



AGENDA
OZAUKEE COUNTY BOARD
REGULAR MEETING
WEDNESDAY, SEPTEMBER 6, 2023 – 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. August 2 & 16, 2023 Minutes

4. PUBLIC COMMENT

Legislative Update

Chairperson's Proclamation

5. COMMUNICATIONS

6. CLAIMS

7. REPORT OF COUNTY ADMINISTRATOR

County Administrator's Report September 2023

2022 Audit

2023 Budget

Virmond Staircase Grand Opening

County Opiate Settlement Funds

2023 County/United Way Golf Outing

8. PRESENTATIONS

Proposed Development of a 24 Unit Community Based Residential Facility on the Lasata Campus

Michael Peer – Clifton Larsen Allen

Andrew Alden – AG Architects

9. RESOLUTIONS

RES.23-18: Final Allocations Under the Ozaukee County Emergency Medical Grants Program as Revised

- a. Proposed Amendment to EMS Grant Program (Rishel, Maguire, Wolf, Haas, Godden)

RES.23-19: Increase of Revenue 2023 - Planning & Parks

RES.23-20: Application And Acceptance Of A Wisconsin Department Of Natural Resources County Conservation Aids Grant For Prairie Restoration Activities At Clay Bluffs Cedar Gorge Nature Preserve County Park

RES.23-21: Application And Acceptance Of A Wisconsin Department Of Natural Resources Surface Water Planning Grant To Support Water Quality Monitoring Activities On The Little Menomonee River And Creek, Mole Creek And Ulao Creek In Ozaukee County

RES.23-22: Application And Acceptance Of A Wisconsin Department Of Natural Resources Regular Urban Forestry Grant For Forest Management Planning, Native Tree Planting And Inventory, Emerald Ash Borer Management And Education/Outreach Activities In Covered Bridge County Park, Mee-Kwon County Park, River Oaks County Park And Ulao Creek Nature Preserve

10. ORDINANCES

ORD.23-3: Shoreland & Floodplain Zoning Map Amendment - Town of Belgium, Section 18

ORD.23-4: Shoreland & Floodplain Zoning Map Amendment - Town of Cedarburg, Section 21

11. COMMITTEE APPOINTMENTS/REAPPOINTMENTS

12. COMMITTEE REPORTS AND SUPERVISOR ANNOUNCEMENTS

13. ADJOURNMENT

Ozaukee County Board**AGENDA INFORMATION SHEET**

AGENDA DATE:	September 6, 2023
DEPARTMENT:	County Clerk
DIRECTOR:	Karen Niemuth
PREPARER:	Tyler Quaas

Agenda Summary August 2 & 16, 2023 Minutes

August 2, 2023

[<https://www.co.ozaukee.wi.us/AgendaCenter/ViewFile/Minutes/_08022023-3276>](https://www.co.ozaukee.wi.us/AgendaCenter/ViewFile/Minutes/_08022023-3276)

August 16, 2023

[<https://www.co.ozaukee.wi.us/AgendaCenter/ViewFile/Minutes/_08162023-3280>](https://www.co.ozaukee.wi.us/AgendaCenter/ViewFile/Minutes/_08162023-3280)

OZAUKEE COUNTY BOARD

Ozaukee County Board

AGENDA INFORMATION SHEET

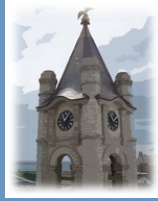
AGENDA DATE:	September 6, 2023
DEPARTMENT:	Administrator
DIRECTOR:	Jason Dzwinel
PREPARER:	Tyler Quaas

Agenda Summary County Administrator's Report September 2023

ATTACHMENTS:

- County Administrator's Report September 2023 (PDF)

OZAUKEE COUNTY BOARD



County Administrator's Report

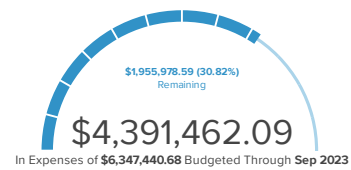
September 6, 2023

FINANCE

- Presentation of 2022 Audit Results - County remains in strong financial position
- Committee will review increasing the General Fund minimum retained fund balance policy in September.

Finance Committee

Data Updated Aug 27, 2023, 2:29 PM | Prorated Budget

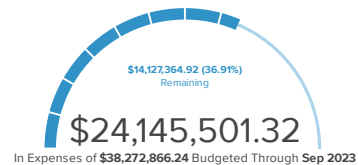


HUMAN SERVICES

- No August meeting
- Lasata Crossings respite offerings for rehabilitation increases census

Human Services

Data Updated Aug 27, 2023, 2:29 PM | Prorated Budget

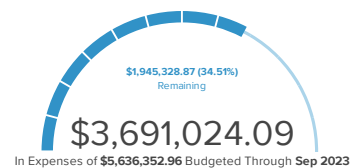


NATURAL RESOURCES

- 4-H Educator position filled
- Approved change order for Lion's Den Observation Deck due to low water levels
- Electric gates installed at Lion's Den, Virmond and Tendick Parks

Natural Resources

Data Updated Aug 27, 2023, 2:29 PM | Prorated Budget

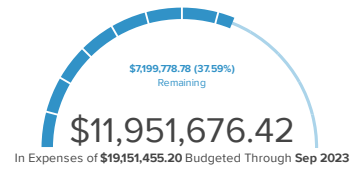


PUBLIC SAFETY -

- Approved EMS Grant Recommendations

Public Safety

Data Updated Aug 27, 2023, 2:29 PM | [Prorated Budget](#)

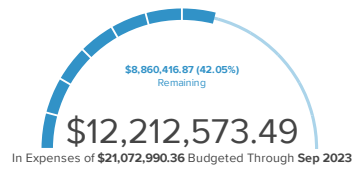


PUBLIC WORKS

- No August meeting

Public Works

Data Updated Aug 27, 2023, 2:29 PM | [Prorated Budget](#)



Ozaukee County Board

AGENDA INFORMATION SHEET

AGENDA DATE:	September 6, 2023
DEPARTMENT:	County Clerk
DIRECTOR:	Karen Niemuth
PREPARER:	Tyler Quaas

Agenda Summary Proposed Development of a 24 Unit Community Based Residential Facility on the Lasata Campus

ATTACHMENTS:

- Lasata Market Assessment - 2023 Update FINAL (PDF)

OZAUKEE COUNTY BOARD



We'll get you there.

CPAs | CONSULTANTS | WEALTH ADVISORS

Updated Market Assessment for CBRF Assisted Living and Memory Care Assisted Living in Cedarburg, Wisconsin

Prepared for Lasata Senior Living

May 10, 2023

Scope of Work

8.a

Completed an updated Market Assessment for Community Based Residential Facilities (“CBRF”) assisted living and Memory Care assisted living in Cedarburg, Wisconsin at the existing Lasata Senior Living Campus located at W76 N677 Wauwatosa Road (the “Community”):

- **Defined PMA** – The primary market area (“PMA”), previously defined in the initial study dated August 23, 2019 and re-utilized in the updated Market Assessment herein, uses ZIP Code boundaries and was based on geographic barriers, transportation patterns, discussion Lasata Senior Living Campus (“Lasata”, “you” or “Management”) and our knowledge of the draw areas for senior housing.
- **Demographic Analysis** – Updated 65+ senior demographics from U.S. Census Bureau data for 2010, as well as estimates for 2023 and projections through 2028. (Note that all 2023 and 2028 demographic data is estimated/projected by Environics Analytics, a nationally recognized demographic data services company). The Milwaukee-Waukesha-West Allis, WI Metropolitan Statistical Area (“Milwaukee Metro Area”) is used as a comparison and consists of Milwaukee, Ozaukee, Washington and Waukesha counties in Wisconsin.
- **Competitive Inventory** – Updated the inventory of CBRF assisted living (“CBRF AL”) and memory care assisted living (“Memory Care” or “MC”) in the PMA.
- **Pending** – Updated pending senior living projects in the PMA.
- **Demand Analysis** – Updated demand for CBRF assisted living and memory care assisted living in the PMA to 2028.

Attachment: Lasata Market Assessment - 2023 Update FINAL



AL/MC Licensure in Wisconsin

8.a

In Wisconsin, there are three licensed categories of senior housing that can be considered assisted living (memory care is a subset of this category and is usually a secured area within an assisted living building or a separate component that offers specialized programming and more intensive supervision than standard assisted living developments).

Each of these is described as follows:

- **Residential Care Apartment Complex (“RCAC”)** are places where five or more adults reside. Apartments must have a lockable entrance and exit; kitchen, including a stove (or microwave oven); an individual bathroom, sleeping and living area. This living option also provides to persons who reside in the place, not more than 28 hours per week of supportive services, personal assistance, nursing services, or emergency assistance.
- **Community Based Residential Facilities (“CBRF”)** are places where five or more adults reside. Services provided include room and board, supervision, support services, and may include up to three hours of nursing care per week. According to the Wisconsin Department of Health and Family Services, “CBRFs can admit people of advanced age, persons with dementia, developmental disabilities, mental health problems, physical disabilities, traumatic brain injury, AIDS, alcohol and other drug abuse, correctional client, pregnant women needing counseling and/or the terminally ill.”
- **Adult Family Homes (“AFH”)** are for persons seeking a small congregate setting. They house up to four persons. Care guidelines are similar to CBRF’s except that they can provide up to seven hours of nursing care per week. Because of the very small size of these facilities, they were not included as comparable for the purposes of this study.

Note: All of the competitive communities for this study are licensed as CBRFs.



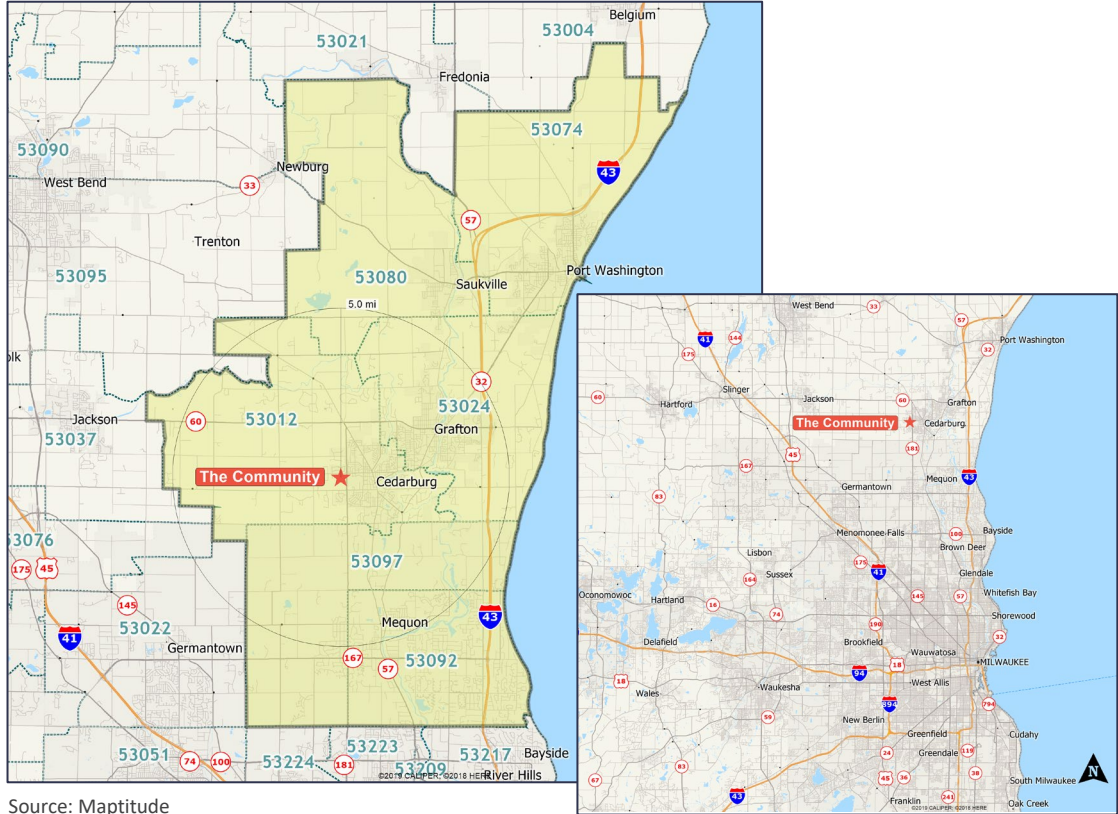


Primary Market Area

Primary Market Area

The yellow highlighted area on the map includes the ZIP codes that constitute the PMA. The included ZIP codes are listed below and the five-mile radius from The Community is shown for perspective.

- 53012
- 53024
- 53074
- 53080
- 53092
- 53097



Source: Maptitude



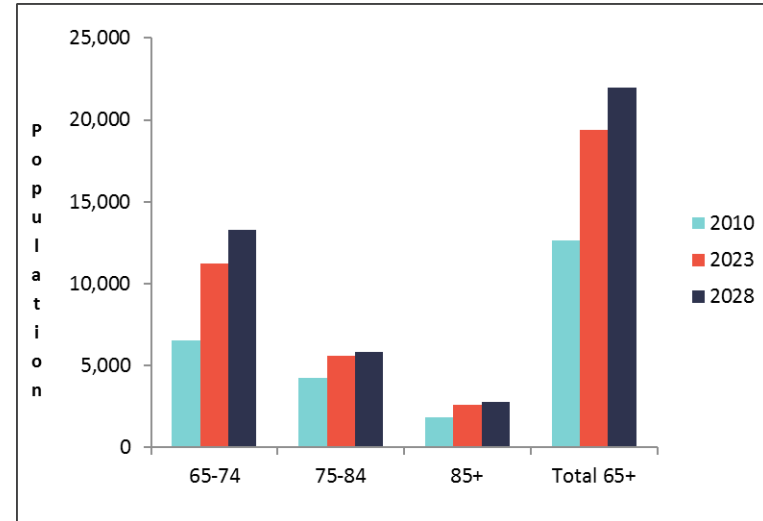
Demographics

Demographic Analysis – Population

8.a

Population

- In 2023, seniors (persons age 65+) are estimated to total **19,408** persons, an increase of **6,746** persons or **53.3%** from 2010.
- The senior population is projected to increase by **2,565** people or **13.2%** from 2023 to 2028.
- The largest projected growth is in the 65-to-74 age cohort, which is projected to add **2,073** people from 2023 to 2028. While this group is not the immediate target for senior living, the growth could indicate future demand.
- Overall, seniors age 75+ are projected to increase by **492** persons, or **6.0%** from 2023 to 2028.



Age Cohorts	Population			% Annual Change	
	2010	2023	2028	2010 - 2023	2023 - 2028
65-74	6,565	11,228	13,301	4.2%	3.4%
75-84	4,251	5,596	5,861	2.1%	0.9%
85+	1,846	2,584	2,811	2.6%	1.7%
Total 65+	12,662	19,408	21,973	3.3%	2.5%

Source: Environics Analytics

Attachment: Lasata Market Assessment - 2023 Update FINAL

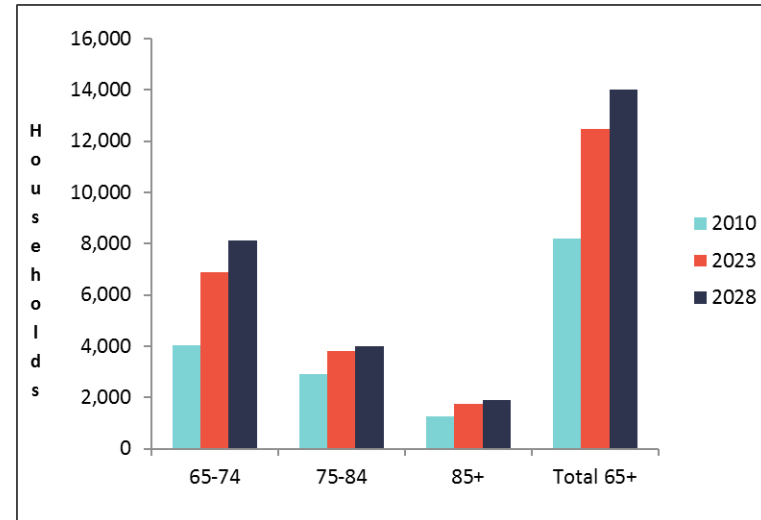


Demographic Analysis – Households

8.a

Households

- Senior household trends closely parallel population trends: the 65-74 cohort comprises the most growth from 2023 to 2028.
- In 2023, senior households in the PMA are estimated to total **12,453**, an increase of **4,242** households or **51.7%** from 2010.
- Additionally, an overall increase of **1,540** households or **12.4%** is projected for 2023 to 2028.
- Senior households 75+ are projected to increase by **311** households or **5.6%** from 2023 to 2028, or about **62** households per year.



Age Cohorts	Households			% Annual Change	
	2010	2023	2028	2010 - 2023	2023 - 2028
65-74	4,045	6,876	8,105	4.2%	3.3%
75-84	2,914	3,818	3,985	2.1%	0.9%
85+	1,252	1,759	1,903	2.6%	1.6%
Total 65+	8,211	12,453	13,993	3.3%	2.4%

Source: Environics Analytics

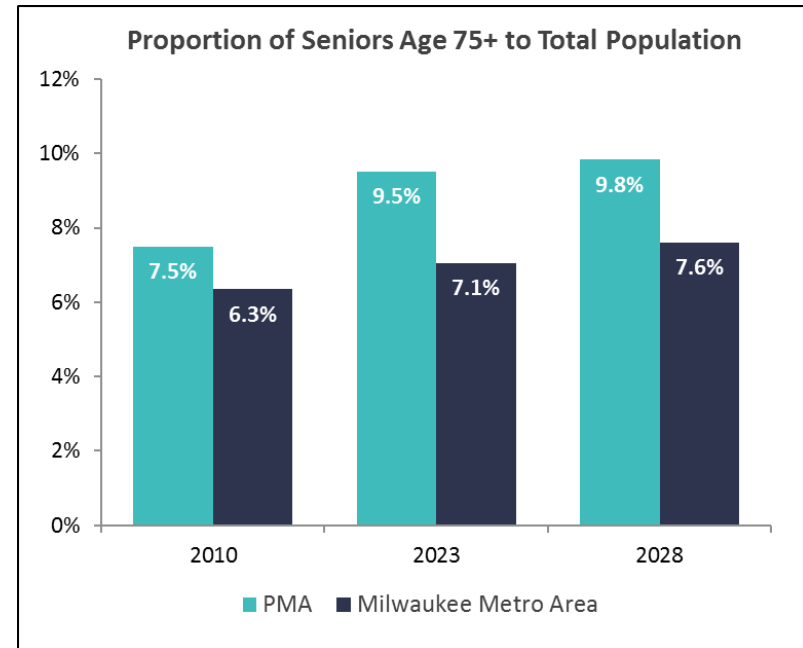


Demographic Analysis – 75+ Proportion

8.a

Proportion of Seniors in the PMA Compared to Overall Population

- An increased proportion of seniors could impact senior living in two ways:
 - **Fewer workers available** – continued workforce challenges
 - **Fewer caregivers** (adult children) – seniors may turn to formalized care if family is not a viable /assistance option
- The proportion of seniors age 75+ in the PMA is projected to increase from **9.5%** of the total population in 2023 to **9.8%** of the total population in 2028. Both percentages are significantly higher than the Milwaukee Metro Area overall.
- The total population in the PMA is expected to increase from **86,038** in 2023 to **88,175** in 2028, or **2.5%**. The total population in the Milwaukee Metro Area is expected to remain relatively consistent, growing by **763** persons during the same timeframe, or **0.0%**.



Source: Environics Analytics

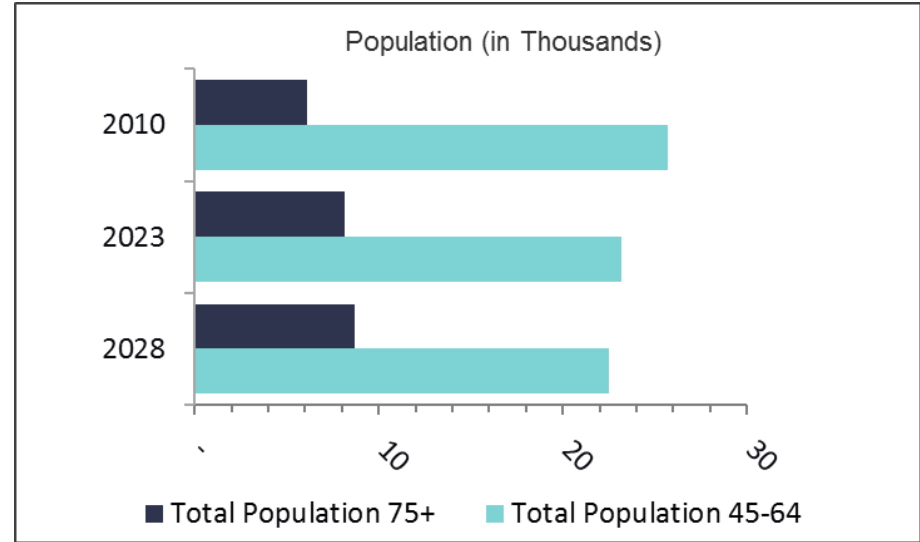
Attachment: Lasata Market Assessment - 2023 Update FINAL

Demographic Analysis – Adult Caregiver Ratio

8.a

The proportion of the population age 45-64 to the age 75+ population, or the adult caregiver ratio, can influence demand for senior care in a formalized setting.

- Persons age 45-64 (adult children and possible caregivers) in the PMA are projected to decline from **23,210** persons in 2023 to **22,502** persons in 2028, a decrease of **708** persons or **-3.1%**.
- The number of seniors age 75+ are projected to increase from **8,180** persons to **8,672** persons during the same time period, an overall increase of **492** persons or **6.0%**.
- The caregiver ratio is estimated to have decreased from **4.22** caregivers per seniors age 75+ in 2010 to **2.59** in 2028. This is due to growth in the age 75+ senior population projected from 2010 to 2028 along with a declining age 45-64 population from 2010 to 2028.
 - The declining proportion of caregivers may increase the number of seniors considering formalized senior housing options in the PMA.



Age Cohorts	Population			% Annual Change	
	2010	2023	2028	2010-2023	2023-2028
Total Population 45-64	25,722	23,210	22,502	-0.8%	-0.6%
Total Population 75+	6,097	8,180	8,672	2.3%	1.2%
Caregiver Ratio	4.22	2.84	2.59		

Source: EnviroNics Analytics

Attachment: Lasata Market Assessment - 2023 Update FINAL

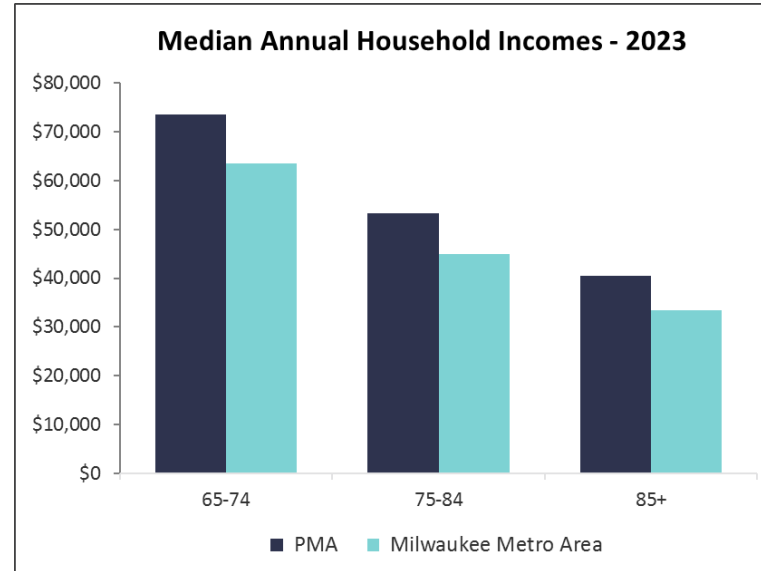


Demographic Analysis – Senior Income

8.a

Senior Income

- Senior household incomes indicate what seniors can afford to pay for senior living. Incomes in the PMA are projected to be higher than in the Milwaukee Metro Area for each senior age cohort.
- From 2023 to 2028, household incomes are projected to grow by **13.2%** for seniors age 65+ in the PMA. For comparison, the projected growth rate among seniors age 65+ in the Milwaukee Metro Area overall is **13.8%** over the five-year period.



	2023 Median Incomes			2028 Median Incomes		
	65-74	75-84	85+	65-74	75-84	85+
PMA	\$73,485	\$53,380	\$40,549	\$83,307	\$59,503	\$45,002
Milwaukee Metro Area	\$63,549	\$44,942	\$33,379	\$72,194	\$50,055	\$36,490

Source: Environics Analytics

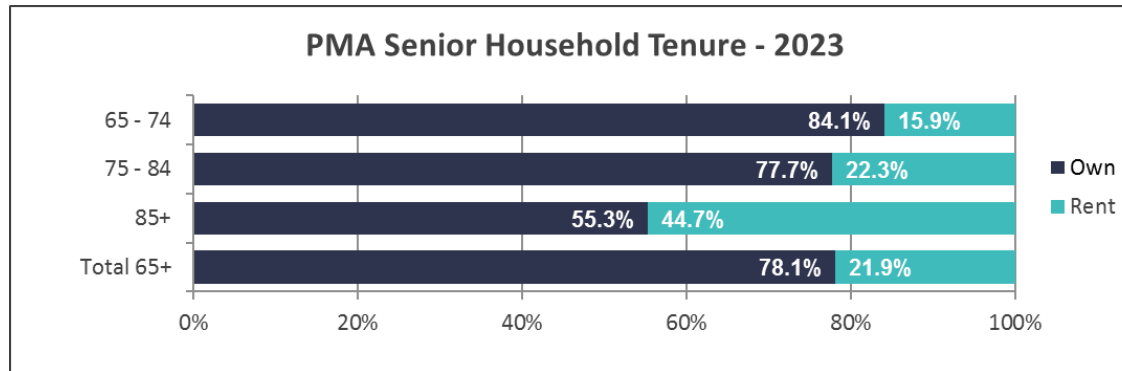


Demographic Analysis – Homeownership

8.a

Senior Homeownership - 2023

- The percentage of homeownership in the PMA indicates the percentage of seniors who could use the proceeds from the sale of a home towards senior living, supplementing their income. The percentage of homeowners has a significant impact on the number of age and income qualified seniors in the unit demand model.
- Among all PMA senior households, **78.1%** owned their housing in 2023. This ownership rate is substantially greater than the homeownership rate in the Milwaukee Metro Area overall at **69.8%**.
- As shown on the chart below, home ownership declines with age, as older seniors are more likely to move to senior living.



Source: Environics Analytics



Demographic Analysis – Housing Values

Housing Values – 2020 through YTD 2023

- The value of a senior's home relates to what they can afford to pay for alternative housing since the net proceeds of the sale of the home could be used to pay an entrance fee and senior care generally.
- As the table below shows, the weighted average of the median sales price in the PMA has risen from **\$388,863** in 2020 to **\$436,022** through the first 3 months of 2023. This represents an increase of **12.1%**. In the 53012 ZIP Code specifically, where the Community is located, the median sales price rose from **\$404,887** in 2020 to **\$485,282** through the first 3 months of 2023, representing an increase of **19.9%**.

ZIP Code ⁽¹⁾ Location	Annual Data									For the 3 Months Ended March 31, 2023		
	2020			2021			2022					
	Number of Homes Sold	Median Sales Price	Avg. DOM	Number of Homes Sold	Median Sales Price	Avg. DOM	Number of Homes Sold	Median Sales Price	Avg. DOM	Number of Homes Sold	Median Sales Price	Avg. DOM
53012 ⁽¹⁾ Cedarburg	241	\$404,887	65	232	\$473,005	58	180	\$467,682	59	29	\$485,282	68
53024 Grafton	250	363,208	73	229	417,438	58	236	448,071	62	41	429,330	71
53074 Port Washington	209	258,618	59	158	273,325	52	118	305,338	50	24	309,167	51
53080 Saukville	66	291,736	60	57	284,081	50	42	327,631	53	10	261,100	54
53092 Mequon	274	455,715	68	306	525,423	57	232	540,364	57	32	482,094	70
53097 Mequon	98	571,168	90	92	608,135	68	89	635,760	62	13	602,583	92
Total/ Wtd. Avg.	1,138	\$388,863	68	1,074	\$448,265	57	897	\$470,084	58	149	\$436,022	68

Source: Multiple Listing Service provided by Moving Station, April 2023.

Notes:

(1) Represents the ZIP Code in which the Community is located.





Competitors

Competitive Recap – CBRF AL / MC

8.a

The table is a summary CBRF assisted living and memory care in the PMA. The number of units are used later in the report for estimating demand in the PMA. Note that the detailed competitive tables can be found in Appendix B.

	Year Opened	CBRF Assisted Living		Memory Care		Total Number of CBRF AL & MC Beds
		Number of Beds	Occupancy Percentage	Number of Beds	Occupancy Percentage	
CBRF AL Communities in the PMA:						
Anita's Gardens of Port Washington	2007	0	N/A	19	94.7%	19
Anita's Gardens of Grafton	2014	0	N/A	20	100.0%	20
Ellen's Home Port Washington	2008	40	100.0%	0	N/A	40
Hamilton House	2019	0	N/A	28	92.9%	28
Harbor Campus	1993	49	*	17	94.1%	66
Harrison Home	1995	15	100.0%	0	N/A	15
Harvest Home ⁽¹⁾	2009	18	77.8%	0	N/A	18
Lincoln Village	2015	15	93.3%	20	80.0%	35
Luther Manor at River Oaks	2000	13	84.6%	0	N/A	13
McKinley Place	1985	65	93.8%	0	N/A	65
Milan Estates	2011	20	100.0%	0	N/A	20
Newcastle Place	2003	0	N/A	16	100.0%	16
Rosewood Manor	1994	8	100.0%	0	N/A	8
StoryPoint Mequon ⁽²⁾	2015	0	N/A	40	*	40
Terova Senior Living ⁽³⁾	2004	0	N/A	27	92.6%	27
Village Pointe Commons	2016	0	N/A	49	*	49
Subtotal/Weighted Average - CBRF AL Communities		243	94.3%	236	93.2%	479
CBRF AL Communities - Planned:						
Anita's Gardens of Saukville	Summer of 2024	24	N/A	12	N/A	36
Lumia of Mequon	Under Construction - Planned June 2023	6	N/A	26	N/A	32
Prairie's Edge	Planned - Timing Uncertain	18	N/A	18	N/A	36
Total - Planned CBRF AL Communities		48		56		104
Total - The CBRF AL Communities and the Planned CBRF AL Communities		242		203		583

Source: Telephone interviews and/or other research conducted in April and May 2023.

N/A = Not Applicable

Notes:

(1) Harvest Home was formerly known as Magnolia Hill

(2) StoryPoint Mequon was formerly known as Wright House Memory Care

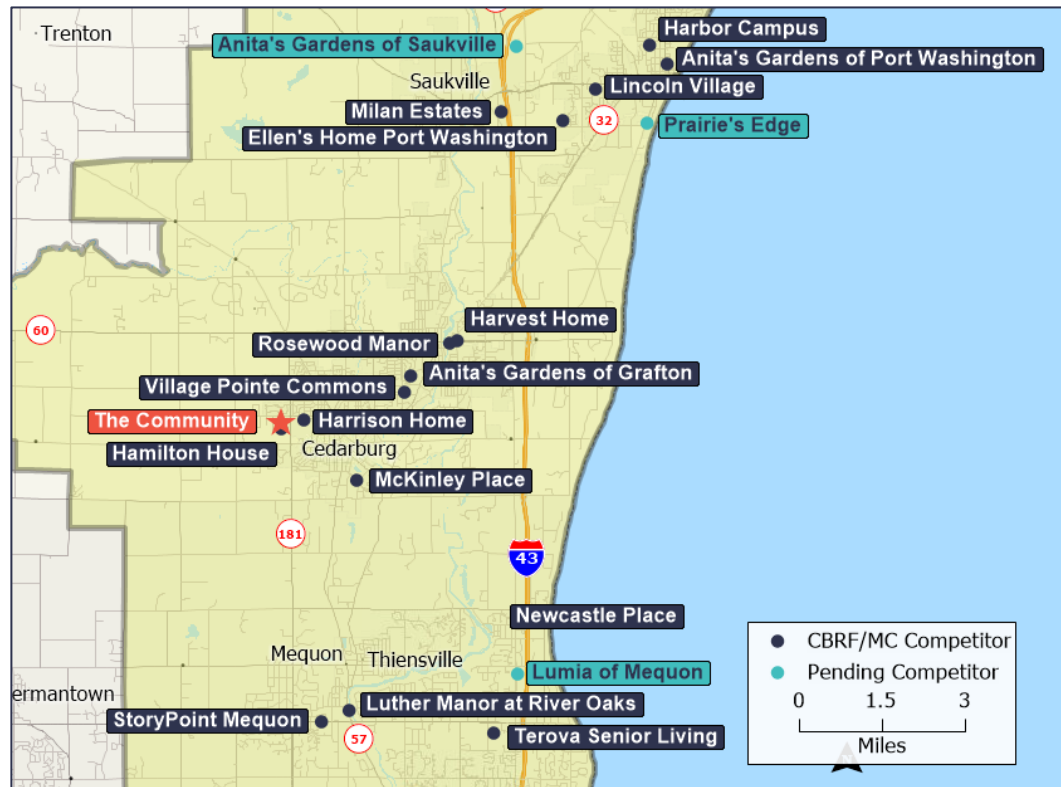
(3) Terova Senior Living was formerly known as Ovation - Sarah Chudnow

Attachment: Lasata Market Assessment - 2023 Update FINAL



CBRF AL /MC Competitor Map

The map shows the location of CBRF/MC assisted living competitors and pending competitors in the PMA along with the Community.



Source: Maptitude

Pending Projects

8.a

CLA contacted staff at planning departments in the PMA to determine if any new senior housing was being proposed in the PMA. At the time of research, three projects were identified:

- **Anita's Gardens of Saukville** – Anita's Gardens of Saukville is planned to be a part of the Northern Gateway Development, created by Ansay Group, and located north of highway 33 and between I-43 and Northwoods Road. Anita's is hoping to break ground by the end of 2023 for an opening in summer of 2024. This is a planned to be 34-bed facility. Per our discussion with staff, they are planning for 2/3 of these beds to be CBRF and 1/3 to be for memory care assisted living. The new facility is planned to be state of the art, with cutting edge technology and design elements. These units were not included in our demand analysis as the project has not yet broken ground per our discussion with staff.
- **Lumia of Mequon** – Located at 11900 N Port Washington Road, the facility will have 42 assisted living and 26 memory care units. Lumia will provide dining rooms, activities rooms, a salon, a wellness fitness room, spa bathing rooms and a theater. There will also be a sunroom, lounge spaces and a walking path on the south side of the building. This project is currently under construction and is planning to open in June of 2023. 36 of the 42 assisted living units will be licensed as RCAC and the remaining 6 of the 42 AL units will provide high acuity cares and thus licensed as CBRF. These units (6 CBRF / 26 MC) were included in our demand analysis.

