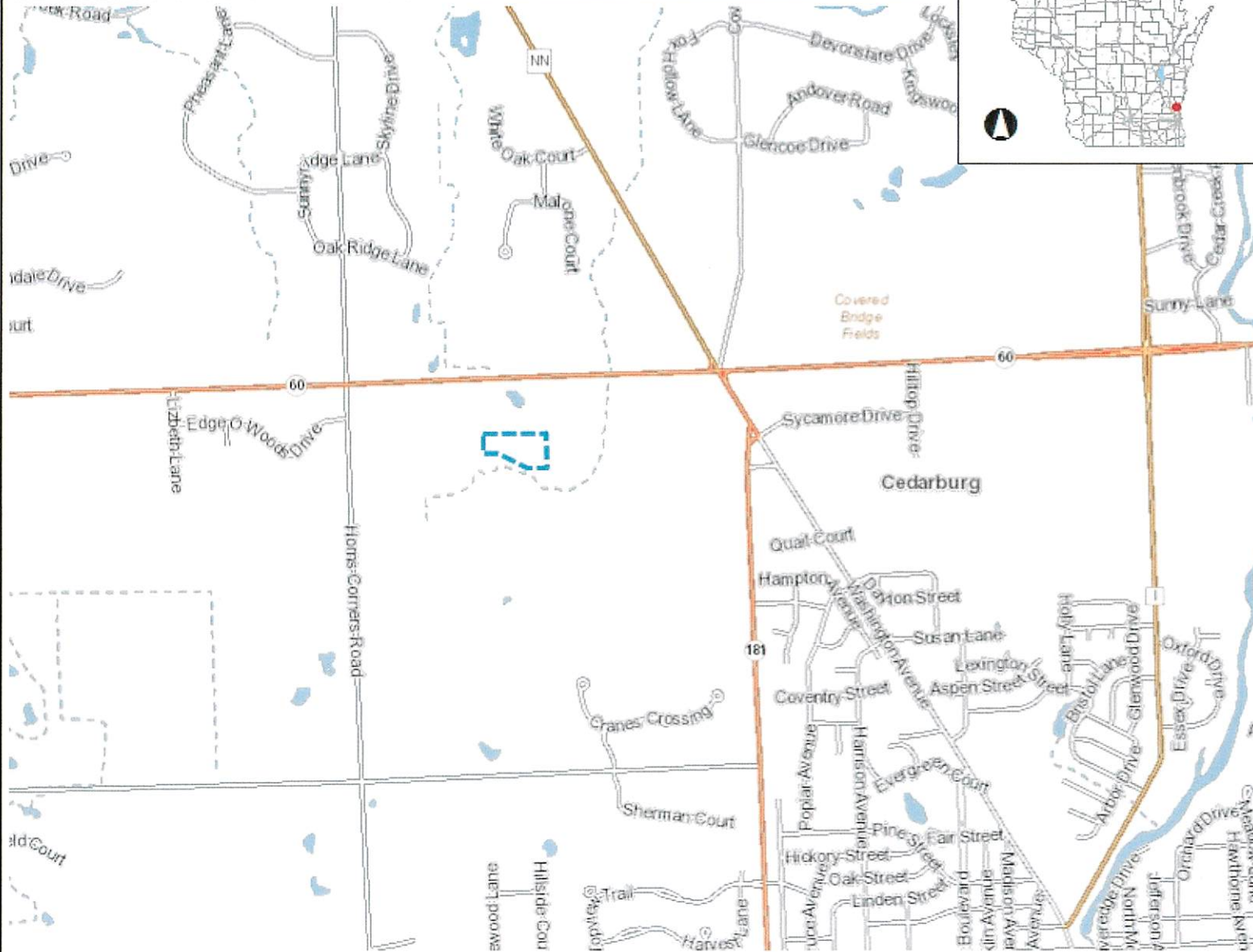
USDA Natural Resources Conservation Service. 2018. Field Indicators of Hydric Soils in the United States: A Guide for Identifying and Delineating Hydric Soils, Version 8.2, ed. L. M. Vasilas, G.W. Hurt, and C.V. Noble. Washington, DC: USDA NRCS in cooperation with the National Technical Committee for Hydric Soils.

USDA Natural Resources Conservation Service. Web Soil Survey. Online: www.websoilsurvey.sc.egov.usda.gov.

Wisconsin DNR Surface Water Data Viewer (SWDV). Online: www.dnr.wi.gov/topic/surfacewater/swdv/.



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
- Rivers and Streams
- Intermittent Streams
- Lakes and Open water

Notes

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/>

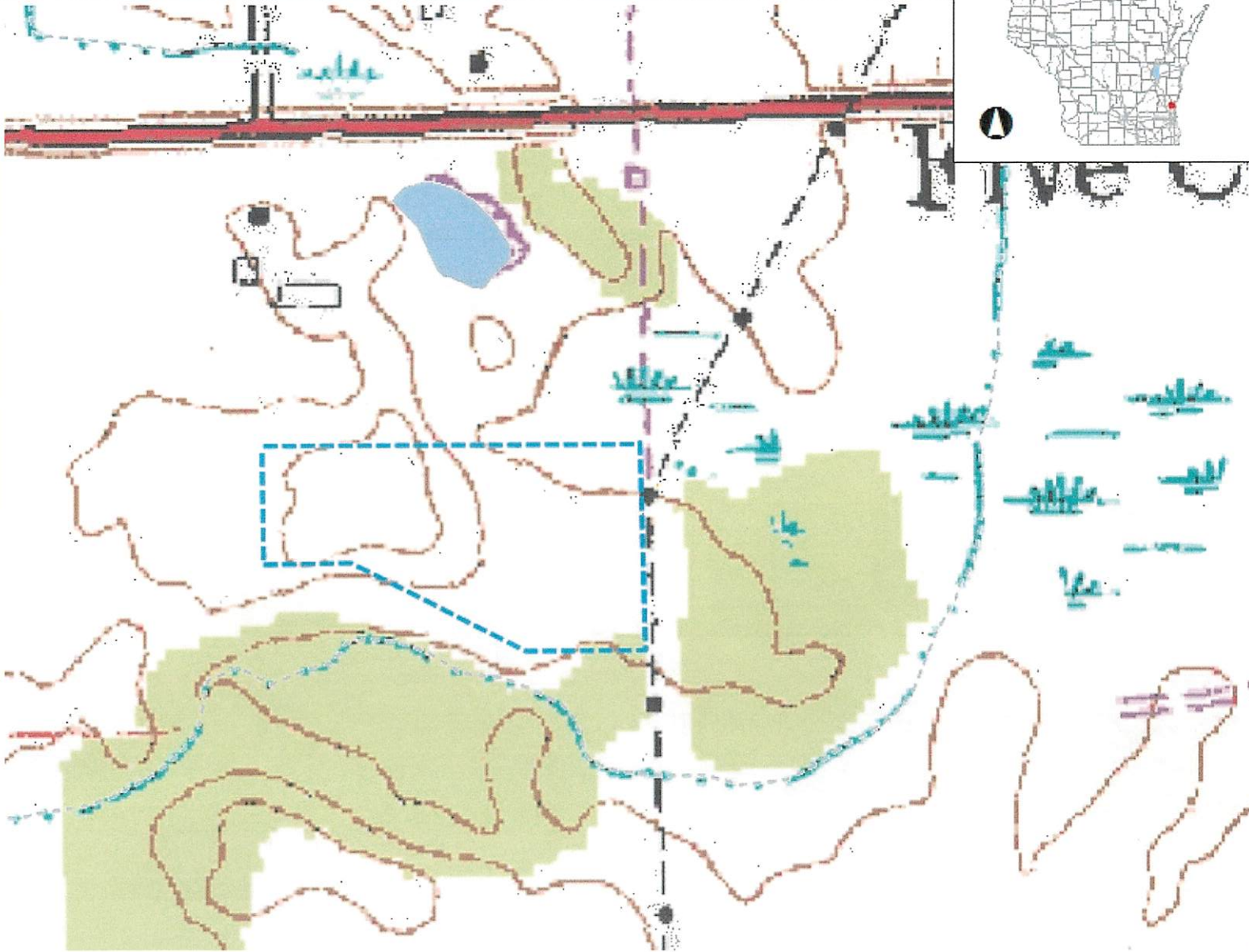
0.8 0 0.38 0.8 Miles

NAD_1983_HARN_Wisconsin_TM

1: 23,760



Surface Water Data Viewer Map



Legend

- Rivers and Streams
- Intermittent Streams
- Lakes and Open water
- 24K USGS Quad Index - Level 7 - 16
- Index to EN_Image_Basemap_Leaf_Off

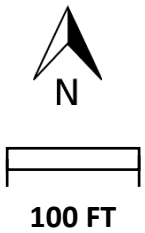
0.1 0 0.06 0.1 Miles

NAD_1983_HARN_Wisconsin_TM

1: 3,960

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/>

Notes



TOPOGRAPHIC MAP

Source: Ozaukee County GIS, 2022



Surface Water Data Viewer Map



Legend

- NRCS Wisconsin Soils
- Soil Mapping Unit
- Water
- Index to EN_Image_Basemap_Leaf_Off



0.1 0 0.03 0.1 Miles

NAD_1983_HARN_Wisconsin_TM

1: 1,980

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Notes

Soil Map—Ozaukee County, Wisconsin



Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
HmC2	Hochheim loam, 6 to 12 percent slopes, eroded	2.6	37.0%
Od	Ogden mucky peat	0.1	1.5%
OuB2	Ozaukee silt loam, high carbonate substratum, 2 to 6 percent slopes, eroded	0.9	12.7%
ThB	Theresa silt loam, 2 to 6 percent slopes	3.4	48.8%
Totals for Area of Interest		7.1	100.0%

Report—Hydric Soil List - All Components

Hydric Soil List - All Components--WI089-Ozaukee County, Wisconsin					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
HmC2: Hochheim loam, 6 to 12 percent slopes, eroded	Hochheim-Eroded	85-92	Drumlins	No	—
	Theresa	4-8	Drumlins	No	—
	Hochheim	4-7	Drumlins	No	—
Od: Ogden mucky peat	Ogden	100	Depressions on glacial lakes (relict)	Yes	1,3
OuB2: Ozaukee silt loam, high carbonate substratum, 2 to 6 percent slopes, eroded	Ozaukee-High carbonate substratum, eroded	92-100	Ground moraines,end moraines	No	—
	Ashkum-Drained	0-5	End moraines,ground moraines	Yes	2
	Urban land	0-3	Ground moraines	No	—
	Orthents, clayey	0-3	Ground moraines	No	—
ThB: Theresa silt loam, 2 to 6 percent slopes	Theresa	80-92	Drumlins	No	—
	Hochheim	5-14	Drumlins	No	—
	Lamartine	3-6	Drumlins	No	—

Data Source Information

Soil Survey Area: Ozaukee County, Wisconsin

Survey Area Data: Version 19, Sep 7, 2022



Surface Water Data Viewer Map



Legend

- Wetland Class Areas
- Wetland Class Points
- Dammed pond
- Excavated pond
- Filled/draind wetland
- Wetland too small to delineate
- Filled excavated pond
- Filled Points
- Wetland Class Areas
- Filled Areas
- Wetland Identifications and Confirmations
- Index to EN_Image_Basemap_Leaf_Off

Notes

0.1 0 0.03 0.1 Miles

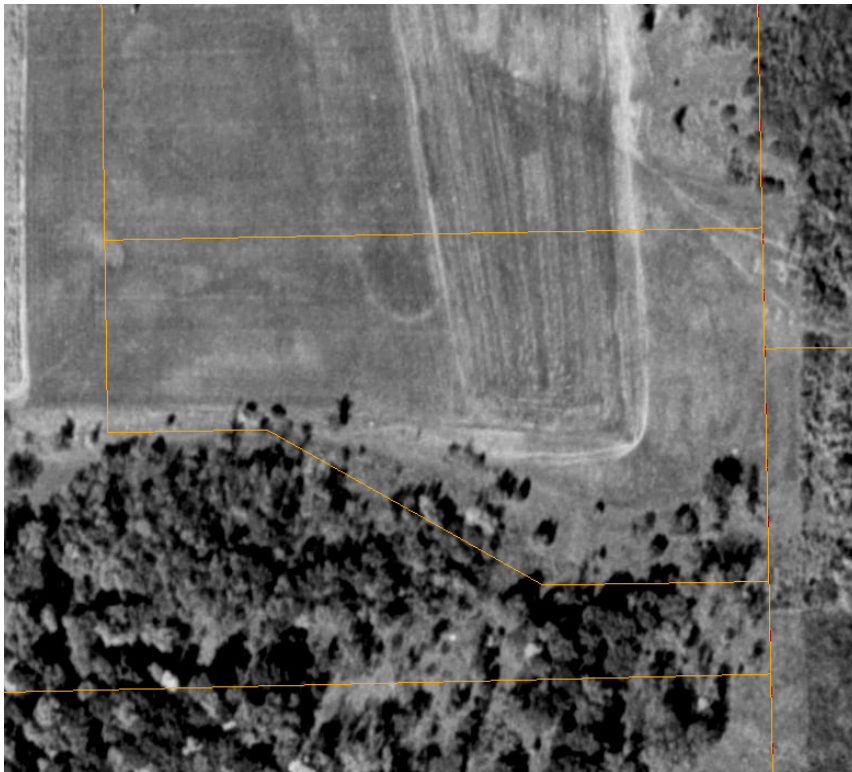
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1: 1,980