Attachment: Lasata Market Assessment - 2023 Update FINAL



Pending Projects, continued

8.a

CLA contacted staff at planning departments in the PMA to determine if any new senior housing was being proposed in the PMA. At the time of research, three projects were identified:

- **Prairie's Edge** – Prairie's Edge, located at 2681 County Road C in Grafton, is planned to include three phases, the north, center and south phases. The north phase, consists of 14 lots for custom lakefront cottages and a 36-unit senior residence offering assisted living (18 CBRF) and memory care (18 CBRF memory care). The center phase is planned to consist of 156 luxury apartments in three buildings, 8 lakefront lot/cottages packages, up to 30,000 sqft. of commercial space for local professional and medical offices, neighborhood retail, and restaurants. A planned full-service health club will provide equipment, personal training and group instruction options—and membership is included for all residents. The south phase will include 9 lakefront lots for semi-custom homes, 16 pocket neighborhood homes oriented around a central courtyard, and 20 townhomes. These units were not included in our demand analysis as the project has not yet broken ground according to the City of Port Washington.

Attachment: Lasata Market Assessment - 2023 Update FINAL





Estimated Demand

Demand Assumptions – CBRF AL

8.a

- ADL needs were applied to the age/income qualified base for CBRF, 5.7% for ages 65-74 (3+ ADL needs), 30.8% for ages 75-84 (3+ ADL needs) and 50.8% for ages 85+ (3+ ADL needs).
- CBRF monthly service fees were tested at \$6,000, and \$6,500 for CBRF assisted living. Each service fee was tested with 90% of annual income allotted for CBRF assisted living.
- For homeowners who are able to draw on the equity of their home, an annual income of \$25,000 and \$30,000 was used, respectively, for the different monthly service fee levels.
- Gross market penetration of 40% was used for CBRF assisted living, based upon the number of existing beds and the CBRF specific ADL need percentages included in the qualified population pool.
- 25% of residents will move from outside of the PMA, based on our knowledge of the draw areas for senior housing.

Attachment: Lasata Market Assessment - 2023 Update FINAL



Estimated CBRF Demand

8.a

The following table shows the demand for CBRF assisted living units in 2023, 2025 and 2028 in the PMA.

	Estimated Demand						
	2023			2025	2028		
	Less:			Net Demand	Less:		
	Gross Demand	Existing Units	Net Demand		Gross Demand	Existing Units	Net Demand
CBRF ASSISTED LIVING:							
<i>Rents Starting at...</i>							
\$6,000/Month in 2023 dollars	561	(454)	107	111	572	(454)	118
\$6,500/Month in 2023 dollars	532	(454)	78	82	541	(454)	87
Source: CliftonLarsonAllen LLP							

The estimated demand shown in the tables is net of existing units; that is, demand for new development. Demand at the higher rent level is included in demand at the lower rent level. Demand for assisted living and memory care assisted living overlaps.

Attachment: Lasata Market Assessment - 2023 Update FINAL



Demand Assumptions – MC

8.a

- Incidence of dementia was applied to the age/income qualified base of residents living alone for memory care 3.2% for ages 65-74, 17.6% for ages 75-84 and 32.8% for ages 85+.
- Memory care monthly service fees were tested at \$7,000 per month. Each service fee was tested with 90% of annual income allotted for memory care assisted living.
- For homeowners who are able to draw on the equity of their home, an annual income of \$35,000 was used for the monthly service fee.
- Gross market penetration of 40% was used for memory care assisted living, based upon the number of existing beds and the CBRF specific ADL need percentages included in the qualified population pool.
- 25% of residents will move from outside of the PMA, based on our knowledge of the draw areas for senior housing.

Attachment: Lasata Market Assessment - 2023 Update FINAL



Estimated Memory Care Demand

8.a

The following table shows the demand for memory care assisted living units in 2023, 2025 and 2028 in the PMA.

	Estimated Demand						
	2023			2025	2028		
	Less:			Net Demand	Less:		
	Gross Demand	Existing Units	Net Demand		Gross Demand	Existing Units	Net Demand
CBRF MEMORY CARE ASSISTED LIVING:							
<i>Rents Starting at...</i>							
\$7,000/Month in 2023 dollars	280	(249)	31	34	287	(249)	38
Source: CliftonLarsonAllen LLP							

The estimated demand shown in the tables is net of existing units; that is, demand for new development. Demand for assisted living and memory care assisted living overlaps.





Observations

Observations

8.a

- Seniors age 75+ are projected to increase by 492 people or 6.0% from 2023 to 2028, which is the key market for housing with services.
- The proportion of seniors age 75+ relative to the overall population in the PMA is expected to increase into 2028 from 9.5% to 9.8%, as seniors age 75+ have been growing at a more rapid pace than the overall population.
- Incomes in the PMA for seniors age 65+ are projected to increase 13.2% over the next five years, from a median income of \$61,843 in 2023 to \$69,994 in 2028.
- The weighted average of the median sales price in the PMA has risen from \$388,863 in 2020 to \$436,022 through March 2023, substantial increase of 12.1%. Additionally, 78.1% of seniors age 65+ estimated to own their homes, this indicates that there is significant proportion of the senior population who can afford or supplement the cost of senior housing with the proceeds from the sale of their home.
- There are 243 CBRF assisted living beds in the PMA with an overall occupancy of 94.3%. There are 236 memory care assisted living beds in the PMA with an overall occupancy of 93.2%. As an industry standard for both CBRF and memory care assisted living, 93.0 percent occupancy is considered stabilized.

Attachment: Lasata Market Assessment - 2023 Update FINAL



Observations (cont.)

8.a

- There are three pending projects in the PMA—
 - **Anita's Gardens of Saukville** would add 24 beds of CBRF assisted living and 12 beds of memory care assisted living upon completion. While Anita Gardens of Saukville was not included in demand calculations since it is not yet under construction, management should continue to monitor the status of this planned development as it would likely be a direct competitor to the Community.
 - **Lumia of Mequon** would add 6 beds of CBRF assisted living and 26 beds of memory care assisted living upon completion. Lumia of Mequon is included in demand calculations since it is under construction, and Management should continue to monitor the status of this planned development as it would likely be a direct competitor to the Community.
 - **Prairie's Edge** would add 18 beds of CBRF assisted living and 18 beds of memory care assisted living upon completion. While Prairie's Edge was not included in demand calculations since it is not yet under construction, management should continue to monitor the status of this planned development as it would likely be a direct competitor to the Community.
- There is significant estimated demand in the PMA for CBRF assisted living at \$6,000 and \$6,500 per month. There is moderate estimated demand in the PMA for memory care assisted living at \$7,000 per month.
- Based on the results of this study, CLA believes there would be a market to support CBRF beds and a limited number of memory care assisted living at the Lasata Senior Living campus.

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Disclaimer

8.a

- The objective of this engagement was to collect and analyze as much data on the market as outlined in the Process Outline. CLA assumes no responsibility for matters legal in character. Certain information and statistics contained in this report, which are the basis for conclusions contained in the report, have been provided by other independent sources. While we believe this information is reliable, it has not been independently verified by us and we assume no responsibility for its accuracy. The conclusions in the report are based on our best judgments as market research consultants. CLA disclaims any express or implied warranty of assurance or representation that the projections or conclusions will be realized as stated. The result of the proposed project may be achieved, but may also vary due to changing market conditions, changes in facts that were the basis of the conclusions in the report or other unforeseen circumstances.
- Note that this Market Assessment should in no way be used to finance a project. Once a final housing concept has been defined, full market Feasibility Study should be conducted prior to making a decision to proceed with a project. This document is for the internal-use-only of Lasata and should not be distributed to third parties

Attachment: Lasata Market Assessment - 2023 Update FINAL



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Investment advisory services are offered through CliftonLarsonAllen Wealth Advisors, LLC, an SEC-registered investment advisor.



Appendix A

Detailed Demographic Tables

PMA SENIOR POPULATION GROWTH 2010 - 2028					
	Total Age 65 & Over			Annual Percentage Change	
	2010	2023	2028	2010-2023	2023-2028
PMA	12,662	19,408	21,973	3.3%	2.5%
Milwaukee Metro Area	195,832	276,028	308,228	2.7%	2.2%
	Age 65-74			Annual Percentage Change	
	2010	2023	2028	2010-2023	2023-2028
PMA	6,565	11,228	13,301	4.2%	3.4%
Milwaukee Metro Area	97,034	165,510	189,046	4.2%	2.7%
	Age 75-84			Annual Percentage Change	
	2010	2023	2028	2010-2023	2023-2028
PMA	4,251	5,596	5,861	2.1%	0.9%
Milwaukee Metro Area	67,521	77,064	85,179	1.0%	2.0%
	Age 85 & Over			Annual Percentage Change	
	2010	2023	2028	2010-2023	2023-2028
PMA	1,846	2,584	2,811	2.6%	1.7%
Milwaukee Metro Area	31,277	33,454	34,003	0.5%	0.3%

Source: Environics Analytics

PMA SENIOR HOUSEHOLD GROWTH 2010 - 2028					
	Total Age 65 & Over			Annual Percentage Change	
	2010	2023	2028	2010-2023	2023-2028
PMA	8,211	12,453	13,993	3.3%	2.4%
Milwaukee Metro Area	130,477	181,088	201,408	2.6%	2.1%
	Age 65-74			Annual Percentage Change	
	2010	2023	2028	2010-2023	2023-2028
PMA	4,045	6,876	8,105	4.2%	3.3%
Milwaukee Metro Area	62,346	105,390	119,819	4.1%	2.6%
	Age 75-84			Annual Percentage Change	
	2010	2023	2028	2010-2023	2023-2028
PMA	2,914	3,818	3,985	2.1%	0.9%
Milwaukee Metro Area	46,754	52,901	58,411	1.0%	2.0%
	Age 85 & Over			Annual Percentage Change	
	2010	2023	2028	2010-2023	2023-2028
PMA	1,252	1,759	1,903	2.6%	1.6%
Milwaukee Metro Area	21,377	22,797	23,178	0.5%	0.3%

Source: Environics Analytics

TOTAL POPULATION AND HOUSEHOLD GROWTH - PMA 2010 - 2028					
Total Population/Household Growth					
	Population			Annual Percentage Change	
	2010	2023	2028	2010-2023	2023-2028
PMA	81,369	86,038	88,175	0.4%	0.5%
Milwaukee Metro Area	1,555,906	1,565,673	1,566,436	0.0%	0.0%
	Households			Annual Percentage Change	
	2010	2023	2028	2010-2023	2023-2028
PMA	32,368	35,009	36,025	0.6%	0.6%
Milwaukee Metro Area	622,087	651,134	656,071	0.4%	0.2%
Age 75+ As Percent of Total Population/Households					
	Population			Annual Percentage Change	
	2010	2023	2028	2010-2023	2023-2028
PMA	7.5%	9.5%	9.8%	1.8%	0.7%
Milwaukee Metro Area	6.3%	7.1%	7.6%	0.8%	1.5%
	Households			Annual Percentage Change	
	2010	2023	2028	2010-2023	2023-2028
PMA	12.9%	15.9%	16.3%	1.7%	0.5%
Milwaukee Metro Area	11.0%	11.6%	12.4%	0.5%	1.4%

Source: Envionics Analytics

PMA CAREGIVER RATIO 2010 - 2028					
Population					
	Adult Caregivers (Age 45-64)			Annual Percentage Change	
	2010	2023	2028	2010-2023	2023-2028
PMA	25,722	23,210	22,502	-0.8%	-0.6%
Milwaukee Metro Area	416,841	387,725	378,263	-0.6%	-0.5%
	Seniors Age 75+			Annual Percentage Change	
	2010	2023	2028	2010-2023	2023-2028
PMA	6,097	8,180	8,672	2.3%	1.2%
Milwaukee Metro Area	98,798	110,518	119,182	0.9%	1.5%
Caregiver Ratio					
	Population			Annual Percentage Change	
	2010	2023	2028	2010-2023	2023-2028
PMA	4.22	2.84	2.59	-3.0%	-1.8%
Milwaukee Metro Area	4.22	3.51	3.17	-1.4%	-2.0%

Source: Environics Analytics

PMA SENIOR HOUSEHOLD INCOME 2023 & 2028										
	PMA					Milwaukee Metro Area				
	2023		2028		2023-2028	2023		2028		2023-2028
	Number	Percent	Number	Percent	Change	Number	Percent	Number	Percent	Change
Age 65-74										
Less than \$25,000	860	12.5%	845	10.4%	-1.7%	18,409	17.5%	17,551	14.6%	-4.7%
\$25,000 - 34,999	483	7.0%	461	5.7%	-4.6%	9,553	9.1%	9,779	8.2%	2.4%
\$35,000 - 49,999	846	12.3%	891	11.0%	5.3%	13,458	12.8%	13,252	11.1%	-1.5%
\$50,000 - 74,999	1,322	19.2%	1,450	17.9%	9.7%	19,716	18.7%	21,515	18.0%	9.1%
\$75,000 - 99,999	1,028	15.0%	1,144	14.1%	11.3%	13,936	13.2%	15,631	13.0%	12.2%
\$100,000 - 149,999	1,215	17.7%	1,573	19.4%	29.5%	15,662	14.9%	19,335	16.1%	23.5%
\$150,000 - 199,999	385	5.6%	553	6.8%	43.6%	6,037	5.7%	8,610	7.2%	42.6%
\$200,000 or more	737	10.7%	1,188	14.7%	61.2%	8,619	8.2%	14,146	11.8%	64.1%
Subtotal	6,876	100.0%	8,105	100.0%	17.9%	105,390	100.0%	119,819	100.0%	13.7%
Median Income	\$73,485		\$83,307		13.4%	\$63,549		\$72,194		13.6%
Age 75-84										
Less than \$25,000	774	20.3%	713	17.9%	-7.9%	13,770	26.0%	13,630	23.3%	-1.0%
\$25,000 - 34,999	443	11.6%	388	9.7%	-12.4%	7,194	13.6%	7,575	13.0%	5.3%
\$35,000 - 49,999	574	15.0%	567	14.2%	-1.2%	7,903	14.9%	7,973	13.6%	0.9%
\$50,000 - 74,999	752	19.7%	771	19.3%	2.5%	9,668	18.3%	10,717	18.3%	10.9%
\$75,000 - 99,999	426	11.2%	443	11.1%	4.0%	4,914	9.3%	5,569	9.5%	13.3%
\$100,000 - 149,999	517	13.5%	624	15.7%	20.7%	5,693	10.8%	7,114	12.2%	25.0%
\$150,000 - 199,999	124	3.2%	166	4.2%	33.9%	1,683	3.2%	2,428	4.2%	44.3%
\$200,000 or more	208	5.4%	313	7.9%	50.5%	2,076	3.9%	3,405	5.8%	64.0%
Subtotal	3,818	100.0%	3,985	100.0%	4.4%	52,901	100.0%	58,411	100.0%	10.4%
Median Income	\$53,380		\$59,503		11.5%	\$44,942		\$50,055		11.4%

Source: EnviroNics Analytics



PMA SENIOR HOUSEHOLD INCOME (CONT.)										
2023 & 2028										
	PMA					Milwaukee Metro Area				
	2023		2028		2023-2028	2023		2028		2023-2028
	Number	Percent	Number	Percent		Number	Percent	Number	Percent	
Age 85+										
Less than \$25,000	544	30.9%	537	28.2%	-1.3%	8,485	37.2%	7,805	33.7%	-8.0%
\$25,000 - 34,999	227	12.9%	219	11.5%	-3.5%	3,393	14.9%	3,389	14.6%	-0.1%
\$35,000 - 49,999	269	15.3%	283	14.9%	5.2%	3,300	14.5%	3,191	13.8%	-3.3%
\$50,000 - 74,999	302	17.2%	328	17.2%	8.6%	3,464	15.2%	3,662	15.8%	5.7%
\$75,000 - 99,999	176	10.0%	198	10.4%	12.5%	1,763	7.7%	1,942	8.4%	10.2%
\$100,000 - 149,999	140	8.0%	182	9.6%	30.0%	1,417	6.2%	1,718	7.4%	21.2%
\$150,000 - 199,999	40	2.3%	60	3.2%	50.0%	457	2.0%	639	2.8%	39.8%
\$200,000 or more	61	3.5%	96	5.0%	57.4%	518	2.3%	832	3.6%	60.6%
Subtotal	1,759	100.0%	1,903	100.0%	8.2%	22,797	100.0%	23,178	100.0%	1.7%
Median Income	\$40,549		\$45,002		11.0%	\$33,379		\$36,490		9.3%
Total Age 65+										
Less than \$25,000	2,178	17.5%	2,095	15.0%	-3.8%	40,664	22.5%	38,986	19.4%	-4.1%
\$25,000 - 34,999	1,153	9.3%	1,068	7.6%	-7.4%	20,140	11.1%	20,743	10.3%	3.0%
\$35,000 - 49,999	1,689	13.6%	1,741	12.4%	3.1%	24,661	13.6%	24,416	12.1%	-1.0%
\$50,000 - 74,999	2,376	19.1%	2,549	18.2%	7.3%	32,848	18.1%	35,894	17.8%	9.3%
\$75,000 - 99,999	1,630	13.1%	1,785	12.8%	9.5%	20,613	11.4%	23,142	11.5%	12.3%
\$100,000 - 149,999	1,872	15.0%	2,379	17.0%	27.1%	22,772	12.6%	28,167	14.0%	23.7%
\$150,000 - 199,999	549	4.4%	779	5.6%	41.9%	8,177	4.5%	11,677	5.8%	42.8%
\$200,000 or more	1,006	8.1%	1,597	11.4%	58.7%	11,213	6.2%	18,383	9.1%	63.9%
Subtotal	12,453	100.0%	13,993	100.0%	12.4%	181,088	100.0%	201,408	100.0%	11.2%
Median Income	\$61,843		\$69,994		13.2%	\$53,378		\$60,750		13.8%

Source: EnviroNics Analytics



PMA SENIOR HOUSEHOLD TENURE 2023												
<u>Number:</u>	Total 65+			Age 65 - 74			Age 75 - 84			Age 85 +		
	Total	Own	Rent	Total	Own	Rent	Total	Own	Rent	Total	Own	Rent
PMA	12,453	9,722	2,731	6,876	5,781	1,095	3,818	2,968	850	1,759	973	786
Milwaukee Metro Area	181,088	126,399	54,689	105,390	77,994	27,396	52,901	36,862	16,039	22,797	11,543	11,254
<u>Percent:</u>	Total 65+			Age 65 - 74			Age 75 - 84			Age 85 +		
	Total	Own	Rent	Total	Own	Rent	Total	Own	Rent	Total	Own	Rent
PMA	100.0%	78.1%	21.9%	100.0%	84.1%	15.9%	100.0%	77.7%	22.3%	100.0%	55.3%	44.7%
Milwaukee Metro Area	100.0%	69.8%	30.2%	100.0%	74.0%	26.0%	100.0%	69.7%	30.3%	100.0%	50.6%	49.4%

Source: Environics Analytics



Appendix B

Detailed Competitor Tables

	Ellen's Home Port Washington	Harbor Campus	Harrison Home	Harvest Home ⁽¹⁾	Lincoln Village	Luther Manor at River Oaks	McKinley Place	Milan Estates	Rosewood Manor
Street Address	1800 Granite Lane	425 W. Walters Street	W72 N675 Harrison Avenue	1706 Washington Street	1300 W Lincoln Avenue	11340 N Cedarburg Road	56 N225 McKinley Boulevard	715 Milan Drive	1515 Washington Street
City/State/ZIP Code	Port Washington, WI 53074	Port Washington, WI 53074	Cedarburg, WI 53012	Grafton, WI 53226	Port Washington, WI 53074	Mequon, WI 53092	Cedarburg, WI 53012	Saukville, WI 53080	Grafton, WI 53024
Approx. Miles from Project	10	12	0.5	5	11	7	2	10	5
Owner/Sponsor	Ellen's Home	Capri Senior Communities	Family Tree Residential	Active Living Environment	Heritage Senior Living	Luther Manor	Enlivant Senior Living	Milan Estates	Privately Owned
Profit/Nonprofit	Profit	Profit	Profit	Profit	Profit	Non-Profit	Profit	Profit	Profit
Year Opened	2008	1993	1995	2009	2015	2000	1985	2011	1994
Number of Beds									
CBRF AL studio-shared	0	4	0	0	0	0	0	0	0
CBRF AL studio-private	40	45	15	18	11	13	51	0	8
CBRF AL one-bedroom	0	0	0	0	4	0	14	20	0
CBRF AL two-bedroom	0	0	0	0	*	0	0	0	0
Total CBRF AL Beds	40	49	15	18	15	13	65	20	8
Square Footage:									
CBRF AL studio-shared	N/A	427	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CBRF AL studio-private	*	140 - 525	*	*	344	170	314-374	N/A	300
CBRF AL one-bedroom	N/A	N/A	N/A	N/A	581	N/A	412	*	N/A
CBRF AL two-bedroom	N/A	N/A	N/A	N/A	765	N/A	N/A	N/A	N/A
Monthly Service Fees:									
CBRF AL studio-shared	N/A	\$4,410	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CBRF AL studio-private	\$5,000+	\$4,795 - 5,520	\$5,963 - 6,780	\$5,500	\$5,995	\$6,150	\$3,200 - 3,500	N/A	\$5,300 - 5,600
CBRF AL one-bedroom	N/A	N/A	N/A	N/A	*	N/A	\$4,200	*	N/A
CBRF AL two-bedroom	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Occupancy Rate- CBRF AL	100%	*	100.0%	77.8%	93.3%	84.6%	93.8%	100.0%	100.0%
Included in Monthly Service Fee:									
Meals	3 meals per day	3 meals per day	3 meals per day	3 meals per day	3 meals per day	3 meals per day	3 meals per day	3 meals per day	3 meals per day
Housekeeping		Weekly	Weekly	Weekly	Weekly	Weekly	Weekly	2x per week	As needed
Linen service	Weekly	Weekly	Weekly	Weekly	Weekly	Weekly	Weekly	Weekly	As needed
Laundry service- CBRF AL	Weekly	Weekly	Weekly	As needed	Weekly	Weekly	Weekly	Weekly	As needed
Personal Care- CBRF AL	A la carte ⁽²⁾	LOC: \$450, \$1,350, \$2,250, \$3,350, \$4,450,	All inclusive	LOC: * ⁽²⁾	LOC: \$800, \$1,200, \$1,600, \$2,000	LOC: \$870, \$1,680	6 LOCs: \$760 - 4,106	A la carte	All inclusive

Source: Telephone interviews and/or other research conducted in April and May 2023.

N/A = Not Applicable

Notes:

Ellen's Home Port Washington

(1) Care can go as high as \$7,000 per month.

Harvest Home

(1) Care can go as high as \$2,900 per month.

(2) Formerly known as Magnolia Hill.



	Anita's Gardens of Port Washington	Anita's Gardens Of Grafton	Harbor Campus	Hamilton House	Lincoln Village	Newcastle Place	StoryPoint Mequon ⁽¹⁾	Terova Senior Living ⁽¹⁾	Village Pointe Commons
Street Address	117 E Van Buren Street	1777 Highland Drive	425 W. Walters Street	76 N629, N Wauwatosa Rd	1300 W Lincoln Avenue	2600 N Port Washington Rd	6751 W Mequon Road	10995 N Market Street	101 Walnut Circle
City/State/ZIP Code	Port Washington, WI 53074	Grafton, WI 53024	Port Washington, WI 53074	Cedarburg, WI 53012	Port Washington, WI 53074	Mequon, WI 53092	Mequon, WI 53092	Mequon, WI 53092	Grafton, WI 53024
Approx. Miles from Project	12	3	12	0.2	11	8	6	10	3
Owner/Sponsor	Brikat Enterprises LLC	Brikat Enterprises LLC	Capri Senior Communities	Hamilton House Senior Living	Heritage Senior Living	Life Care Services	Tealwood Senior Living	Mequon Jewish Campus	Capri Communities LLC
Profit/Nonprofit	Profit	Profit	Profit	Profit	Profit	Non-Profit	Profit	Non-Profit	Profit
Year Opened	2007	2014	1993	2019	2015	2003	2015	2004	2016
Number of Beds									
MC studio-shared	5	0	0	0	0	0	0	0	8
MC studio-private	14	20	17	28	18	16	40	27	41
MC one-bedroom	0	0	0	0	2	0	0	0	0
MC two-bedroom	0	0	0	0	0	0	0	0	0
Total MC Beds	19	20	17	28	20	16	40	27	49
Square Footage:									
MC studio-shared	*	*	N/A	N/A	N/A	N/A	N/A	N/A	273-298
MC studio-private	*	*	320	390-393	299-394	173-185	270-315	*	509
MC one-bedroom	N/A	N/A	N/A	N/A	557	N/A	N/A	N/A	N/A
MC two-bedroom	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Monthly Service Fees:									
MC studio-shared	\$3,800 - \$5,300	N/A	N/A	N/A	N/A	N/A	N/A	N/A	\$6,810
MC studio-private	\$5,100 - \$6,100	\$5,400 - 6,900	\$6,075	\$5,225	\$5,895+	\$8,724	\$5,249+	\$7,800-8,480	\$7,340 - 7,495
MC one-bedroom	N/A	N/A	N/A	N/A	*	N/A	N/A	N/A	N/A
MC two-bedroom	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Occupancy Rate-CBRF AL	N/A	N/A	*	N/A	93.3%	N/A	N/A	N/A	N/A
Included in Monthly Service Fee:									
Meals	3 meals per day	3 meals per day	3 meals per day	3 meals per day	3 meals per day	3 meals per day	3 meals per day	3 meals per day	3 meals per day
Housekeeping	As needed	As needed	Weekly	Weekly	Weekly	Weekly	Bi-weekly	Weekly	As needed
Linen service	As needed	As needed	Weekly	Weekly	Weekly	Weekly	Weekly	Weekly	As needed
Laundry service-MC	As needed	As needed	Weekly	Weekly	Weekly	Weekly	Weekly	Weekly	As needed
Personal Care-MC	LOC: \$500, \$1,000	LOC: \$500, \$1,000	LOC: \$1,045, \$2,090, \$3,135, \$4,180	3 LOCs: \$1,750 - 4,700	LOC: \$800, \$1,200, \$1,600, \$2,000	LOC: \$2,158	LOC: *	All inclusive	LOC: \$1,000, \$2,000, \$3,000, \$4,000

Source: Telephone interviews and/or other research conducted in April and May 2023.

N/A = Not Applicable

Notes:

StoryPoint Mequon

(1) Formerly known as Wright House Memory Care.

Terova Senior Living

(1) Formerly known as Ovation - Sarah Chudnow.





Appendix C

Detailed Demand Calculations

PRIMARY MARKET AREA ASSISTED LIVING DEMAND MINIMUM RENTS OF \$6,000/Month in 2023 dollars 2023	
AGE 75 - 84	
Households with incomes of \$80,000 or more	1,190
Estimated households with incomes of \$25,000 - \$79,999	1,854
Times home-ownership rate, 2023	x 77.7%
Equals homeowners w/incomes \$25,000 - \$79,999	1,441
Total income-qualified households	2,631
Times percent who need assistance	x 30.8%
Total Age 75 - 84	810
AGE 85+	
Households with incomes of \$80,000 or more	382
Estimated households with incomes of \$25,000 - \$79,999	833
Times home-ownership rate, 2023	x 55.3%
Equals homeowners w/incomes \$25,000 - \$79,999	461
Total income-qualified households	843
Times percent who need assistance	x 50.8%
Total Age 85+	428
Subtotal	1,238
Times the Estimated Percentage of Seniors Age 75+ Living Alone (2010)	52.3%
Number of Qualified Individuals	648
Plus the Number of Qualified Individuals Currently Residing at Existing Assisted Living Communities in the PMA	403
Total Age and Income Qualified Individuals	1,051
Multiplied by penetration potential @ 40%	x 40.0%
Equals current total demand from local seniors	420
Add: Demand from outside market area/@25%	140
Equals total assisted living demand	561
Minus: Existing Assisted Living Units/Beds in the PMA	(454)
Net Demand for Assisted Living Units in the PMA	107
Source: Environics Analytics U.S. Bureau of the Census CliftonLarsonAllen	

PRIMARY MARKET AREA ASSISTED LIVING DEMAND MINIMUM RENTS OF \$6,000/Month in 2023 dollars 2028	
AGE 75 - 84	
Households with incomes of \$92,700 or more	1,232
Estimated households with incomes of \$29,000 - \$92,699	1,884
Times home-ownership rate, 2023	x 77.7%
Equals homeowners w/incomes \$29,000 - \$92,699	1,465
Total income-qualified households	2,697
Times percent who need assistance	x 30.8%
Total Age 75 - 84	831
AGE 85+	
Households with incomes of \$92,700 or more	396
Estimated households with incomes of \$29,000 - \$92,699	883
Times home-ownership rate, 2023	x 55.3%
Equals homeowners w/incomes \$29,000 - \$92,699	488
Total income-qualified households	884
Times percent who need assistance	x 50.8%
Total Age 85+	449
Subtotal	1,280
Times the Estimated Percentage of Seniors Age 75+ Living Alone (2010)	52.3%
Number of Qualified Individuals	670
Plus the Number of Qualified Individuals Currently Residing at Existing Assisted Living Communities in the PMA	403
Total Age and Income Qualified Individuals	1,073
Multiplied by penetration potential @ 40%	x 40.0%
Equals current total demand from local seniors	429
Add: Demand from outside market area/@25%	143
Equals total assisted living demand	572
Minus: Existing Assisted Living Units/Beds	(454)
Net Demand for Assisted Living Units in the PMA	118
Source: Environics Analytics U.S. Bureau of the Census CliftonLarsonAllen	

PRIMARY MARKET AREA ASSISTED LIVING DEMAND MINIMUM RENTS OF \$6,500/Month in 2023 dollars 2023			
AGE 75 - 84			
Households with incomes of \$86,700 or more			1,076
Estimated households with incomes of \$30,000 - \$86,699	1,747		
Times home-ownership rate, 2023	x	77.7%	
Equals homeowners w/incomes \$30,000 - \$86,699			1,358
Total income-qualified households			2,434
Times percent who need assistance	x	30.8%	
Total Age 75 - 84			750
AGE 85+			
Households with incomes of \$86,700 or more			335
Estimated households with incomes of \$30,000 - \$86,699	767		
Times home-ownership rate, 2023	x	55.3%	
Equals homeowners w/incomes \$30,000 - \$86,699			424
Total income-qualified households			759
Times percent who need assistance	x	50.8%	
Total Age 85+			385
Subtotal			1,135
Times the Estimated Percentage of Seniors Age 75+ Living Alone (2010)		52.3%	
Number of Qualified Individuals			594
Plus the Number of Qualified Individuals Currently Residing at Existing Assisted Living Communities in the PMA			403
Total Age and Income Qualified Individuals			997
Multiplied by penetration potential @ 40%	x	40.0%	
Equals current total demand from local seniors			399
Add: Demand from outside market area/@25%			133
Equals total assisted living demand			532
Minus: Existing Assisted Living Units/Beds			(454)
Total Demand for Assisted Living Units			78
Source: Envionics Analytics U.S. Bureau of the Census CliftonLarsonAllen			

PRIMARY MARKET AREA ASSISTED LIVING DEMAND MINIMUM RENTS OF \$6,500/Month in 2023 dollars 2028			
AGE 75 - 84			
Households with incomes of \$100,500 or more			1,097
Estimated households with incomes of \$34,800 - \$100,499	1,795		
Times home-ownership rate, 2023	x	77.7%	
Equals homeowners w/incomes \$34,800 - \$100,499			1,395
Total income-qualified households			2,492
Times percent who need assistance	x	30.8%	
Total Age 75 - 84			768
AGE 85+			
Households with incomes of \$100,500 or more			336
Estimated households with incomes of \$34,800 - \$100,499	815		
Times home-ownership rate, 2023	x	55.3%	
Equals homeowners w/incomes \$34,800 - \$100,499			451
Total income-qualified households			787
Times percent who need assistance	x	50.8%	
Total Age 85+			400
Subtotal			1,167
Times the Estimated Percentage of Seniors Age 75+ Living Alone (2010)		52.3%	
Number of Qualified Individuals			611
Plus the Number of Qualified Individuals Currently Residing at Existing Assisted Living Communities in the PMA			403
Total Age and Income Qualified Individuals			1,014
Multiplied by penetration potential @ 40%	x	40.0%	
Equals current total demand from local seniors			406
Add: Demand from outside market area/@25%			135
Equals total assisted living demand			541
Minus: Existing Assisted Living Units/Beds			(454)
Total Demand for Assisted Living Units			87
Source: Envionics Analytics U.S. Bureau of the Census CliftonLarsonAllen			



PRIMARY MARKET AREA MEMORY CARE DEMAND CALCULATION MINIMUM RENTS OF \$7,000/Month in 2023 dollars 2023			
AGE 75 - 84			
Households with incomes of \$93,300 or more			963
Estimated households with incomes of \$35,000 - \$93,299	1,638		
Times home-ownership rate, 2023	x	77.7%	
Equals homeowners w/incomes \$35,000 - \$93,299			1,273
Total income-qualified households			2,236
Times percent who need assistance	x	17.6%	
Total Age 75 - 84			394
AGE 85+			
Households with incomes of \$93,300 or more			288
Estimated households with incomes of \$35,000 - \$93,299	700		
Times home-ownership rate, 2023	x	55.3%	
Equals homeowners w/incomes \$35,000 - \$93,299			387
Total income-qualified households			675
Times percent who need assistance	x	32.8%	
Total Age 85+			221
Subtotal			615
Times the Estimated Percentage of Seniors Age 75+ Living Alone (2010)		52.3%	
Number of Qualified Individuals			322
Plus the Number of Qualified Individuals Currently Residing at Existing Memory Care Communities in the PMA			204
Total Age and Income Qualified Individuals			526
Multiplied by penetration potential @ 40%	x	40.0%	
Equals current total demand from local seniors			210
Add: Demand from outside market area/@25%			70
Equals total Alzheimer's/dementia demand			280
Minus: Existing Alzheimer's/dementia Beds			(249)
Net Demand for Alzheimer's/dementia Units			31
Source: Environics Analytics U.S. Bureau of the Census CliftonLarsonAllen			

PRIMARY MARKET AREA MEMORY CARE DEMAND CALCULATION MINIMUM RENTS OF \$7,000/Month in 2023 dollars 2028			
AGE 75 - 84			
Households with incomes of \$108,200 or more			1,001
Estimated households with incomes of \$40,600 - \$108,199	1,672		
Times home-ownership rate, 2023	x	77.7%	
Equals homeowners w/incomes \$40,600 - \$108,199			1,299
Total income-qualified households			2,300
Times percent who need assistance	x	17.6%	
Total Age 75 - 84			405
AGE 85+			
Households with incomes of \$108,200 or more			308
Estimated households with incomes of \$40,600 - \$108,199	733		
Times home-ownership rate, 2023	x	55.3%	
Equals homeowners w/incomes \$40,600 - \$108,199			406
Total income-qualified households			714
Times percent who need assistance	x	32.8%	
Total Age 85+			234
Subtotal			639
Times the Estimated Percentage of Seniors Age 75+ Living Alone (2010)		52.3%	
Number of Qualified Individuals			334
Plus the Number of Qualified Individuals Currently Residing at Existing Memory Care Communities in the PMA			204
Total Age and Income Qualified Individuals			538
Multiplied by penetration potential @ 40%	x	40.0%	
Equals current total demand from local seniors			215
Add: Demand from outside market area/@25%			72
Equals total Alzheimer's/dementia demand			287
Minus: Existing Alzheimer's/dementia Beds			(249)
Net Demand for Alzheimer's/dementia Units			38
Source: Environics Analytics U.S. Bureau of the Census CliftonLarsonAllen			



RESOLUTION NO. 23-18

FINAL ALLOCATIONS UNDER THE OZAUKEE COUNTY EMERGENCY MEDICAL
GRANTS PROGRAM AS REVISED

WHEREAS, The Ozaukee County Board of Supervisors approved Resolution 21-72 establishing the Ozaukee County Emergency Medical Services Grants Program from American Rescue Plan Act Funds; and

WHEREAS, The Ozaukee County Board of Supervisors approved Resolution 22-10 approving the following amounts for the first twelve months of the Emergency Medical Services Grants Program based on the estimates of the amount of funding that each municipality can sustain upon the completion of the three-year grant term.