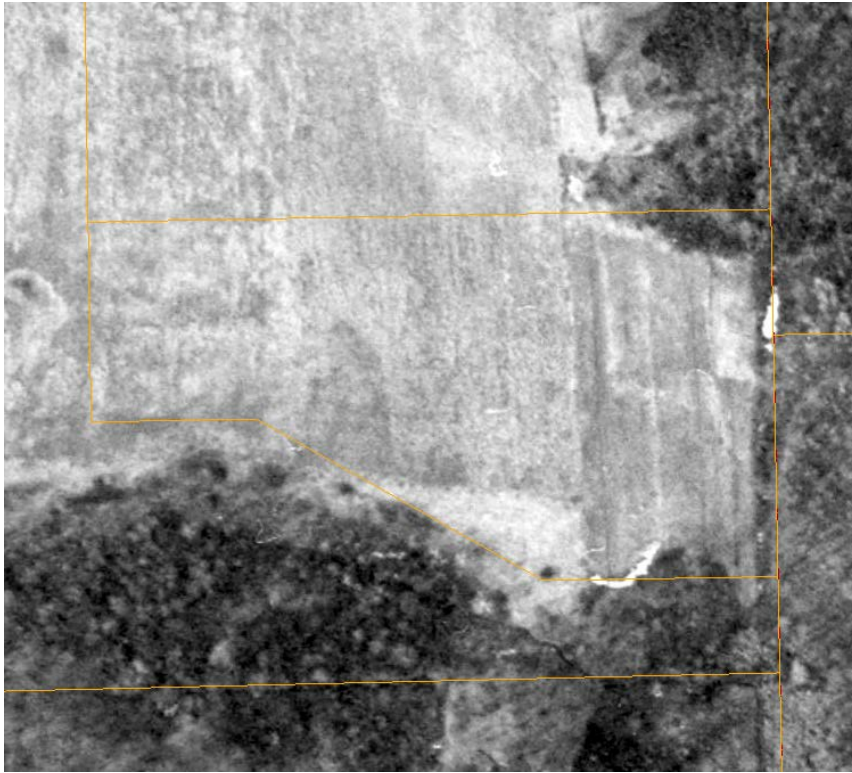
DISCLAIMER: The information shown on these maps has been obtained from various sources, and are of varying age, reliability and resolution. These maps are not intended to be used for navigation, nor are these maps an authoritative source of information about legal land ownership or public access. No 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/>



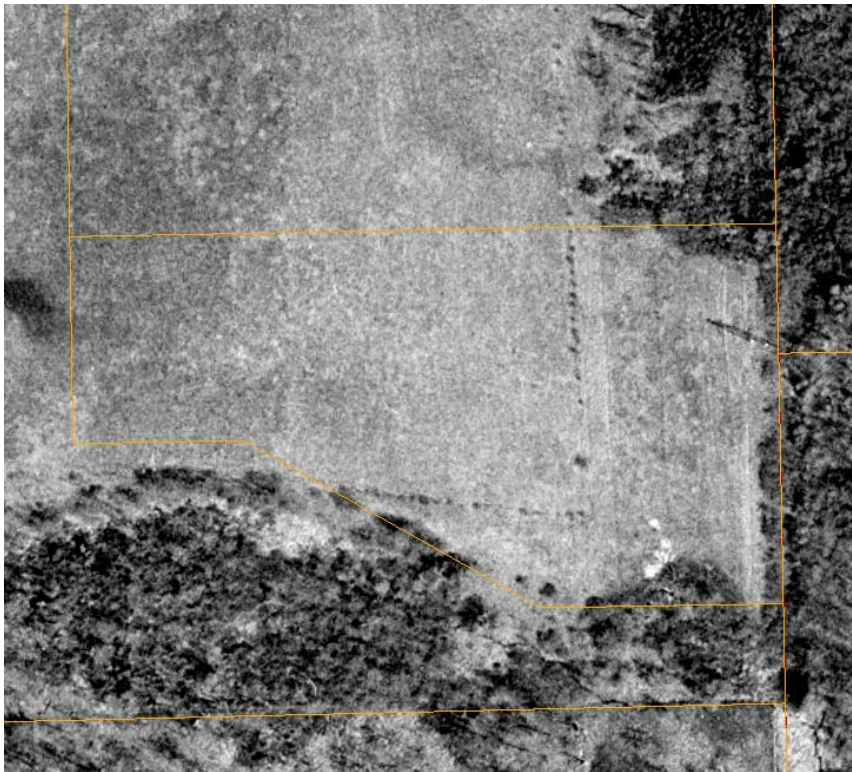
1941.



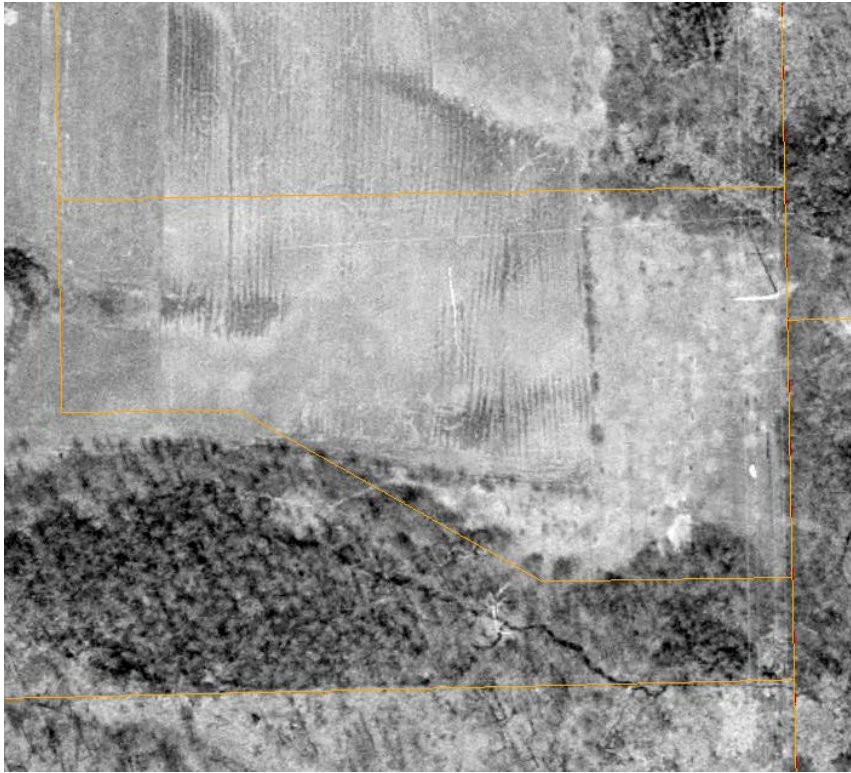
1950.



1963.



1970.



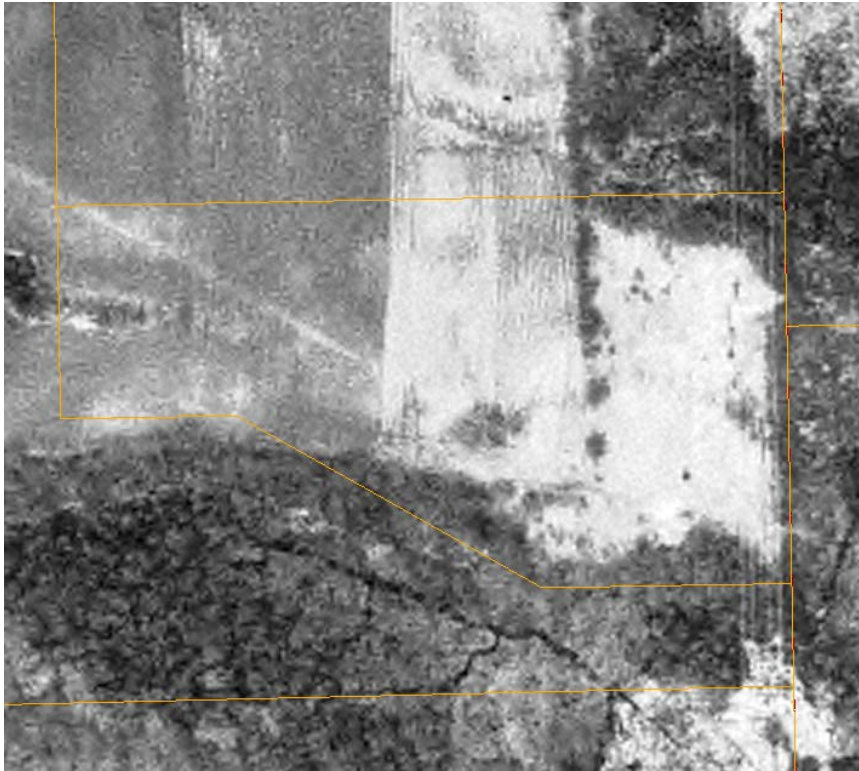
1980.



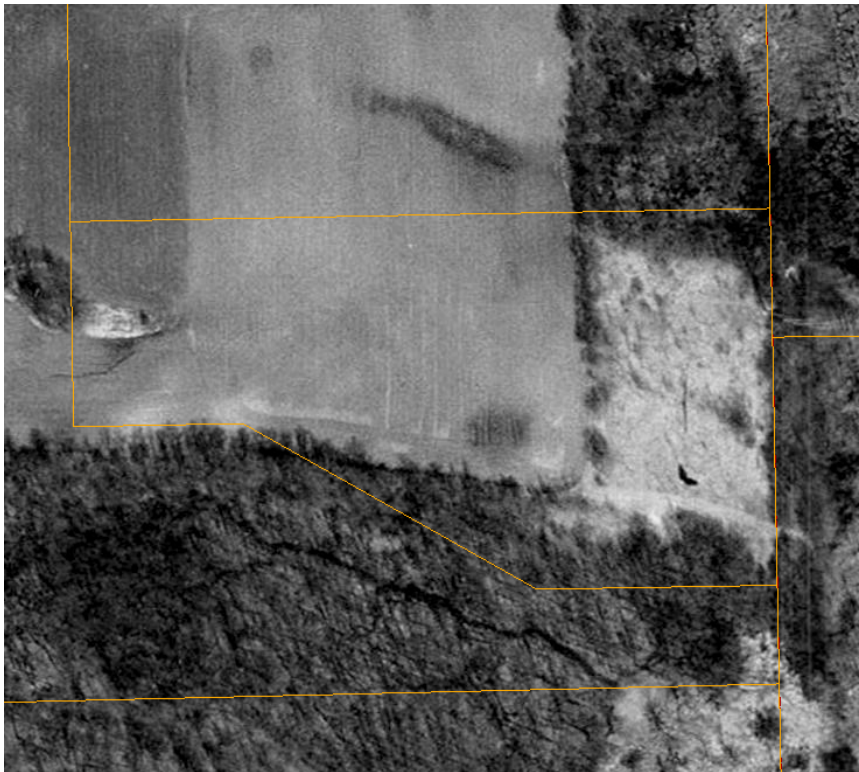
1990.

Attachment: Venturespace Combined File (ORD.24-9 : Shoreland& Floodplain Zoning Map Amendment- Town of Cedarburg, Section 21 -

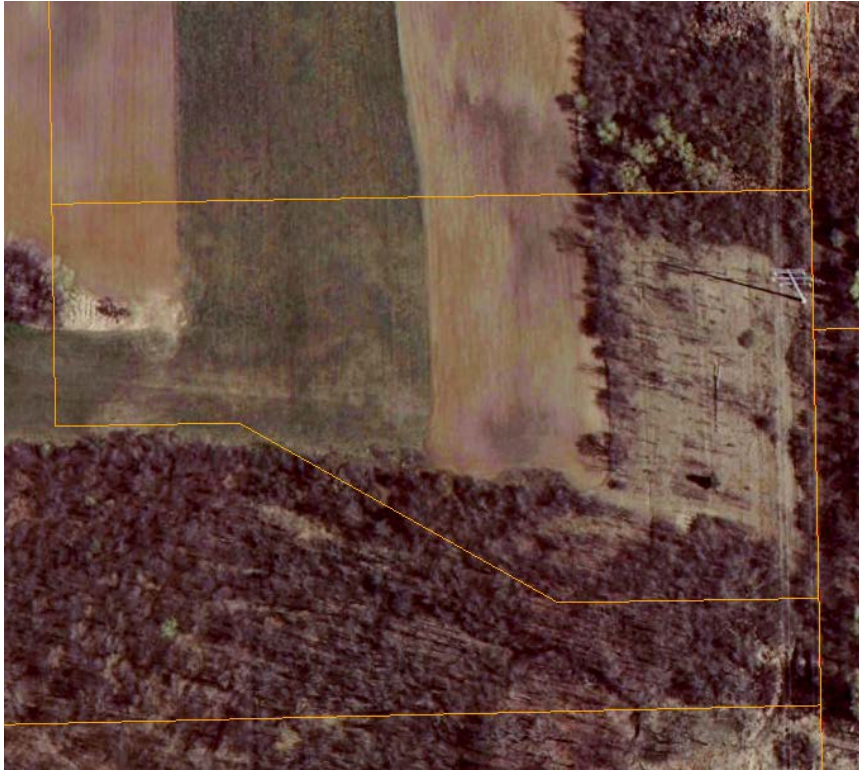
1995.



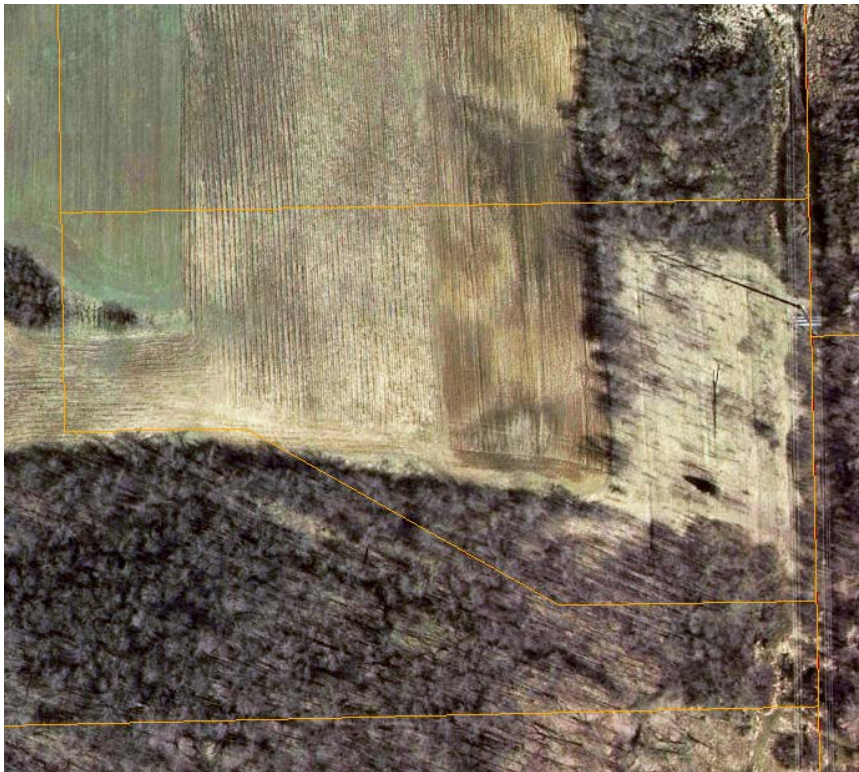
2000.



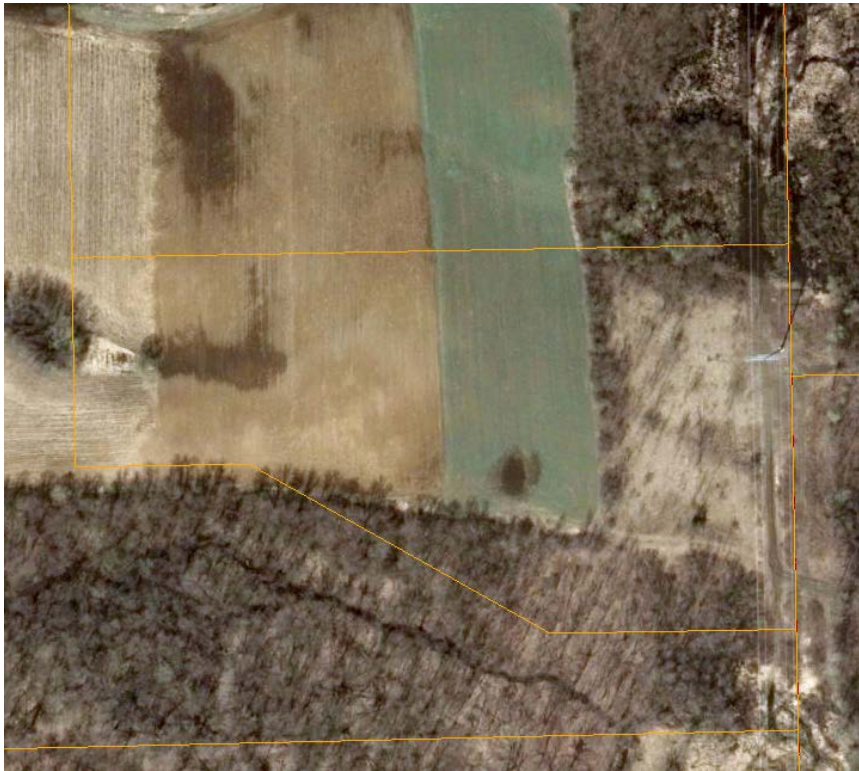
2005.



2007.



2010.



2015.



2020.







Wetland A is a disturbed wet meadow wetland on the west side of the site, near the access road.



View of Wetland B. DP3 was taken at the toe of slope and had dominant species which included green ash, common buckthorn, white avens, and river bank grape.

SITE PHOTOS



Wetland C is an open stormwater pond with an emergent wetland fringe. The dominant species was narrow-leaved cattail.



View of Wetland D, which was a disturbed wet meadow wetland dominated by eastern cottonwood, purple loosestrife, and reed canary grass.

SITE PHOTOS



Wetland E is a disturbed forested wetland along the southeast boundary of the parcel.

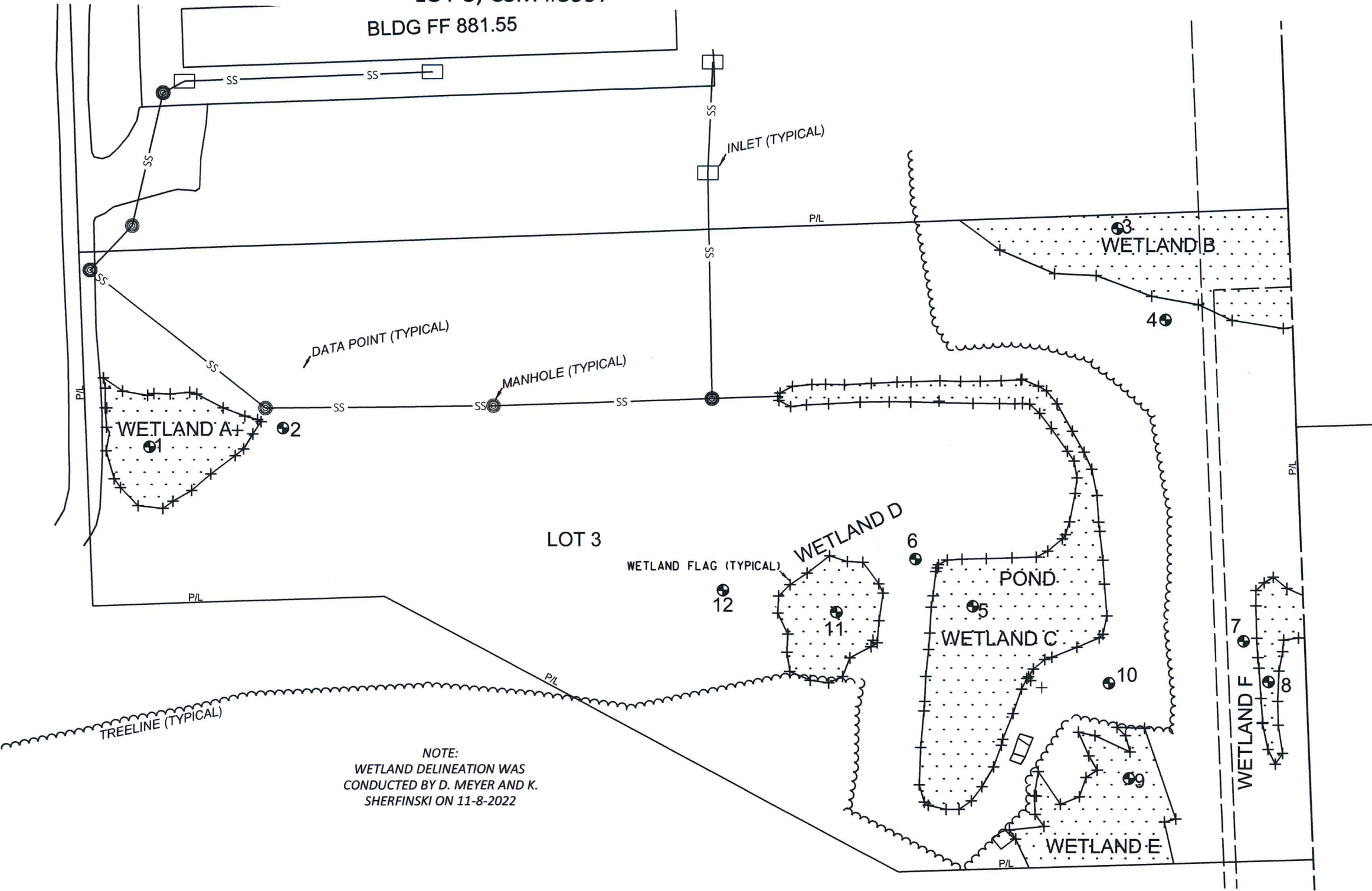


Wetland F is a disturbed wet meadow wetland under the power lines along the east boundary of the site.