219-2-01-58023-000 EMS Grant Village Fredonia (Belgium): \$225,000

219-2-01-58024-000 EMS Grant Village Grafton (Saukville): \$300,000

219-2-01-58030-000 EMS Grant City Cedarburg: \$200,000

219-2-01-58038-000 EMS Grant City Mequon (Thiensville): \$300,000

219-2-01-58039-000 EMS Grant City Port Washington: \$200,000

WHEREAS, The Ozaukee County Board of Supervisors approved Resolution 22-47 approving \$100,000 for the Village of Fredonia for equipment for Paramedic Response; and

NOW, THEREFORE, BE IT RESOLVED, by the Ozaukee County Board of Supervisors that the following amounts to support the Ozaukee County Emergency Medical Services Grants Program be approved and adopted, in addition to the amounts approved in Resolution 22-10 and Resolution 22-47, for completion from American Rescue Plan Act funds in the line-item accounts detailed below:

219-2-01-58023-000 EMS Grant Village Fredonia (Belgium): \$100,000

219-2-01-58024-000 EMS Grant Village Grafton (Saukville): \$540,000

219-2-01-58030-000 EMS Grant City Cedarburg: \$200,000

219-2-01-58038-000 EMS Grant City Mequon (Thiensville): \$620,000

219-2-01-58039-000 EMS Grant City Port Washington: \$200,000

FURTHER RESOLVED, that the Ozaukee County Emergency Medical Services Grants Program funds shall be paid to the municipalities in full following the approval of the Ozaukee County Board of Supervisors; and

FURTHER RESOLVED, that the Ozaukee County Emergency Medical Services Grants Program are restricted to use on the municipal Emergency Medical Services personnel currently budgeted by the municipality and those hired with Program funds, supplies or equipment through December 31, 2024; and

FURTHER RESOLVED, that the quarterly reporting requirements between the county and participating municipalities included in the subrecipient agreements be waived and that a final reporting of the municipal expenditures by each municipality participating in the Ozaukee

County Emergency Medical Services Grants Program is due as of March 31, 2025; and

FURTHER RESOLVED, that following the final Ozaukee County Emergency Medical Services Grants Program reporting period of March 31, 2025 the Ozaukee County Finance Department shall perform a final audit of each municipal participant and that any unallowable costs be reimbursed within six months.

Dated at Port Washington, Wisconsin, this 6th day of September 2023.

SUMMARY: Ozaukee County Emergency Medical Services Grants Program Budgets

VOTE REQUIRED: Two-Thirds of Members Elect

08/28/23

Executive Committee

APPROVED

RESULT: **APPROVED [UNANIMOUS]**

MOVER: D. Irish, Supervisor District 17

SECONDER: R. Nelson, Supervisor District 6

AYES: Schlenvogt, Melotik, Wolf, Nelson, Holyoke, Irish

EXECUTIVE COMMITTEE

Executive Committee
AGENDA INFORMATION SHEET

AGENDA DATE:	September 6, 2023
DEPARTMENT:	Administrator
DIRECTOR:	Jason Dzwinel
PREPARER:	Jason Dzwinel

Agenda Summary Final Allocations Under the Ozaukee County Emergency Medical Grants Program as Revised

BACKGROUND INFORMATION: The Resolution establishes the final allocations under the Ozaukee County Emergency Medical Grants Program as approved by the Public Safety Committee. The recommended amounts are based on the analysis of the County Administrator's Office and the need to upgrade the Countywide Dispatch Center to address spatial and training needs.

The amounts included in the resolution would be included with the funding approved in Resolution 22-10 for each EMS Department. It will also include the \$100,000 allocation approved for the Village of Fredonia for equipment for paramedic response in Resolution 22-47.

EMS GRANT APPLICANTS	ELIGIBLE AMOUNT	AMOUNT APPROVED	CAPITAL AMOUNT APPROVED	RECOMMENDED ALLOCATION	TOTAL PROGRAM ALLOCATION
Mequon	\$250,000	\$150,000	\$0	\$200,000	\$350,000
Thiensville	\$250,000	\$150,000	\$0	\$200,000	\$350,000
Cedarburg	\$200,000	\$200,000	\$0	\$100,000	\$300,000
Grafton	\$250,000	\$150,000	\$0	\$200,000	\$350,000
Saukville	\$250,000	\$150,000	\$0	\$200,000	\$350,000
Port Washington	\$200,000	\$200,000	\$0	\$100,000	\$300,000
Fredonia (Belgium Fire)	\$200,000	\$225,000	\$100,000	\$0	\$325,000
TOTAL	\$1,600,000	\$1,225,000	\$100,000	\$1,000,000	\$2,325,000

EXECUTIVE COMMITTEE AMENDMENT

Chairman Schlenvogt and Supervisors Foy, Matera and Nelson proposed the following amendment, which was approved by the Executive Committee.

The Supervisors proposing the amendment recommend that the new calculation:

1. Reimburse municipalities for the funds expended since 2022, in addition to the Public Safety Committee recommendation, as a recognition of their efforts to increase the EMS personnel countywide.
2. Ensure that no municipality participating in the program receive less than \$400,000 under the program.

MUNICIPALITY	REPORTED PROGRAM EXPENSES	PUBLIC SAFETY RECOMMENDATION	PUBLIC SAFETY + PROGRAM EXPENSES	RECOMMENDED AMENDMENT AMOUNT
Grafton	\$85,600	\$350,000	\$435,600	\$440,000
Saukville	\$26,579	\$350,000	\$376,579	\$400,000
Cedarburg	\$11,318	\$300,000	\$311,318	\$400,000
SOFD	\$212,140	\$700,000	\$912,140	\$920,000
Port Washington	\$82,182	\$300,000	\$382,182	\$400,000
Fredonia	\$76,994	\$325,000	\$401,994	\$425,000
TOTAL	\$494,814	\$2,325,000	\$2,819,814	\$2,985,000

In addition, the resolution authorizes:

1. Full payment of the program allocations upon the approval of the County Board of Supervisors.
2. Allows municipal expenditures on EMS personnel, currently budgeted by the municipality and those hired with Program funds and supplies and equipment.
3. Eliminates the quarterly reporting requirements in lieu of a final reporting due before March 31, 2025.
4. Establishes a final auditing and reimbursement of any unallowable expenditures by the municipality withing six months of the final county audit.

ANALYSIS: Of the \$1,325,000 of funding approved by the County Board of Supervisors in Resolutions 22-10 (August 2022) and 22-47 (April 2023) for the first twelve months of the program thirty-seven percent have been expended. Thirty-four percent have been expended on newly hired personnel, when the \$100,000 for the Village of Fredonia is removed from the calculation. Approximately \$830,000 of the 12-month allocation remains unspent through 2022, quarter one and quarter two of 2023.

USE OF ARPA FUNDS: This recommendation only allocates ARPA funds to support the program. Under the Federal guidelines the allocation of ARPA funds must be made before December 31, 2024, and designated/contracted for expenditure by December 31, 2026 per the ARPA requirements. Unfortunately, because total expenditures must be known by December 31, 2024, the county does not have the ability to establish an open-ended commitment beyond the December 31, 2024 deadline. There is no way to accurately establish a contract for an operational expense, especially personnel beyond December 31, 2024. This is underpinned by the difficulty that the municipalities have had in recruiting and retaining personnel. It also serves as the basis to recommend that the municipalities could use these funds to supplant currently

budgeted municipal EMS funds, allowing the municipalities to hold their budgeted funds in 2023 and 2024 for future years expenses, if they desire.

EMS PERSONNEL ESTIMATE

An analysis of the Grant Program funds reported by the municipalities throughout 2022 and in quarters one and two of 2023 demonstrates that \$419,000 have been expended on newly hired EMS personnel as required by Resolution 21-72. Using a simple assumption of \$100,000 per new hire this equates to 4.19 FTE hired. The Public Safety recommendation will allow for the hiring of an additional 19.06 FTE through 2024, a 350% increase.

WISCONSIN ACT 12

Because of the maintenance of effort requirements established in Wisconsin Act 12 the county should not commit any current operational funds (non-ARPA) to support municipal EMS services. The use of tax levy, fund balance, or Wisconsin Act 12 shared revenue would require additional expenditures on EMS, a non-county function because of the maintenance of effort requirements. The maintenance of effort requirements of Wisconsin Act 12 does allow for exemptions for federal funds expended at the local level.

The resolution also includes information on EMS Calls and response times. In addition a linear statistical analysis of forecasted expenditures based on reported expenditures through quarter two of 2023 is included.

FISCAL IMPACT: \$2,325,000

FUNDING SOURCE: ARPA Funds

RECOMMENDED MOTION: The Public Safety Committee requests approval of the final allocations under the Ozaukee County Emergency Medical Grants Program.

PUBLIC SAFETY COMMITTEE

RESULT: **APPROVED AND FORWARDED [3 TO 2]** **Next: 8/28/2023 3:00 PM**

MOVER: P. Foy, Supervisor District 26

SECONDER: J. Krane, Supervisor District 24

AYES: R. Nelson, P. Foy, J. Krane

NAYS: J. Haas, T. Maguire

ATTACHMENTS:

- Policy Analysis EMS Grant (PDF)
- EMS Response Times (PDF)
- EMS Rescue Calls by Location (PDF)
- RescueCallsMap (002) (PDF)
- LINEAR STATISTICAL ANALYSIS (PDF)
- Proposed Amendment to Resolution 23-18 (PDF)

POLICY ANALYSIS AND FINAL FUNDING RECOMMENDATIONS

OZAUKEE COUNTY EMS GRANT PROGRAM

The County EMS Grant Program was established in April of 2022 by the Ozaukee County Board to use ARPA funds to hire up to recruit and retain up to eighteen Fire Paramedic positions countywide to reduce EMS response times. The county designated \$5,000,000 for this effort and directed the Public Safety Committee to award grant amounts under the program. The program established the following parameters.

1. Each Municipality operating a Fire and EMS Department is eligible for \$200,000 per year;
2. Municipalities consolidating two Fire and EMS Department are eligible for an additional \$100,000 per year;
3. Municipalities consolidating three or more Fire and EMS Department are eligible to apply for capital awards of up to \$100,000 per consolidating municipality.

Following the establishment of the EMS Grant Program the Public Safety Committee approved the following grant amounts in July of 2022 for the first twelve months of the program:

1. Cedarburg \$200,000
2. Port Washington \$200,000
3. Fredonia (Belgium) \$225,000
4. Grafton (Saukville): \$300,000
5. Mequon (Thiensville): \$300,000

The cities of Cedarburg and Port Washington submitted standalone applications under the program. The Village of Fredonia submitted an application for their EMS and Fire services and on behalf of the Village of Belgium Fire service. The Village of Belgium does not offer EMS services. The Village of Grafton and Saukville submitted a consolidation application for their Fire and EMS services. Grafton and Saukville are partially consolidated and continue to work in good faith towards a full consolidation. The City of Mequon and Village of Thiensville submitted a consolidation application for their Fire and EMS services. Mequon and Thiensville fully consolidated into the Southern Ozaukee Fire Department as of January 1, 2023.

PROGRAM REPORTING

The EMS Grant Program required each participating municipality to sign a subrecipient agreement which established legal and reporting requirements under the program. An example is attached.

In addition to the subrecipient agreement, each participating municipality was required to submit a sustainability plan approved by the elected officials of the municipality or municipalities

participating in the program. The sustainability plans were required to include the following per the Resolution 21-72;

1. Analysis of all associated fees, assessments, taxes, etc. and the best possible formula for cost recovery; and
2. Identify revenue sources for consideration, municipal levy limit impact and alternative revenue sources, and any requested ongoing county property tax levy support; and
3. Develop a projected integrated budget for applications consolidating one or more consolidating municipality; and

Each participating municipality has submitted a sustainability plan with varying levels of detail and differing methods of approval from the elected bodies. The sustainability plans as submitted are attached.

Municipalities seeking reimbursement under the EMS Grant Program are required to report quarterly on their successful efforts to recruit and retain additional EMS staff. Because the stated goal of the program in Resolution 21-72 is to hire additional EMS staff countywide each participating municipality was required to submit budgetary information for the pre-grant period and payroll information to verify the reimbursement requests. It is important to note that county staff scrutinized this payroll information to confirm that the reimbursements under the program were supporting EMS staff hired above the level that was budgeted for 2023. For example, if a municipality budgeted two full-time EMS staff the reimbursement would be approved for the EMS staff wages hired third, however, the program reimbursement would not continue if any of the three EMS staff left their employment during the reimbursement period as the two existing staff are already serving the public with budgeted funds from the municipal budget.

FIRST QUARTER 2023 RESULTS

The first quarter results as reported by the EMS Program participants demonstrate the challenge of recruiting and retaining EMS personnel. As of the date of this report approximately \$190,000 of EMS expenditures were reported under the program. Using the salary range as listed from the Village of Fredonia's Fire/Paramedic job listing of \$53,000 to \$82,000 this would be an increase of 2.75 to 1.8 FTE EMS personnel countywide since the program was implemented. The table below details the expenditures submitted.

Municipality	Sustainability Plan Received	Prior Year Budget on File	Q1 Reimbursement Submitted	Form Received	Amount
Grafton	Yes	Yes	Yes	Yes	\$47,000
Saukville	Yes	Yes	Yes	Yes	\$20,000
Cedarburg	Yes	No Hires	No	No	
SOFD	Yes	Yes	Yes	No	\$84,000
Port Washington	Yes	Yes	Yes	Yes	\$36,000
Fredonia	Yes	No Hires	No	No	
TOTAL					\$190,000

It is fair to say that the process for reporting and auditing budgets and payroll ledgers to ensure that the intent of the program to increase EMS staffing countywide is challenging at both the municipal and county level. Many municipalities have reallocated budgeted personnel assumptions to improve their levels of service. For example, shifting wage allocations from paid on call to part-time and full-time staff is a necessary budgetary measure to increase the number of personnel, but it makes auditing the information required for reimbursement more difficult. It can be accomplished but requires extra effort by the municipal and county staff.

POLICY ANALYSIS

The primary policy decision before the County Board is how to properly allocate the remainder of the funds that are designated for the EMS Grant Program through 2025 when the program will terminate. There are several factors that will inform this decision.

1. The allocation of funds must be made before December 31, 2024 and designated for expenditure by December 31, 2026 per the ARPA requirements.
2. The final allocation of funds under the EMS Grant Program requires a level of accuracy that will guarantee that the ARPA funds designated will be fully expended during the ARPA period.
3. The challenge to recruit and retain 18 additional EMS personnel countywide under the program.
4. Difficulties in meeting program deadline, quarterly reporting and auditing program results.
5. 2023 Wisconsin Act 12 meets the challenge that the county's EMS Grant Program was developed to address.
6. The Sheriff's Department has burgeoning capital needs to assist with the provision of dispatch services in 2024 and beyond.

The current level of funding designated to the EMS Grant Program is \$3.7 million. The original \$5 million designation, less the expenditure Fire/EMS Pro Phoenix computer aided dispatch software (\$200,000) and not-for-profit grants (\$1080,000). County Board approval of final allocations need to be established under the EMS Grant Program no later than quarter four of 2023. While the ARPA legislation deadline for allocation is December 31, 2024, it is highly unlikely that the remaining \$3.7 million can be expended on EMS personnel. Because of this the county will need time to plan, detail and estimate for other uses of the ARPA funds.

Additionally, the county will need to make careful and correct estimates for the final allocations. Not only because the "use it or lose it nature" of the ARPA allocation, but also because there is a significant opportunity cost for any dollars that may not be expended to hire and retain EMS personnel. The most significant project that will need to be addressed is the expansion of the County Dispatch Center.

2023 WISCONSIN ACT 12

The recent shared revenue legislation significantly altered the landscape for the funding of municipal EMS services by modifying the State of Wisconsin's Shared Revenue Formula by increasing the level of supplemental aid to counties and municipalities for the provision of law enforcement, fire protection, emergency medical services, emergency response communications,

public works, courts, and transportation. This legislation, in many ways, meets the challenge that the county's EMS Grant Program was developed to address by creating a sustainable source of revenue directed to support public safety. Moreover, the legislation establishes a maintenance of effort requirement for EMS. The act requires counties and municipalities to annually certify to DOR that the county or municipality has maintained at least two of the following at a level at least equivalent to the previous year:

- Expenditures, not including capital expenditures, for fire protection and EMS.
- The number of full-time equivalent fire fighters and EMS personnel employed by or assigned to the county or municipality.
- The level of training and maintenance of licensure for fire fighters and EMS personnel providing fire protection and EMS within the county or municipality.
- Response times for fire protection and EMS throughout the county or municipality, adjusted for call location.

This legislation aligns with the policy goals of the EMS Grant Program, increasing EMS personnel at the municipal level and simultaneously requires sustainability.

DISPATCH PLANNING

In the upcoming months, the Sheriff's Department and County Administration to plan and seek approval of a project to relocate the Sheriff's Dispatch center from his current location on the first floor of the Sheriff's Department to the training room adjacent to the Emergency Management Department on the bottom floor of the Justice Center.

The City of Cedarburg has indicated that they will turnover dispatching of their Police and Emergency Management Services to the county in 2024. The current County Dispatch center includes seven consoles for dispatch. While not every position is in use during all shifts, the number of positions does limit the ability to onboard and train Dispatch staff. The current training for a newly hired Dispatcher is approximately four months. On the job training requires that a newly hired Dispatcher share a Dispatch position with a seasoned Dispatcher. The Dispatcher position in the county has historically been one of high turnover due to the fact that the skill set, and demeanor required to be successful is very unique in the workforce. Since 2021 turnover in the Dispatch Unit is 40% of the total workforce of the unit.

Because of the critical nature of this aspect of public safety operations the ability to onboard and train is very important. Currently about 24 1/2 FTEs are staffed within the Dispatch Unit. The assumption of the City of Cedarburg operations will require 3 to 4 additional staff. The Sheriff's Department will require the ability to onboard, train, and properly staff the unit in the future. In addition, employee burn out is a consideration as the Unit has worked more than 7,300 overtime hours since 2021. Ideal staffing for the pre-Cedarburg consolidation for the unit would include 9 FTEs on first and second shift and 7 FTEs on third shift.

This project will require more than \$1,000,000 to complete, with construction and contingency. In addition to the Dispatch Center upgrade, a \$255,000 expenditure on the county's simulcast paging system and recording was not funded in a recent E911 grant received from the State of Wisconsin. It is not difficult to argue that these upgrades to the county's Dispatch Center will directly impact the level of service and capacity to serve the EMS System. The Dispatch Center upgrade ensures that there are ample space and technology for countywide dispatch and the simulcast system will create significant efficiencies when EMS and Fire Services are paged into

CURRENT EMS/PUBLIC SAFETY FUNDING

The table below details the amounts of EMS Grant Program funding approved, the new funding available under 2023 Act 12 and the ARPA funds received by each municipality that applied for the grant. It is understood that not all the funding under 2023 Act 12 must be allocated to EMS services, however, this issue has been positioned as one of great importance by the municipalities.

EMS GRANT APPLICANTS	ELIGIBLE AMOUNT *	APPROVED AMOUNT	CAPITAL AMOUNT APPROVED	ASSEMBLY BILL 245	MUNICIPAL ARPA ALLOCATION
Mequon*	\$250,000	\$150,000	\$0	\$588,364	\$2,552,029
Thiensville*	\$250,000	\$150,000	\$0	\$85,167	\$327,089
Cedarburg	\$200,000	\$200,000	\$0	\$306,867	\$1,214,469
Grafton*	\$250,000	\$150,000	\$0	\$302,904	\$1,226,192
Saukville*	\$250,000	\$150,000	\$0	\$101,215	\$463,996
Port Washington	\$200,000	\$200,000	\$0	\$315,975	\$1,246,707
Fredonia**	\$200,000	\$225,000**	\$100,000	\$68,279	\$235,818
<i>*includes consolidation bonus of \$50,000 for co-applicants</i>					
<i>*Fredonia and Belgium co-applicants; Belgium only operates a Fire Service</i>					

FINAL FUNDING RECOMMENDATION OZAUKEE COUNTY EMS PROGRAM

Based on the above analysis and summary below the following is the recommended level of funding for each of the municipal participants of the EMS Grant Program.

EMS GRANT APPLICANTS	ELIGIBLE AMOUNT	AMOUNT APPROVED	CAPITAL AMOUNT APPROVED	RECOMMENDED ALLOCATION	TOTAL PROGRAM ALLOCATION
Mequon	\$250,000	\$150,000	\$0	\$200,000	\$350,000
Thiensville	\$250,000	\$150,000	\$0	\$200,000	\$350,000
Cedarburg	\$200,000	\$200,000	\$0	\$100,000	\$300,000
Grafton	\$250,000	\$150,000	\$0	\$200,000	\$350,000
Saukville	\$250,000	\$150,000	\$0	\$200,000	\$350,000
Port Washington	\$200,000	\$200,000	\$0	\$100,000	\$300,000
Fredonia (Belgium Fire)	\$200,000	\$225,000	\$100,000	\$0	\$325,000
TOTAL	\$1,600,000	\$1,225,000	\$100,000	\$1,000,000	\$2,325,000

POLICY SUMMARY AND RECOMMENDED CHANGES

- \$2.3 Million infusion of ARPA funds into county EMS System, more than AB 245
- Elimination of quarterly reporting requirements for municipalities
- Elimination of personnel only expenditures
- Require funds to be fully expensed by the municipalities on EMS Service by December 31, 2024

MUNICIPAL CONSOLIDATION UPDATE & FUNDING JUSTIFICATION

- Mequon/Theinsville consolidated as of January 1, 2023.
- Grafton/Saukville actively working towards consolidation.
- Fredonia/Belgium consolidated; Belgium only offered Fire Service before consolidation.

EXPENDITURE	AMOUNT
County EMS Grant Program Funding Recommendation	\$2,325,000
Deployment of Electronic Records Management and Computer Aided Dispatch Software for Fire and EMS	\$225,000
Simulcast Paging System Upgrade for Fire and EMS	\$255,000
County Dispatch Center Upgrade and Construction Contingency	\$1,000,000
Funding of Justice Center Training and Storage Facility - Change Order No. 1	\$112,000
Not-for-Profit Grants Funded with EMS Grant Program Allocation	\$1,080,000
TOTAL	\$4,997,000

BELGIUM FIRE	PARAMEDIC	RESCUE	RESCUE 1	RESCUE 2	RESCUE 3	RESCUE 4	RESCUE 5	RESCUE 6	AVERAGE
2018		0:11:18	0:11:30	0:14:24	0:12:54	0:12:33	0:12:22		0:12:30
2019		0:09:33	0:12:57	0:13:11	0:11:27	0:12:57	0:12:44		0:12:08
2020		0:10:32	0:10:19	0:13:44	0:12:45	0:12:35	0:14:54		0:12:28
2021		0:12:30	0:16:23	0:11:00	0:11:24	0:12:08	0:19:20	0:10:14	0:13:48
2022		0:11:16	0:08:38	0:12:01	0:12:43	0:13:02	0:13:27		0:11:51
2023		0:13:22	0:08:10	0:12:30	0:15:21	0:12:22	0:15:50		0:12:56

CEDARBURG 1	PARAMEDIC	RESCUE	RESCUE 1	RESCUE 2	RESCUE 3	RESCUE 4	RESCUE 5	RESCUE 6	AVERAGE
2018		0:12:19	0:08:24	0:11:47	0:13:17	0:13:57	0:14:03		0:12:18
2019		0:12:36	0:08:29	0:11:31	0:12:11	0:12:25	0:13:34		0:11:48
2020		0:11:50	0:10:20	0:14:40	0:12:11	0:12:54	0:14:21		0:12:43
2021		0:10:00	0:10:11	0:11:19	0:11:25	0:11:29	0:13:15		0:11:17
2022		0:08:04	0:07:56	0:09:07	0:10:23	0:10:13	0:09:54		0:09:16
2023		0:06:10		0:07:23	0:07:33	0:09:26	0:10:05		0:08:07

CEDARBURG 2	PARAMEDIC	RESCUE	RESCUE 1	RESCUE 2	RESCUE 3	RESCUE 4	RESCUE 5	RESCUE 6	AVERAGE
2018		0:12:02	0:06:51	0:14:54	0:16:53	0:15:04	0:15:02		0:13:28
2019		0:12:32		0:13:40	0:13:15	0:14:41	0:15:56		0:14:01
2020		0:14:32	0:09:37	0:14:04	0:14:32	0:13:33	0:13:52	0:14:14	0:13:22
2021		0:12:18	0:08:49	0:14:23	0:06:31	0:13:26	0:14:52		0:11:43
2022		0:10:27			0:21:41				0:16:04

FREDONIA	PARAMEDIC	RESCUE	RESCUE 1	RESCUE 2	RESCUE 3	RESCUE 4	RESCUE 5	RESCUE 6	AVERAGE
2018		0:12:37	0:09:43	0:13:29	0:14:22	0:12:58	0:14:47		0:12:59
2019		0:10:49	0:07:42	0:12:07	0:13:27	0:12:05	0:14:03		0:11:42
2020		0:12:52	0:09:57	0:13:24	0:14:58	0:13:08	0:13:15		0:12:56
2021		0:14:35	0:12:04	0:13:07	0:16:01	0:13:53	0:14:33	0:16:09	0:14:02
2022		0:13:00	0:11:40	0:12:13	0:13:56	0:12:45	0:13:25		0:12:50
2023		0:18:00	0:10:26	0:13:34	0:11:24	0:13:17	0:13:24		0:13:21

GRAFTON	PARAMEDIC	RESCUE	RESCUE 1	RESCUE 2	RESCUE 3	RESCUE 4	RESCUE 5	RESCUE 6	AVERAGE
2018		0:08:12	0:07:01	0:07:55	0:09:03	0:07:36	0:07:57	0:06:46	0:07:57
2019		0:06:42	0:05:52	0:08:13	0:07:23	0:06:59	0:07:46		0:07:09
2020	0:19:13	0:09:01	0:06:39	0:08:09	0:08:13	0:07:26	0:09:52	0:09:26	0:08:13

2021	0:07:46	0:08:23	0:06:18	0:07:59	0:09:02	0:08:03	0:08:07		0:07:59
2022	0:13:16	0:09:06	0:07:31	0:08:22	0:08:19	0:07:45	0:08:16	0:04:34	0:08:13
2023	0:11:16	0:06:24	0:06:10	0:07:38	0:07:19	0:07:39	0:07:53		0:07:11

MEQUON	PARAMEDIC	RESCUE	RESCUE 1	RESCUE 2	RESCUE 3	RESCUE 4	RESCUE 5	RESCUE 6	AVERAGE
2018	0:13:00	0:06:59	0:07:17	0:08:04	0:07:59	0:08:09	0:07:58		0:07:44
2019	0:06:57	0:07:32	0:08:04	0:07:58	0:07:35	0:07:59	0:08:51	0:08:02	0:08:00
2020	0:00:00	0:07:55	0:07:51	0:08:04	0:08:28	0:09:06	0:08:07	0:04:46	0:08:15
2021	0:09:36	0:08:09	0:05:53	0:07:43	0:07:55	0:07:55	0:08:05	0:06:13	0:07:37
2022	0:11:10	0:07:09	0:07:02	0:08:02	0:08:12	0:08:13	0:08:21		0:07:50
2023	0:12:15	0:11:18	0:07:02	0:11:02	0:06:09	0:09:35	0:08:19		0:08:54

PORT WASHINGTON	PARAMEDIC	RESCUE	RESCUE 1	RESCUE 2	RESCUE 3	RESCUE 4	RESCUE 5	RESCUE 6	AVERAGE
2018	0:15:01	0:09:32	0:15:05	0:12:45	0:13:08	0:12:53	0:13:15	0:11:29	0:12:46
2019	0:15:08	0:08:35	0:10:58	0:13:07	0:12:51	0:12:17	0:13:22		0:11:52
2020	0:15:20	0:06:03	0:10:01	0:12:59	0:12:47	0:12:02	0:13:05	0:16:53	0:11:09
2021	0:15:39	0:11:04	0:10:22	0:11:40	0:12:30	0:11:28	0:12:46	0:09:34	0:11:38
2022	0:14:06	0:14:54	0:08:40	0:10:10	0:10:30	0:09:57	0:11:10	0:07:10	0:10:53
2023	0:13:52	0:09:44	0:09:19	0:11:44	0:10:08	0:09:32	0:10:23		0:10:08

SAUKVILLE	PARAMEDIC	RESCUE	RESCUE 1	RESCUE 2	RESCUE 3	RESCUE 4	RESCUE 5	RESCUE 6	AVERAGE
2018		0:10:28	0:10:53	0:12:24	0:14:06	0:15:16	0:14:21		0:12:55
2019		0:05:28	0:09:26	0:13:36	0:13:38	0:13:04	0:13:57		0:11:32
2020		0:06:48	0:10:22	0:12:32	0:12:45	0:11:27	0:12:07	0:09:25	0:11:00
2021		0:08:13	0:09:29	0:12:16	0:11:35	0:11:56	0:14:47		0:11:23
2022	0:14:33	0:10:41	0:07:25	0:09:58	0:09:57	0:10:58	0:11:37		0:10:06
2023	0:14:12	0:08:09	0:07:52	0:08:09	0:13:21	0:09:04	0:09:42		0:09:23

THIENSVILLE	PARAMEDIC	RESCUE	RESCUE 1	RESCUE 2	RESCUE 3	RESCUE 4	RESCUE 5	RESCUE 6	AVERAGE
2018	0:10:14	0:08:30	0:06:38	0:08:21	0:08:09	0:07:47	0:07:41		0:07:51
2019	0:10:30	0:07:39	0:05:48	0:07:58	0:08:02	0:11:39	0:07:53		0:08:10
2020	0:10:26	0:08:32	0:08:19	0:09:41	0:07:48	0:09:42	0:08:49	0:03:38	0:08:48
2021	0:11:07	0:10:19	0:05:05	0:10:07	0:08:52	0:07:47	0:08:02	0:04:49	0:08:22
2022	0:10:57	0:06:58	0:05:49	0:07:06	0:05:31	0:07:06	0:07:33		0:06:41

Belgium Fire (Village and Town)	PARAMEDIC	RESCUE	RESCUE 1	RESCUE 2	RESCUE 3	RESCUE 4	RESCUE 5	RESCUE 6	TOTAL
2018		8	4	46	26	41	61		186
2019		10	4	40	36	42	56		188
2020		8	6	54	41	60	49		218
2021		38	7	56	26	60	48	1	236
2022		9	3	43	40	52	51		198
2023		1	5	32	16	37	34		125
TOTAL		74	29	271	185	292	299	1	1151

Cedarburg Fire (City and Town)	PARAMEDIC	RESCUE	RESCUE 1	RESCUE 2	RESCUE 3	RESCUE 4	RESCUE 5	RESCUE 6	TOTAL
2018		489	7	103	50	90	124		863
2019		343	3	119	84	119	174		842
2020		339	16	136	85	153	244	1	974
2021		426	8	116	87	116	213	0	966
2022		420	10	179	102	193	245		1149
2023		356	9	77	52	90	98		682
TOTAL		2373	53	730	460	761	1098	1	5476

Fredonia Fire (Village and Town)	PARAMEDIC	RESCUE	RESCUE 1	RESCUE 2	RESCUE 3	RESCUE 4	RESCUE 5	RESCUE 6	TOTAL
2018		12	7	81	42	61	73		276
2019		13	7	68	47	83	78		296
2020		10	10	82	45	95	105		347
2021		56	8	70	48	85	79	1	347
2022		32	7	91	66	100	101		397
2023		16	9	54	41	48	56		224
TOTAL		139	48	446	289	472	492	1	1887

Grafton Fire (Village and Town)	PARAMEDIC	RESCUE	RESCUE 1	RESCUE 2	RESCUE 3	RESCUE 4	RESCUE 5	RESCUE 6	TOTAL
2018	1	43	15	169	109	223	199	1	760
2019		47	19	257	172	351	310		1156
2020	5	50	22	326	201	349	341	2	1296

2021	4	246	34	360	185	395	360		1584
2022	9	193	37	339	253	421	461	3	1716
2023	1	53	29	243	135	225	285		971
TOTAL	20	632	156	1694	1055	1964	1956	6	7483

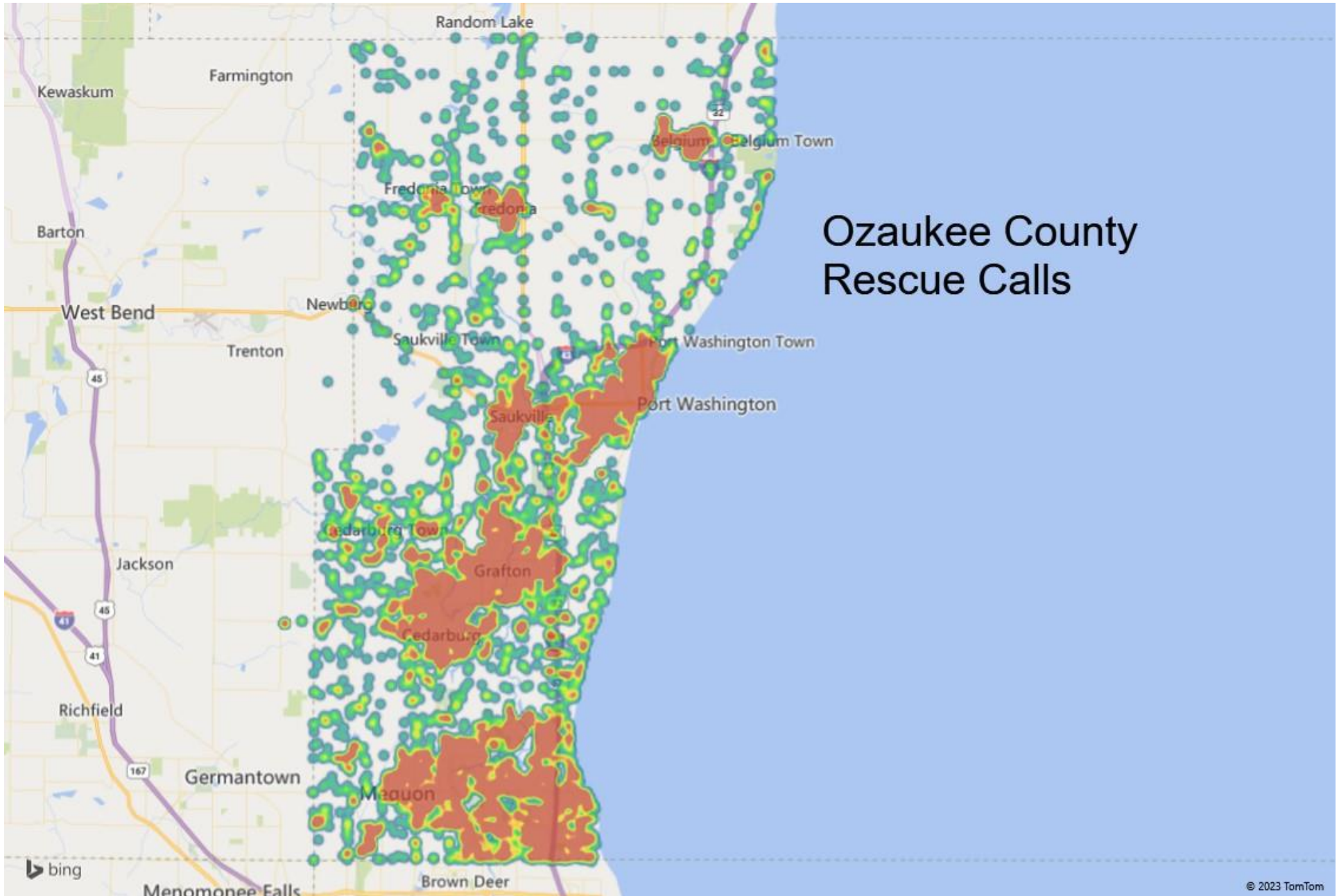
Port Washington Fire (City & Town)	PARAMEDIC	RESCUE	RESCUE 1	RESCUE 2	RESCUE 3	RESCUE 4	RESCUE 5	RESCUE 6	TOTAL
2018	143	78	25	321	201	291	275	1	1335
2019	173	55	36	315	212	312	319		1422
2020	203	67	37	303	193	254	268	2	1327
2021	215	196	34	235	191	266	222	3	1362
2022	136	83	45	351	228	358	346	3	1550
2023	100	47	23	185	123	177	200		855
TOTAL	970	526	200	1710	1148	1658	1630	9	7851

Saukville Fire (Village)	PARAMEDIC	RESCUE	RESCUE 1	RESCUE 2	RESCUE 3	RESCUE 4	RESCUE 5	RESCUE 6	TOTAL
2018		21	10	64	64	71	67		297
2019		16	15	84	57	80	75		327
2020		17	15	88	54	83	69	1	327
2021		76	8	65	40	74	83		346
2022	21	99	14	98	61	111	87		491
2023	6	24	15	54	50	60	67		276
TOTAL	27	253	77	453	326	479	448	1	2064

Mequon Fire Station	PARAMEDIC	RESCUE	RESCUE 1	RESCUE 2	RESCUE 3	RESCUE 4	RESCUE 5	RESCUE 6	TOTAL
2018	3	236	27	283	149	220	308		1226
2019	1	276	31	289	218	307	405	4	1531
2020	1	337	23	294	203	252	375	2	1487
2021	13	659	21	238	201	228	375	1	1736
2022	100	402	38	399	283	424	555		2201
2023	6	1	1	11	2	5	10		36
TOTAL	124	1911	141	1514	1056	1436	2028	7	8217

Thiensville Fire Department	PARAMEDIC	RESCUE	RESCUE 1	RESCUE 2	RESCUE 3	RESCUE 4	RESCUE 5	RESCUE 6	TOTAL
2018	278	32	13	57	54	94	162		690
2019	370	31	8	57	48	76	144		734
2020	401	24	13	73	62	81	139	1	794
2021	349	66	4	68	47	84	125	1	744
2022	288	33	9	70	47	76	121		644
2023	1								1
TOTAL	1687	186	47	325	258	411	691	2	3607

Southern Ozaukee Fire Department	PARAMEDIC	RESCUE	RESCUE 1	RESCUE 2	RESCUE 3	RESCUE 4	RESCUE 5	RESCUE 6	TOTAL
2023	200	3	71	39	303	211	334	420	1581
TOTAL (Mequon - Thiensville)	1811	2097	188	1839	1314	1847	2719	9	11824

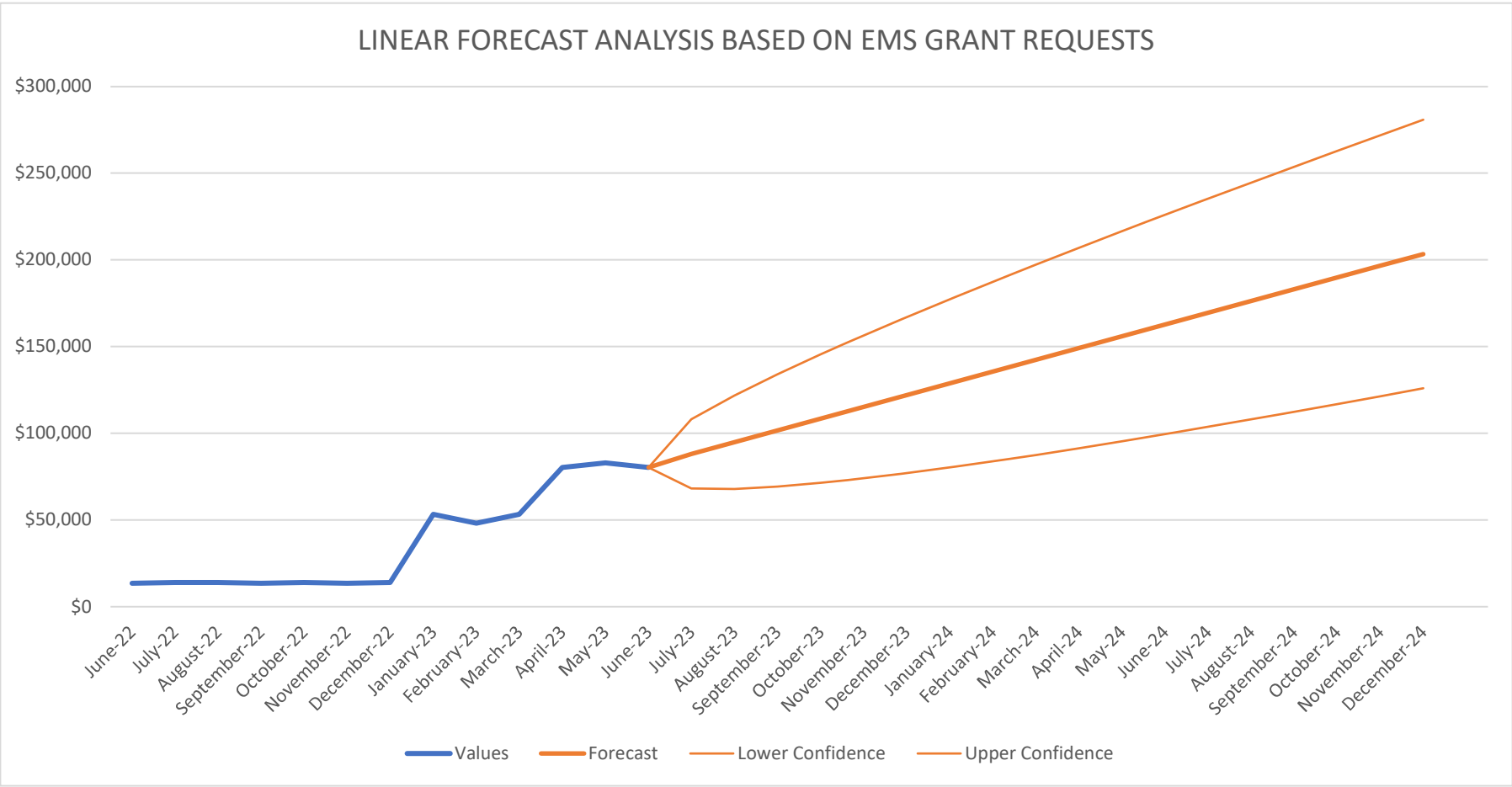


LINEAR STATISTICAL ANALYSIS OF EMS EXPENDITURES AT 95% CONFIDENCE

9.e

Timeline	Values	Forecast	Lower Confidence	Upper Confidence
June-22	\$13,564			
July-22	\$14,016			
August-22	\$14,016			
September-22	\$13,564			
October-22	\$14,016			
November-22	\$13,564			
December-22	\$14,016			
January-23	\$53,204			
February-23	\$48,055			
March-23	\$53,204			
April-23	\$80,307			
May-23	\$82,984			
June-23	\$80,307	\$80,307	\$80,307	\$80,307
July-23		\$88,057	\$68,099	\$108,015
August-23		\$94,839	\$67,975	\$121,703
September-23		\$101,621	\$69,283	\$133,959
October-23		\$108,403	\$71,382	\$145,424
November-23		\$115,185	\$74,002	\$156,369
December-23		\$121,968	\$76,998	\$166,937
January-24		\$128,750	\$80,281	\$177,219
February-24		\$135,532	\$83,793	\$187,271
March-24		\$142,314	\$87,493	\$197,135
April-24		\$149,096	\$91,351	\$206,841
May-24		\$155,878	\$95,345	\$216,412
June-24		\$162,660	\$99,455	\$225,865
July-24		\$169,442	\$103,669	\$235,216
August-24		\$176,225	\$107,974	\$244,476
September-24		\$183,007	\$112,360	\$253,653
October-24		\$189,789	\$116,820	\$262,758
November-24		\$196,571	\$121,347	\$271,795
December-24		\$203,353	\$125,935	\$280,771
TOTAL	\$494,814	\$3,117,503	\$2,148,375	\$4,086,632

Attachment: LINEAR STATISTICAL ANALYSIS (RES.23-18 : Final Allocations Under the Ozaukee County



PROPOSED AMENDMENT TO RESOLUTION NO. 23-18
Supervisors Godden, Haas, McGuire, Rishel and Wolf

FINAL ALLOCATIONS UNDER THE OZAUKEE COUNTY EMERGENCY MEDICAL
GRANTS PROGRAM AS AMENDED BY THE EXECUTIVE COMMITTEE

WHEREAS, The Ozaukee County Board of Supervisors approved Resolution 21-72 establishing the Ozaukee County Emergency Medical Services Grants Program from American Rescue Plan Act Funds; and

WHEREAS, The Ozaukee County Board of Supervisors approved Resolution 22-10 approving the following amounts for the first twelve months of the Emergency Medical Services Grants Program based on the estimates of the amount of funding that each municipality can sustain upon the completion of the three-year grant term.

219-2-01-58023-000 EMS Grant Village Fredonia (Belgium): \$225,000

219-2-01-58024-000 EMS Grant Village Grafton (Saukville): \$300,000

219-2-01-58030-000 EMS Grant City Cedarburg: \$200,000

219-2-01-58038-000 EMS Grant City Mequon (Thiensville): \$300,000

219-2-01-58039-000 EMS Grant City Port Washington: \$200,000

WHEREAS, The Ozaukee County Board of Supervisors approved Resolution 22-47 approving \$100,000 for the Village of Fredonia for equipment for Paramedic Response; and

NOW, THEREFORE, BE IT RESOLVED, by the Ozaukee County Board of Supervisors that the following amounts to support the Ozaukee County Emergency Medical Services Grants Program be approved and adopted, in addition to the amounts approved in Resolution 22-10 and Resolution 22-47, for completion and closeout of the Grant Program from American Rescue Plan Act funds in the line-item accounts detailed below:

219-2-01-58023-000 EMS Grant Village Fredonia (Belgium): ~~\$100,000~~ 323,000 (3 FTEs)

219-2-01-58024-000 EMS Grant Village Grafton (Saukville): ~~\$540,000~~ 564,000 (4 FTEs)

219-2-01-58030-000 EMS Grant City Cedarburg: ~~\$200,000~~ 232,000 (2 FTEs)

219-2-01-58038-000 EMS Grant City Mequon (Thiensville): ~~\$620,000~~ 348,000 (3 FTEs)

219-2-01-58039-000 EMS Grant City Port Washington: ~~\$200,000~~ 232,000 (2 FTEs)

FURTHER RESOLVED, that the Ozaukee County Emergency Medical Services Grants Program funds shall be paid to the municipalities in ~~full~~ two equal installments: the first on or about October 1, 2023 and the second on or about April 1, 2024 following the approval of the Ozaukee County Board of Supervisors; and

FURTHER RESOLVED, that the second installment payment be reduced on a prorated

basis if the number of FTEs employed under the Grant Program by each grantee by the time of the second payment is less than the number of FTEs designated above; and

FURTHER RESOLVED, that the Ozaukee County Emergency Medical Services Grants Program funds are restricted to use on the municipal Emergency Medical Services personnel currently budgeted by the municipality and those hired with Program funds, ~~supplies or equipment~~ through ~~December 31, 2024~~ June 30, 2025; and

-FURTHER RESOLVED, that the Village of Fredonia is allowed to spend \$100,000 of their Grant Program funds for equipment for Paramedic Response as approved by Resolution 22-47.

FURTHER RESOLVED, that the quarterly reporting requirements between the county and participating municipalities included in the subrecipient agreements be waived and that a final reporting of the municipal expenditures by each municipality participating in the Ozaukee County Emergency Medical Services Grants Program is due as of ~~March 31~~ July 15, 2025; and

FURTHER RESOLVED, that following the final Ozaukee County Emergency Medical Services Grants Program reporting period of ~~March 31~~ July 15, 2025 the Ozaukee County Finance Department shall perform a final audit of each municipal participant and that any unallowable costs be reimbursed within ~~six~~ three months.

Dated at Port Washington, Wisconsin, this 6th day of September 2023.

SUMMARY: Ozaukee County Emergency Medical Services Grants Program Budgets

VOTE REQUIRED: Two-Thirds of Members Elect

~~EXECUTIVE COMMITTEE~~

~~RESULT: ——— APPROVED [UNANIMOUS]~~

~~MOVER: ——— D. Irish, Supervisor District 17~~

~~SECONDER: — R. Nelson, Supervisor District 6~~

~~AYES: ——— Schlenvogt, Melotik, Wolf, Nelson, Holyoke, Irish~~

PROPOSED AMENDMENT TO EXECUTIVE COMMITTEE RECOMMENDATION

Years 2.4

Municipality	FTE Add	Rate	Total	Recommend	VAR	Act 12	Muni ARPA
Fredonia	3	\$90,000	\$648,000	\$425,000	\$223,000	\$68,279	\$235,818
Port Washington	2	\$90,000	\$432,000	\$400,000	\$32,000	\$315,975	\$1,246,707
Saukville	1	\$90,000	\$216,000	\$400,000	-\$184,000	\$101,215	\$463,996
Grafton	3	\$90,000	\$648,000	\$440,000	\$208,000	\$302,904	\$1,226,912
Cedarburg	2	\$90,000	\$432,000	\$400,000	\$32,000	\$306,904	\$1,214,192
SOFD	3	\$90,000	\$648,000	\$920,000	-\$272,000	\$673,531	\$2,879,118
TOTAL	14		\$3,024,000	\$2,985,000			

RESOLUTION NO. 23-19

INCREASE OF REVENUE 2023 - PLANNING & PARKS

RESOLVED, by the Ozaukee County Board of Supervisors, that budgets be increased in the accounts as follows:

Department / Program

	<u>Account Number</u>	<u>Account Name</u>	<u>AMOUNT</u>	<u>AMOUNT</u>
Planning & Parks				
Expense	222-1-01-51101-000	Regular Salaries and Wages	\$64,500	
Expense	222-1-01-52002-000	Travel/Mileage	500	
Expense	222-1-01-53601-000	Other Material Supplies	10,000	
Revenue	222-1-01-42310-000	State Aid - WDNR OGW - LS Habitat		\$75,000
Expense	222-1-01-54104-000	Engineering Services	\$2,500	
Expense	222-1-01-55103-000	Highway - Grounds Maintenance & Construction	2,500	
Revenue	222-1-01-49501-000	GLSF Donation - Sucker Creek Fish Passage		\$5,000

Dated at Port Washington, Wisconsin, this 6th day of September 2023.

SUMMARY: Wisconsin Department of Natural Resources (WDNR) Office of Great Waters (OGW) grant program - \$75,000; Great Lakes Sport Fisherman - Ozaukee Chapter (GLSF) cash donation - \$5,000

VOTE REQUIRED: Two-Thirds of Members Elect

08/24/23 Finance Committee APPROVED

RESULT: APPROVED [UNANIMOUS]
MOVER: D. Larson, Vice-Chairperson
SECONDER: E. Stelter, Supervisor District 18
AYES: Melotik, Larson, Winker, Stelter, Hagen

FINANCE COMMITTEE

Finance Committee
AGENDA INFORMATION SHEET

AGENDA DATE:	September 6, 2023
DEPARTMENT:	County Clerk
DIRECTOR:	Karen Niemuth
PREPARER:	Tyler Quaas

Agenda Summary Increase of Revenue 2023 - Planning & Parks

ATTACHMENTS:

- Planning & Parks (PDF)

Natural Resources Committee

AGENDA INFORMATION SHEET

AGENDA DATE: August 3, 2023
DEPARTMENT: Planning and Parks
DIRECTOR: Andrew Struck
PREPARER: Andrew Struck

Agenda Summary Increase of Revenue Budget Amendment for a Wisconsin Department of Natural Resources Office of Great Waters Grant for a Lake Sturgeon Habitat Assessment and Management Plan for the Milwaukee River

BACKGROUND INFORMATION: The Ozaukee County - Planning and Parks Department (Department) was awarded a grant from the Wisconsin Department of Natural Resources (WDNR) Office of Great Waters (OGW) grant program. Specifically, the Department will continue to coordinate and complete a lake sturgeon habitat assessment and management plan for the Milwaukee River. The Department has received and accepted previous WDNR and Fund For Lake Michigan (FFLM) grants to conduct a review on efforts, research and findings related to the status of lake sturgeon habitat in the Milwaukee River, conduct side scan sonar assessments for the Ozaukee County portion of the Milwaukee River from County Line Road to the Bridge Street Dam and instream habitat on Cedar Creek from its confluence with the Milwaukee River to the Nail Factory Dam, complete targeted field habitat assessments for verification at multiple locations, and provide recommendations for future assessments, analysis and potential restoration projects for a management plan. The WDNR OGW grant will support completion and refinement of these tasks and collection of additional physical habitat measurements (e.g., water velocities, substrate classifications, and topographic surveys) in areas that appear to have suitable water velocity and depths needed for sturgeon spawning per the initial mapping results. This project will occur in conjunction with ongoing WDNR and UW-Milwaukee School of Freshwater Sciences efforts to complete side scan sonar assessments and additional physical habitat measurements on the Milwaukee River in Milwaukee County and in the Lake Michigan Basin.

ANALYSIS: The WDNR OGW grant award is \$75,000. The Ozaukee County Natural Resources Committee unanimously approved the submittal and acceptance of the WDNR OGW grant application at its July 7, 2022 meeting (Ayes: Holyoke, Jobs, Ross, Matera, Schoessow). No formal match is required. There have been no changes to the project scope or budget since grant submittal.

FISCAL IMPACT:

Balance Current Year: NONE (Additional Program Revenue of \$20,000)

Next Year's Estimated Cost: NONE (Additional Program Revenue of \$55,000)

FUNDING SOURCE:

County Levy: Non-County Levy: X Indicate source: WDNR OGW grant.

Attachment: Planning & Parks (RES.23-19 : INC REV)

RECOMMENDED MOTION: Approve and recommend to the Ozaukee County Board of Supervisors the budget amendment for the Wisconsin Department of Natural Resources Office of Great Waters grant for a Lake Sturgeon Habitat Assessment and Management Plan for the Milwaukee River.

NATURAL RESOURCES COMMITTEE

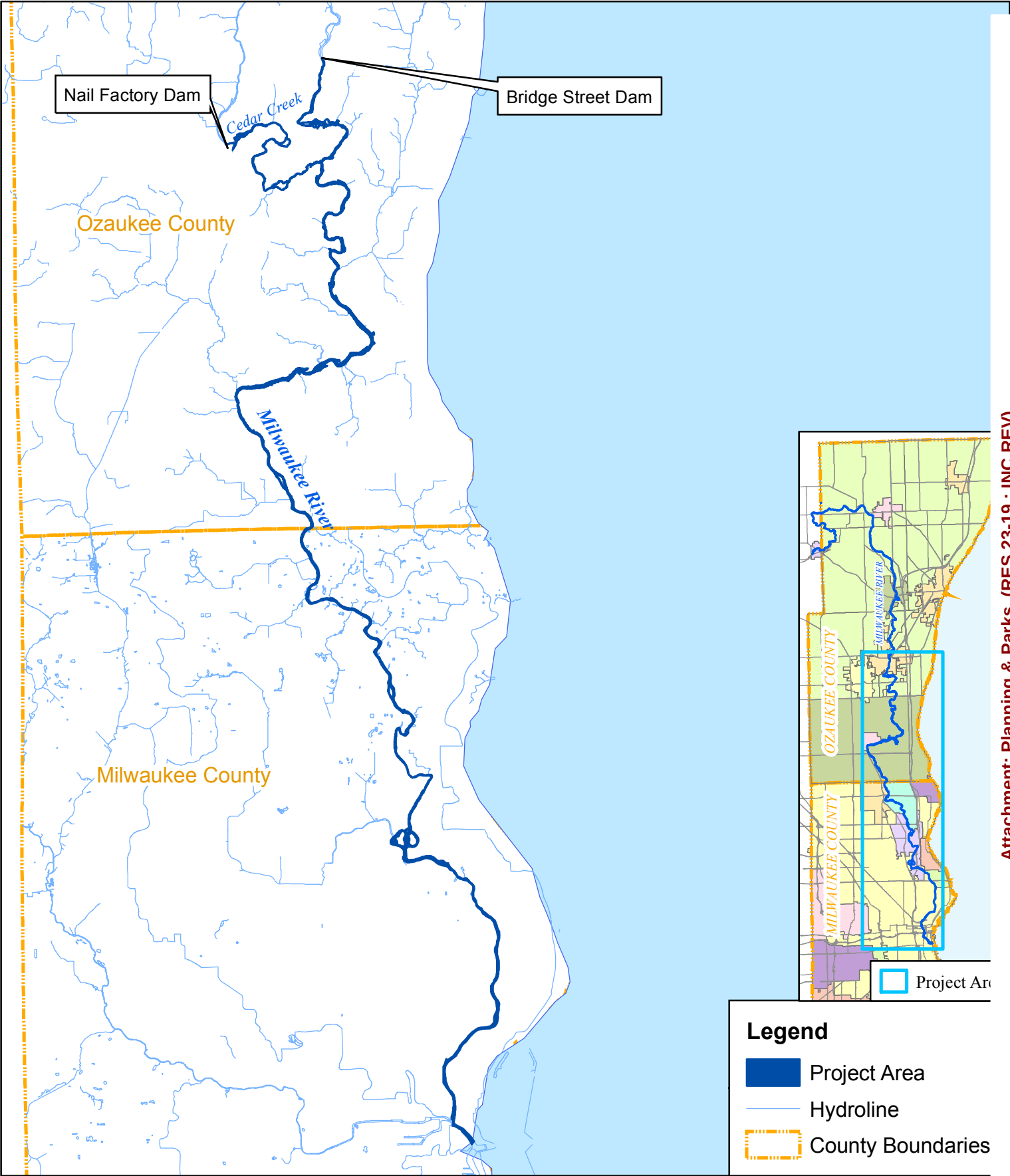
RESULT: **APPROVED AND FORWARDED [UNANIMOUS]Next: 8/24/2023 8:00 AM**

MOVER: B. Jobs, Vice-Chairperson

SECONDER: T. Matera, Supervisor District 7

AYES: R. Holyoke, B. Jobs, T. Matera, K. Schoessow

EXCUSED: B. Ross



Attachment: Planning & Parks (RES.23-19 : INC REV)



Map Produced By: Ozaukee Coun
Planning and Parks Department
5/29/2020

Natural Resources Committee

AGENDA INFORMATION SHEET

AGENDA DATE: August 3, 2023
DEPARTMENT: Planning and Parks
DIRECTOR: Andrew Struck
PREPARER: Andrew Struck

Agenda Summary Increase of Revenue Budget Amendment for a Great Lakes Sportfisherman Donation for Fish Passage and Habitat Restoration on Sucker Creek

BACKGROUND INFORMATION: The Ozaukee County - Planning and Parks Department (Department) has received a cash donation from the Great Lakes Sport Fisherman - Ozaukee Chapter (GLSF) to support fish passage and aquatic habitat restoration activities on Sucker Creek in the Town of Port Washington. The Department has provided multiple education and outreach presentations to GLSF on activities to improve fish passage and aquatic habitat restoration in Ozaukee County and tributaries to Lake Michigan and most recently in early 2023. This donation will support construction and restoration activities at a fish passage remediation project on Sucker Creek in the Town of Port Washington. Remediation activities will include in-stream grade controls and bank and in-stream structure restoration completed by the Department and Ozaukee County Highway Department.

ANALYSIS: The total GLSF donation amount is \$5,000, and secured Wisconsin Department of Natural Resources (WDNR) Office of Great Waters (OGW) grant will support remaining project activities for a total project cost of approximately \$33,000.

FISCAL IMPACT: Balance Current Year: NONE (Additional Revenue \$5,000)

Next Year's Estimated Cost: NONE

FUNDING SOURCE: County Levy: Non-County Levy: X

Indicate source: GLSF Donation and WDNR OGW grant.

RECOMMENDED MOTION: Approve and recommend to the Ozaukee County Board of Supervisors the budget amendment for the Great Lakes Sport Fisherman - Ozaukee Chapter donation for fish passage and habitat restoration activities on Sucker Creek.

NATURAL RESOURCES COMMITTEE

RESULT: **APPROVED AND FORWARDED [UNANIMOUS]Next: 8/24/2023 8:00 AM**

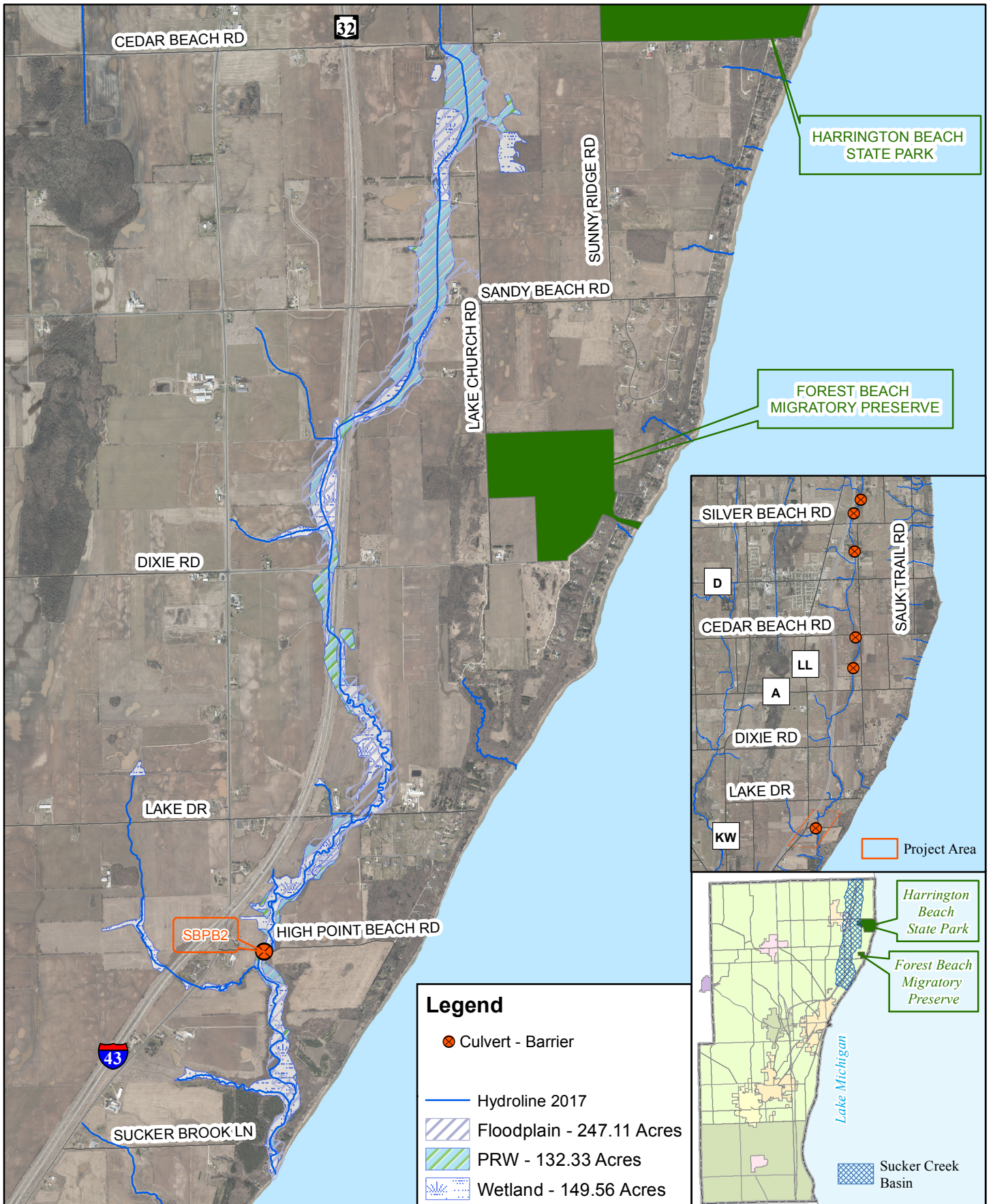
MOVER: T. Matera, Supervisor District 7

SECONDER: K. Schoessow, Supervisor District 23

AYES: R. Holyoke, B. Jobs, T. Matera, K. Schoessow

EXCUSED: B. Ross

Sucker Brook Creek - Stream Impediments



Attachment: Planning & Parks (RES.23-19 : INC REV)

RESOLUTION NO. 23-20

APPLICATION AND ACCEPTANCE OF A WISCONSIN DEPARTMENT OF NATURAL RESOURCES COUNTY CONSERVATION AIDS GRANT FOR PRAIRIE RESTORATION ACTIVITIES AT CLAY BLUFFS CEDAR GORGE NATURE PRESERVE COUNTY PARK

WHEREAS, the Ozaukee County Planning and Parks Department was invited to apply for Wisconsin Department of Natural Resources County Conservation Aids grant funding under a competitive request for proposals; and

WHEREAS, the Wisconsin Department of Natural Resources has grant funding available through the County Conservation Aids program specifically to assist with enhancing county/tribal fish and wildlife projects under s. 23.09(12), Wis. Stats; and

WHEREAS, Ozaukee County desires to participate in county fish and wildlife projects pursuant to provisions of s. 23.09(12) of the Wisconsin Statutes; and

WHEREAS, the primary project goal is to restore 10 acres of old-field/former agricultural land into a native warm-season prairie at Clay Bluffs Cedar Gorge Nature Preserve, an Ozaukee County Park, in the City of Port Washington; and

WHEREAS, The Department and the Ozaukee Washington Land Trust acquired the 134-acre Clay Bluffs Cedar Gorge Nature Preserve in fall 2022 with the support of Ozaukee County, multiple federal and state grants and contributions from local partners and private donors. The Nature Preserve, located on the Lake Michigan shoreline, is undeveloped and there is significant public interest in improving public access and habitat both throughout the new park and to Lake Michigan; and

WHEREAS, public access improvements and habitat restoration projects are part of the goals and requirements of several of the acquisition grants inclusive of the Park Master Plan and OWLT conservation easement; and

WHEREAS, this project is consistent with the adopted *Multi-Jurisdictional Comprehensive Plan for Ozaukee County: 2035*, the adopted *Park and Open Space Plan for Ozaukee County: 2035* and the adopted *Ozaukee County Land and Water Resource Management Plan*; and

WHEREAS, this project will assist with invasive species management and improve habitat for native and imperiled species of insects (pollinators), birds and other wildlife in the park by restoring a 10-acre native warm-season prairie; and

WHEREAS, the legislature of the State of Wisconsin enacted legislation providing for allocation to the respective counties in that state on an acreage basis for county fish and wildlife projects on the condition that the counties match the state allocation; and

WHEREAS, Ozaukee County has budgeted an amount equal to the local share of project costs and the required match funds would be provided by a secured Wisconsin Coastal Management Program grant and in-kind staff time, travel/mileage, and equipment and supplies; and

NOW, THEREFORE, BE IT RESOLVED, by the Ozaukee County Board of Supervisors that the Director of the Ozaukee County Planning and Parks Department is authorized on behalf

of Ozaukee County to sign and submit a Wisconsin Department of Natural Resources County Conservation Aids grant application, accept the grant funding award, take necessary actions to initiate, direct, and complete the approved project within the provided funding timeline, submit to WDNR reimbursement claims along with necessary supporting documentation within one (1) year of project end date, and will obtain approval in writing from the WDNR before any change is made in the use of the project site; and

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 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 6th day of September, 2023.

SUMMARY: Application and Acceptance by the Planning and Parks Department of a Wisconsin Department of Natural Resources County Conservation Aids grant for prairie restoration activities at Clay Bluffs Cedar Gorge Nature Preserve County Park.

VOTE REQUIRED: Majority

NATURAL RESOURCES COMMITTEE

08/03/23

Natural Resources Committee

APPROVED

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

NATURAL RESOURCES COMMITTEE

Natural Resources Committee
AGENDA INFORMATION SHEET

AGENDA DATE:	September 6, 2023
DEPARTMENT:	Planning and Parks
DIRECTOR:	Andrew Struck
PREPARER:	Andrew Struck

Agenda Summary Application And Acceptance Of A Wisconsin Department Of Natural Resources County Conservation Aids Grant For Prairie Restoration Activities At Clay Bluffs Cedar Gorge Nature Preserve County Park

BACKGROUND INFORMATION: The Ozaukee County - Planning and Parks Department (Department) proposes to submit a grant application to the Wisconsin Department of Natural Resources (WDNR) County Conservation Aids (CCA) grant program to support County-sponsored fish and wildlife habitat restoration projects. Specifically, this grant will support County activities to restore 10 acres of old-field/former agricultural land into a native warm-season prairie at Clay Bluffs Cedar Gorge Nature Preserve County Park (Nature Preserve), an Ozaukee County Park, in the City of Port Washington. The Department and the Ozaukee Washington Land Trust acquired the 134-acre Nature Preserve in fall 2022 with the support of Ozaukee County, multiple federal and state grants and contributions from local partners and private donors. The Nature Preserve, located on the Lake Michigan shoreline, is undeveloped and there is significant public interest in improving public access and restoring habitat both throughout the new park and to Lake Michigan. In addition, public access improvements and habitat restoration projects (e.g., wetland and prairie/grassland restoration and reforestation) are part of the goals and requirements of several of the acquisition grants inclusive of the Park Master Plan and OWLT conservation easement. The proposed effort will be the first phase of prairie restoration planned for the parcel as part of the Park Master Plan. The WDNR CCA grant will support Department activities to purchase seed and restore old field/former agricultural land to native prairie in order to provide habitat for grassland bird species and pollinators (e.g., bees and butterflies) within the Nature Preserve. Project activities will be completed by Department staff.

This project is 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) and 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>> “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 [County Strategic Plan 2020-2024](#)

<https://www.co.ozaukee.wi.us/DocumentCenter/View/14493/Ozaukee-County-Strategic-Plan-2020-24> <<https://www.co.ozaukee.wi.us/DocumentCenter/View/14493/Ozaukee-County-Strategic-Plan-2020-24>> (page 10) related to the enhance quality of life assets strategic goal and the final draft of the Clay Bluffs Cedar Gorge Nature Preserve County Park Master Plan..

ANALYSIS: Proposals to the WDNR CCA grant program are due October 1, 2023. The CCA grant program revenue comes from sale of hunting and fishing licenses and state sales tax on hunting and fishing equipment. Funding allocations for Wisconsin's southeast region typically totals approximately \$8,457, and the total grant award is dependent on the number of awarded grants. Total funding requested under this grant is \$3,500. A 50% match is required, which will be provided by a secured Wisconsin Coastal Management Program (WCMP) grant and pending US Fish and Wildlife Service (USFWS) Partners in Wildlife grant and the County through in-kind staff time, equipment and supplies and mileage for a total project cost of \$18,245.