SITE PHOTOS

WETLAND EXHIBIT

LOT 3, CSM #3997
BLDG FF 881.55



NOTE:
WETLAND DELINEATION WAS
CONDUCTED BY D. MEYER AND K.
SHERFINSKI ON 11-8-2022



PREPARED BY:
M SQUARED ENGINEERING LLC
N19 W6719 COMMERCE CT
CEDARBURG, WI 53012
PHONE (262) 376-4246
msquaredengineering.com

PROJECT: WETLAND EXHIBIT 8535 S.T.H. 60 CEDARBURG WI 53012			CLIENT: VENTURE SPACE
PROJECT NO: 22-702-120	DATE: 12/02/22	DESCRIPTION OF REVISION	
SCALE: 1" = 80'	12/02/22	WETLAND EXHIBIT	
DRAWN BY: A. GROMACKI			
CHECKED BY:			
			SHEET: 1 OF 1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: 8535 State Road 60 City/County: Cedarburg/Ozaukee Sampling Date: November 8, 2022
 Applicant/Owner: VentureSpace LLC State: WI Sampling Point: 1
 Investigator(s): D. Meyer & K. Sherfinski Section, Township, Range: S21, T10N, R21E
 Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave
 Slope (%): 0-2 Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Ozaukee silt loam (OuB2) NWI Classification: none
 Are climatic/hydrologic conditions of the site typical for this time of the year? Yes (If no, explain in remarks)
 Are vegetation _____, soil _____, or hydrology _____ significantly disturbed? Are "normal
 Are vegetation _____, soil _____, or hydrology _____ naturally problematic? circumstances" present? Yes
 (If needed, explain any answers in remarks)

SUMMARY OF FINDINGS

Hydrophytic vegetation present? <u>Y</u>	Is the sampled area within a wetland? <u>Y</u>
Hydric soil present? <u>Y</u>	
Indicators of wetland hydrology present? <u>Y</u>	
If yes, optional wetland site ID: _____	
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Primary Indicators (minimum of one is required; check all that apply) ☐ Surface Water (A1) ☐ Water-Stained Leaves (B9) ☒ High Water Table (A2) ☐ Aquatic Fauna (B13) ☒ Saturation (A3) ☐ Marl Deposits (B15) ☐ Water Marks (B1) ☐ Hydrogen Sulfide Odor (C1) ☐ Sediment Deposits (B2) ☐ Oxidized Rhizospheres on Living ☐ Drift Deposits (B3) ☐ Roots (C3) ☐ Algal Mat or Crust (B4) ☐ Presence of Reduced Iron (C4) ☐ Iron Deposits (B5) ☐ Recent Iron Reduction in Tilled ☐ Inundation Visible on Aerial ☐ Soils (C6) ☐ Imagery (B7) ☐ Thin Muck Surface (C7) ☐ Sparsely Vegetated Concave ☐ Other (Explain in Remarks) ☐ Surface (B8)		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) ☒ FAC-Neutral Test (D5) ☐ Microtopographic Relief (D4)
Field Observations: Surface water present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water table present? Yes <u>X</u> No <u> </u> Depth (inches): <u>3</u> Saturation present? Yes <u>X</u> No <u> </u> Depth (inches): <u>At surface</u> (includes capillary fringe)		Indicators of wetland hydrology present? <u>Y</u>
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 (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1 <i>Salix nigra</i>		25	Y	OBL
2				
3				
4				
5				
6				
7				
8				
9				
10				
		25	= Total Cover	

Sapling/Shrub Stratum	Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1 <i>Cornus alba</i>		5	Y	FACW
2 <i>Fraxinus pennsylvanica</i>		5	Y	FACW
3				
4				
5				
6				
7				
8				
9				
10				
		10	= Total Cover	

Herb Stratum	Plot Size (5ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1 <i>Phalaris arundinacea</i>		95	Y	FACW
2 <i>Solidago gigantea</i>		5	N	FACW
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
		100	= Total Cover	

Woody Vine Stratum	Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1				
2				
3				
4				
5				
		0	= Total Cover	

50/20 Thresholds

Tree Stratum	20%	50%
Sapling/Shrub Stratum	5	13
Herb Stratum	20	50
Woody Vine Stratum	0	0

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across all Strata: 4 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 100.00% (A/B)

Prevalence Index Worksheet

Total % Cover of:

OBL species	<u>25</u>	x 1 =	<u>25</u>
FACW species	<u>110</u>	x 2 =	<u>220</u>
FAC species	<u>0</u>	x 3 =	<u>0</u>
FACU species	<u>0</u>	x 4 =	<u>0</u>
UPL species	<u>0</u>	x 5 =	<u>0</u>
Column totals	<u>135</u> (A)		<u>245</u> (B)

Prevalence Index = B/A = 1.81

Hydrophytic Vegetation Indicators:

 Rapid test for hydrophytic vegetation

☒ Dominance test is >50%

☒ Prevalence index is ≤3.0*

Morphological adaptations* (provide supporting data in Remarks or on a separate sheet)

 Problematic hydrophytic vegetation* (explain)

*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 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? Y

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

Disturbed wet meadow wetland.

SOIL

Sampling Point: 1

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

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-6	10YR 3/2	100					silt loam	
6-11	10YR 3/2	95	10YR 3/6	5	C	M	silt loam	
11-24	10YR 4/2	95	10YR 4/6	5	C	M	clay loam	

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains

**Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils:

- | |
|---|
| ☐ 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) |

*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric soil present? Y

Remarks:

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: 8535 State Road 60 City/County: Cedarburg/Ozaukee Sampling Date: November 8, 2022
 Applicant/Owner: VentureSpace LLC State: WI Sampling Point: 2
 Investigator(s): D. Meyer & K. Sherfinski Section, Township, Range: S21, T10N, R21E
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): none
 Slope (%): 2 Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Ozaukee silt loam (OuB2) NWI Classification: none
 Are climatic/hydrologic conditions of the site typical for this time of the year? Yes (If no, explain in remarks)
 Are vegetation _____, soil _____, or hydrology _____ significantly disturbed? Are "normal
 Are vegetation _____, soil _____, or hydrology _____ naturally problematic? circumstances" present? Yes
 (If needed, explain any answers in remarks)

SUMMARY OF FINDINGS

Hydrophytic vegetation present? <u>N</u>	Is the sampled area within a wetland? <u>N</u>
Hydric soil present? <u>N</u>	
Indicators of wetland hydrology present? <u>N</u>	
If yes, optional wetland site ID: _____	
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Primary Indicators (minimum of one is required; check all that apply) ☐ Surface Water (A1) ☐ Water-Stained Leaves (B9) ☐ High Water Table (A2) ☐ Aquatic Fauna (B13) ☐ Saturation (A3) ☐ Marl Deposits (B15) ☐ Water Marks (B1) ☐ Hydrogen Sulfide Odor (C1) ☐ Sediment Deposits (B2) ☐ Oxidized Rhizospheres on Living ☐ Drift Deposits (B3) ☐ Roots (C3) ☐ Algal Mat or Crust (B4) ☐ Presence of Reduced Iron (C4) ☐ Iron Deposits (B5) ☐ Recent Iron Reduction in Tilled ☐ Inundation Visible on Aerial ☐ Soils (C6) ☐ Imagery (B7) ☐ Thin Muck Surface (C7) ☐ Sparsely Vegetated Concave ☐ Other (Explain in Remarks) ☐ Surface (B8)		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) ☐ FAC-Neutral Test (D5) ☐ Microtopographic Relief (D4)
Field Observations: Surface water present? Yes ☐ No ☒ Depth (inches): _____ Water table present? Yes ☐ No ☒ Depth (inches): _____ Saturation present? Yes ☐ No ☒ Depth (inches): _____ (includes capillary fringe)		Indicators of wetland hydrology present? <u>N</u>
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: Approximately 18 inches in elevation higher than wetland.		

VEGETATION - Use scientific names of plants

Sampling Point: 2

Tree Stratum	Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
		0	= Total Cover	

Sapling/Shrub Stratum	Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
		0	= Total Cover	

Herb Stratum	Plot Size (5ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1	<i>Euthamia graminifolia</i>	35	Y	FAC
2	<i>Poa pratensis</i>	20	Y	FACU
3	<i>Solidago canadensis</i>	15	Y	FACU
4	<i>Lolium arundinaceum</i>	15	Y	FACU
5	<i>Phalaris arundinacea</i>	10	N	FACW
6	<i>Symphyotrichum pilosum</i>	10	N	FACU
7	<i>Daucus carota</i>	5	N	UPL
8	<i>Symphyotrichum novae-angliae</i>	5	N	FACW
9	<i>Solidago gigantea</i>	5	N	FACW
10	<i>Trifolium pratense</i>	2	N	FACU
11				
12				
13				
14				
15				
		122	= Total Cover	

Woody Vine Stratum	Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1				
2				
3				
4				
5				
		0	= Total Cover	

50/20 Thresholds

	20%	50%
Tree Stratum	0	0
Sapling/Shrub Stratum	0	0
Herb Stratum	24	61
Woody Vine Stratum	0	0

Dominance Test Worksheet
 Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)
 Total Number of Dominant Species Across all Strata: 4 (B)
 Percent of Dominant Species that are OBL, FACW, or FAC: 25.00% (A/B)

Prevalence Index Worksheet
 Total % Cover of:
 OBL species 0 x 1 = 0
 FACW species 20 x 2 = 40
 FAC species 35 x 3 = 105
 FACU species 62 x 4 = 248
 UPL species 5 x 5 = 25
 Column totals 122 (A) 418 (B)
 Prevalence Index = B/A = 3.43

Hydrophytic Vegetation Indicators:
☐ Rapid test for hydrophytic vegetation
☐ Dominance test is >50%
☐ Prevalence index is ≤3.0*
☐ Morphological adaptations* (provide supporting data in Remarks or on a separate sheet)
☐ Problematic hydrophytic vegetation* (explain)
 *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 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? N

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

SOIL

Sampling Point: 2

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

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-11	10YR 3/2	100					clay loam	
11-16	10YR 3/2	80					clay loam	
	10YR 4/3	20						
16-24	10YR 4/3	100					clay loam	

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains

**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:

- ☐ 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)

*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric soil present? N

Remarks:

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: 8535 State Road 60 City/County: Cedarburg/Ozaukee Sampling Date: November 8, 2022
 Applicant/Owner: VentureSpace LLC State: WI Sampling Point: 3
 Investigator(s): D. Meyer & K. Sherfinski Section, Township, Range: S21, T10N, R21E
 Landform (hillslope, terrace, etc.): toe of slope Local relief (concave, convex, none): concave
 Slope (%): 0-2 Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Hochheim loam (HmC2) NWI Classification: T3/E1K
 Are climatic/hydrologic conditions of the site typical for this time of the year? Yes (If no, explain in remarks)
 Are vegetation _____, soil _____, or hydrology _____ significantly disturbed? Are "normal
 Are vegetation _____, soil _____, or hydrology _____ naturally problematic? circumstances" present? Yes
 (If needed, explain any answers in remarks)

SUMMARY OF FINDINGS

Hydrophytic vegetation present? <u>Y</u>	Is the sampled area within a wetland? <u>Y</u>
Hydric soil present? <u>Y</u>	
Indicators of wetland hydrology present? <u>Y</u>	
If yes, optional wetland site ID: _____	
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Primary Indicators (minimum of one is required; check all that apply) ☐ Surface Water (A1) ☐ Water-Stained Leaves (B9) ☐ High Water Table (A2) ☐ Aquatic Fauna (B13) ☒ Saturation (A3) ☐ Marl Deposits (B15) ☐ Water Marks (B1) ☐ Hydrogen Sulfide Odor (C1) ☐ Sediment Deposits (B2) ☐ Oxidized Rhizospheres on Living ☐ Drift Deposits (B3) ☐ Roots (C3) ☐ Algal Mat or Crust (B4) ☐ Presence of Reduced Iron (C4) ☐ Iron Deposits (B5) ☐ Recent Iron Reduction in Tilled ☐ Inundation Visible on Aerial ☐ Soils (C6) ☐ Imagery (B7) ☐ Thin Muck Surface (C7) ☐ Sparsely Vegetated Concave ☐ Other (Explain in Remarks) ☐ Surface (B8)		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) ☒ FAC-Neutral Test (D5) ☐ Microtopographic Relief (D4)
Field Observations: Surface water present? Yes <u>X</u> No <u>X</u> Depth (inches): _____ Water table present? Yes <u>X</u> No _____ Depth (inches): <u>21</u> Saturation present? Yes <u>X</u> No _____ Depth (inches): <u>11</u> (includes capillary fringe)		Indicators of wetland hydrology present? <u>Y</u>
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 (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1	<i>Fraxinus pennsylvanica</i>	10	Y	FACW
2				
3				
4				
5				
6				
7				
8				
9				
10				
		10	= Total Cover	

Sapling/Shrub Stratum	Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1	<i>Rhamnus cathartica</i>	60	Y	FAC
2	<i>Cornus alba</i>	10	N	FACW
3	<i>Fraxinus pennsylvanica</i>	5	N	FACW
4				
5				
6				
7				
8				
9				
10				
		75	= Total Cover	

Herb Stratum	Plot Size (5ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1	<i>Rhamnus cathartica</i>	30	Y	FAC
2	<i>Geum canadense</i>	10	Y	FAC
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
		40	= Total Cover	

Woody Vine Stratum	Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1	<i>Vitis riparia</i>	20	Y	FAC
2				
3				
4				
5				
		20	= Total Cover	

50/20 Thresholds

	20%	50%
Tree Stratum	2	5
Sapling/Shrub Stratum	15	38
Herb Stratum	8	20
Woody Vine Stratum	4	10

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across all Strata: 5 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 100.00% (A/B)

Prevalence Index Worksheet

Total % Cover of:

OBL species	<u>0</u>	x 1 =	<u>0</u>
FACW species	<u>25</u>	x 2 =	<u>50</u>
FAC species	<u>120</u>	x 3 =	<u>360</u>
FACU species	<u>0</u>	x 4 =	<u>0</u>
UPL species	<u>0</u>	x 5 =	<u>0</u>
Column totals	<u>145</u>	(A)	<u>410</u> (B)
Prevalence Index = B/A =		<u>2.83</u>	

Hydrophytic Vegetation Indicators:

 Rapid test for hydrophytic vegetation

☒ Dominance test is >50%

☒ Prevalence index is ≤3.0*

 Morphological adaptations* (provide supporting data in Remarks or on a separate sheet)

 Problematic hydrophytic vegetation* (explain)

*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 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? Y

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

Disturbed forested/scrub-shrub wetland.