FISCAL IMPACT:

Balance Current Year: NONE (Additional Program Revenue - \$3,500)

Next Year's Estimated Cost: NONE

FUNDING SOURCE:

Non-County Levy: X

Indicate source: WDNR CCA grant, WCMP grant (secured), USFWS Partners in Wildlife grant (pending) and in-kind staff time, travel/mileage, 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 - County Conservation Aids Program to support prairie restoration activities in Clay Bluffs Cedar Gorge Nature Preserve County Park in the City of Port Washington.

ATTACHMENTS:

- Grant Application
Summary_WDNRCCA_CBCGNP_PrairieRestoration_ATSFinal072623 (PDF)
- P&P_Dept_WDNRCCAProgramGuidance (PDF)
- ConceptualSitePlan_PrairieRestoration_PhaseI_7.24.23 (PDF)

GRANT APPLICATION SUMMARY

Project Name: Prairie Restoration at Clay Bluffs Cedar Gorge Nature Preserve
Grant Name/Agency: WDNR CCA **CFDA/State ID:**
Department: Planning and Parks
Total Project Amount: \$18,245 **Grant Match Required:** 50%

Exp Acct.
Rev Acct.

Preparer: Tina Kroening
Approver: Andrew Struck

Strategy: (Linkages to other planning efforts)

- Comprehensive Plan for Ozaukee County: 2035 (P. 318-326)
- POSP for Ozaukee County (P. 77-92, 111)
- Ozaukee County Strategic Plan 2020-2024 (P. 10)
- Park Master Plan for CBCGNP

Project Scope and Expectations

- Native Prairie Restoration
- Enhanced pollinator habitat and park aesthetics

Other Grants Supporting Project

- WCMP
- USFWS PFW

Status	Amount
Secured	\$5,000
Pending	\$4,000
	\$0
	\$0

Project Partners:

- WDNR

Project Landowner Upon Completion:

- Ozaukee County

GRANT EXPENSE	
Operational Expense	\$
Supplies	\$3,500
Capital Expense	\$
TOTAL	\$3,500
% PROJECT	19%

GRANT/PROJECT MATCH	
Operational Match	\$
Salaries/Fringe Benefits	\$2,000
Travel/Mileage	\$40
Equipment Use	\$3,705
Other Grants	\$
WCMP	\$5,000
USFWS PFW	\$4,000
TOTAL	\$14,745
% MATCH	81%

GRANT SUPPORTED STAFF	
Positon	\$
TOTAL	\$0

DEPARTMENT REVENUES	
Department	\$
Supplies	\$3,500
TOTAL	\$3,500

Project Risks:

- Weather/site conditions
- Timelines
- Pending grant funding
- Supply cost fluctuations and availability

Comments

- Serve as match to other grants
- Continuation of native vegetation restoration efforts

Major Milestones

Major Milestones		Date
Grant Award		Oct-23
Prairie Restoration		Jun-25
Final Reporting		Jun-26
Duration:	2.5 Years	Extension: NA

Program Guidance: County Conservation Aids Program

Overview

County Conservation Aids program is authorized under s. 23.09(12), Wis. Stats., and provides financial assistance to counties and tribal governing bodies to enhance county fish and wildlife programs. The Department of Natural Resources (DNR) administers this grant program with the assistance of s. NR 50.14, Wis. Adm. Code.

The program was established by the Wisconsin Legislature in 1965 as an alternative to bounty payments on coyote, foxes, and bobcats. Every year since the bounty program ended, the Legislature has appropriated funding for the program equal to the average annual bounty payment.

These funds are provided as a cost share grant program to counties and tribal governing bodies for fish and wildlife habitat projects. Funds appropriated in the current Biennial Budget, are offered on an annual basis in proportion to the ratio of the area of each county (less reservation lands) or area of reservation lands, to the total area of the state.

Eligible Applicants

Counties and tribal governing bodies ("county") are eligible to apply for County Conservation Aids for eligible projects.

Application Deadline

Applications must be received by the DNR grant program manager by 11:59 p.m. on October 1.*

*NOTE: Per s. 990.001(4)(c), Wis. Stats., if any application deadline falls on a Saturday, Sunday, or state holiday, the deadline is moved to the next state working day.

Funding Process

Counties have the option to: 1) accept their award; 2) accept their award and request additional funds; or 3) decline their award. To accept the award amount or accept and request additional funds, the county's authorized representative must sign, date, and return the application form 8700-045A (which is also considered the **grant agreement**), to the DNR grant program manager via email no later than October 1 (see Application and Request for Additional Funding Section on page 3). Failure to formally accept the award amount by the October 1 deadline is equivalent to the county declining their grant award.

By affixing a signature on the grant agreement, the county's authorized representative has entered into a binding legal agreement with the DNR. The DNR grant program manager will send a final award notification letter to the grantee.

Any grant amount not claimed by a county will become available for the DNR to award to other counties that have requested additional funding above what is their prescribed share under Wis. Stats.

Counties have two years from the date they receive their final award notification letter from the DNR grant program manager to complete their project and request reimbursement from the DNR. ***Project costs incurred by a county prior to this date are not eligible for reimbursement by the DNR.***

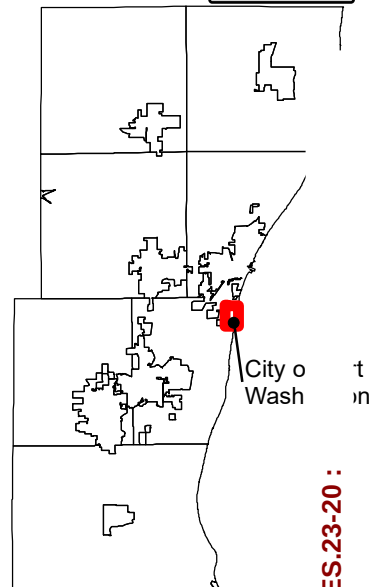
Clay Bluffs Cedar Gorge Nature Preserve (134 +/- Acres)

9.c

Phase I Prairie Restoration

Planned
Bike Parking

Maintenance Road/
Maintenance Parking



City of Washouet

Legend

- Nature Preserve
- Prairie Restoration - Phase I (16.1 +/- Acres)
- Planned Multi-Use Trail (Paved)
- Paved Trail (Universally Accessible)
- Gravel Trail (Universally Accessible)
- Woodchip/Grass Trail
- Boardwalks
- Deck Overlook
- ⊗ Future Observation Tower
- Parking (Paved)
- Pavilion/Bathroom
- Bridge
- Native Landscaping/Wooded
- Maintenance Road
- Not Encumbered by Fed. Grants
- Staircase to Lake Michigan
- Hydroline
- Wetland (WWI, 2019)
- Potentially Restorable Wetland
- Port Washington Clay Banks NA
- Cedar Gorge NA
- Existing Forest
- Existing Shrub-Carr/Forest

Restoration Areas

- Clay Seepage Bluff
- Prairie/Wet Prairie
- Woodland

Planned
Future Pavilion/
Bathroom

Lake Michigan

Potential Future
Trail Connection

0 250 500 1,000 Feet



Attachment: ConceptualSitePlan_PrairieRestoration_Phase_I_7.24.23 (RES.23-20 : 10)



RESOLUTION NO. 23-21

APPLICATION AND ACCEPTANCE OF A WISCONSIN DEPARTMENT OF NATURAL RESOURCES SURFACE WATER PLANNING GRANT TO SUPPORT WATER QUALITY MONITORING ACTIVITIES ON THE LITTLE MENOMONEE RIVER AND CREEK, MOLE CREEK AND ULAO 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 and Creek in the City of Mequon, Mole Creek in the Town of Saukville and Ulao Creek in the Town of Grafton and City of Mequon, 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, water temperature, water depth, dissolved oxygen and pH), 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 grants will provide for up to 67% of the total project cost up to \$10,000 and the remaining matching funds would be provided by in-kind staff time, travel and supplies.

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 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 6th day of September, 2023.

SUMMARY: Application 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 and Creek, Mole Creek and Ulao Creek in Ozaukee County.

VOTE REQUIRED: Majority

NATURAL RESOURCES COMMITTEE

08/03/23

Natural Resources Committee

APPROVED

RESULT:	APPROVED [UNANIMOUS]
MOVER:	B. Jobs, Vice-Chairperson
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:	September 6, 2023
DEPARTMENT:	Planning and Parks
DIRECTOR:	Andrew Struck
PREPARER:	Andrew Struck

Agenda Summary Application And Acceptance Of A Wisconsin Department Of Natural Resources Surface Water Planning Grant To Support Water Quality Monitoring Activities On The Little Menomonee River And Creek, Mole Creek And Ulao Creek In Ozaukee County

BACKGROUND INFORMATION: The Ozaukee County - Planning and Parks Department (Department) proposes to submit a grant 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 and Creek in the City of Mequon, Mole Creek in the Town of Saukville and Ulao Creek in the Town of Grafton and City of Mequon. 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 biologically functional floodplains, bank and in-stream structure restoration, wetland 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 staff will complete continuous water quality monitoring activities (conductivity, water temperature, water depth, dissolved oxygen, and pH), 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 2017-2022 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) 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) "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> (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>>. (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>> which includes improvements to water quality (Appendix J-6, section VI-14).

ANALYSIS: Proposals to the WDNR SWP grant program are due November 15, 2023. 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. The remaining project match will be provided by in-kind staff time, travel and supplies for a total project cost of \$21,811.

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

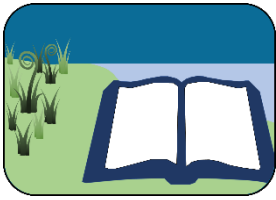
Indicate source: WDNR SWP and in-kind Department staff time, travel and supplies.

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 Little Menomonee River and Creek and Mole Creek and Ulao Creek in Ozaukee County in conjunction with large-scale habitat restoration projects.

ATTACHMENTS:

- Grant Application Summary_WDNRSWP_WQ Monitoring_LMR_Mole_Ulao_ATSFinal072623 (PDF)
- P&P_Dept_WDNR SurfaceWaterPlanning RFP (PDF)
- LittleMenomoneeRiverWaterSampling_public access_WDNRSWPFY24(PDF)

Surface Water Planning



Surface water planning grants can be used to assess surface water quality or to create a plan outlining 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.

Lakes exceeding 475 littoral acres are eligible for more than one Surface Water Planning grant if necessary to accomplish planning goals.

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.

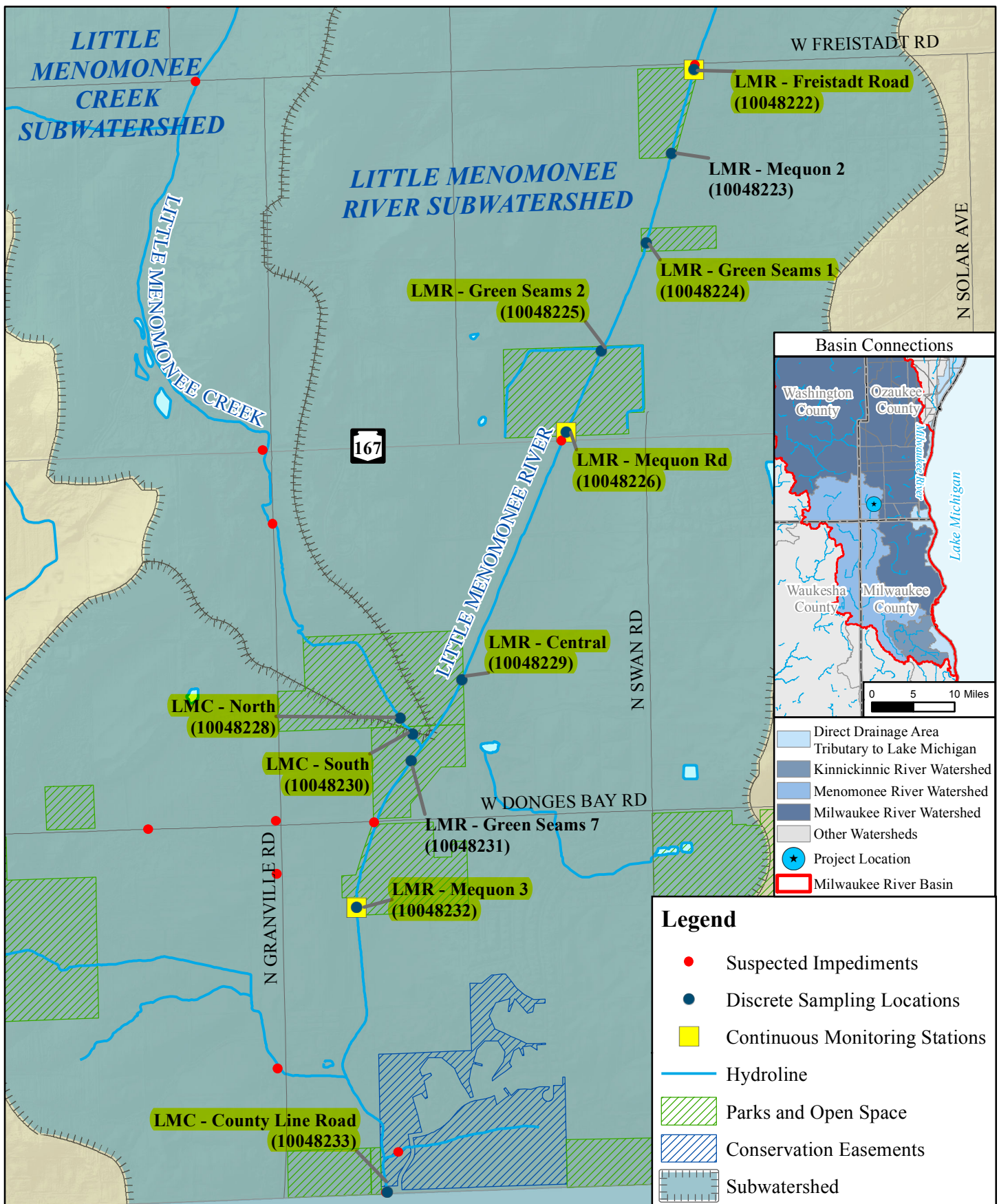
Management Plans & Plan Update projects will write a focused management plan to address a specific management challenge or will update any management plan when necessary. Example challenges appropriate for a focused plan include aquatic plant management projects that don't require a large-scale approach, 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 implementation of projects that will benefit surface water. Projects related to dredging feasibility must focus on evaluating alternatives, determining sources, and finding long-term solutions.

Little Menomonee River and Creek Water Quality Sampling Locations



Attachment: LittleMenomoneeRiverWaterSampling_public access_WDNRSWPFY24 (RES.23-21 :



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 FY24 Grant A

Packet Pg. 94

RESOLUTION NO. 23-22

APPLICATION AND ACCEPTANCE OF A WISCONSIN DEPARTMENT OF NATURAL RESOURCES REGULAR URBAN FORESTRY GRANT FOR FOREST MANAGEMENT PLANNING, NATIVE TREE PLANTING AND INVENTORY, EMERALD ASH BORER MANAGEMENT AND EDUCATION/OUTREACH ACTIVITIES IN COVERED BRIDGE COUNTY PARK, MEE-KWON COUNTY PARK, RIVER OAKS COUNTY PARK AND ULAO CREEK NATURE PRESERVE

WHEREAS, the Ozaukee County Planning and Parks Department is interested in obtaining a cost-share grant from the Wisconsin Department of Natural Resources for the purpose of funding urban and community forestry projects specified in s. 23.097(1g) and (1r), Wis. Stats.; and

WHEREAS, this project will improve the local ecology, aesthetics and native vegetation at Covered Bridge County Park in the Town of Cedarburg, Mee-Kwon County Park in the City of Mequon, River Oaks County Park in the Town of Grafton and Ulaos Creek Nature Preserve in the Village of Grafton, by removing ash trees impacted by Emerald Ash Borer, planting and inventorying native trees, and conducting education and outreach efforts to Ozaukee County residents to encourage native tree planting; and

WHEREAS, this funding will support contracts with conservation corps groups (e.g., AmeriCorps NCCC, Milwaukee Community Service Corps, Great Lakes Community Conservation Corps, Wisconsin Youth Conservation Corps) for assistance and will support education, training and outreach to adjacent neighbors, neighboring communities and conservation corps members; and

WHEREAS, this project will continue the Department's goal to maintain the high-quality County Parks System reflective of the local ecology by preserving, protecting and restoring the natural resources inclusive of the native plant communities, particularly through tree planting activities; and

WHEREAS, this effort will assist in taking the steps to manage several Ozaukee County Parks for Emerald Ash Borer (ash tree removal) and provide related ecological education to adjacent landowners through volunteer workdays; and

WHEREAS, continuation of the Department's management of forestry resources will benefit Ozaukee County residents, visitors and local ecosystems, as well as restore habitat for fish and wildlife, provide for stormwater management, and enhance natural resources and recreational opportunities for County residents and visitors; and

WHEREAS, the required matching funds (50% local match) would be provided by in-kind County staff time, equipment, supplies, contractual items as funded under other grant funds and volunteer time; and

WHEREAS, this grant is for the 2024 calendar year and is consistent with the adopted *Multi-jurisdictional Comprehensive Plan for Ozaukee County: 2035* and *Park and Open Space Plan for Ozaukee County*.

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 its behalf to sign and submit a Wisconsin Department of Natural Resources Regular Urban Forestry Grant application, sign a grant agreement between Ozaukee County and the Wisconsin Department of Natural Resources, submit interim and/or final reports to the Wisconsin Department of Natural Resources to satisfy the grant agreement, submit grant reimbursement requests to the Wisconsin Department of Natural Resources, 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 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 6th day of September 2023.

SUMMARY: Application and Acceptance of a Wisconsin Department of Natural Resources Regular Urban Forestry Grant for Forest Management Planning, Native Tree Planting and Inventory, Emerald Ash Borer Management and Education/Outreach Activities in Covered Bridge County Park, Mee-Kwon County Park, River Oaks County Park and Ulao Creek Nature Preserve (County Park).

VOTE REQUIRED: Majority

NATURAL RESOURCES COMMITTEE

08/03/23

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:	September 6, 2023
DEPARTMENT:	Planning and Parks
DIRECTOR:	Andrew Struck
PREPARER:	Andrew Struck

Agenda Summary Application And Acceptance Of A Wisconsin Department Of Natural Resources Regular Urban Forestry Grant For Forest Management Planning, Native Tree Planting And Inventory, Emerald Ash Borer Management And Education/Outreach Activities In Covered Bridge County Park, Mee-Kwon County Park, River Oaks County Park And Ulao Creek Nature Preserve

BACKGROUND INFORMATION: The Ozaukee County - Planning and Parks Department (Department) proposes to submit a grant application to the Wisconsin Department of Natural Resources (WDNR) Regular Urban Forestry (UF) Grant program to support forestry and ecological projects in Covered Bridge County Park in the Town of Cedarburg, Mee-Kwon County Park in the City of Mequon, River Oaks County Park in the Town of Grafton and Ulao Creek Nature Preserve in the Village of Grafton. This grant will fund improvements to the local ecology, aesthetics and native vegetation in recently acquired and developing parcels in these County Parks by removing ash trees impacted by emerald ash borer (EAB), planting and inventorying native trees, and conducting education and outreach efforts to Ozaukee County residents to encourage native tree planting on private property. Specifically, this grant will provide funding for Department staff operations, contracting with conservation corps (e.g., AmeriCorps NCCC, Milwaukee Community Service Corps, Great Lakes Community Conservation Corps, Wisconsin Youth Conservation Corps) for assistance, purchase of native tree stock and education/outreach events and materials. Improving the native tree diversity and canopy will assist the Department in developing these County Parks to be reflective of the local ecology by preserving, protecting and restoring the natural resources inclusive of the native plant communities. Furthermore, this effort will assist in taking steps to manage these County Parks for EAB and hazard trees, provide education to the public, support volunteer activities, and improve Ozaukee County's tree species diversity and canopy coverage.

This project is 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) and 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>> “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) and the [County Strategic Plan 2020-2024](https://www.co.ozaukee.wi.us/DocumentCenter/View/14493/Ozaukee-County-Strategic-Plan-2020-24)
<<https://www.co.ozaukee.wi.us/DocumentCenter/View/14493/Ozaukee-County-Strategic-Plan-2020-24>> <<https://www.co.ozaukee.wi.us/DocumentCenter/View/14493/Ozaukee-County-Strategic-Plan-2020-24>> (page 10) related to the enhance quality of life assets strategic goal.

ANALYSIS: Proposals for the WDNR UF grant program are due October 2, 2023. The total grant request is \$25,000. A 50% local match is required, which would be provided by other private foundation support (pending), in-kind staff time, mileage, supplies, equipment, contractual and volunteer time for a total project cost of \$50,000. The grant is for the 2024 calendar year, starting on January 1, 2024.

FISCAL IMPACT: Balance Current Year: NONE

Next Year's Estimated Cost: NONE (\$25,000 Additional Revenue)

FUNDING SOURCE: County Levy: X Non-County Levy: X

Indicate source: WDNR UF grant, other private foundation support (pending), and in-kind staff time, supplies, equipment, contractual and volunteer time.

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 Regular Urban Forestry Grant program for tree planting and inventory activities, emerald ash borer management and education/outreach activities in Covered Bridge County Park, Mee-Kwon County Park, River Oaks County Park and Ulao Creek Nature Preserve.

ATTACHMENTS:

- Grant Application Summary_WDNRUF_NewParkParcelsForestry_ATSFinal072623 (PDF)
- P&P_Dept_WDNRUF_RFP (PDF)
- P&P_Dept_WDNRUF Project Locations_Map (PDF)

GRANT APPLICATION SUMMARY**Project Name:** Forest Management in the New Ozaukee County Park Parcels**Grant Name/Agency:** WDNR Urban Forestry**CFDA/State ID:****Department:** Planning and Parks**Total Project Amount:** \$50,193**Grant Match Required:****50%****Exp Acct.****Preparer:** Tina Kroening**Rev Acct.****Approver:** Andrew Struck**Strategy: (Linkages to other planning efforts)**

- Comprehensive Plan for Ozaukee County: 2035 (P. 318-326)
- POSP for Ozaukee County (P. 77-92, 111)
- Ozaukee County Strategic Plan 2020-2024 (P. 10)

Project Scope and Expectations

- EAB Mgmt/Ash Tree Removal, Native Tree Planting/Inventory and Education/Outreach

Other Grants Supporting Project**Status****Amount**

\$0

\$0

\$0

\$0

Project Partners:

- Americorps NCCC, GLCCC, MCSC, WisCorps

Project Landowner Upon Completion:

- Ozaukee County

Project Risks:

- Weather/site conditions
- Contractor availability
- Timelines
- Volunteer Availability
- Tree stock/supply availability

Comments

- Serve as match to other grants

GRANT EXPENSE

Operational Expense	\$
Salaries/Fringe Benefits	\$17,369
Travel/Mileage	\$131
Supplies	\$200
Training/Workshops	\$300
Capital Expense	\$
Contractual (Cons. Corps)	\$7,000
TOTAL	\$25,000
% PROJECT	50%

GRANT/PROJECT MATCH

Operational Match	\$
Salaries/Fringe Benefits	\$9,330
Supplies	\$300
Equipment	\$4,563
Contractual	\$11,000
Other Grants	\$
0	
TOTAL	\$25,193
% MATCH	50%

GRANT SUPPORTED STAFF

Position	\$
Conservation Biologist	
Senior Planner	
Program Asst II - Eco	
Department Interns	
TOTAL	\$0

DEPARTMENT REVENUES

Department	\$
Salaries/Fringe Benefits	\$17,369
Travel/Mileage	\$131
Supplies	\$200
Contractual (Corps, Etc)	\$7,000
Training/Workshops	\$300
TOTAL	\$25,000

Major Milestones

Major Milestones		Date
Tree Planting / Inventory		Nov-24
Education/Outreach/Staff Training		Nov-24
EAB Management/Ash Tree Removal		Dec-24
Final Reporting		Mar-25
Duration:	1 Year	Extension: NA



REGULAR URBAN FORESTRY GRANTS

Regular urban forestry grants support projects that improve a community's capacity to manage its trees. Cities, villages, towns, counties, tribes and 501(c)(3) nonprofit organizations in or conducting their project in Wisconsin may apply for a regular urban forestry grant.

ABOUT

Grants range from \$1,000 to \$25,000 and require a 50–50 match (total project cost range is \$2,000 to \$50,000).

The project sponsor must initially fund 100% of project costs with cash, in-kind contributions and/or donations. Upon completion, the project sponsor requests reimbursement for 50% of eligible costs (501(c)(3) nonprofit organizations may request an advance when a grant is awarded).

Projects begin Jan. 1 and must be completed within one calendar year.

ELIGIBLE PROJECTS AND COSTS

Projects must relate to community tree management, maintenance or education within Wisconsin cities, villages or other areas of concentrated development.

Eligible project components include, but are not limited to:

- tree inventory or canopy assessment;
- urban forestry strategic or management plan;
- urban forest pest response, storm response or risk reduction plan;
- tree ordinance development/revision;
- public outreach;
- staff or volunteer training;
- tree board or volunteer group development; and
- tree planting, maintenance and removal.

Ineligible projects include, but are not limited to:

- construction projects (such as trails, fences, shelters, buildings and site grading) not directly related to planting;
- land clearing or stump removal projects not directly related to tree planting or removal; and
- land or boundary surveys or title search, appraisal, sale or exchange of real property.

Forest Management in the Ozaukee County Park System

Attachment: P&P_Dept_WDNRUF Project Locations_Map (RES.23-22 : P&PDept_SubmitAccept_WDNR_UFGrant_OzaukeeCountyNewParks)



ORDINANCE NO. 23-3

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 7.1300 of the Ozaukee County Code of Ordinances to indicate a Zoning Classification Change from Floodplain to Non-floodplain.

Affecting the following described real estates: **Town of Belgium**, T12N-R23E in the SE ¼ of the NW ¼, Section 18 T12N-R23E.

Tax Key #02-018-08-002.00, Property address: 6300 Sauk Trail Road, Belgium WI 53004

This Ordinance shall take effect upon enactment and publication.

Dated at Port Washington, Wisconsin, this 6th day of September 2023.

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

VOTE REQUIRED: Majority

08/03/23

Natural Resources Committee

APPROVED

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

NATURAL RESOURCES COMMITTEE

Natural Resources Committee
AGENDA INFORMATION SHEET

AGENDA DATE:	September 6, 2023
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 Manzek of Manzeck Construction Inc., Agent, for Chris and Carol Brown, as owners, to petition the Natural Resources Committee for a Zoning Classification change Floodplain to Non-floodplain in the Shoreland District, per Section 7.1300 of the Ozaukee County Shoreland & Floodplain Zoning Ordinance, to reflect the results of a fill project for the construction of a new residence.

Affecting the following described real estates: **Town of Belgium**, T12N-R23E in the SE ¼ of the NW ¼, Section 18 T12N-R23E.

Tax Key #02-018-08-002.00, Property address: 6300 Sauk Trail Road, Belgium WI 53004

ANALYSIS: Per Section 7.1300 of the County Shoreland and Floodplain Zoning Ordinance, any change to a floodplain 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 from floodplain to non-floodplain as a result of the reports completed by Giles Engineering INC. received on July 5, 2023 and D&H Land Surveys LLC received on July 6, 2023.

ATTACHMENTS:

- Rezoning Application (PDF)
- Property Location (PDF)
- Aerial Map - Current Shoreland - Floodplain Zoning (PDF)
- Plat of Survey (PDF)
- Engineer Compaction Report - Lift 1 (PDF)
- Engineer Compaction Report - Lift 2 (PDF)
- Engineer Compaction Report - Lift 3 (PDF)

RECEIVED

Katie Vogeler, 10.a



LAND AND WATER MANAGEMENT DEPARTMENT

JUL 05 2023

OZAUKEE COUNTY
LAND & WATER
MANAGEMENT DEPT

Edward J. Pfister, Sanitation & Zoning Coordinator

Geoff Schramm, Land & Water Coordinator

www.co.ozaukee.wi.us

PETITION TO CHANGE ZONING CLASSIFICATION

TO THE OZAUKEE COUNTY NATURAL RESOURCES COMMITTEE:

Ladies & Gentleman:

The undersigned hereby petitions the Ozaukee County Natural Resource Committee to change the zoning classification of the following land in Ozaukee County, Wisconsin from:

Shoreland-Floodplain
(Existing Zoning District)

to Shoreland
(Proposed Zoning District)

Owner: Chris and Carol Brown
Telephone Number: Chris (630) 946-3508 Carol (312) 515-0313
E-Mail Address: Carolbrown11511@gmail.com
Mailing Address: 75 Spring Ave.
City, State, Zip: Naperville, IL 60540
Project Address (if different than mailing address): 6300 Sauk Trail Rd. Belgium, WI 53004

Agent: Matt Manzeck Const., Inc.
Telephone Number: (262) 483-5077 Matt Manzeck
E-Mail Address: info@manzeckconstruction.com
Mailing Address: 270 Elevator Ln. Belgium, WI 53004
City, State, Zip:

Tax Key Number: 02-018-08-002.00

Legal Description (1/4, Section, Township-Range, Municipality): SE/NW 1/4 Sec. 18 T.12N., R23 E. Town of Belgium

Lot Number: Block Number: Subdivision Name or CSM #

Additional Information: RE-ZONING Building Lot out of Flood Plain elevation 588.2' - Top of Fill at or above 590.

NOTICE TO PETITIONERS:

The procedure to rezone / amend the Ozaukee County Shoreland and Floodplain Zoning Ordinance must comply with the statute and administrative rule provisions described in Sections 7.1300-7.1305. The criteria that the board must consider to reach a decision on the petition are stated in the ordinance [Sections 7.1300 (comprehensive), 7.1302 (floodplain), and 7.1305 (shoreland-wetland)].

This petition (original only) and any support documents must be filed with the Ozaukee County Land & Water Management Department one month in advance of the applicable Natural Resources Committee meeting date. Required support documents include:

- (1) A survey clearly showing the boundaries (wetland / floodplain) of any area to be rezoned, and
- (2) A written statement that addresses the criteria in ordinance Sections 7.1300-7.1305 as they relate to the proposed rezoning, if applicable (see descriptions on back page). Application materials shall be limited to 8.50 x 11.50, 8.50 x 14.00, or 11.00 x 17.00 sheets. Petitions will be considered at the next available committee meeting.

(continue on page 2)

NOTICE TO PETITIONERS (continued)

Notice of a public hearing on the petition will be published as a Class II notice under CH. 985, Wisconsin Statutes. The applicant will be notified of the date, time, and location of the hearing. It is advisable for the applicant or an agent for the applicant to attend the hearing.

A rezoning application fee of \$330.00, payable to **Ozaukee County**, is due at the time the petition is filed.

Comprehensive Rezoning

Section 7.1300 - Applies to all areas within the shoreland zoning jurisdictional area except floodplain and wetland areas. Rezoning of floodplain or wetland areas are regulated under Sections 7.1302 & 7.1305 (see below).

Floodplain Rezoning

Section 7.1302 - Floodplain management regulations may only be removed by rezoning the area to remove it from the floodplain provided the property:

- (a) is filled to an elevation 2 feet above the regional flood elevation and is contiguous to lands outside the floodplain, or
- (b) was above the regional flood elevation at the time of the effective date of the floodplain zoning map (mapped floodplain error).

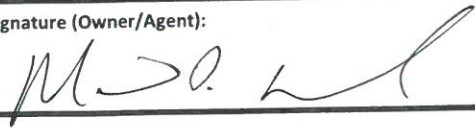
Shoreland-Wetland Rezoning

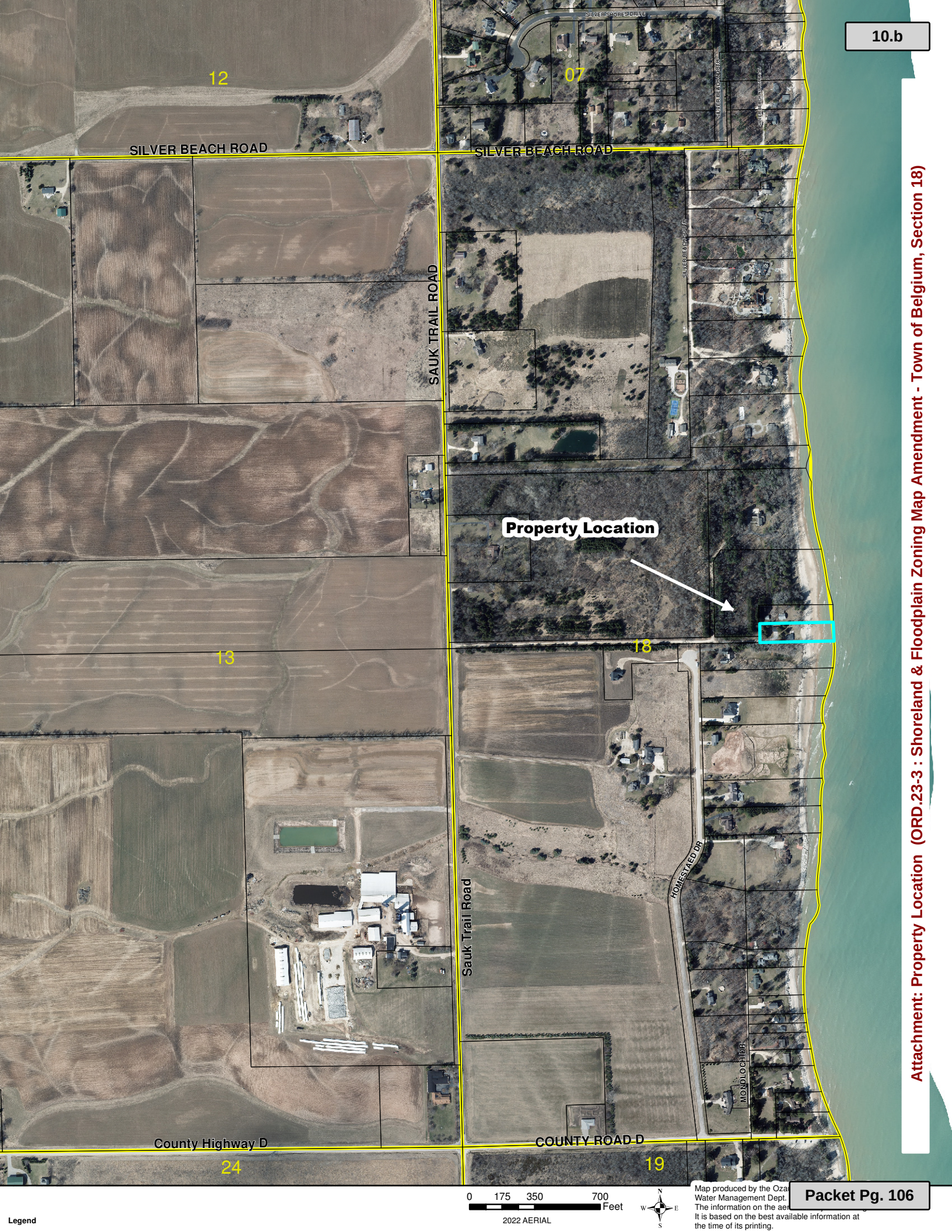
Section 7.1305 - A wetland, or portion thereof, in the shoreland-wetland district shall not be rezoned if the proposed rezoning may result in a significant adverse impact upon any of the following:

1. Storm and flood water storage capacity;
2. Preservation 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;
3. Filtering or storage of sediments, nutrients, heavy metals, or organic compounds that would otherwise drain into navigable waters;
4. Shoreline protection against soil erosion;
5. Fish spawning, breeding, nursery or feeding grounds;
6. Wildlife habitat;
7. Areas of special recreational, scenic, or scientific interest, including scarce wetland types.