SOIL

Sampling Point: 3

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

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-5	10YR 3/2	100					silt loam	
5-12	10YR 3/2	95	10YR 4/4	5	C	M	silt loam	
12-19	10YR 3/1	90	10YR 4/4	10	C	M	silt loam	
19-24	10YR 4/2	80	10YR 4/6	20	C	M	clay loam	

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains

**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:

- ☐ 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)

*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric soil present? Y

Remarks:

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: 8535 State Road 60 City/County: Cedarburg/Ozaukee Sampling Date: November 8, 2022
 Applicant/Owner: VentureSpace LLC State: WI Sampling Point: 4
 Investigator(s): D. Meyer & K. Sherfinski Section, Township, Range: S21, T10N, R21E
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex
 Slope (%): 15 Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Hochheim loam (HmC2) NWI Classification: none
 Are climatic/hydrologic conditions of the site typical for this time of the year? Yes (If no, explain in remarks)
 Are vegetation _____, soil _____, or hydrology _____ significantly disturbed? Are "normal
 Are vegetation _____, soil _____, or hydrology _____ naturally problematic? circumstances" present? Yes
 (If needed, explain any answers in remarks)

SUMMARY OF FINDINGS

Hydrophytic vegetation present? <u>N</u>	Is the sampled area within a wetland? <u>N</u>
Hydric soil present? <u>N</u>	
Indicators of wetland hydrology present? <u>N</u>	
If yes, optional wetland site ID: _____	
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Primary Indicators (minimum of one is required; check all that apply) ☐ Surface Water (A1) ☐ Water-Stained Leaves (B9) ☐ High Water Table (A2) ☐ Aquatic Fauna (B13) ☐ Saturation (A3) ☐ Marl Deposits (B15) ☐ Water Marks (B1) ☐ Hydrogen Sulfide Odor (C1) ☐ Sediment Deposits (B2) ☐ Oxidized Rhizospheres on Living ☐ Drift Deposits (B3) ☐ Roots (C3) ☐ Algal Mat or Crust (B4) ☐ Presence of Reduced Iron (C4) ☐ Iron Deposits (B5) ☐ Recent Iron Reduction in Tilled ☐ Inundation Visible on Aerial ☐ Soils (C6) ☐ Imagery (B7) ☐ Thin Muck Surface (C7) ☐ Sparsely Vegetated Concave ☐ Other (Explain in Remarks) ☐ Surface (B8)		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) ☐ FAC-Neutral Test (D5) ☐ Microtopographic Relief (D4)
Field Observations: Surface water present? Yes ☐ No ☒ Depth (inches): _____ Water table present? Yes ☐ No ☒ Depth (inches): _____ Saturation present? Yes ☐ No ☒ Depth (inches): _____ (includes capillary fringe)		Indicators of wetland hydrology present? <u>N</u>
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: Approximately 24 inches in elevation higher than wetland.		

VEGETATION - Use scientific names of plants

Sampling Point: 4

Tree Stratum	Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
		0	= Total Cover	

Sapling/Shrub Stratum	Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1	<i>Cornus racemosa</i>	40	Y	FAC
2	<i>Zanthoxylum americanum</i>	30	Y	FACU
3	<i>Lonicera x bella</i>	25	Y	FACU
4	<i>Rhamnus cathartica</i>	15	N	FAC
5				
6				
7				
8				
9				
10				
		110	= Total Cover	

Herb Stratum	Plot Size (5ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1	<i>Poa pratensis</i>	85	Y	FACU
2	<i>Solidago canadensis</i>	10	N	FACU
3	<i>Symphyotrichum novae-angliae</i>	5	N	FACW
4	<i>Cornus racemosa</i>	5	N	FAC
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
		105	= Total Cover	

Woody Vine Stratum	Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1				
2				
3				
4				
5				
		0	= Total Cover	

50/20 Thresholds

Tree Stratum	20%	50%
Sapling/Shrub Stratum	0	0
Herb Stratum	22	55
Woody Vine Stratum	21	53
	0	0

Dominance Test Worksheet
 Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)
 Total Number of Dominant Species Across all Strata: 4 (B)
 Percent of Dominant Species that are OBL, FACW, or FAC: 25.00% (A/B)

Prevalence Index Worksheet
 Total % Cover of:
 OBL species 0 x 1 = 0
 FACW species 5 x 2 = 10
 FAC species 60 x 3 = 180
 FACU species 150 x 4 = 600
 UPL species 0 x 5 = 0
 Column totals 215 (A) 790 (B)
 Prevalence Index = B/A = 3.67

Hydrophytic Vegetation Indicators:
☐ Rapid test for hydrophytic vegetation
☐ Dominance test is >50%
☐ Prevalence index is ≤3.0*
☐ Morphological adaptations* (provide supporting data in Remarks or on a separate sheet)
☐ Problematic hydrophytic vegetation* (explain)
 *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 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? N

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

Old field.

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*	Loc**	Texture	Remarks
0-9	10YR 2/2	100					silt loam	
9-15	10YR 4/3	100					clay loam	
15-21	10YR 4/3	90	7.5YR 4/6	10	C	M	clay loam	
21-24	10YR 4/2	85	7.5YR 4/6	15	C	M	clay loam	

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains

**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:

- ☐ 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)

*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric soil present? N

Remarks:

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: 8535 State Road 60 City/County: Cedarburg/Ozaukee Sampling Date: November 8, 2022
 Applicant/Owner: VentureSpace LLC State: WI Sampling Point: 5
 Investigator(s): D. Meyer & K. Sherfinski Section, Township, Range: S21, T10N, R21E
 Landform (hillslope, terrace, etc.): toe of slope Local relief (concave, convex, none): concave
 Slope (%): 0-2 Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Theresa silt loam (ThB) NWI Classification: none
 Are climatic/hydrologic conditions of the site typical for this time of the year? Yes (If no, explain in remarks)
 Are vegetation _____, soil _____, or hydrology _____ significantly disturbed? Are "normal
 Are vegetation _____, soil _____, or hydrology _____ naturally problematic? circumstances" present? Yes
 (If needed, explain any answers in remarks)

SUMMARY OF FINDINGS

Hydrophytic vegetation present? <u>Y</u> Hydric soil present? <u>Y</u> Indicators of wetland hydrology present? <u>Y</u>	Is the sampled area within a wetland? <u>Y</u> If yes, optional wetland site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Primary Indicators (minimum of one is required; check all that apply) ☒ Surface Water (A1) _____ Water-Stained Leaves (B9) ☐ High Water Table (A2) _____ Aquatic Fauna (B13) ☐ Saturation (A3) _____ Marl Deposits (B15) ☐ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) ☐ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living ☐ Drift Deposits (B3) _____ Roots (C3) ☐ Algal Mat or Crust (B4) _____ Presence of Reduced Iron (C4) ☐ Iron Deposits (B5) _____ Recent Iron Reduction in Tilled ☐ Inundation Visible on Aerial _____ Soils (C6) ☒ Imagery (B7) _____ Thin Muck Surface (C7) ☐ Sparsely Vegetated Concave _____ Other (Explain in Remarks) ☐ Surface (B8) _____	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) ☒ FAC-Neutral Test (D5) ☐ Microtopographic Relief (D4)
Field Observations: Surface water present? Yes <u>X</u> No _____ Depth (inches): <u>3</u> Water table present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Indicators of wetland hydrology present? <u>Y</u>
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: Stormwater pond.	

VEGETATION - Use scientific names of plants

Sampling Point: 5

Tree Stratum	Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
		0 = Total Cover		

Sapling/Shrub Stratum	Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
		0 = Total Cover		

Herb Stratum	Plot Size (5ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
		110 = Total Cover		

Woody Vine Stratum	Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1				
2				
3				
4				
5				
		0 = Total Cover		

50/20 Thresholds

Tree Stratum	20%	50%
Sapling/Shrub Stratum	0	0
Herb Stratum	22	55
Woody Vine Stratum	0	0

Dominance Test Worksheet
Number of Dominant Species that are OBL, FACW, or FAC: 5 (A)
Total Number of Dominant Species Across all Strata: 5 (B)
Percent of Dominant Species that are OBL, FACW, or FAC: 100.00% (A/B)

Prevalence Index Worksheet
Total % Cover of:
OBL species 100 x 1 = 100
FACW species 0 x 2 = 0
FAC species 10 x 3 = 30
FACU species 0 x 4 = 0
UPL species 0 x 5 = 0
Column totals 110 (A) 130 (B)
Prevalence Index = B/A = 1.18

Hydrophytic Vegetation Indicators:
☐ Rapid test for hydrophytic vegetation
☒ Dominance test is >50%
☒ Prevalence index is ≤3.0*
Morphological adaptations* (provide supporting data in Remarks or on a separate sheet)
☐ Problematic hydrophytic vegetation* (explain)
*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 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? Y

Remarks: (Include photo numbers here or on a separate sheet)
Open water pond with an emergent wetland fringe.

SOIL

Sampling Point: 5

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

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-9	10YR 3/2	95	10YR 3/6	5	C	M	clay loam	
9-24	10YR 5/3	100					clay	

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains

**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:

- ☐ 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)

*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric soil present? Y

Remarks:

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: 8535 State Road 60 City/County: Cedarburg/Ozaukee Sampling Date: November 8, 2022
 Applicant/Owner: VentureSpace LLC State: WI Sampling Point: 6
 Investigator(s): D. Meyer & K. Sherfinski Section, Township, Range: S21, T10N, R21E
 Landform (hillslope, terrace, etc.): berm hillslope Local relief (concave, convex, none): convex
 Slope (%): 5 Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Theresa silt loam (ThB) NWI Classification: none
 Are climatic/hydrologic conditions of the site typical for this time of the year? Yes (If no, explain in remarks)
 Are vegetation _____, soil _____, or hydrology _____ significantly disturbed? Are "normal
 Are vegetation _____, soil _____, or hydrology _____ naturally problematic? circumstances" present? Yes
 (If needed, explain any answers in remarks)

SUMMARY OF FINDINGS

Hydrophytic vegetation present? <u>N</u>	Is the sampled area within a wetland? <u>N</u>
Hydric soil present? <u>N</u>	
Indicators of wetland hydrology present? <u>N</u>	
If yes, optional wetland site ID: _____	
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Primary Indicators (minimum of one is required; check all that apply) ☐ Surface Water (A1) ☐ Water-Stained Leaves (B9) ☐ High Water Table (A2) ☐ Aquatic Fauna (B13) ☐ Saturation (A3) ☐ Marl Deposits (B15) ☐ Water Marks (B1) ☐ Hydrogen Sulfide Odor (C1) ☐ Sediment Deposits (B2) ☐ Oxidized Rhizospheres on Living ☐ Drift Deposits (B3) ☐ Roots (C3) ☐ Algal Mat or Crust (B4) ☐ Presence of Reduced Iron (C4) ☐ Iron Deposits (B5) ☐ Recent Iron Reduction in Tilled ☐ Inundation Visible on Aerial ☐ Soils (C6) ☐ Imagery (B7) ☐ Thin Muck Surface (C7) ☐ Sparsely Vegetated Concave ☐ Other (Explain in Remarks) ☐ Surface (B8)		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) ☐ FAC-Neutral Test (D5) ☐ Microtopographic Relief (D4)
Field Observations: Surface water present? Yes ☐ No ☒ Depth (inches): _____ Water table present? Yes ☐ No ☒ Depth (inches): _____ Saturation present? Yes ☐ No ☒ Depth (inches): _____ (includes capillary fringe)		Indicators of wetland hydrology present? <u>N</u>
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: Approximately 18 inches in elevation higher than wetland. Data point is located on a berm surrounds the stormwater basin.		

VEGETATION - Use scientific names of plants

Sampling Point: 6

Tree Stratum	Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
		0 = Total Cover		

Sapling/Shrub Stratum	Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
		0 = Total Cover		

Herb Stratum	Plot Size (5ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1	<i>Poa pratensis</i>	90	Y	FACU
2	<i>Symphotrichum pilosum</i>	60	Y	FACU
3	<i>Solidago canadensis</i>	20	N	FACU
4	<i>Lolium arundinaceum</i>	15	N	FACU
5	<i>Daucus carota</i>	5	N	UPL
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
		190 = Total Cover		

Woody Vine Stratum	Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1				
2				
3				
4				
5				
		0 = Total Cover		

50/20 Thresholds

Tree Stratum	20%	50%
Sapling/Shrub Stratum	0	0
Herb Stratum	38	95
Woody Vine Stratum	0	0

Dominance Test Worksheet
 Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)
 Total Number of Dominant Species Across all Strata: 2 (B)
 Percent of Dominant Species that are OBL, FACW, or FAC: 0.00% (A/B)

Prevalence Index Worksheet
 Total % Cover of:
 OBL species 0 x 1 = 0
 FACW species 0 x 2 = 0
 FAC species 0 x 3 = 0
 FACU species 185 x 4 = 740
 UPL species 5 x 5 = 25
 Column totals 190 (A) 765 (B)
 Prevalence Index = B/A = 4.03

Hydrophytic Vegetation Indicators:
☐ Rapid test for hydrophytic vegetation
☐ Dominance test is >50%
☐ Prevalence index is ≤3.0*
☐ Morphological adaptations* (provide supporting data in Remarks or on a separate sheet)
☐ Problematic hydrophytic vegetation* (explain)
 *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 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? N

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

SOIL

Sampling Point: 6

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

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-7	10YR 3/2	100					silt loam	
7-13	10YR 3/2	80					silt loam	
	10YR 2/2	20						
13-24	7.5YR 4/3	100					clay	

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains

**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:

- ☐ 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)

*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric soil present? N

Remarks:

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: 8535 State Road 60 City/County: Cedarburg/Ozaukee Sampling Date: November 8, 2022
 Applicant/Owner: VentureSpace LLC State: WI Sampling Point: 7
 Investigator(s): D. Meyer & K. Sherfinski Section, Township, Range: S21, T10N, R21E
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): none
 Slope (%): 3-4 Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Theresa silt loam (ThB) NWI Classification: none
 Are climatic/hydrologic conditions of the site typical for this time of the year? Yes (If no, explain in remarks)
 Are vegetation _____, soil _____, or hydrology _____ significantly disturbed? Are "normal
 Are vegetation _____, soil _____, or hydrology _____ naturally problematic? circumstances" present? Yes
 (If needed, explain any answers in remarks)

SUMMARY OF FINDINGS

Hydrophytic vegetation present? <u>N</u>	Is the sampled area within a wetland? <u>N</u>
Hydric soil present? <u>N</u>	
Indicators of wetland hydrology present? <u>N</u>	
If yes, optional wetland site ID: _____	
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Primary Indicators (minimum of one is required; check all that apply) ☐ Surface Water (A1) ☐ Water-Stained Leaves (B9) ☐ High Water Table (A2) ☐ Aquatic Fauna (B13) ☐ Saturation (A3) ☐ Marl Deposits (B15) ☐ Water Marks (B1) ☐ Hydrogen Sulfide Odor (C1) ☐ Sediment Deposits (B2) ☐ Oxidized Rhizospheres on Living ☐ Drift Deposits (B3) ☐ Roots (C3) ☐ Algal Mat or Crust (B4) ☐ Presence of Reduced Iron (C4) ☐ Iron Deposits (B5) ☐ Recent Iron Reduction in Tilled ☐ Inundation Visible on Aerial ☐ Soils (C6) ☐ Imagery (B7) ☐ Thin Muck Surface (C7) ☐ Sparsely Vegetated Concave ☐ Other (Explain in Remarks) ☐ Surface (B8)		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) ☐ FAC-Neutral Test (D5) ☐ Microtopographic Relief (D4)
Field Observations: Surface water present? Yes _____ No <u>X</u> Depth (inches): _____ Water table present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)		Indicators of wetland hydrology present? <u>N</u>
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: Approximately 24 inches in elevation higher than wetland.		

VEGETATION - Use scientific names of plants

Sampling Point: 7

Tree Stratum	Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
		0	= Total Cover	

Sapling/Shrub Stratum	Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1	<i>Elaeagnus umbellata</i>	15	Y	FACU
2	<i>Juniperus virginiana</i>	10	Y	FACU
3	<i>Rhamnus cathartica</i>	10	Y	FAC
4	<i>Quercus alba</i>	2	N	FACU
5	<i>Lonicera x bella</i>	2	N	FACU
6				
7				
8				
9				
10				
		39	= Total Cover	

Herb Stratum	Plot Size (5ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1	<i>Poa pratensis</i>	80	Y	FACU
2	<i>Solidago canadensis</i>	20	N	FACU
3	<i>Monarda fistulosa</i>	3	N	FACU
4	<i>Taraxacum officinale</i>	3	N	FACU
5	<i>Daucus carota</i>	3	N	UPL
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
		109	= Total Cover	

Woody Vine Stratum	Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1				
2				
3				
4				
5				
		0	= Total Cover	

50/20 Thresholds

Tree Stratum	20%	50%
Sapling/Shrub Stratum	0	0
Herb Stratum	8	20
Woody Vine Stratum	22	55
	0	0

Dominance Test Worksheet
Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)
Total Number of Dominant Species Across all Strata: 4 (B)
Percent of Dominant Species that are OBL, FACW, or FAC: 25.00% (A/B)

Prevalence Index Worksheet
Total % Cover of:
OBL species 0 x 1 = 0
FACW species 0 x 2 = 0
FAC species 10 x 3 = 30
FACU species 135 x 4 = 540
UPL species 3 x 5 = 15
Column totals 148 (A) 585 (B)
Prevalence Index = B/A = 3.95

Hydrophytic Vegetation Indicators:
☐ Rapid test for hydrophytic vegetation
☐ Dominance test is >50%
☐ Prevalence index is ≤3.0*
☐ Morphological adaptations* (provide supporting data in Remarks or on a separate sheet)
☐ Problematic hydrophytic vegetation* (explain)

*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 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? N

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

SOIL

Sampling Point: 7

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

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-12	10YR 3/3	100					silty clay loam	
12-24	7.5YR 4/4	100					silty clay	

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains

**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:

- ☐ 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)

*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric soil present? N

Remarks:

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: 8535 State Road 60 City/County: Cedarburg/Ozaukee Sampling Date: November 8, 2022
 Applicant/Owner: VentureSpace LLC State: WI Sampling Point: 8
 Investigator(s): D. Meyer & K. Sherfinski Section, Township, Range: S21, T10N, R21E
 Landform (hillslope, terrace, etc.): swale Local relief (concave, convex, none): concave
 Slope (%): 0-2 Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Theresa silt loam (ThB) NWI Classification: none
 Are climatic/hydrologic conditions of the site typical for this time of the year? Yes (If no, explain in remarks)
 Are vegetation _____, soil _____, or hydrology _____ significantly disturbed? Are "normal
 Are vegetation _____, soil _____, or hydrology _____ naturally problematic? circumstances" present? Yes
 (If needed, explain any answers in remarks)

SUMMARY OF FINDINGS

Hydrophytic vegetation present? <u>Y</u>	Is the sampled area within a wetland? <u>Y</u>
Hydric soil present? <u>Y</u>	
Indicators of wetland hydrology present? <u>Y</u>	
If yes, optional wetland site ID: _____	
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Primary Indicators (minimum of one is required; check all that apply) ☐ Surface Water (A1) ☐ Water-Stained Leaves (B9) ☐ High Water Table (A2) ☐ Aquatic Fauna (B13) ☐ Saturation (A3) ☐ Marl Deposits (B15) ☐ Water Marks (B1) ☐ Hydrogen Sulfide Odor (C1) ☐ Sediment Deposits (B2) ☐ Oxidized Rhizospheres on Living ☐ Drift Deposits (B3) ☐ Roots (C3) ☐ Algal Mat or Crust (B4) ☐ Presence of Reduced Iron (C4) ☐ Iron Deposits (B5) ☐ Recent Iron Reduction in Tilled ☐ Inundation Visible on Aerial ☐ Soils (C6) ☐ Imagery (B7) ☐ Thin Muck Surface (C7) ☐ Sparsely Vegetated Concave ☐ Other (Explain in Remarks) ☐ Surface (B8)		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) ☒ FAC-Neutral Test (D5) ☐ Microtopographic Relief (D4)
Field Observations: Surface water present? Yes ☐ No ☒ Depth (inches): _____ Water table present? Yes ☐ No ☒ Depth (inches): _____ Saturation present? Yes ☐ No ☒ Depth (inches): _____ (includes capillary fringe)		Indicators of wetland hydrology present? <u>Y</u>
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: Swale under power lines. Standing water is present in tire ruts.		

VEGETATION - Use scientific names of plants

Sampling Point: 8

Tree Stratum	Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
		0	= Total Cover	

Sapling/Shrub Stratum	Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1	<i>Fraxinus pennsylvanica</i>	10	Y	FACW
2	<i>Cornus amomum</i>	10	Y	FACW
3				
4				
5				
6				
7				
8				
9				
10				
		20	= Total Cover	

Herb Stratum	Plot Size (5ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1	<i>Phalaris arundinacea</i>	80	Y	FACW
2	<i>Poa pratensis</i>	10	N	FACU
3	<i>Dipsacus fullonum</i>	5	N	FACU
4	<i>Solidago altissima</i>	5	N	FACU
5	<i>Solidago gigantea</i>	5	N	FACW
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
		105	= Total Cover	

Woody Vine Stratum	Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1				
2				
3				
4				
5				
		0	= Total Cover	

50/20 Thresholds

	20%	50%
Tree Stratum	0	0
Sapling/Shrub Stratum	4	10
Herb Stratum	21	53
Woody Vine Stratum	0	0

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: 100.00% (A/B)

Prevalence Index Worksheet
 Total % Cover of:
 OBL species 0 x 1 = 0
 FACW species 105 x 2 = 210
 FAC species 0 x 3 = 0
 FACU species 20 x 4 = 80
 UPL species 0 x 5 = 0
 Column totals 125 (A) 290 (B)
 Prevalence Index = B/A = 2.32

Hydrophytic Vegetation Indicators:
☐ Rapid test for hydrophytic vegetation
☒ Dominance test is >50%
☒ Prevalence index is ≤3.0*
 Morphological adaptations* (provide supporting data in Remarks or on a separate sheet)
☐ Problematic hydrophytic vegetation* (explain)
 *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 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? Y

 Remarks: (Include photo numbers here or on a separate sheet)
 Disturbed wet meadow wetland.

SOIL

Sampling Point: 8

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

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-5	10YR 3/1	100					silty clay loam	
5-13	10YR 3/1	95	10YR 3/6	5	C	PL	silty clay loam	
13-24	10YR 3/1	85	10YR 3/6	10	C	PL	silty clay	
			10YR 4/4	5	C	M		

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains

**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:

- ☐ 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)

*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric soil present? Y

Remarks:

Soil temperature measured at 12 inches below the surface is 45°F.