Section 7.1305(C) - If the Wisconsin Department of Natural Resources notifies the natural resources committee or county board that a proposed text or map amendment to the shoreland-wetland provisions of this ordinance may have a significant adverse impact upon any of the criteria listed above, that amendment, if approved by the county board, shall contain the following provision:

"This amendment shall not take effect until more than 30 days have elapsed after written notice of the county board approval of this amendment is mailed to the DNR. During that 30-day period the department may notify the county board that it will adopt a superseding shoreland ordinance for the county under Section 59.692 (6), Wis. Stats. If the department does so notify the county board, the effect of this amendment shall be stayed until the Section 59.692 (6) adoption procedure is completed or otherwise terminated."

Signature (Owner/Agent): 		Date: 7/5/2023	Petition Fee: \$ 330.00
(For Department use only)		Petition Date: Check / Receipt Number: 1805 / 17375	
Date of NR Committee Approval:	Date of County Board Approval:		
Comments:			



Property Location

02-018-08-007.00

CSM #4208
Lot 2
Doc #1143799

3.837 Acs

6352

183.50

100.00

6312

02-018-08-001.00

0.910 ACS

100

6300

02-018-08-002.00

0.912 ACS

02-018-09-009.00

CSM #1827 LOT 9 DOC #0383426

1.970 ACS

481.41'

02-018-09-008.00

CSM #1827 LOT 8 DOC #0383426

1.940 ACS

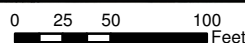
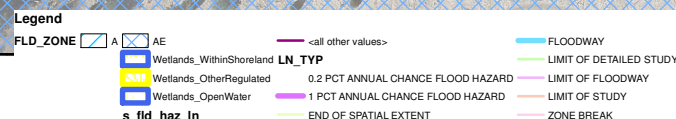
474.08'

02-018-09-007.00

CSM #1827 LOT 7 DOC #0383426

1.900 ACS

466.75'



2022 AERIAL



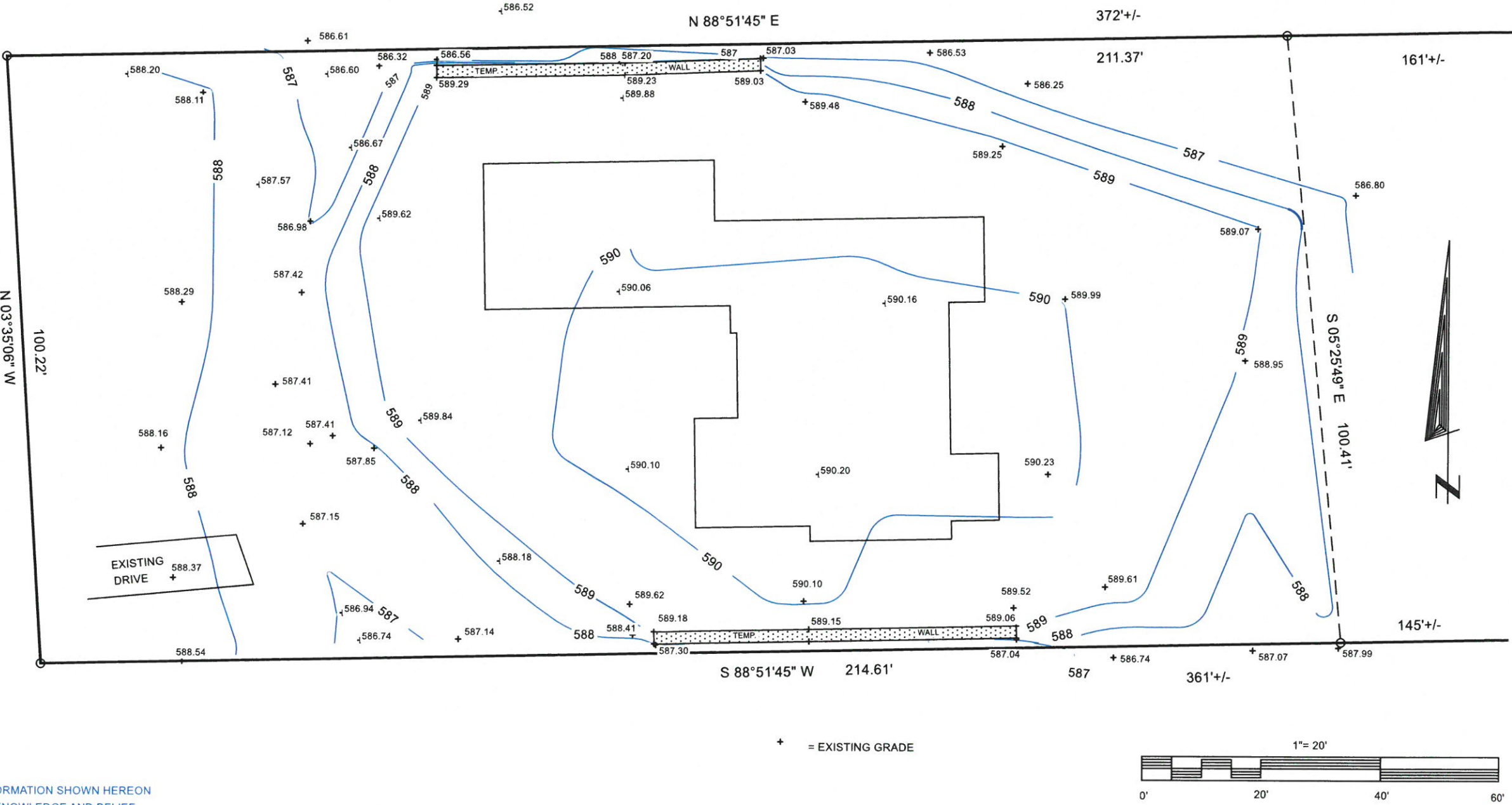
Map produced by the Oza Water Management Dept. The information on the aer It is based on the best available information at the time of its printing.

D & H LAND SURVEYS LLC
1628 GEORGIA AVENUE
SHEBOYGAN, WISCONSIN

6300 SAUK TRAIL ROAD
BEING TAX PARCEL NUMBER 02-018-08-002.00
LOCATED IN THE FRACTIONAL NORTHWEST QUARTER
OF SECTION 18, T.12 N., R.23 E., TOWN OF BELGIUM,
OZAUKEE COUNTY, WISCONSIN.

SHEET 3
EXISTING FILL 7/6/23

RECEIVED
JUL 06 2023
OZAUKEE COUNTY
LAND & WATER
MANAGEMENT DEPT



THIS IS TO CERTIFY THAT THE INFORMATION SHOWN HEREON
IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Dennis J. Van Sluys S-1238

Dated this 6th day of July, 2023.

DATA/BELGIUM/6300SAUK/6300SAU3.MAP D-3368

Attachment: Plat of Survey (ORD.23-3 : Shoreland & Floodplain Zoning Map Amendment - Town of Belgium, Section 18)



Project	Chris and Carol Brown Residence 6300 Sauk Trail Road Belgium, WI	JUL 05 2023 OZAUKEE COUNTY LAND & WATER MANAGEMENT DEPT	Client	Matt Manzeck Construction, Inc 270 Elevator Lane Belgium, WI 53004
Date	May 26, 2023		PM	Matt Manzeck info@manzeckconstruction.com
Weather	Sunny 65°F		Giles Project No.	1M-2305024
			Field Rep.	Ian Godin

FIELD DENSITY TESTING

As requested by our client, our representative reported to the above-referenced site to perform field density tests on previously placed materials on a spot-check basis.

Visual observations indicated fill consisting of dark brown silt with sand trace gravel (Soil ID No. 1) has been placed in the area of the proposed building (see attached sketch). Proctor values for the material tested this date were not available while we were on site. A sample was collected this date and returned to our laboratory.

Field density tests were performed by nuclear method at the subgrade surface -1 foot below the planned grade to assess the in-place density and moisture content of the material placed. Test results indicated compaction of at least 95 percent of the maximum dry density as determined by the standard proctor method with moisture contents ranging from 4.3 to 5.5 percent (Report of Field Compaction Tests is attached).

The field density test results indicated compaction of the fill tested this date was in general compliance with the project specifications.

The contractor was also reminded that the exposed soils are considered sensitive to water increase or construction disturbance. These soils may soften, rut, or become unstable if they become wet or disturbed by construction activity. Therefore, care should be utilized to prevent surface water from ponding. Soils that become soft or unstable require recompaction, stabilization, or replacement before further construction.

Locations and elevations of tests were assessed in accordance with the accuracy and proximity of provided survey control. Unless otherwise noted, the test locations and elevations were assessed by pacing and hand-level methods.

We make no warranty, express or implied, except that our services were performed in accordance with engineering principles generally accepted at this time and in this location.

REVIEWED BY: Angela Anderson



GEOTECHNICAL, ENVIRONMENTAL, AND
CONSTRUCTION MATERIALS CONSULTANTS

GILES ENGINEERING ASSOCIATES, INC.

**REPORT OF FIELD
COMPACTION TESTS**

10.e

N8 W22350 JOHNSON DRIVE, SUITE A1 / WAUKESHA,
(262) 544-0118 / FAX: (262) 549-5868 / www.gilesengr.com

Project	Chris and Carol Brown Residence 6300 Sauk Trail Road Belgium, WI	Client	Matt Manzeck Construction, Inc. 270 Elevator Lane Belgium, WI 53004
Date	May 26, 2023	Proj. No.	1M-2305024
Weather	Sunny 65°F	Field Rep.	Ian Godin

TEST DATA

TEST NO.	TEST ELEV. (ft)	IN PLACE DENSITY (pcf)	IN PLACE MOISTURE (%)	IN PLACE PERCENT COMPACTION	SOIL I.D. NO.	MAX LAB DENSITY (pcf)	OPTIMUM MOISTURE (%)	SPECIFIED PERCENT COMPACTION	A	B	C	REMARKS
1	-1	108.1	5.5	96	1	112.4	6.7	95	X			
2	-1	107.2	4.3	95	1	112.4	6.7	95	X			
3	-1	107.5	4.5	96	1	112.4	6.7	95	X			
4	-1	108.5	5.8	97	1	112.4	6.7	95	X			
5	-1	107.2	4.3	95	1	112.4	6.7	95	X			

ELEV/DEPTH REF.: 0 = Planned finish subgrade as indicated by contractor

A - test results comply with density specifications
B - test results DO NOT comply with density specifications
C - test result taken after recompaction

TEST NO.

LOCATION

1-5	see attached sketch
-----	---------------------

FIELD TEST METHOD: ☒ nuclear ☐ sand cone ☐ drive tube

PROCTOR METHOD: ☒ standard ☐ modified

An "rc" in the Soil ID No. column indicates that a rock correction (ASTM D 4718) was applied.

REVIEWED BY: Angela A. Anderson

Packet Pg. 111

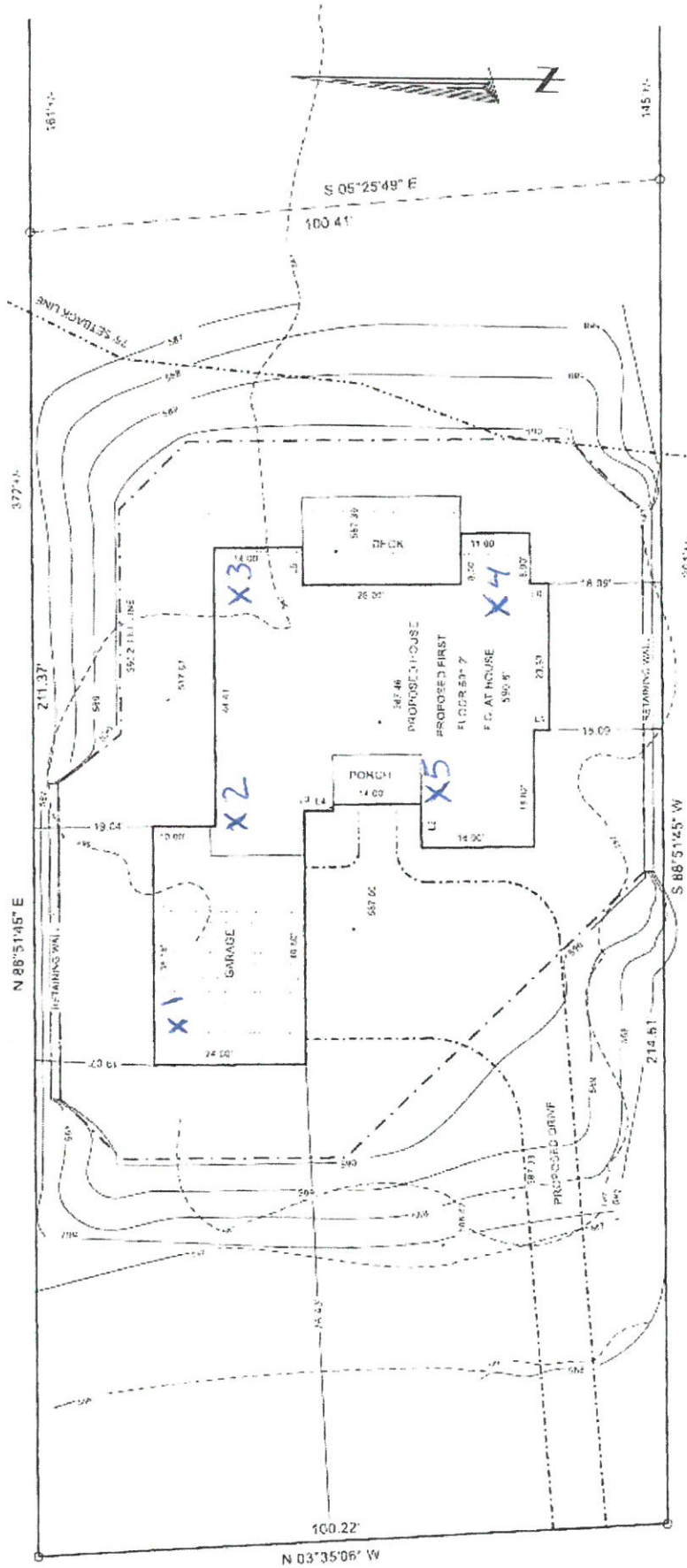
Attachment: Engineer Compaction Report - Lift 1 (ORD-23-3 : Shoreland & Floodplain Zoning Map Amendment - Town of Belgium, Section 18)

GEOTECHNICAL, ENVIRONMENTAL, AND
CONSTRUCTION MATERIALS CONSULTANTS
ENGINEERING ASSOCIATES, INC.



LOCATION SKETCH

DENSITY TESTING



Project Chris and Carol Brown Residence
6300 Sauk Trail Road
Belgium, WI

Client Matt Manzeck Construction, Inc.
270 Elevator Lane
Belgium, WI 53004

NOT TO SCALE
LOCATIONS APPROXIMATED

Giles Project No. 1M-2305024

Date *5/4/10*



GILES ENGINEERING ASSOCIATES, INC.

N8 W22350 Johnson Drive, Suite A1, Waukesha, WI 531
(262) 544-0118 / FAX (262) 549-5868 / www.gilesengr.cc

RECEIVED

Project	Chris and Carol Brown Residence 6300 Sauk Trail Road Belgium, WI	Client	Matt Manzeck Construction, Inc 270 Elevator Lane Belgium, WI 53004
Date	June 9, 2023	Giles Project No.	1M-2305024
Weather	Sunny, Breezy, 65°F	Field Rep.	Mary Nemeth

FIELD DENSITY TESTING

As requested by our client, our representative reported to the above-referenced site to perform field density tests on previously placed materials on a spot-check basis.

Visual observations indicated fill consisting of dark brown silt with sand trace gravel (Soil ID No. 1) has been placed in the area of the proposed residence (see attached sketch).

Field density tests were performed by nuclear method at the subgrade surface of approximate EL. 589 feet as provided by contractor's survey control to assess the in-place density and moisture content of the material placed. Test results indicated compaction of at least 95 percent of the maximum dry density as determined by the standard proctor method with moisture contents ranging from 9.3 to 12.6 percent (Report of Field Compaction Tests is attached).

The field density test results indicated compaction of the fill tested this date was in general compliance with the project specifications.

Locations and elevations of tests were assessed in accordance with the accuracy and proximity of provided survey control. Unless otherwise noted, the test locations and elevations were assessed by pacing and hand-level methods.

We make no warranty, express or implied, except that our services were performed in accordance with engineering principles generally accepted at this time and in this location.

REVIEWED BY: Angela Anderson



GEOTECHNICAL, ENVIRONMENTAL, AND
CONSTRUCTION MATERIALS CONSULTANTS

GILES ENGINEERING ASSOCIATES, INC.

**REPORT OF FIELD
COMPACTION TESTS**

10.f

N8 W22350 JOHNSON DRIVE, SUITE A1 / WAUKESHA, WI
(262) 544-0118 / FAX: (262) 549-5868 / www.gilesengr.com

Project	Chris and Carol Brown Residence 6300 Sauk Trail Road Belgium, WI	Client	Matt Manzeck Construction, Inc. 270 Elevator Lane Belgium, WI 53004
Date	June 09, 2023	Proj. No.	1M-2305024
Weather	Sunny, Breezy, 65°F	Field Rep.	Mary Nemeth

TEST DATA

TEST NO.	TEST ELEV. (ft)	IN PLACE DENSITY (pcf)	IN PLACE MOISTURE (%)	IN PLACE PERCENT COMPACTION	SOIL I.D. NO.	MAX LAB DENSITY (pcf)	OPTIMUM MOISTURE (%)	SPECIFIED PERCENT COMPACTION	A	B	C	REMARKS
1	589	111.6	9.9	97	1rc	115.4	6.7	95	X			
2	589	110.9	12.6	96	1rc	115.4	6.7	95	X			
3	589	109.5	11.5	95	1rc	115.4	6.7	95	X			
4	589	110.8	9.3	96	1rc	115.4	6.7	95	X			
5	589	110.2	10.2	95	1rc	115.4	6.7	95	X			

ELEV/DEPTH REF.: Contractor's survey control

A - test results comply with density specifications
B - test results DO NOT comply with density specifications
C - test result taken after recompaction

TEST NO.

LOCATION

1-5	See attached site sketch
-----	--------------------------

FIELD TEST METHOD: ☒ nuclear ☐ sand cone ☐ drive tube

An "rc" in the Soil ID No. column indicates that a rock correction (ASTM D 4718) was applied.

PROCTOR METHOD: ☒ standard ☐ modified

Nuclear Gauge ID: CPN 30549

(Standardization and calibration data on file.)

REVIEWED BY: Angela A. Anderson

Packet Pg. 114

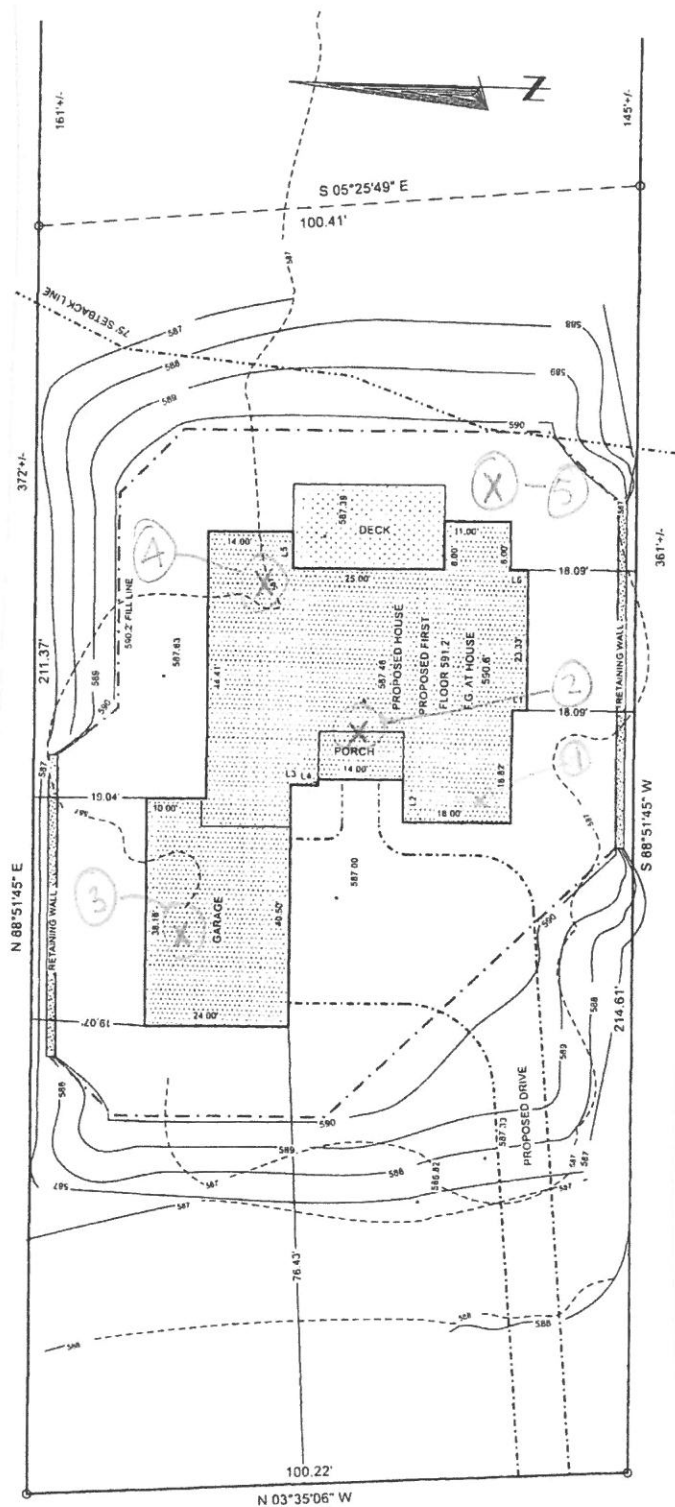
Attachment: Engineer Compaction Report - Lift 2 (ORD-23-3 : Shoreland & Floodplain Zoning Map Amendment - Town of Belgium, Section 18)



LOCATION SKETCH

DENSITY TESTING

NORTH
↑



Project Chris and Carol Brown Residence
6300 Sauk Trail Road
Belgium, WI

Client Matt Manzeck Construction, Inc.
270 Elevator Lane

NOT TO SCALE
LOCATIONS APPROXIMATED

Giles Project No. 1M-2305024

Attachment: Engineer Compaction Report - Lift 2 (ORD.23-3 : Shoreland & Floodplain Zoning Map Amendment - Town of Belgium, Section 18)



RECEIVED

Project	Chris and Carol Brown Residence 6300 Sauk Trail Road Belgium, WI	Client	Matt Manzeck Construction, Inc 270 Elevator Lane Belgium, WI 53004
Date	June 28, 2023	Giles Project No.	1M-2305024
Weather	Hazy, 70°F	Field Rep.	Ben Link

FIELD DENSITY TESTING

As requested by our client, our representative reported to the above-referenced site to perform field density tests on previously placed materials on a spot-check basis.

Visual observations indicated fill consisting of brown clay with little silt (Soil ID No. 1) has been placed in the area of the house and garage.

Field density tests were performed by nuclear method at the subgrade surface (approximate elevation 590.2) to assess the in-place density and moisture content of the material placed. Test results indicated compaction of at least 95 percent of the maximum dry density as determined by the standard proctor method with moisture contents ranging from 10.7 to 12.7 percent (Report of Field Compaction Tests is attached).

The field density test results indicated compaction of the fill tested this date was in general compliance with the project specifications.

The contractor was also reminded that the exposed soils are considered sensitive to water increase or construction disturbance. These soils may soften, rut, or become unstable if they become wet or disturbed by construction activity. Therefore, care should be utilized to prevent surface water from ponding. Soils that become soft or unstable require recompaction, stabilization, or replacement before further construction.

Locations and elevations of tests were assessed in accordance with the accuracy and proximity of provided survey control. Unless otherwise noted, the test locations and elevations were assessed by pacing and hand-level methods.

We make no warranty, express or implied, except that our services were performed in accordance with engineering principles generally accepted at this time and in this location.

REVIEWED BY: Geoff Barrientes



GEOTECHNICAL, ENVIRONMENTAL, AND
CONSTRUCTION MATERIALS CONSULTANTS

GILES ENGINEERING ASSOCIATES, INC.

**REPORT OF FIELD
COMPACTION TESTS**

10.g

N8 W22350 JOHNSON DRIVE, SUITE A1 / WAUKESHA,
(262) 544-0118 / FAX: (262) 549-5868 / www.gilesengr.com

Project	Chris and Carol Brown Residence 6300 Sauk Trail Road Belgium, WI	Client	Matt Manzeck Construction, Inc. 270 Elevator Lane Belgium, WI 53004
Date	June 28, 2023	Proj. No.	1M-2305024
Weather	Hazy, 70°F	Field Rep.	Ben Link

TEST DATA

TEST NO.	TEST ELEV. (ft)	IN PLACE DENSITY (pcf)	IN PLACE MOISTURE (%)	IN PLACE PERCENT COMPACTION	SOIL I.D. NO.	MAX LAB DENSITY (pcf)	OPTIMUM MOISTURE (%)	SPECIFIED PERCENT COMPACTION	A	B	C	REMARKS
1	590.2	109.8	12.7	98	1	112.4	6.7	95	X			
2	590.2	116.1	12.3	100	1	112.4	6.7	95	X			
3	590.2	117.2	12.2	100	1	112.4	6.7	95	X			
4	590.2	115.1	11.7	100	1	112.4	6.7	95	X			
5	590.2	116.2	10.7	100	1	112.4	6.7	95	X			
6	590.2	107.9	16.4	96	1	112.4	6.7	95	X			

ELEV/DEPTH REF.: Elevation per contractor

A - test results comply with density specifications
B - test results DO NOT comply with density specifications
C - test result taken after recompaction

TEST NO.	LOCATION
1-6	See Sketch

FIELD TEST METHOD: ☒ nuclear ☐ sand cone ☐ drive tube

PROCTOR METHOD: ☒ standard ☐ modified **Nuclear Gauge ID:** MD80404216 (Standardization and calibration data on file.)

An "rc" in the Soil ID No. column indicates that a rock correction (ASTM D 4718) was applied.

REVIEWED BY: Geoffrey L. Barrientes

Packet Pg. 117

Attachment: Engineer Compaction Report - Lift 3 (ORD-23-3 : Shoreland & Floodplain Zoning Map Amendment - Town of Belgium, Section 18)

GEOTECHNICAL, ENVIRONMENTAL, AND
CONSTRUCTION MATERIALS CONSULTANTS
ENGINEERING ASSOCIATES, INC.

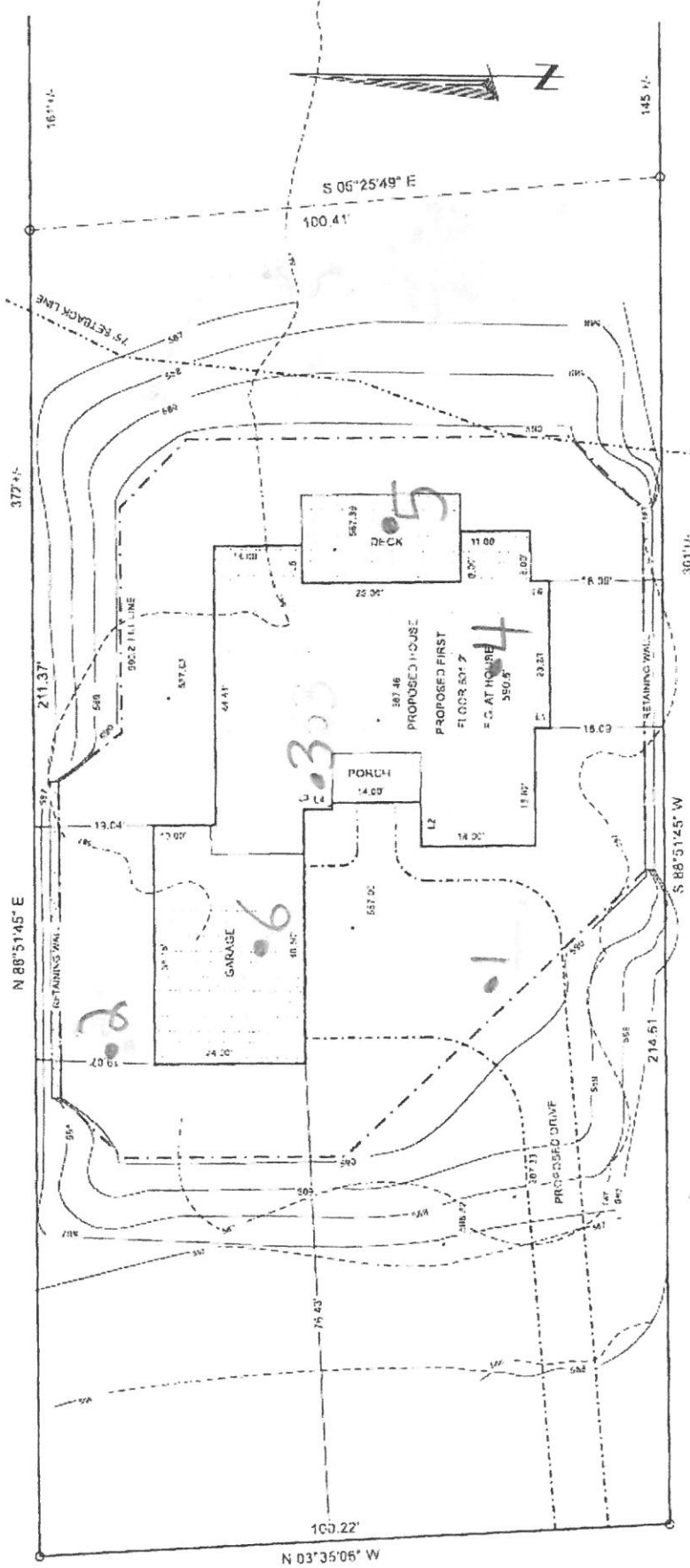


LOCATION SKETCH

Density Testing



NORTH



Density Test Location

Project Chris and Carol Brown Residence
6300 Sauk Trail Road
Belgium, WI

Client Matt Manzeck Construction, Inc.
270 Elevator Lane

NOT TO SCALE
LOCATIONS APPROXIMATED

Giles Project No. 1M-2305024

Belgium WI 53004

ORDINANCE NO. 23-4

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 7.1300 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 NW ¼ and the NE ¼ of the NW ¼, Section 21 T10N-R21E, Lot 1 CSM #3997 Doc. 1050182.

Tax Key #03-021-05-005.00, Property address: 8611 State Road 60, Cedarburg WI 53012

This Ordinance shall take effect upon enactment and publication.

Dated at Port Washington, Wisconsin, this 6th day of September 2023.

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

VOTE REQUIRED: Majority

08/03/23

Natural Resources Committee

APPROVED

RESULT: **APPROVED [UNANIMOUS]**

MOVER: T. Matera, Supervisor District 7

SECONDER: B. Jobs, Vice-Chairperson

AYES: R. Holyoke, B. Jobs, T. Matera, K. Schoessow

EXCUSED: B. Ross

NATURAL RESOURCES COMMITTEE

Natural Resources Committee
AGENDA INFORMATION SHEET

AGENDA DATE:	September 6, 2023
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 Eric Ryer, Town of Cedarburg Administrator as Agent for Town of Cedarburg, as owner, to petition the Natural Resources Committee for a Zoning Classification change Shoreland-Wetland to Shoreland in the Shoreland District, per Section 7.1300 of the Ozaukee County Shoreland & Floodplain Zoning Ordinance, to reflect the results of a wetland delineation report and survey.

Affecting the following described real estates: **Town of Cedarburg**, T10N-R21E in the NW ¼ and the NE ¼ of the NW ¼, Section 21 T10N-R21E, Lot 1 CSM #3997 Doc.1050182.

Tax Key #03-021-05-005.00, Property address: 8611 State Road 60, Cedarburg WI 53012

ANALYSIS: Per Section 7.1105 of the County Shoreland and Floodplain Zoning Ordinance, any change in wetland delineations shown on a Shoreland and Floodplain Zoning District 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 wetland delineation as a result of the reports by Wetland & Waterway Consulting LLC, on May 17, 2023.

ATTACHMENTS:

- Rezoning Application (PDF)
- Property Location Map (PDF)
- Plat of Survey (PDF)
- Aerial Map - Current Shoreland Zoning, Floodplain, Wetland (PDF)
- Town of Cedarburg Hwy 60- Wetland Report (PDF)



RECEIVED

JUN 14 2023

Katie Vogeler, Director

10.a

Edward J. Pfister, Sanitation & Zoning Coordinator

Geoff Schramm, Land & Water Coordinator

www.co.ozaukee.wi.us

OZAUKEE COUNTY
LAND AND WATER MANAGEMENT DEPARTMENT

OZAUKEE COUNTY
LAND & WATER
MANAGEMENT DEPT

PETITION TO CHANGE ZONING CLASSIFICATION

TO THE OZAUKEE COUNTY NATURAL RESOURCES COMMITTEE:

Ladies & Gentlemen:

The undersigned hereby petitions the Ozaukee County Natural Resource Committee to change the zoning classification of the following land in Ozaukee County, Wisconsin from:

Shoreland-Wetland

(Existing Zoning District)

to

Shoreland

(Proposed Zoning District)

Owner:	Town of Cedarburg
Telephone Number:	262-377-4509
E-Mail Address:	eryer@townofcedarburgwi.gov
Mailing Address:	1293 Washington Ave.
City, State, Zip:	Cedarburg, WI 53012
Project Address (if different than mailing address):	8611 5TH 60

Agent:	ERIC RYER - Administrator
Telephone Number:	262-377-4509 x4
E-Mail Address:	Same
Mailing Address:	Same
City, State, Zip:	Same

Tax Key Number:	030210500500
-----------------	--------------

Legal Description (1/4, Section, Township-Range, Municipality):

NW + NE 1/4 Sec. 21 T10N, R21E

Lot Number:	1	Block Number:	2/4	Subdivision Name or CSM #	# 3997 Dec. 1050182
-------------	---	---------------	-----	---------------------------	---------------------

Additional Information:

This is to recognize the wetland delineation report conducted by Wetland + Waterway Consulting LLC May 24, 2023.

NOTICE TO PETITIONERS:

The procedure to rezone / amend the Ozaukee County Shoreland and Floodplain Zoning Ordinance must comply with the statute and administrative rule provisions described in Sections 7.1300-7.1305. The criteria that the board must consider to reach a decision on the petition are stated in the ordinance [Sections 7.1300 (comprehensive), 7.1302 (floodplain), and 7.1305 (shoreland-wetland)].

This petition (original only) and any support documents must be filed with the Ozaukee County Land & Water Management Department one month in advance of the applicable Natural Resources Committee meeting date. Required support documents include:

- (1) A survey clearly showing the boundaries (wetland / floodplain) of any area to be rezoned, and
- (2) A written statement that addresses the criteria in ordinance Sections 7.1300-7.1305 as they relate to the proposed rezoning, if applicable (see descriptions on back page). Application materials shall be limited to 8.50 x 11.50, 8.50 x 14.00, or 11.00 x 17.00 sheets. Petitions will be considered at the next available committee meeting.

(continue on page 2)

121 W. Main Street, P. O. Box 994, Port Washington, WI 53074

Phone: (262) 284-8313 Fax: (262) 284-8367

Packet Pg. 121

Attachment: Rezoning Application (ORD.23-4 : Town Of Cedarburg Wetland Re-Zoning Ordinance Amendment)

NOTICE TO PETITIONERS (continued)

Notice of a public hearing on the petition will be published as a Class II notice under CH. 985, Wisconsin Statutes. The applicant will be notified of the date, time, and location of the hearing. It is advisable for the applicant or an agent for the applicant to attend the hearing.

A rezoning application fee of \$330.00, payable to Ozaukee County, is due at the time the petition is filed.

Comprehensive Rezoning

Section 7.1300 - Applies to all areas within the shoreland zoning jurisdictional area except floodplain and wetland areas. Rezoning of floodplain or wetland areas are regulated under Sections 7.1302 & 7.1305 (see below).

Floodplain Rezoning

Section 7.1302 - Floodplain management regulations may only be removed by rezoning the area to remove it from the floodplain provided the property:

- (a) is filled to an elevation 2 feet above the regional flood elevation and is contiguous to lands outside the floodplain, or
- (b) was above the regional flood elevation at the time of the effective date of the floodplain zoning map (mapped floodplain error).

Shoreland-Wetland Rezoning

Section 7.1305 - A wetland, or portion thereof, in the shoreland-wetland district shall not be rezoned if the proposed rezoning may result in a significant adverse impact upon any of the following:

1. Storm and flood water storage capacity;
2. Preservation 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;
3. Filtering or storage of sediments, nutrients, heavy metals, or organic compounds that would otherwise drain into navigable waters;
4. Shoreline protection against soil erosion;
5. Fish spawning, breeding, nursery or feeding grounds;
6. Wildlife habitat;
7. Areas of special recreational, scenic, or scientific interest, including scarce wetland types.

Section 7.1305(C) - If the Wisconsin Department of Natural Resources notifies the natural resources committee or county board that a proposed text or map amendment to the shoreland-wetland provisions of this ordinance may have a significant adverse impact upon any of the criteria listed above, that amendment, if approved by the county board, shall contain the following provision:

"This amendment shall not take effect until more than 30 days have elapsed after written notice of the county board approval of this amendment is mailed to the DNR. During that 30-day period the department may notify the county board that it will adopt a superseding shoreland ordinance for the county under Section 59.692 (6), Wis. Stats. If the department does so notify the county board, the effect of this amendment shall be stayed until the Section 59.692 (6) adoption procedure is completed or otherwise terminated."

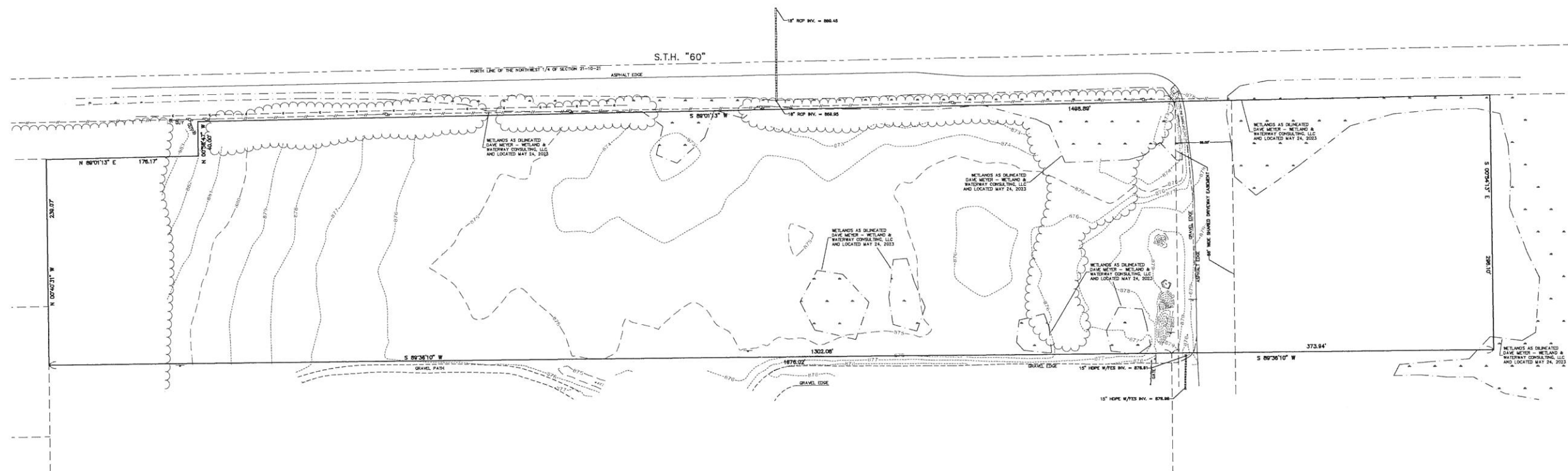
Signature (Owner/Agent): 		Date: 6-14-23	Petition Fee: NA
		Petition Date: 6-14-23	
(For Department use only)			Check / Receipt Number: 
Date of NR Committee Approval:	Date of County Board Approval:		
Comments:			



LEGAL DESCRIPTION:
LOT 1, CERTIFIED SURVEY MAP NO. 3997, BEING A PART OF THE NORTHWEST 1/4 OF SECTION 21, TOWNSHIP 10 NORTH, RANGE 21 EAST, IN THE TOWN OF CEDARBURG, OZAUKEE COUNTY, WISCONSIN.
CONTAINING: 10.900 ACRES/ 474,784 SQUARE FEET.

CJ
engineering
civil design and consulting
9205 W. Center Street
Suite 214
Milwaukee, WI 53222
PH: (414) 443-1312
FAX: (414) 443-1317
www.cj-engineering.com

CSE
CAPITOL SURVEY ENTERPRISES
220 REGENCY CT. STE. 210
BROOKFIELD, WI 53045
PH: (262) 786-6600
FAX: (414) 786-6608
WWW.CAPITOLSURVEY.COM

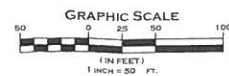


- NOTES
1. SUBJECT PROPERTY ZONED: M-2, PLANNED INDUSTRIAL DISTRICT.
 2. SETBACKS BASED ON THE TOWN OF CEDARBURG OF OZAUKEE COUNTY ZONING CODE AND ARE AS FOLLOWS:
(A) PRINCIPAL STRUCTURE: MAXIMUM TWO STORES OR 36 FEET FOR RESIDENTIAL. ALL OTHER TYPES OF DEVELOPMENT MAXIMUM THREE STORES OR 45 FEET.
(B) ACCESSORY STRUCTURE: MAXIMUM ONE STORY OR 25 FEET.
 - (4) YARD SETBACKS:
(A) STREET: MINIMUM 25 FEET.
(B) REAR: MINIMUM 30 FEET.
(C) SIDE: MINIMUM 15 FEET.
 3. LEGAL DESCRIPTION BASED ON CERTIFIED SURVEY MAP NO. 3997.



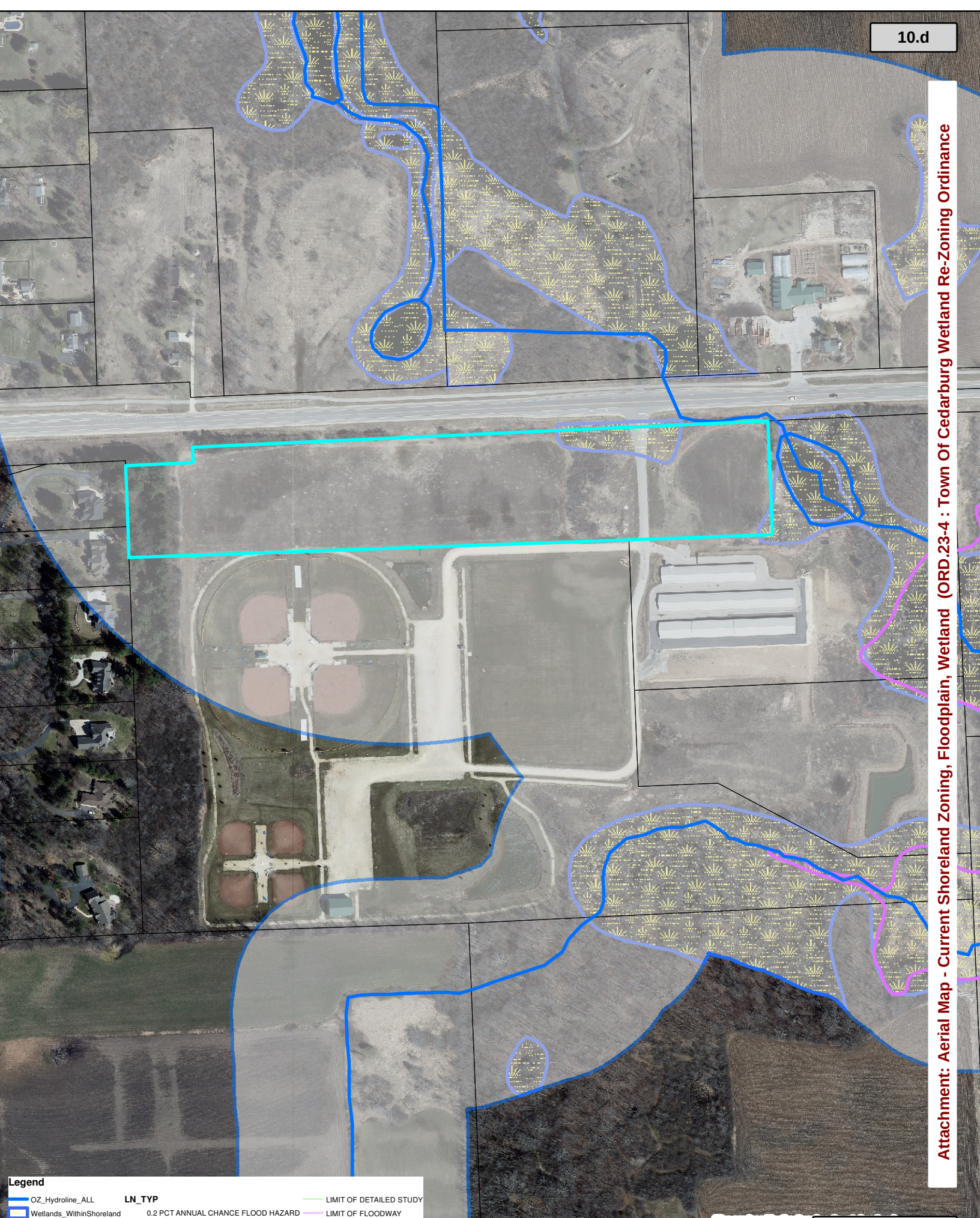
LEGEND		
--- SAN ---	SAWYER SIGN	XX HYDRANT
--- ST ---	STORM SIGN	--- W --- WATER VALVE
--- B ---	WATER SIGN	--- G --- GAS VALVE
--- E ---	BURNED GAS LINE	--- M --- MANHOLE
--- TEL ---	BURNED TELEPHONE LINE	--- S --- STORM MANHOLE
--- T ---	BURNED TELEPHONE LINE	--- G --- GAS METER
--- F ---	BURNED FIBER OPTIC LINE	--- H --- AIR CONDENSER
--- C ---	OVERHEAD UTILITY LINES	--- U --- UTILITY POLE
--- COM ---	COMMUNICATION SIGN	--- M --- METAL SIGN
--- W ---	WOOD FENCE	--- F --- FLAG POLE
--- M ---	METAL FENCE	--- B --- BOLLARD
--- T ---	EDGE OF TREES AND BRUSH	--- L --- LIGHT POLE
--- B ---	DOOR SILL ELEVATION	--- W --- WALL SIGN
--- P ---	PIPE DEPARTMENT CONNECTION	--- S --- SIGN OF FIRE DEPT. SIGN

4. THE UNDERGROUND UTILITY INFORMATION AS SHOWN HEREON IS BASED, IN PART, ON INFORMATION FURNISHED BY THE UTILITY COMPANIES, DIGGERS HOTLINE AND THE LOCAL MUNICIPALITY. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, ITS ACCURACY AND COMPLETENESS CANNOT BE GUARANTEED NOR CERTIFIED TO.
5. SUBJECT PROPERTY IS [ARE] LOCATED WITHIN AN AREA HAVING A ZONE DESIGNATION E. AREAS DETERMINED TO BE OUTSIDE THE 100-YEAR FLOOD PLAIN, FOR INFORMATION FROM THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), ON FLOOD INSURANCE RATE MAP NO. 50080C0150P, WITH A DATE OF IDENTIFICATION OF 12/4/2007, IN COMMUNITY NO. 500310, OZAUKEE COUNTY, WHICH IS THE COMMUNITY IN WHICH THE SUBJECT PROPERTY IS SITUATED.
6. PROJECT BENCHMARK/SITE BENCHMARK - THE NORTHWEST CORNER OF THE NORTHWEST 1/4 OF SECTION 21-10-21 FOUND CONCRETE MONUMENT WITH CAP WITH AN ELEVATION OF 875.75.
7. ELEVATIONS BASED ON INFORMATION FROM S.M.R.P.C. N.A.V.D. OF 1988(12)
8. DUE TO SNOW AND ICE CONDITIONS AT TIME OF SURVEY, NOT ALL IMPROVEMENTS AND/OR PHYSICAL FEATURES MAY BE SHOWN.
9. SURVEY DATUM: COORDINATES ARE BASED ON THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), OZAUKEE COUNTY, NORTH AMERICAN DATUM OF 1983, 2011 ADJUSTMENT (NAD83(2011)).



EXISTING CONDITIONS SURVEY
FOR
CEDARBURG SPORTS FACILITY
8511 HWY 60
CEDARBURG, WI

DRAWN BY:	RAP	DATE:	12/23/2022
CHECKED BY:	MJB	DRAWING NO.:	EC - 1
CSE JOB NO.:	22-111	SHEET	1 OF 1



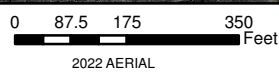
Legend

- OZ_Hydroline_ALL
- Wetlands_WithinShoreland
- Wetlands_OpenWater
- s_fld_haz_ln
- <all other values>

LN_TYP

- 0.2 PCT ANNUAL CHANCE FLOOD HAZARD
- 1 PCT ANNUAL CHANCE FLOOD HAZARD
- END OF SPATIAL EXTENT
- FLOODWAY

- LIMIT OF DETAILED STUDY
- LIMIT OF FLOODWAY
- LIMIT OF STUDY
- ZONE BREAK



Map produced by the Oza
Water Management Dept.
The information on the a
It is based on the best available information at
the time of its printing.



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

June 25, 2023

Mark Hertzfeldt
Design 2 Construct
N173W21010 Northwest Passage
Jackson, WI 53037

Dear Mr. Hertzfeldt:

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 May 17, 2023 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 parcel is 10.900 acres (Tax Key Number 030210500500) located at 8611 WI-60 Trunk Highway. The predominant land cover for this property is old field and wetland.

INTRODUCTION

Dave Meyer, the owner of WWC, 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 lead 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.

Kristi Sherfinski conducted the wetland delineation field work on May 17, 2023. Field conditions on May 17 were sunny with air temperatures in the 60s (°F).

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 WWTP 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	3 yrs in	Rain	Condition	Condition	Month	Product
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	10 Less Than* (inches)	10 More Than* (inches)	Fall (inches)	Dry, Wet, Normal	Value	Weight Value	of Previous Two Columns
April	2.62	4.52	2.90	Normal	2	3	6
March	1.15	2.34	2.02	Normal	2	2	4
February	0.82	1.67	3.48	Wet	3	1	3
						Sum	13
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 13 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 gently rolling landscape that generally slopes to the east. The high point of the project area at the west boundary is 885 feet in elevation above Mean Sea Level. The low points of the property occur at 873 feet in elevation in the wetland areas to the east.

The soil survey map shows five different soil types. The Pella silt loam soil type is Predominantly Hydric. Martinton and Ozaukee silt loam soil types are both Predominantly Non-hydric but may include a small amount of hydric soil types 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
HmD2	Hochheim loam, 12-20%	Non-hydric
MgA	Martinton silt loam, 1-3%	Predominantly Non-hydric
OuB2	Ozaukee silt loam, 2-6%	Predominantly Non-hydric
Ph	Pella silt loam, 0-2%	Predominantly Hydric
ZuB2	Zurich silt loam, 2-6%	Non-hydric

The Wisconsin Wetland Inventory identifies a T3/E1K, forested/emergent wetland, in the southeast corner of the parcel. There is also an E3H, emergent wetland, along the north edge of the property which falls to either side of the driveway.

A previous wetland delineation map was available for work done several years ago by TRC prior to when the sports complex was developed. Several wetlands are shown within the project boundaries at this time. It appears that portions of some of these wetlands were filled when the sports complex was developed, so the former delineation boundaries do not match exactly with what they are today.

Historic aerial photographs show that the site agricultural with tree plantings along the west edge. An old farmstead was originally located where the driveway now is. The sports complex was built to the south sometime between 2015 and 2020. Also at this time, the agricultural field was allowed to go fallow.

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 wetland complex consisting of an emergent wetland ditch, connected to a wet meadow wetland near the midpoint of the property, and transitions to a forested/emergent wetland near the driveway.

DP1 was taken in the roadside ditch. The dominant species were hybrid cattail and tussock sedge. Soils met the hydric soils criteria for A11. Depleted Below Dark Surface, F3. Depleted Matrix, and F6. Redox Dark Surface. The ditch was saturated at the surface and the water table was at 7 inches. The signs of wetland hydrology included Saturation, High Water Table, Drainage Patterns, Geomorphic Position, and FAC-Neutral Test. The adjacent upland point (DP2) was located on a hillslope in old field. The dominant species were Norway spruce, hybrid honeysuckle, common buckthorn, and tall goldenrod. Soils consisted of 10 inches of silty clay loam over gravel fill and did not meet any hydric soil indicator. There were no signs of wetland hydrology.

DP3 was taken in a depressional area that dipped south of the ditch into the old field. The dominant plant species was reed canary grass. Soils met the hydric soils criteria for A11. Depleted Below Dark Surface and F6. Redox Dark Surface. Signs of wetland hydrology included Geomorphic Position and FAC-Neutral-Test. The adjacent upland point (DP4) was located on a slight convex rise in old field about 18 inches higher than the wetland. The dominant species were red clover and tall goldenrod. Soils did not meet any hydric soil indicators. There were no signs of wetland hydrology.

DP10 was taken in the forested/emergent wetland at the east side of the complex and where the WWI had a mapped E3H. The dominant species were black willow, American elm, common buckthorn, silver maple, hybrid honeysuckle, and reed canary grass. Soils met the hydric soils criteria for A11. Depleted Below Dark Surface, F3. Depleted Matrix, and F6. Redox Dark Surface.

There was one inch of surface water and signs of wetland hydrology included Surface Water, Drainage Patterns, Geomorphic Position, and FAC-Neutral Test. The upland point DP9 was located on a fill pile about three feet higher than the wetland. The dominant species were common violet and tall goldenrod and the Prevalence Index was 3.82, indicating an upland community. Soils consisted of 10 inches of silty clay loam over rubble fill and did not meet any hydric soil indicators. There were no signs of wetland hydrology.

Wetland B is a disturbed wet meadow wetland pocket. The dominant plants in DP5 were common spikerush and brown fox sedge. Soils met the hydric soils criteria for A11. Depleted Below Dark Surface and F6. Redox Dark Surface. Signs of hydrology included Surface Soil Cracks, Crayfish Burrows, Geomorphic Position, and FAC-Neutral Test. Upland point DP6 was located on a convex rise between Wetlands B and C. The dominant species was tall goldenrod. Soils did not meet any hydric soil indicators and there were no signs of wetland hydrology.

Wetland C is another disturbed wet meadow wetland pocket. The dominant plants in DP7 were common spikerush and brown fox sedge. Soils met the hydric soils criteria for A11. Depleted Below Dark Surface and F6. Redox Dark Surface. Signs of hydrology included Surface Soil Cracks, Crayfish Burrows, Geomorphic Position, and FAC-Neutral Test. Upland point DP8 was located on a slight rise east of Wetland C. The dominant species were tall goldenrod and creeping Charlie. Soils did not meet any hydric soil indicators and there were no signs of wetland hydrology.

Wetland D is a disturbed wet meadow pocket that used to be connected to Wetland E before fill was placed for a new road when the sports complex was built. The dominant plants were green ash, common buckthorn, reed canary grass, common spikerush, and Kentucky bluegrass. Soils met the hydric soils criteria for A11. Depleted Below Dark Surface and F6. Redox Dark Surface. Signs of hydrology included Geomorphic Position and FAC-Neutral Test. Upland point DP12 was located on a slight rise between Wetlands D and E. The dominant species were common buckthorn, tall goldenrod and Kentucky bluegrass. Soils did not meet any hydric soil indicators and consisted of 14 inches of soil over rubble fill material. There were no signs of wetland hydrology.

Wetland E is a disturbed wet meadow pocket that used to be connected to Wetland D before fill was placed for a new road when the sports complex was built. The dominant plants were silver maple, wild black currant, common buckthorn, and reed canary grass. Soils met the hydric soils criteria for A11. Depleted Below Dark Surface and F6. Redox Dark Surface. Signs of hydrology included Geomorphic Position and FAC-Neutral Test. Upland point DP12 was located on a slight rise between Wetlands D and E. The dominant species were common buckthorn, tall goldenrod and Kentucky bluegrass. Soils did not meet any hydric soil indicators and consisted of 14 inches of soil over rubble fill material. There were no signs of wetland hydrology.

Wetland F is wetland complex that consists of an emergent wetland located just east of the driveway mapped as E3H in the WWI and is connected to a forested/emergent wetland in the southeast corner of the property mapped as T3/E1K in the WWI. DP15 was taken in emergent

wetland on the west side of the complex. The dominant plant was common reed grass. There was one inch of standing water in the feature. Signs of hydrology included Surface Water, Drainage Patterns, Geomorphic Position, and FAC-Neutral Test. Upland point DP14 was located on an area that was filled due to the road construction and just south of Wetland F. The dominant species were tall goldenrod and Kentucky bluegrass. Soils did not meet any hydric soil indicators and consisted of 12 inches of soil over gravel fill material. There were no signs of wetland hydrology.

DP16 was taken in the forested/emergent wetland in the southeast corner of the project area in a slight swale that is connected to the larger wetland complex. The dominant species were Eastern cottonwood, green ash, common buckthorn, and reed canary grass. Soils met the hydric soil criteria for F3. Depleted Matrix. The soils were saturated at the surface and the water table was at 12 inches. Signs of hydrology included High Water Table, Saturation, Drainage Patterns, Geomorphic Position, and FAC-Neutral Test. A second upland data point (DP17) was located near the southeast corner of the property near the forested/emergent wetland. The dominant species were common buckthorn, tall goldenrod and Kentucky bluegrass. Soils did not meet any hydric soil indicators. There were no signs of 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,

A handwritten signature in blue ink that reads "Dave Meyer" with a horizontal line extending from the end of the name.

Dave Meyer

A handwritten signature in blue ink that reads "Kristi Sherfinski" in a cursive style.

Kristi Sherfinski

Attachments

1. Literature Cited
2. Location map
3. USGS topo maps
4. Soil Survey maps
5. Wisconsin Wetland Inventory map
6. Previous Delineation map
7. Historical Aerial Photographs
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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Guidance for Offsite Hydrology/Wetland Determinations. July 1, 2016. St. Paul District US Army Corps of Engineers.

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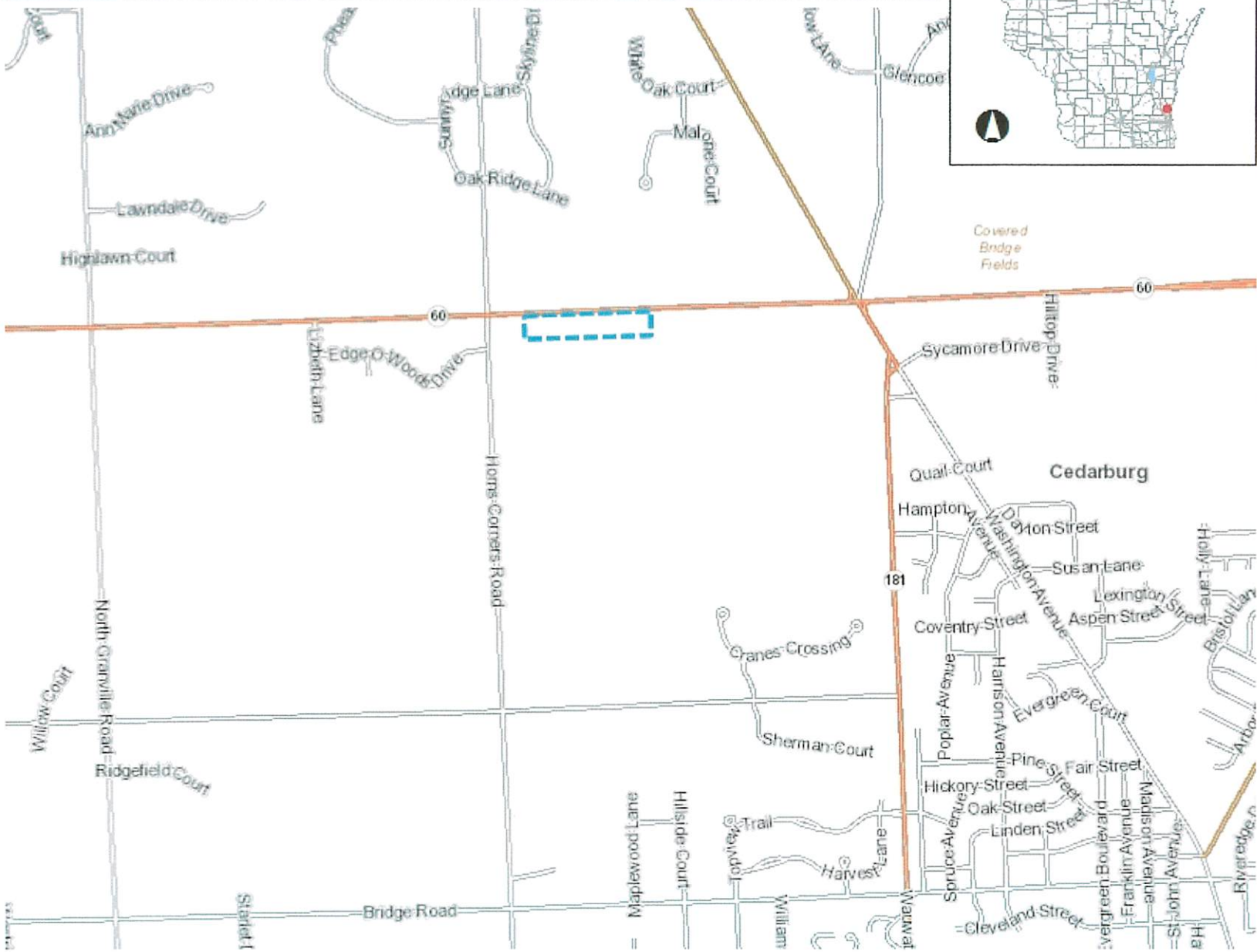
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USDA Natural Resources Conservation Service. Web Soil Survey. Online: www.websoilsurvey.sc.egov.usda.gov.

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

0.8 0 0.38 0.8 Miles

NAD_1983_HARN_Wisconsin_TM

1: 23,760

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Notes

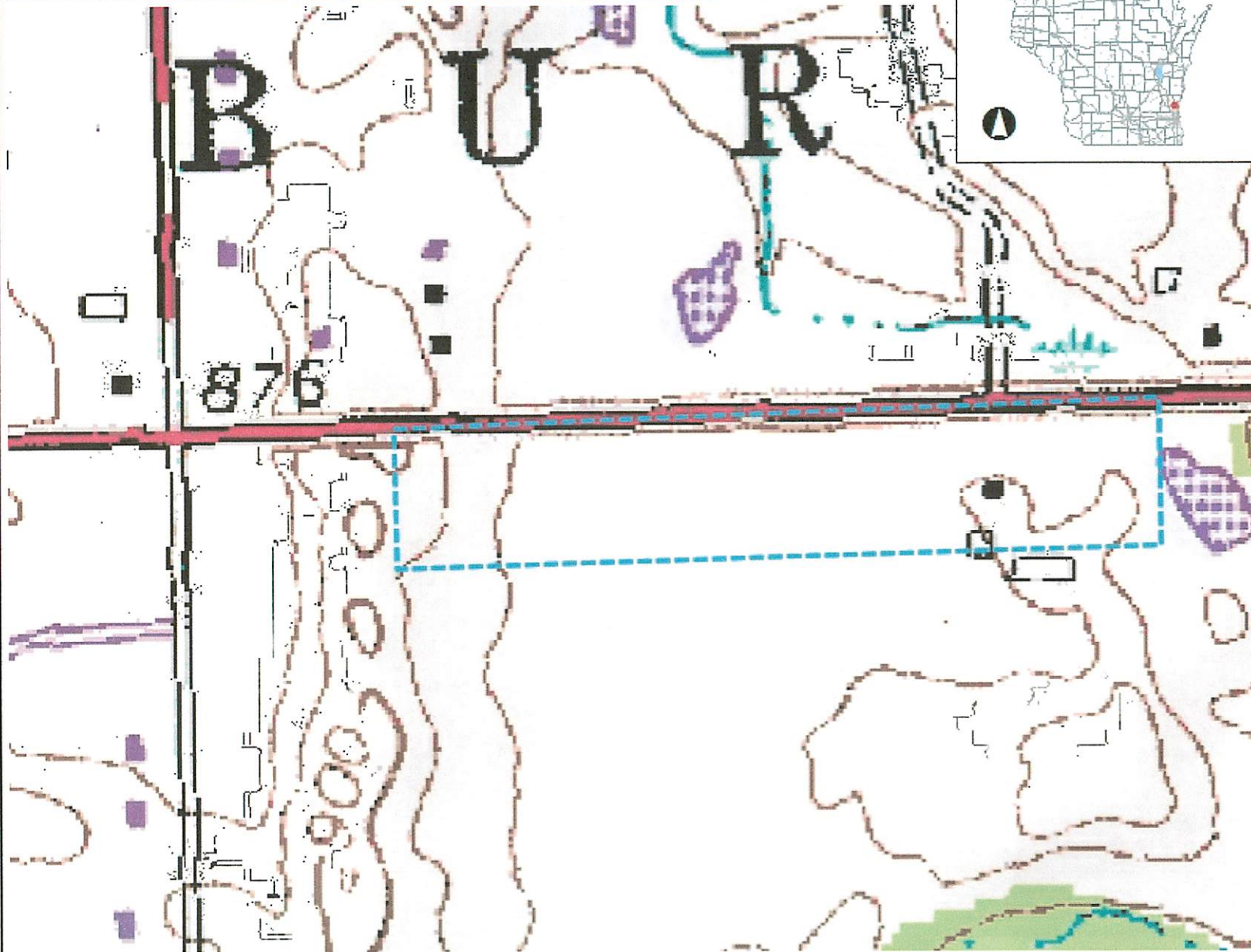


Surface Water Data Viewer Map



Legend

10.e



0.1 0 0.06 0.1 Miles

NAD_1983_HARN_Wisconsin_TM

1: 3,960

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Notes



TOPOGRAPHIC MAP

Source: Ozaukee County GIS, 2023



Surface Water Data Viewer Map

10.e

Legend

NRCS Wisconsin Soils

Soil Mapping Unit

Water



0.1 0 0.06 0.1 Miles

NAD_1983_HARN_Wisconsin_TM

1: 3,960

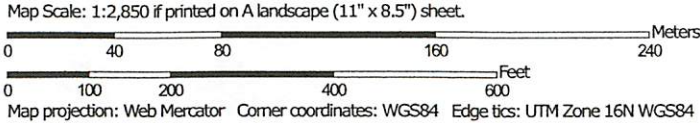
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Notes

Soil Map—Ozaukee County, Wisconsin



Soil Map may not be valid at this scale.



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
HmD2	Hochheim loam, 12 to 20 percent slopes, eroded	0.4	3.2%
MgA	Martinton silt loam, 1 to 3 percent slopes	8.5	67.3%
OuB2	Ozaukee silt loam, high carbonate substratum, 2 to 6 percent slopes, eroded	2.5	19.6%
Ph	Pella silt loam, 0 to 2 percent slopes	0.0	0.1%
ZuB2	Zurich silt loam, 2 to 6 percent slopes, eroded	1.2	9.8%
Totals for Area of Interest		12.6	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)
HmD2: Hochheim loam, 12 to 20 percent slopes, eroded	Hochheim-Eroded	80-91	Drumlins	No	—
	Theresa	6-12	Drumlins	No	—
	Hochheim	3-8	Drumlins	No	—
MgA: Martinton silt loam, 1 to 3 percent slopes	Martinton	86-95	Glacial lakes (relict), drainageways	No	—
	Poygan	5-14	Depressions	Yes	2,3
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	—
Ph: Pella silt loam, 0 to 2 percent slopes	Pella	80-91	Drainageways	Yes	2,3
	Kendall	5-9	Drainageways	No	—
	Lamartine	4-8	Drainageways	No	—
	Palms-Muck	1-3	Depressions	Yes	1,3
ZuB2: Zurich silt loam, 2 to 6 percent slopes, eroded	Zurich-Eroded	85-95	Lakebeds (relict)	No	—
	Fox	3-8	Lakebeds (relict)	No	—
	Darroch	2-7	Lakebeds (relict)	No	—

Data Source Information

Soil Survey Area: Ozaukee County, Wisconsin

Survey Area Data: Version 19, Sep 7, 2022



Surface Water Data Viewer Map

10.e



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 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

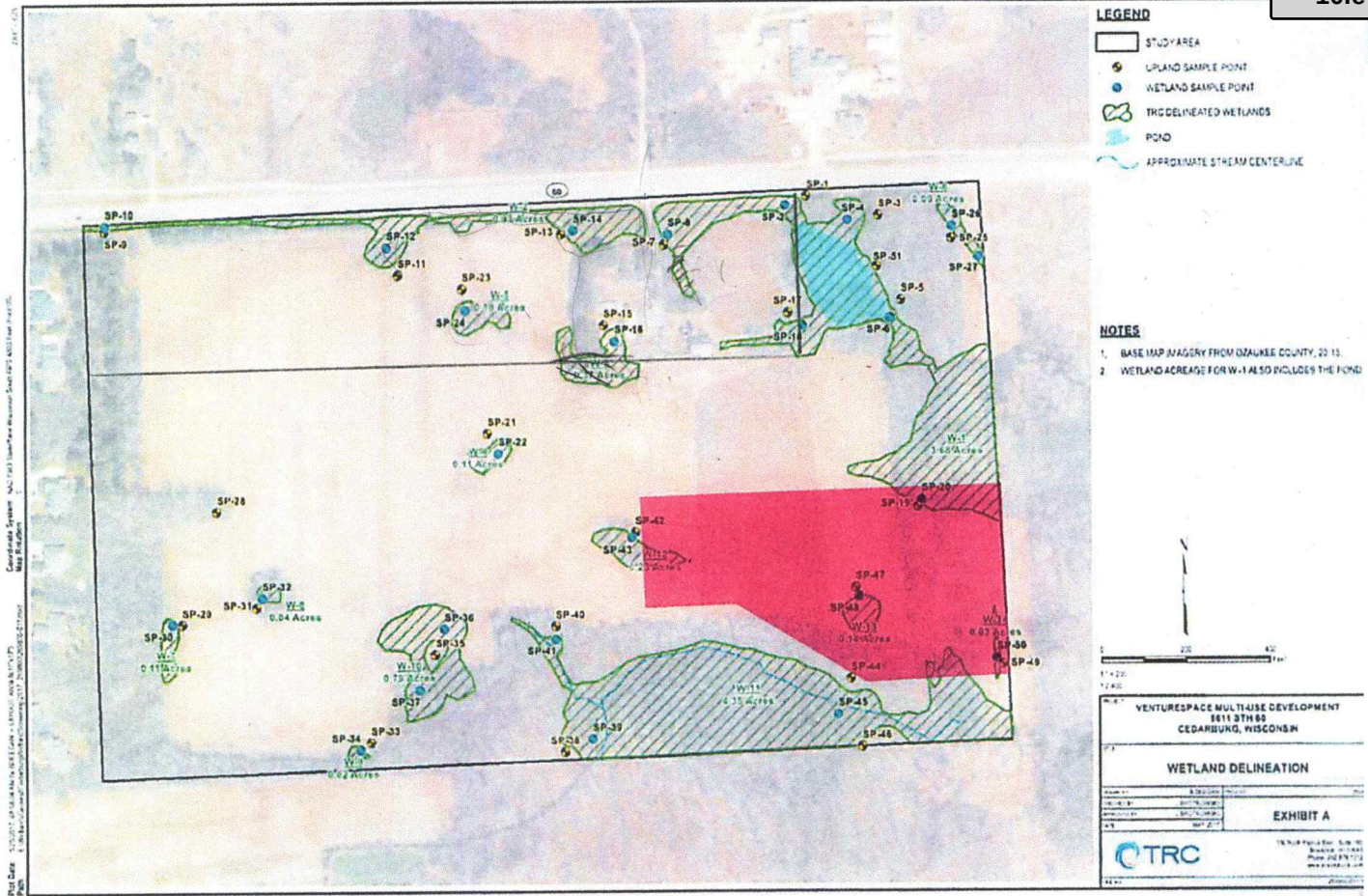
0.1 0 0.06 0.1 Miles

NAD_1983_HARN_Wisconsin_TM

1: 3,960

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Notes





1941.