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: 8535 State Road 60 City/County: Cedarburg/Ozaukee Sampling Date: November 8, 2022
 Applicant/Owner: VentureSpace LLC State: WI Sampling Point: 9
 Investigator(s): D. Meyer & K. Sherfinski Section, Township, Range: S21, T10N, R21E
 Landform (hillslope, terrace, etc.): toe of slope Local relief (concave, convex, none): concave
 Slope (%): 0-2 Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Hochheim loam (HmC2) NWI Classification: T3/E1K
 Are climatic/hydrologic conditions of the site typical for this time of the year? Yes (If no, explain in remarks)
 Are vegetation _____, soil _____, or hydrology _____ significantly disturbed? Are "normal
 Are vegetation _____, soil _____, or hydrology _____ naturally problematic? circumstances" present? Yes
 (If needed, explain any answers in remarks)

SUMMARY OF FINDINGS

Hydrophytic vegetation present? <u>Y</u>	Is the sampled area within a wetland? <u>Y</u> If yes, optional wetland site ID: _____
Hydric soil present? <u>Y</u>	
Indicators of wetland hydrology present? <u>Y</u>	
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)
☐ 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)	☐ 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) ☒ FAC-Neutral Test (D5) ☐ Microtopographic Relief (D4)
Field Observations: Surface water present? Yes <u>X</u> No <u>X</u> Depth (inches): _____ Water table present? Yes <u>X</u> No _____ Depth (inches): <u>8</u> Saturation present? Yes <u>X</u> No _____ Depth (inches): <u>At surface</u> (includes capillary fringe)		Indicators of wetland hydrology present? <u>Y</u>
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 (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
		0	= Total Cover	

Sapling/Shrub Stratum	Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1	<i>Fraxinus pennsylvanica</i>	15	Y	FACW
2	<i>Rhamnus cathartica</i>	15	Y	FAC
3	<i>Lonicera x bella</i>	5	N	FACU
4				
5				
6				
7				
8				
9				
10				
		35	= Total Cover	

Herb Stratum	Plot Size (5ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1	<i>Glyceria striata</i>	30	Y	OBL
2	<i>Phalaris arundinacea</i>	30	Y	FACW
3	<i>Cicuta maculata</i>	20	N	OBL
4	<i>Eutrochium maculatum</i>	15	N	OBL
5	<i>Ribes americanum</i>	5	N	FACW
6	<i>Agrimonia gryposepala</i>	5	N	FACU
7	<i>Cinna latifolia</i>	5	N	FACW
8	<i>Impatiens capensis</i>	5	N	FACW
9				
10				
11				
12				
13				
14				
15				
		115	= Total Cover	

Woody Vine Stratum	Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1				
2				
3				
4				
5				
		0	= Total Cover	

50/20 Thresholds		
Tree Stratum	20%	50%
Sapling/Shrub Stratum	0	0
Herb Stratum	7	18
Woody Vine Stratum	23	58
	0	0

Dominance Test Worksheet		
Number of Dominant Species that are OBL, FACW, or FAC: <u>4</u> (A)		
Total Number of Dominant Species Across all Strata: <u>4</u> (B)		
Percent of Dominant Species that are OBL, FACW, or FAC: <u>100.00%</u> (A/B)		

Prevalence Index Worksheet		
Total % Cover of:		
OBL species	<u>65</u> x 1 =	<u>65</u>
FACW species	<u>60</u> x 2 =	<u>120</u>
FAC species	<u>15</u> x 3 =	<u>45</u>
FACU species	<u>10</u> x 4 =	<u>40</u>
UPL species	<u>0</u> x 5 =	<u>0</u>
Column totals	<u>150</u> (A)	<u>270</u> (B)
Prevalence Index = B/A = <u>1.80</u>		

Hydrophytic Vegetation Indicators:	
<u> </u> Rapid test for hydrophytic vegetation	
☒	Dominance test is >50%
☒	Prevalence index is ≤3.0*
Morphological adaptations* (provide supporting data in Remarks or on a separate sheet)	
<u> </u> Problematic hydrophytic vegetation* (explain)	
*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 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?	
<u> </u>	<u> Y </u>

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

Disturbed forested wetland. Tree stratum is composed of approximately 70% dead *Fraxinus pennsylvanica*.

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*	Loc**	Texture	Remarks
0-19	10YR 3/1	95	10YR 3/6	5	C	PL	silty clay loam	
19-25	5GY 5/1	95	10YR 5/6	5	C	M	silty clay	

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains

**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:

- ☐ 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)

*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric soil present? Y

Remarks:

Soil temperature measured at 12 inches below the surface is 45°F.

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: 8535 State Road 60 City/County: Cedarburg/Ozaukee Sampling Date: November 8, 2022
 Applicant/Owner: VentureSpace LLC State: WI Sampling Point: 10
 Investigator(s): D. Meyer & K. Sherfinski Section, Township, Range: S21, T10N, R21E
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): none
 Slope (%): 3-4 Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Theresa silt loam (ThB) NWI Classification: none
 Are climatic/hydrologic conditions of the site typical for this time of the year? Yes (If no, explain in remarks)
 Are vegetation _____, soil _____, or hydrology _____ significantly disturbed? Are "normal
 Are vegetation _____, soil _____, or hydrology _____ naturally problematic? circumstances" present? Yes
 (If needed, explain any answers in remarks)

SUMMARY OF FINDINGS

Hydrophytic vegetation present? <u>N</u>	Is the sampled area within a wetland? <u>N</u>
Hydric soil present? <u>N</u>	
Indicators of wetland hydrology present? <u>N</u>	
If yes, optional wetland site ID: _____	
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Primary Indicators (minimum of one is required; check all that apply) ☐ Surface Water (A1) ☐ Water-Stained Leaves (B9) ☐ High Water Table (A2) ☐ Aquatic Fauna (B13) ☐ Saturation (A3) ☐ Marl Deposits (B15) ☐ Water Marks (B1) ☐ Hydrogen Sulfide Odor (C1) ☐ Sediment Deposits (B2) ☐ Oxidized Rhizospheres on Living ☐ Drift Deposits (B3) ☐ Roots (C3) ☐ Algal Mat or Crust (B4) ☐ Presence of Reduced Iron (C4) ☐ Iron Deposits (B5) ☐ Recent Iron Reduction in Tilled ☐ Inundation Visible on Aerial ☐ Soils (C6) ☐ Imagery (B7) ☐ Thin Muck Surface (C7) ☐ Sparsely Vegetated Concave ☐ Other (Explain in Remarks) ☐ Surface (B8)		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) ☐ FAC-Neutral Test (D5) ☐ Microtopographic Relief (D4)
Field Observations: Surface water present? Yes ☐ No ☒ Depth (inches): _____ Water table present? Yes ☐ No ☒ Depth (inches): _____ Saturation present? Yes ☐ No ☒ Depth (inches): _____ (includes capillary fringe)		Indicators of wetland hydrology present? <u>N</u>
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: Approximately 24 inches in elevation higher than wetland.		

VEGETATION - Use scientific names of plants

Sampling Point: 10

Tree Stratum	Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1 <i>Ulmus americana</i>		10	Y	FACW
2 <i>Acer saccharum</i>		5	Y	FACU
3				
4				
5				
6				
7				
8				
9				
10				
		15	= Total Cover	

Sapling/Shrub Stratum	Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1 <i>Lonicera x bella</i>		20	Y	FACU
2 <i>Rhamnus cathartica</i>		15	Y	FAC
3				
4				
5				
6				
7				
8				
9				
10				
		35	= Total Cover	

Herb Stratum	Plot Size (5ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1 <i>Solidago canadensis</i>		40	Y	FACU
2 <i>Poa pratensis</i>		20	Y	FACU
3 <i>Sanicula marilandica</i>		15	N	FACU
4 <i>Hydrophyllum virginianum</i>		3	N	FAC
5 <i>Carex blanda</i>		3	N	FAC
6 <i>Hackelia virginiana</i>		2	N	FACU
7 <i>Geum canadense</i>		2	N	FAC
8				
9				
10				
11				
12				
13				
14				
15				
		85	= Total Cover	

Woody Vine Stratum	Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1				
2				
3				
4				
5				
		0	= Total Cover	

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

Old field near edge of woodland.

50/20 Thresholds

	20%	50%
Tree Stratum	3	8
Sapling/Shrub Stratum	7	18
Herb Stratum	17	43
Woody Vine Stratum	0	0

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across all Strata: 6 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 33.33% (A/B)

Prevalence Index Worksheet

Total % Cover of:

OBL species	<u>0</u>	x 1 =	<u>0</u>
FACW species	<u>10</u>	x 2 =	<u>20</u>
FAC species	<u>23</u>	x 3 =	<u>69</u>
FACU species	<u>102</u>	x 4 =	<u>408</u>
UPL species	<u>0</u>	x 5 =	<u>0</u>
Column totals	<u>135</u>	(A)	<u>497</u> (B)

Prevalence Index = B/A = 3.68

Hydrophytic Vegetation Indicators:

☐ Rapid test for hydrophytic vegetation

☐ Dominance test is >50%

☐ Prevalence index is ≤3.0*

☐ Morphological adaptations* (provide supporting data in Remarks or on a separate sheet)

☐ Problematic hydrophytic vegetation* (explain)

*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 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? N

SOIL

Sampling Point: 10

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

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-14	10YR 3/2	100					silty clay loam	
14-24	10YR 4/4	80					silty clay	
	10YR 3/2	20						

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains

**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:

- ☐ 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)

*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric soil present? N

Remarks:

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: 8535 State Road 60 City/County: Cedarburg/Ozaukee Sampling Date: November 8, 2022
 Applicant/Owner: VentureSpace LLC State: WI Sampling Point: 11
 Investigator(s): D. Meyer & K. Sherfinski Section, Township, Range: S21, T10N, R21E
 Landform (hillslope, terrace, etc.): closed depression Local relief (concave, convex, none): concave
 Slope (%): 0-2 Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Theresa silt loam (ThB) NWI Classification: none
 Are climatic/hydrologic conditions of the site typical for this time of the year? Yes (If no, explain in remarks)
 Are vegetation _____, soil _____, or hydrology _____ significantly disturbed? Are "normal
 Are vegetation _____, soil _____, or hydrology _____ naturally problematic? circumstances" present? Yes
 (If needed, explain any answers in remarks)

SUMMARY OF FINDINGS

Hydrophytic vegetation present? <u>Y</u>	Is the sampled area within a wetland? <u>Y</u> If yes, optional wetland site ID: _____
Hydric soil present? <u>Y</u>	
Indicators of wetland hydrology present? <u>Y</u>	
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Primary Indicators (minimum of one is required; check all that apply) ☒ Surface Water (A1) ☐ Water-Stained Leaves (B9) ☐ High Water Table (A2) ☐ Aquatic Fauna (B13) ☐ Saturation (A3) ☐ Marl Deposits (B15) ☐ Water Marks (B1) ☐ Hydrogen Sulfide Odor (C1) ☐ Sediment Deposits (B2) ☐ Oxidized Rhizospheres on Living ☐ Drift Deposits (B3) ☐ Roots (C3) ☐ Algal Mat or Crust (B4) ☐ Presence of Reduced Iron (C4) ☐ Iron Deposits (B5) ☐ Recent Iron Reduction in Tilled ☐ Inundation Visible on Aerial ☐ Soils (C6) ☐ Imagery (B7) ☐ Thin Muck Surface (C7) ☐ Sparsely Vegetated Concave ☐ Other (Explain in Remarks) ☐ Surface (B8)		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) ☒ FAC-Neutral Test (D5) ☐ Microtopographic Relief (D4)
Field Observations: Surface water present? Yes ☒ No _____ Depth (inches): <u>2+</u> Water table present? Yes _____ No ☒ Depth (inches): _____ Saturation present? Yes _____ No ☒ Depth (inches): _____ (includes capillary fringe)		Indicators of wetland hydrology present? <u>Y</u>
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 (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
		0	= Total Cover	

Sapling/Shrub Stratum	Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1	<i>Populus deltoides</i>	15	Y	FAC
2	<i>Salix interior</i>	2	N	FACW
3				
4				
5				
6				
7				
8				
9				
10				
		17	= Total Cover	

Herb Stratum	Plot Size (5ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1	<i>Lythrum salicaria</i>	30	Y	OBL
2	<i>Phalaris arundinacea</i>	30	Y	FACW
3	<i>Symphyotrichum lateriflorum</i>	20	N	FAC
4	<i>Symphyotrichum pilosum</i>	20	N	FACU
5	<i>Euthamia graminifolia</i>	10	N	FAC
6	<i>Carex cristatella</i>	5	N	FACW
7	<i>Bidens frondosa</i>	2	N	FACW
8	<i>Rumex crispus</i>	1	N	FAC
9				
10				
11				
12				
13				
14				
15				
		118	= Total Cover	

Woody Vine Stratum	Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1				
2				
3				
4				
5				
		0	= Total Cover	

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

Scrub-shrub wetland.

50/20 Thresholds

	20%	50%
Tree Stratum	0	0
Sapling/Shrub Stratum	3	9
Herb Stratum	24	59
Woody Vine Stratum	0	0

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: 100.00% (A/B)

Prevalence Index Worksheet

Total % Cover of:

OBL species	<u>30</u>	x 1 =	<u>30</u>
FACW species	<u>39</u>	x 2 =	<u>78</u>
FAC species	<u>46</u>	x 3 =	<u>138</u>
FACU species	<u>20</u>	x 4 =	<u>80</u>
UPL species	<u>0</u>	x 5 =	<u>0</u>
Column totals	<u>135</u>	(A)	<u>326</u> (B)

Prevalence Index = B/A = 2.41

Hydrophytic Vegetation Indicators:

 Rapid test for hydrophytic vegetation

☒ Dominance test is >50%

☒ Prevalence index is ≤3.0*

Morphological adaptations* (provide supporting data in Remarks or on a separate sheet)

 Problematic hydrophytic vegetation* (explain)

*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 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? Y

SOIL

Sampling Point: 11

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

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-16	10YR 4/1	90	10YR 3/6	10	C	PL	silty clay loam	
16-24	10YR 5/1	95	10YR 5/6	5	C	PL/M	silty clay	

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains

**Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils:

- | |
|---|
| ☐ 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) |

*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric soil present? Y

Remarks:

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: 8535 State Road 60 City/County: Cedarburg/Ozaukee Sampling Date: November 8, 2022
 Applicant/Owner: VentureSpace LLC State: WI Sampling Point: 12
 Investigator(s): D. Meyer & K. Sherfinski Section, Township, Range: S21, T10N, R21E
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): none
 Slope (%): 4-6 Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Theresa silt loam (ThB) NWI Classification: none
 Are climatic/hydrologic conditions of the site typical for this time of the year? Yes (If no, explain in remarks)
 Are vegetation _____, soil _____, or hydrology _____ significantly disturbed? Are "normal
 Are vegetation _____, soil _____, or hydrology _____ naturally problematic? circumstances" present? Yes
 (If needed, explain any answers in remarks)

SUMMARY OF FINDINGS

Hydrophytic vegetation present? <u>N</u>	Is the sampled area within a wetland? <u>N</u> If yes, optional wetland site ID: _____
Hydric soil present? <u>N</u>	
Indicators of wetland hydrology present? <u>N</u>	
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Primary Indicators (minimum of one is required; check all that apply) ☐ Surface Water (A1) ☐ Water-Stained Leaves (B9) ☐ High Water Table (A2) ☐ Aquatic Fauna (B13) ☐ Saturation (A3) ☐ Marl Deposits (B15) ☐ Water Marks (B1) ☐ Hydrogen Sulfide Odor (C1) ☐ Sediment Deposits (B2) ☐ Oxidized Rhizospheres on Living ☐ Drift Deposits (B3) ☐ Roots (C3) ☐ Algal Mat or Crust (B4) ☐ Presence of Reduced Iron (C4) ☐ Iron Deposits (B5) ☐ Recent Iron Reduction in Tilled ☐ Inundation Visible on Aerial ☐ Soils (C6) ☐ Imagery (B7) ☐ Thin Muck Surface (C7) ☐ Sparsely Vegetated Concave ☐ Other (Explain in Remarks) ☐ Surface (B8)		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) ☐ FAC-Neutral Test (D5) ☐ Microtopographic Relief (D4)
Field Observations: Surface water present? Yes _____ No <u>X</u> Depth (inches): _____ Water table present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)		Indicators of wetland hydrology present? <u>N</u>
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: Approximately 3 feet in elevation higher than wetland.		

VEGETATION - Use scientific names of plants

Sampling Point: 12

Tree Stratum	Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
		0	= Total Cover	

Sapling/Shrub Stratum	Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1	<i>Elaeagnus umbellata</i>	5	Y	FACU
2				
3				
4				
5				
6				
7				
8				
9				
10				
		5	= Total Cover	

Herb Stratum	Plot Size (5ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1	<i>Poa pratensis</i>	70	Y	FACU
2	<i>Solidago canadensis</i>	30	Y	FACU
3	<i>Euthamia graminifolia</i>	3	N	FAC
4	<i>Rubus occidentalis</i>	2	N	UPL
5	<i>Symphotrichum novae-angliae</i>	1	N	FACW
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
		106	= Total Cover	

Woody Vine Stratum	Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1				
2				
3				
4				
5				
		0	= Total Cover	

50/20 Thresholds

	20%	50%
Tree Stratum	0	0
Sapling/Shrub Stratum	1	3
Herb Stratum	21	53
Woody Vine Stratum	0	0

Dominance Test Worksheet
 Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)
 Total Number of Dominant Species Across all Strata: 3 (B)
 Percent of Dominant Species that are OBL, FACW, or FAC: 0.00% (A/B)

Prevalence Index Worksheet
 Total % Cover of:
 OBL species 0 x 1 = 0
 FACW species 1 x 2 = 2
 FAC species 3 x 3 = 9
 FACU species 105 x 4 = 420
 UPL species 2 x 5 = 10
 Column totals 111 (A) 441 (B)
 Prevalence Index = B/A = 3.97

Hydrophytic Vegetation Indicators:
☐ Rapid test for hydrophytic vegetation
☐ Dominance test is >50%
☐ Prevalence index is ≤3.0*
☐ Morphological adaptations* (provide supporting data in Remarks or on a separate sheet)
☐ Problematic hydrophytic vegetation* (explain)
 *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 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? N

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

SOIL

Sampling Point: 12

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

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-14	10YR 3/3	100					silty clay loam	
14-24	7.5YR 4/4	97	10YR 4/4	3	C	M	silty clay	

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains

**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:

- ☐ 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)

*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric soil present? N

Remarks:

Conclusion

Based upon the documentation provided above, **Wetlands A** and **D** meet the eligibility criteria pursuant to s. 281.36 (4n), State Stat. You are able to proceed with this project. If you have any questions or would like to schedule a meeting to discuss this approval, please call me at (414) 531-0305 or email francesca.sanchez@wisconsin.gov.

Sincerely,



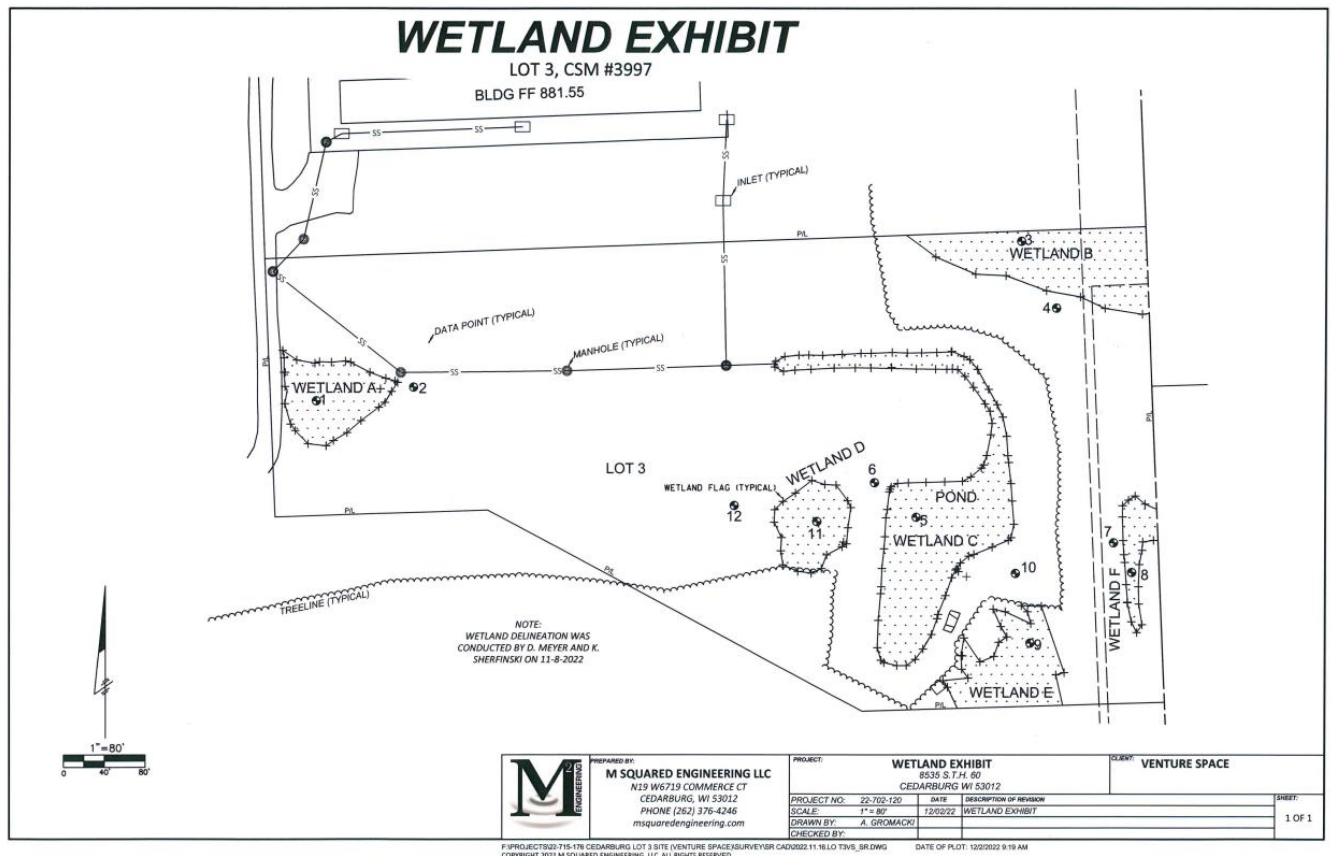
Francesca Sanchez
Water Management Specialist

Email CC:

Jennifer Hubert, USACE Project Manager
Evan Nickodem, Parish Survey & Engineering
Wetland file



2020.



Finance Committee

AGENDA INFORMATION SHEET

AGENDA DATE:	October 2, 2024
DEPARTMENT:	County Clerk
DIRECTOR:	Karen Niemuth
PREPARER:	Tyler Quaas

Agenda Summary Annual Dog Listing Report 2024

ATTACHMENTS:

- Listing Report 2024 (PDF)
- Listing Report Sup Doc 2024 (PDF)

HISTORY:

09/26/24

Finance Committee APPROVED AND FORWARDED

RESULT:	APPROVED AND FORWARDED [UNANIMOUS]Next: 10/2/2024 9:00 AM
MOVER:	D. Clark, Supervisor District 5
SECONDER:	D. Larson, Vice-Chairperson
AYES:	Stelter, Larson, Richart, Clark, Arnett

FINANCE COMMITTEE

REPORT NO. 24-2

ANNUAL DOG LISTING 2024

The following claims against the Dog License Fund for listing dogs, pursuant to the provision of §174.06 of the Wisconsin Statutes, are recommended for allowance in the amounts set forth opposite the claimant's name for 2024:

	MUNICIPAL TREASURER FROM		NUMBER OF DOGS LISTED	AMOUNT ALLOWED	DATE REPORT RECEIVED
	Town of Belgium		92	\$46.00	9/11/2024
	Town of Cedarburg		324	\$162.00	9/4/2024
	Town of Fredonia		65	\$32.50	8/23/2024
	Town of Grafton		295	\$147.50	9/12/2024
	Town of Port Washington		70	\$35.00	9/13/2024
	Town of Saukville		177	\$88.50	9/10/2024
	Village of Belgium		132	\$66.00	9/9/2024
	Village of Fredonia		95	\$47.50	8/26/2024
	Village of Grafton		241	\$120.50	9/5/2024
	Village of Newburg		8	\$4.00	9/10/2024
	Village of Saukville		150	\$75.00	8/27/2024
	Village of Thiensville		168	\$84.00	9/16/2024
	City of Cedarburg		329	\$164.50	8/29/2024
	City of Mequon		798	\$399.00	9/9/2024
	City of Port Washington		295	\$147.50	9/13/2024
	TOTALS		3239	\$1,619.50	

Dated at Port Washington, Wisconsin, this 2nd day of October, 2024.

SUMMARY: Claims against the Dog License Fund for listing dogs, pursuant to the provision of §174.06 of the Wisconsin Statutes are recommended for the amounts set forth.

VOTE REQUIRED: Majority

Attachment: Listing Report 2024 (Annual Dog Listing Report 2024)

Finance Committee
AGENDA INFORMATION SHEET

AGENDA DATE:	September 26, 2024
DEPARTMENT:	County Clerk
DIRECTOR:	Karen Niemuth
PREPARER:	Tyler Quaas

Agenda Summary Annual Dog Listing Report

BACKGROUND INFORMATION: The listing official shall be compensated 50 cents for each dog listed. If listing official is a full-time, salaried municipal employee, they shall be required to pay the compensation into town, village, or city treasury.

The listing official shall, by September 15, deliver one copy of an alphabetic listing of all dogs in the district submitted to tax to the county clerk.

ANALYSIS: Annual payout of dog listings for reports that Municipal Treasurers submitted per Wis. State Statute § 174.06(7).

FISCAL IMPACT: N/A

FUNDING SOURCE: Dog License Fund

RECOMMENDED MOTION: All municipalities met the September 15 deadline; therefore, approval is recommended.

Attachment: Listing Report Sup Doc 2024 (Annual Dog Listing Report 2024)