1950.

HISTORIC AERIAL PHOTOS

Source: Ozaukee County GIS, 2023



1970.



1990.

HISTORIC AERIAL PHOTOS

Source: Ozaukee County GIS, 2023



2000.



2005.

Attachment: Town of Cedarburg Hwy 60- Wetland Report (ORD.23-4 : Town Of Cedarburg Wetland Re-Zoning Ordinance Amendment)

HISTORIC AERIAL PHOTOS

Source: Ozaukee County GIS, 2023



2010.



2015.



2020.



2022.

Attachment: Town of Cedarburg Hwy 60- Wetland Report (ORD.23-4 : Town Of Cedarburg Wetland Re-Zoning Ordinance Amendment)

HISTORIC AERIAL PHOTOS

Source: Ozaukee County GIS, 2023



View of Wetland A where it dips south into the field.



View of Wetland A where it shifts into forested/emergent wetland.

SITE PHOTOS



View of Wetland B.



View of Wetland C.

SITE PHOTOS



View of Wetland D.



View of Wetland E.

SITE PHOTOS



View of Wetland F at its west end.



View of the south side of the Wetland F, where it transitions to forested/emergent wetland.

SITE PHOTOS

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Kolb Sports Center North City/County: Cedarburg/Ozaukee Sampling Date: May 17, 2023
 Applicant/Owner: Design 2 Construct State: WI Sampling Point: 1
 Investigator(s): K. Sherfinski Section, Township, Range: S21, T10N, R21E
 Landform (hillslope, terrace, etc.): roadside ditch Local relief (concave, convex, none): concave
 Slope (%): 0-2 Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Martinton silt loam (MgA) 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 <u>X</u> No <u>X</u> Depth (inches): _____ Water table present? Yes <u>X</u> No _____ Depth (inches): <u>7</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: 1

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				
		107 = 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	21	54
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: 2 (B)
 Percent of Dominant Species that are OBL, FACW, or FAC: 100.00% (A/B)

Prevalence Index Worksheet
 Total % Cover of:
 OBL species 105 x 1 = 105
 FACW species 0 x 2 = 0
 FAC species 2 x 3 = 6
 FACU species 0 x 4 = 0
 UPL species 0 x 5 = 0
 Column totals 107 (A) 111 (B)
 Prevalence Index = B/A = 1.04

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)

Emergent wetland in roadside ditch.

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**		
0-10	10YR 3/1	95	10YR 5/6	5	C	PL/M	silty clay loam	
10-20	10YR 4/2	10	10YR 5/4	10	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) | ☐ 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: Kolb Sports Center North City/County: Cedarburg/Ozaukee Sampling Date: May 17, 2023
 Applicant/Owner: Design 2 Construct State: WI Sampling Point: 2
 Investigator(s): K. Sherfinski Section, Township, Range: S21, T10N, R21E
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex
 Slope (%): 8-10 Lat.: Long.: Datum:
 Soil Map Unit Name: Hochheim loam (HmD2) 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: <u></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 <u></u> No <u>X</u> Depth (inches): <u></u> Water table present? Yes <u></u> No <u>X</u> Depth (inches): <u></u> Saturation present? Yes <u></u> No <u>X</u> Depth (inches): <u></u> (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:		

VEGETATION - Use scientific names of plants

Sampling Point: 2

Tree Stratum	Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1 <i>Picea abies</i>		30	Y	UPL
2				
3				
4				
5				
6				
7				
8				
9				
10				
		30	= Total Cover	

Sapling/Shrub Stratum	Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1 <i>Lonicera x bella</i>		30	Y	FACU
2 <i>Rhamnus cathartica</i>		10	Y	FAC
3 <i>Viburnum lentago</i>		5	N	FAC
4 <i>Picea abies</i>		3	N	UPL
5 <i>Cornus alba</i>		1	N	FACW
6				
7				
8				
9				
10				
		49	= Total Cover	

Herb Stratum	Plot Size (5ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1 <i>Solidago altissima</i>		50	Y	FACU
2 <i>Lonicera x bella</i>		10	N	FACU
3 <i>Securigera varia</i>		5	N	UPL
4 <i>Toxicodendron radicans</i>		3	N	FAC
5 <i>Taraxacum officinale</i>		2	N	FACU
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
		70	= 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 with planted trees.

50/20 Thresholds		
	20%	50%
Tree Stratum	6	15
Sapling/Shrub Stratum	10	25
Herb Stratum	14	35
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:		
	3	(B)
Percent of Dominant Species that are OBL, FACW, or FAC:		
	33.33%	(A/B)

Prevalence Index Worksheet		
Total % Cover of:		
OBL species	0 x 1 =	0
FACW species	1 x 2 =	2
FAC species	18 x 3 =	54
FACU species	92 x 4 =	368
UPL species	38 x 5 =	190
Column totals	149 (A)	614 (B)
Prevalence Index = B/A =		
		4.12

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: 2

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

[illegible]

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

Depth (inches): 10

Hydric soil present? N

Remarks:

Refusal due to gravel fill.

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Kolb Sports Center North City/County: Cedarburg/Ozaukee Sampling Date: May 17, 2023
 Applicant/Owner: Design 2 Construct State: WI Sampling Point: 3
 Investigator(s): K. Sherfinski Section, Township, Range: S21, T10N, R21E
 Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave
 Slope (%): 0-1 Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Martinton silt loam (MgA) 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 _____ 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>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				
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				
		103 = 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)

Disturbed wet meadow.

50/20 Thresholds

	20%	50%
Tree Stratum	0	0
Sapling/Shrub Stratum	0	0
Herb Stratum	21	52
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:	1	(B)
Percent of Dominant Species that are OBL, FACW, or FAC:	100.00%	(A/B)

Prevalence Index Worksheet

Total % Cover of:			
OBL species	13	x 1 =	13
FACW species	87	x 2 =	174
FAC species	2	x 3 =	6
FACU species	1	x 4 =	4
UPL species	0	x 5 =	0
Column totals	103	(A)	197 (B)
Prevalence Index = B/A =	1.91		

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: 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**		
0-12	10YR 3/1	95	10YR 4/6	5	C	PL	silty clay loam	
12-20	10YR 5/2	95	10YR 4/6	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:

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Kolb Sports Center North City/County: Cedarburg/Ozaukee Sampling Date: May 17, 2023
 Applicant/Owner: Design 2 Construct State: WI Sampling Point: 4
 Investigator(s): K. Sherfinski Section, Township, Range: S21, T10N, R21E
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex
 Slope (%): 3 Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Martinton silt loam (MgA) 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" 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				
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>Solidago altissima</i>	40	Y	FACU
2	<i>Trifolium pratense</i>	30	Y	FACU
3	<i>Poa pratensis</i>	20	N	FACU
4	<i>Daucus carota</i>	15	N	UPL
5	<i>Glechoma hederacea</i>	10	N	FACU
6	<i>Phalaris arundinacea</i>	5	N	FACW
7	<i>Fragaria virginiana</i>	1	N	FACU
8				
9				
10				
11				
12				
13				
14				
15				
		121	= 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.

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: 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	<u>0</u>	x 1 =	<u>0</u>
FACW species	<u>5</u>	x 2 =	<u>10</u>
FAC species	<u>0</u>	x 3 =	<u>0</u>
FACU species	<u>101</u>	x 4 =	<u>404</u>
UPL species	<u>15</u>	x 5 =	<u>75</u>
Column totals	<u>121</u> (A)		<u>489</u> (B)

Prevalence Index = B/A = 4.04

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: 4

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					silty clay loam	
11-20	10YR 4/4	62	10YR 5/6	5	C	PL	silty clay	
	10YR 3/2	20	2.5Y 5/2	3	D	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? N

Remarks:

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Kolb Sports Center North City/County: Cedarburg/Ozaukee Sampling Date: May 17, 2023
 Applicant/Owner: Design 2 Construct State: WI Sampling Point: 5
 Investigator(s): K. Sherfinski Section, Township, Range: S21, T10N, R21E
 Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave
 Slope (%): 0-1 Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Martinton silt loam (MgA) 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 _____ 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>Y</u>
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION - Use scientific names of plants

Sampling Point: 5

Tree Stratum	Plot Size (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>	1		FAC
2				
3				
4				
5				
6				
7				
8				
9				
10				
		1	= Total Cover	

Herb Stratum	Plot Size (5ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1	<i>Eleocharis palustris</i>	35	Y	OBL
2	<i>Carex vulpinoidea</i>	25	Y	OBL
3	<i>Phalaris arundinacea</i>	10	N	FACW
4	<i>Rumex crispus</i>	5	N	FAC
5	<i>Puccinellia distans</i>	3	N	FACW
6	<i>Solidago gigantea</i>	3	N	FACW
7	<i>Taraxacum officinale</i>	3	N	FACU
8	<i>Trifolium repens</i>	2	N	FACU
9				
10				
11				
12				
13				
14				
15				
		86	= 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)

Disturbed wet meadow.

50/20 Thresholds

	20%	50%
Tree Stratum	0	0
Sapling/Shrub Stratum	0	1
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: 2 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 100.00% (A/B)

Prevalence Index Worksheet

Total % Cover of:

OBL species	60	x 1 =	60
FACW species	16	x 2 =	32
FAC species	6	x 3 =	18
FACU species	5	x 4 =	20
UPL species	0	x 5 =	0
Column totals	87	(A)	130 (B)

Prevalence Index = B/A = 1.49

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: 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**		
0-4	10YR 2/2	100					silty clay loam	
4-12	10YR 2/2	95	10YR 5/4	5	C	PL	silty clay loam	
12-20	10YR 5/2	20	10YR 4/6	20	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)
☐ 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: Kolb Sports Center North City/County: Cedarburg/Ozaukee Sampling Date: May 17, 2023
 Applicant/Owner: Design 2 Construct State: WI Sampling Point: 6
 Investigator(s): K. Sherfinski Section, Township, Range: S21, T10N, R21E
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex
 Slope (%): 3 Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Martinton silt loam (MgA) 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> Hydric soil present? <u>N</u> Indicators of wetland hydrology present? <u>N</u>	Is the sampled area within a wetland? <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 12" higher than wetlands, separates two wetlands.	

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>Solidago altissima</i>	85	Y	FACU
2	<i>Trifolium pratense</i>	20	N	FACU
3	<i>Poa pratensis</i>	10	N	FACU
4	<i>Trifolium repens</i>	5	N	FACU
5	<i>Taraxacum officinale</i>	3	N	FACU
6	<i>Erigeron annuus</i>	3	N	FACU
7	<i>Phalaris arundinacea</i>	3	N	FACW
8	<i>Daucus carota</i>	3	N	UPL
9	<i>Barbarea vulgaris</i>	2	N	FAC
10	<i>Carex blanda</i>	1	N	FAC
11				
12				
13				
14				
15				
		135 = 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	27	68
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: 1 (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 3 x 2 = 6
 FAC species 3 x 3 = 9
 FACU species 126 x 4 = 504
 UPL species 3 x 5 = 15
 Column totals 135 (A) 534 (B)
 Prevalence Index = B/A = 3.96

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**		
0-8	10YR 2/2	100					silty clay loam	
8-14	10YR 2/2	98	10YR 3/6	2	C	PL	silty clay	
14-20	10YR 4/3	92	10YR 4/6	8	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)
☐ 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: Kolb Sports Center North City/County: Cedarburg/Ozaukee Sampling Date: May 17, 2023
 Applicant/Owner: Design 2 Construct State: WI Sampling Point: 7
 Investigator(s): K. Sherfinski Section, Township, Range: S21, T10N, R21E
 Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave
 Slope (%): 0-1 Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Martinton silt loam (MgA) 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)		Secondary Indicators (minimum of two required)
☐ 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 on Living	☒ Crayfish Burrows (C8)
☐ Drift Deposits (B3)	☐ Roots (C3)	☐ Saturation Visible on Aerial Imagery
☐ Algal Mat or Crust (B4)	☐ Presence of Reduced Iron (C4)	☐ (C9)
☐ Iron Deposits (B5)	☐ Recent Iron Reduction in Tilled	☐ Stunted or Stressed Plants (D1)
☐ Inundation Visible on Aerial	☐ Soils (C6)	☒ Geomorphic Position (D2)
☐ Imagery (B7)	☐ Thin Muck Surface (C7)	☐ Shallow Aquitard (D3)
☐ Sparsely Vegetated Concave	☐ Other (Explain in Remarks)	☒ FAC-Neutral Test (D5)
☐ Surface (B8)		☐ 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:		

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>Salix exigua</i>	1		
2				
3				
4				
5				
6				
7				
8				
9				
10				
		1 = Total Cover		

Herb Stratum	Plot Size (5ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1	<i>Carex vulpinoidea</i>	50	Y	OBL
2	<i>Eleocharis palustris</i>	25	Y	OBL
3	<i>Phalaris arundinacea</i>	10	N	FACW
4	<i>Poa pratensis</i>	10	N	FACU
5	<i>Taraxacum officinale</i>	10	N	FACU
6	<i>Trifolium repens</i>	5	N	FACU
7	<i>Rumex crispus</i>	2	N	FAC
8				
9				
10				
11				
12				
13				
14				
15				
		112 = 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)

Disturbed wet meadow.

50/20 Thresholds

	20%	50%
Tree Stratum	0	0
Sapling/Shrub Stratum	0	1
Herb Stratum	22	56
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: 2 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 100.00% (A/B)

Prevalence Index Worksheet

Total % Cover of:

OBL species	<u>75</u> x 1 =	<u>75</u>
FACW species	<u>10</u> x 2 =	<u>20</u>
FAC species	<u>2</u> x 3 =	<u>6</u>
FACU species	<u>25</u> x 4 =	<u>100</u>
UPL species	<u>0</u> x 5 =	<u>0</u>
Column totals	<u>112</u> (A)	<u>201</u> (B)

Prevalence Index = B/A = 1.79

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: 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**		
0-5	10YR 2/2	100					silty clay loam	
5-12	10YR 2/1	95	10YR 3/6	5	C	PL	silty clay loam	
12-20	10YR 5/2	10	10YR 4/6	10	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) (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: Kolb Sports Center North City/County: Cedarburg/Ozaukee Sampling Date: May 17, 2023
 Applicant/Owner: Design 2 Construct State: WI Sampling Point: 8
 Investigator(s): K. Sherfinski Section, Township, Range: S21, T10N, R21E
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex
 Slope (%): 3 Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Martinton silt loam (MgA) 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> Hydric soil present? <u>N</u> Indicators of wetland hydrology present? <u>N</u>	Is the sampled area within a wetland? <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 12" higher than wetland.	

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				
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>Glechoma hederacea</i>	40	Y	FACU
2	<i>Solidago altissima</i>	30	Y	FACU
3	<i>Trifolium repens</i>	15	N	FACU
4	<i>Poa pratensis</i>	5	N	FACU
5	<i>Barbarea vulgaris</i>	5	N	FAC
6	<i>Daucus carota</i>	3	N	UPL
7	<i>Erigeron annuus</i>	3	N	FACU
8	<i>Medicago sativa</i>	2	N	UPL
9	<i>Taraxacum officinale</i>	2	N	FACU
10	<i>Leucanthemum vulgare</i>	1	N	UPL
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	

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

50/20 Thresholds

	20%	50%
Tree Stratum	0	0
Sapling/Shrub Stratum	0	0
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:	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	5	x 3 =	15
FACU species	95	x 4 =	380
UPL species	6	x 5 =	30
Column totals	106	(A)	425 (B)
Prevalence Index = B/A =	4.01		

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: 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**		
0-11	10YR 3/2	100					silty clay loam	
11-20	10YR 4/3	85	10YR 4/6	5	C	PL	silty clay	
	10YR 3/2	10						inclusions

*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: Kolb Sports Center North City/County: Cedarburg/Ozaukee Sampling Date: May 17, 2023
 Applicant/Owner: Design 2 Construct State: WI Sampling Point: 9
 Investigator(s): K. Sherfinski Section, Township, Range: S21, T10N, R21E
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex
 Slope (%): 3 Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Martinton silt loam (MgA) 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 3 feet higher than wetland.		

VEGETATION - Use scientific names of plants

Sampling Point: 9

Tree Stratum	Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1 <i>Juglans nigra</i>		5	Y	FACU
2				
3				
4				
5				
6				
7				
8				
9				
10				
		5		= Total Cover

Sapling/Shrub Stratum	Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1 <i>Lonicera x bella</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>Solidago altissima</i>		60	Y	FACU
2 <i>Viola sororia</i>		20	Y	FAC
3 <i>Poa pratensis</i>		15	N	FACU
4 <i>Mellilotus officinalis</i>		10	N	FACU
5 <i>Arctium minus</i>		5	N	FACU
6 <i>Tanacetum vulgare</i>		5	N	FACU
7 <i>Geum aleppicum</i>		2	N	FAC
8 <i>Erigeron annuus</i>		2	N	FACU
9 <i>Carex blanda</i>		2	N	FAC
10				
11				
12				
13				
14				
15				
		121		= 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.

50/20 Thresholds

	20%	50%
Tree Stratum	1	3
Sapling/Shrub Stratum	1	3
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: 2 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 50.00% (A/B)

Prevalence Index Worksheet

Total % Cover of:

OBL species	<u>0</u>	x 1 =	<u>0</u>
FACW species	<u>0</u>	x 2 =	<u>0</u>
FAC species	<u>24</u>	x 3 =	<u>72</u>
FACU species	<u>107</u>	x 4 =	<u>428</u>
UPL species	<u>0</u>	x 5 =	<u>0</u>
Column totals	<u>131</u>	(A)	<u>500</u> (B)

Prevalence Index = B/A = 3.82

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: 9

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

[illegible]

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

Depth (inches): 10

Hydric soil present? N

Remarks:

Fill pile

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Kolb Sports Center North City/County: Cedarburg/Ozaukee Sampling Date: May 17, 2023
 Applicant/Owner: Design 2 Construct State: WI Sampling Point: 10
 Investigator(s): 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: Martinton silt loam (MgA) NWI Classification: E3H
 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>1</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:	

VEGETATION - Use scientific names of plants

Sampling Point: 10

Tree Stratum	Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1 <i>Salix nigra</i>		20	Y	OBL
2 <i>Ulmus americana</i>		10	Y	FACW
3				
4				
5				
6				
7				
8				
9				
10				
		30	= Total Cover	

Sapling/Shrub Stratum	Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1 <i>Rhamnus cathartica</i>		10	Y	FAC
2 <i>Acer saccharinum</i>		5	Y	FACW
3 <i>Lonicera x bella</i>		5	Y	FACU
4 <i>Viburnum lentago</i>		3	N	FAC
5 <i>Fraxinus pennsylvanica</i>		2	N	FACW
6				
7				
8				
9				
10				
		25	= Total Cover	

Herb Stratum	Plot Size (5ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1 <i>Phalaris arundinacea</i>		85	Y	FACW
2 <i>Typha x glauca</i>		15	N	OBL
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

	20%	50%
Tree Stratum	6	15
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: 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 35 x 1 = 35
FACW species 102 x 2 = 204
FAC species 13 x 3 = 39
FACU species 5 x 4 = 20
UPL species 0 x 5 = 0
Column totals 155 (A) 298 (B)
Prevalence Index = B/A = 1.92

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)
Forested/emergent wetland.

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**		
0-10	10YR 3/1	95	10YR 3/6	5	C	PL/M	silty clay loam	
10-20	10YR 4/1	97	10YR 3/4	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? Y

Remarks:

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Kolb Sports Center North City/County: Cedarburg/Ozaukee Sampling Date: May 17, 2023
 Applicant/Owner: Design 2 Construct State: WI Sampling Point: 11
 Investigator(s): 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> 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 _____ 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>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 <i>Acer saccharinum</i>		5	Y	FACW
2				
3				
4				
5				
6				
7				
8				
9				
10				
		5	= Total Cover	

Sapling/Shrub Stratum	Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1 <i>Ribes americanum</i>		15	Y	FACW
2 <i>Rhamnus cathartica</i>		10	Y	FAC
3 <i>Fraxinus pennsylvanica</i>		1	N	FACW
4				
5				
6				
7				
8				
9				
10				
		26	= Total Cover	

Herb Stratum	Plot Size (5ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1 <i>Phalaris arundinacea</i>		100	Y	FACW
2 <i>Vitis riparia</i>		2	N	FAC
3 <i>Taraxacum officinale</i>		2	N	FACU
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
		104	= Total Cover	

Woody Vine Stratum	Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1 <i>Parthenocissus quinquefolia</i>		3		FACU
2				
3				
4				
5				
		3	= Total Cover	

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

Disturbed wet meadow.

50/20 Thresholds		
	20%	50%
Tree Stratum	1	3
Sapling/Shrub Stratum	5	13
Herb Stratum	21	52
Woody Vine Stratum	1	2

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	0 x 1 =	0
FACW species	121 x 2 =	242
FAC species	12 x 3 =	36
FACU species	5 x 4 =	20
UPL species	0 x 5 =	0
Column totals	138 (A)	298 (B)
Prevalence Index = B/A =		
		2.16

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**		
0-11	10YR 2/1	98	10YR 3/4	2	C	PL	silty clay loam	
11-20	10YR 4/1	88	10YR 4/6	2	C	PL	silty clay	
			10YR 6/4	10	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:

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Kolb Sports Center North City/County: Cedarburg/Ozaukee Sampling Date: May 17, 2023
 Applicant/Owner: Design 2 Construct State: WI Sampling Point: 12
 Investigator(s): K. Sherfinski Section, Township, Range: S21, T10N, R21E
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex
 Slope (%): 3 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 2 feet 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>Rhamnus cathartica</i>	20	Y	FAC
2	<i>Fraxinus pennsylvanica</i>	5	N	FACW
3	<i>Lonicera x bella</i>	5	N	FACU
4	<i>Viburnum opulus</i>	2	N	FACW
5	<i>Populus tremuloides</i>	2	N	FAC
6	<i>Cornus alba</i>	1	N	FACW
7				
8				
9				
10				
		35	= Total Cover	

Herb Stratum	Plot Size (5ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1	<i>Solidago altissima</i>	50	Y	FACU
2	<i>Poa pratensis</i>	50	Y	FACU
3	<i>Trifolium repens</i>	10	N	FACU
4	<i>Taraxacum officinale</i>	10	N	FACU
5	<i>Fragaria virginiana</i>	5	N	FACU
6	<i>Phalaris arundinacea</i>	3	N	FACW
7	<i>Arctium minus</i>	2	N	FACU
8				
9				
10				
11				
12				
13				
14				
15				
		130	= 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.

50/20 Thresholds

	20%	50%
Tree Stratum	0	0
Sapling/Shrub Stratum	7	18
Herb Stratum	26	65
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: 3 (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>11</u>	x 2 =	<u>22</u>
FAC species	<u>22</u>	x 3 =	<u>66</u>
FACU species	<u>132</u>	x 4 =	<u>528</u>
UPL species	<u>0</u>	x 5 =	<u>0</u>
Column totals	<u>165</u> (A)		<u>616</u> (B)

Prevalence Index = B/A = 3.73

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: 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**		
0-11	10YR 3/2	100					silty clay loam	
11-14	10YR 4/4	70					silty clay	
	10YR 3/2	30						

*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: Rubble fillDepth (inches): 14Hydric soil present? N

Remarks:

Refusal due to fill material

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Kolb Sports Center North City/County: Cedarburg/Ozaukee Sampling Date: May 17, 2023
 Applicant/Owner: Design 2 Construct State: WI Sampling Point: 13
 Investigator(s): K. Sherfinski Section, Township, Range: S21, T10N, R21E
 Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave
 Slope (%): 1-2 Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Martinton silt loam (MgA) 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:		

VEGETATION - Use scientific names of plants

Sampling Point: 13

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>Rhamnus cathartica</i>	5	Y	FAC
3	<i>Populus tremuloides</i>	2	N	FAC
4				
5				
6				
7				
8				
9				
10				
		17	= Total Cover	

Herb Stratum	Plot Size (5ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1	<i>Phalaris arundinacea</i>	30	Y	FACW
2	<i>Poa pratensis</i>	10	Y	FACU
3	<i>Eleocharis palustris</i>	10	Y	OBL
4	<i>Carex vulpinoidea</i>	5	N	OBL
5	<i>Taraxacum officinale</i>	5	N	FACU
6	<i>Trifolium repens</i>	5	N	FACU
7	<i>Barbarea vulgaris</i>	2	N	FAC
8	<i>Ribes americanum</i>	1	N	FACW
9				
10				
11				
12				
13				
14				
15				
		68	= 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	3	9
Woody Vine Stratum	14	34
	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: 5 (B)
 Percent of Dominant Species that are OBL, FACW, or FAC: 80.00% (A/B)

Prevalence Index Worksheet
 Total % Cover of:
 OBL species 15 x 1 = 15
 FACW species 41 x 2 = 82
 FAC species 9 x 3 = 27
 FACU species 20 x 4 = 80
 UPL species 0 x 5 = 0
 Column totals 85 (A) 204 (B)
 Prevalence Index = B/A = 2.40

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.

SOIL

Sampling Point: 13

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 3/1	97	10YR 3/4	3	C	PL	silty clay loam	
12-20	5Y 6/2	90	10YR 5/6	10	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)
☐ 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: Kolb Sports Center North City/County: Cedarburg/Ozaukee Sampling Date: May 17, 2023
 Applicant/Owner: Design 2 Construct State: WI Sampling Point: 14
 Investigator(s): K. Sherfinski Section, Township, Range: S21, T10N, R21E
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex
 Slope (%): 4-6 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 <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 higher than wetland.		

VEGETATION - Use scientific names of plants

Sampling Point: 14

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>	30	Y	FACU
2	<i>Solidago altissima</i>	10	Y	FACU
3	<i>Plantago major</i>	5	N	FACU
4	<i>Taraxacum officinale</i>	5	N	FACU
5	<i>Trifolium pratense</i>	5	N	FACU
6	<i>Dactylis glomerata</i>	5	N	FACU
7	<i>Daucus carota</i>	5	N	UPL
8	<i>Geum aleppicum</i>	2	N	FAC
9	<i>Leucanthemum vulgare</i>	2	N	UPL
10	<i>Taraxacum officinale</i>	2	N	FACU
11	<i>Oenothera biennis</i>	1	N	FACU
12				
13				
14				
15				
		72 = 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.

50/20 Thresholds

	20%	50%
Tree Stratum	0	0
Sapling/Shrub Stratum	0	0
Herb Stratum	14	36
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	2	x 3 =	6
FACU species	63	x 4 =	252
UPL species	7	x 5 =	35
Column totals	72	(A)	293 (B)
Prevalence Index = B/A =	4.07		

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: 14

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 3/3	100					silty clay loam	
7-12	10YR 3/4	95	10YR 3/6	5			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: Gravell fillDepth (inches): 12Hydric soil present? N

Remarks:

Refusal due to fill material

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Kolb Sports Center North City/County: Cedarburg/Ozaukee Sampling Date: May 17, 2023
 Applicant/Owner: Design 2 Construct State: WI Sampling Point: 15
 Investigator(s): 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: Martinton silt loam (MgA) NWI Classification: E3H
 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): <u>1</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: 15

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				
		103	= 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	21	52
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: 1 (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 101 x 2 = 202
 FAC species 0 x 3 = 0
 FACU species 2 x 4 = 8
 UPL species 0 x 5 = 0
 Column totals 103 (A) 210 (B)
 Prevalence Index = B/A = 2.04

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)
 Emergent wetland.

SOIL

Sampling Point: 15

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 3/1	100					silty clay loam	
6-20	10YR 4/1	95	10YR 3/4	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) | ☐ 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: Kolb Sports Center North City/County: Cedarburg/Ozaukee Sampling Date: May 17, 2023
 Applicant/Owner: Design 2 Construct State: WI Sampling Point: 16
 Investigator(s): 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: Ozaukee silt loam (OuB2) 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>12</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: 16

Tree Stratum	Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status
1 <i>Populus deltoides</i>		20	Y	FAC
2				
3				
4				
5				
6				
7				
8				
9				
10				
		20	= 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>Rhamnus cathartica</i>		10	Y	FAC
3 <i>Cornus obliqua</i>		5	N	FACW
4 <i>Salix petiolaris</i>		3	N	FACW
5				
6				
7				
8				
9				
10				
		28	= 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 <i>Poa pratensis</i>		5	N	FACU
4 <i>Cornus obliqua</i>		3	N	FACW
5 <i>Frangula alnus</i>		2	N	FAC
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	

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

Forested/emergent wetland.

50/20 Thresholds

	20%	50%
Tree Stratum	4	10
Sapling/Shrub Stratum	6	14
Herb Stratum	22	55
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>0</u>	x 1 =	<u>0</u>
FACW species	<u>121</u>	x 2 =	<u>242</u>
FAC species	<u>32</u>	x 3 =	<u>96</u>
FACU species	<u>5</u>	x 4 =	<u>20</u>
UPL species	<u>0</u>	x 5 =	<u>0</u>
Column totals	<u>158</u> (A)		<u>358</u> (B)

Prevalence Index = B/A = 2.27

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: 16

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 4/2	95	10YR 5/6	5	C	PL/M	silty clay loam	gravelly
6-20	10YR 5/2	10	10YR 4/6	10	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:

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Kolb Sports Center North City/County: Cedarburg/Ozaukee Sampling Date: May 17, 2023
 Applicant/Owner: Design 2 Construct State: WI Sampling Point: 17
 Investigator(s): K. Sherfinski Section, Township, Range: S21, T10N, R21E
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex
 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 1.5 feet higher than wetland.		

VEGETATION - Use scientific names of plants

Sampling Point: 17

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				
		123	= 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	25	62
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 2 x 2 = 4
FAC species 1 x 3 = 3
FACU species 120 x 4 = 480
UPL species 0 x 5 = 0
Column totals 123 (A) 487 (B)
Prevalence Index = B/A = 3.96

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:
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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: 17

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**		
0-10	10YR 3/2	100					silty clay loam	
10-20	10YR 4/4	95	10YR 4/6	5			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:

LEGAL DESCRIPTION:

LOT 1, CERTIFIED SURVEY MAP NO. 3997, BEING A PART OF THE NORTHWEST 1/4 OF SECTION 21, TOWNSHIP 10 NORTH, RANGE 21 EAST, IN THE TOWN OF CEDARBURG, OZAUKEE COUNTY, WISCONSIN.

CONTAINING: 10.900 ACRES/ 474,784 SQUARE FEET.

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NOTES

- SUBJECT PROPERTY ZONED: M-2, PLANNED INDUSTRIAL DISTRICT.
- SETBACKS BASED ON THE TOWN OF CEDARBURG OF OZAUKEE COUNTY ZONING CODE AND ARE AS FOLLOWS:
 - PRINCIPAL STRUCTURE: MAXIMUM TWO STORIES OR 35 FEET FOR RESIDENTIAL, ALL OTHER TYPES OF DEVELOPMENT MAXIMUM THREE STORIES OR 45 FEET.
 - ACCESSORY STRUCTURE: MAXIMUM ONE STORY OR 25 FEET.
 - YARD SETBACKS.
 - STREET: MINIMUM 25 FEET.
 - REAR: MINIMUM 30 FEET.
 - SIDE: MINIMUM 15 FEET.
- LEGAL DESCRIPTION BASED ON CERTIFIED SURVEY MAP NO. 3997.
- THE UNDERGROUND UTILITY INFORMATION AS SHOWN HEREON IS BASED, IN PART, ON INFORMATION FURNISHED BY THE UTILITY COMPANIES, DIGGERS HOTLINE AND THE LOCAL MUNICIPALITY. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, ITS ACCURACY AND COMPLETENESS CANNOT BE GUARANTEED NOR CERTIFIED TO.
- SUBJECT PROPERTY IS [ARE] LOCATED WITHIN AN AREA HAVING A ZONE DESIGNATION X: AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN, PER INFORMATION FROM THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), ON FLOOD INSURANCE RATE MAP NO. 55089C0159F, WITH A DATE OF IDENTIFICATION OF 12/4/2007, IN COMMUNITY NO. 550310, OZAUKEE COUNTY, WHICH IS THE COMMUNITY IN WHICH THE SUBJECT PROPERTY IS SITUATED.
- PROJECT BENCHMARK/SITE BENCHMARK - THE NORTHWEST CORNER OF THE NORTHWEST 1/4 OF SECTION 21-10-21 FOUND CONCRETE MONUMENT WITH CAP WITH AN ELEVATION OF 875.75.
- ELEVATIONS BASED ON INFORMATION FROM S.W.R.P.C. N.A.V.D. OF 1988(12)
- DUE TO SNOW AND ICE CONDITIONS AT TIME OF SURVEY, NOT ALL IMPROVEMENTS AND/OR PHYSICAL FEATURES MAY BE SHOWN.
- SURVEY DATUM: COORDINATES ARE BASED ON THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), OZAUKEE COUNTY, NORTH AMERICAN DATUM OF 1983, 2011 ADJUSTMENT (NAD83(2011)).

WETLAND EXHIBIT
FOR
CEDARBURG SPORTS FACILITY
8611 HWY 60
CEDARBURG, WI

DRAWN BY:	PJS	DATE:	6/15/2023
CHECKED BY:	CAJ	DRAWING No.	EC - 1
CSE Job No.:	22-111	SHEET	1 OF 1



LEGEND		
— SAN —	□ E	HYDRANT
— ST —	□ M	WATER VALVE
— W —	□ M	GAS VALVE
— G —	□ M	STORM MANHOLE
— TEL —	□ M	CATCH BASIN
— E —	□ M	GAS METER
— FD —	□ M	CURB INLET
— // —	□ M	UTILITY POLE
— CATV —	□ M	WOOD SIGN
— COMB —	□ M	METAL SIGN
— WOOD FENCE —	□ M	CONCRETE LIGHT POLE
— METAL FENCE —	□ M	WOOD LIGHT POLE
— EDGE OF TREES AND BRUSH —	□ M	MAIL BOX
— 84-32 05 —	□ M	FIBER OPTIC MARKER
— FIRE DEPARTMENT CONNECTION —	□ M	GUY WIRE

