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



April 3, 2023

Kristi Sherfinski, PLA Helianthus LLC. 247 W. Freshwater Way #210 Milwaukee, WI 53204

Subject: 2023 Assured Wetland Delineator Confirmation

Dear Ms. Sherfinski:

This letter provides Wisconsin Department of Natural Resources (WDNR) confirmation for the wetland delineations you conduct during the 2023 growing season. You and your clients will not need to wait for the WDNR to review your wetland delineations before moving forward with project planning. This will help expedite the review process for WDNR's wetland regulatory program. Your name and contact information will continue to be listed on our website at: http://dnr.wi.gov/topic/wetlands/assurance.html.

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

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

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

Sincerely,

B

Kara Brooks Wetland Identification Coordinator Bureau of Watershed Management

# WETLAND DELINEATION REPORT 600 & 700 Hoffmann Drive Watertown, WI 53094

For

# Harwood Engineering Consultants

255 North 21st Street

Milwaukee, WI 53233

PROJECT #: 23-198

December 1, 2023



1836 W. Fond Du Lac Ave., Suite 100 Milwaukee, Wisconsin – 53205

www.helianthusdesign.com



#### INTRODUCTION

The subject site is a 48.530-acre parcel located at 600 & 700 Hoffmann Drive in Watertown, WI 53094. The parcel is located in Section 8, Township 8 North, Range 15 East, in the City of Watertown, Jefferson County, Wisconsin. A map identifying the project location can be found in **FIGURE 1**. The closest waterbody to the site is the Rock River, which is located directly across the street and to the east of the project site.

The predominant land cover for this property is a former campus with a collection of buildings that have been recently demolished. The lawn areas have been left unmowed and the parking lots were still present. The purpose of the wetland delineation was to identify the existing wetlands on the property and to create a map of their boundaries. A map of the surveyed wetland boundary is found in **FIGURE 9**.

Kristi Sherfinski of HELIANTHUS conducted the wetland delineation field work on October 16, 2023. Field conditions on October 16 were partly cloudy with air temperatures in the 40s (°F). Growing season conditions as defined in the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (2010) and Northcentral and Northeast Region (2012) were documented at the site prior to beginning the delineation. Soil temperatures must be at or above 41°F at depth of 12 inches and at least two plant species must be emerging or breaking bud. On October 16<sup>th</sup>, soil temperatures were at 50°F at a depth of 12 inches. Green plant species with active growth American basswood, orchard grass, Kentucky bluegrass, and bull thistle.

Kristi Sherfinski is certified as an Assured Wetland Delineator with the Wisconsin Department of Natural Resources (WIDNR). 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. 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 business—HELIANTHUS.

#### 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 Regional Supplement was used.

Prior to the site visit, several sources of data are consulted to reveal information that will aid in locating the 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.

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 (2020). 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 and the depth of water, 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 Watertown WWTP weather station to determine if precipitation levels were normal 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.

Month	3 yrs in	3 yrs in	Rain	Condition	Condition	Month	Product
	10 Less	10 More	Fall	Dry, Wet,	Value	Weight	of
	Than	Than	(inches)	Normal		Value	Previous
	(inches)	(inches)					Two
							Columns
October	1.77	3.61	3.40	Normal	2	3	6
September	2.13	4.14	3.10	Normal	2	2	4
August	2.65	4.98	4.30	Normal	2	1	2
						Sum	12
If sum is:							
6-9	Then prior	Then prior period has been drier than normal					
10-14	Then prior period has been normal						
15-18	Then prior period has been wetter than normal						
Conclusions:	A	sum of 12 s	shows the p	prior period to	o the site visit	to be norm	nal.

#### Table 1 – Antecedent Hydrologic Condition Analysis

Note: Average rainfall data based on the years 1990-2020.

#### **Review of Existing Data Sources**

Existing data sources were reviewed to aid in the identification of wetland areas in the field.

The topographic map (**FIGURE 2**) shows that the property slopes towards the Rock River to the east. Elevations are at 830 feet above Mean Sea Level at its highest at the west end and 794 feet at its lowest on the east side. The slope is approximately 5% across the width of the property.

The soil survey map shows an area of Sebewa silt loam, a hydric soil type, along the west boundary at the top of the hill. A very tiny area of Fluvaquents, another hydric soil type, is



located in the southeast corner near Hoffmann Drive (**FIGURE 3 & FIGURE 4**). The Aztalan fine sandy loam may include a small amount of hydric soil types in depressions. There are two areas of Aztalan fine sandy loam near the south side of the parcel. All of the soil types occurring on the property are listed in **Table 2**.

Map Symbol	Map Unit Name	Hydric Soil Type
AzA	Aztalan fine sandy loam, 0-3%	Predominantly Non-hydric
ВрВ	Boyer sandy loam, 2-6%	Non-hydric
Fn	Fluvaquents	Hydric
GtB	Grellton fine sandy loam, 2-6%	Non-hydric
RtB	Rotamer loam, 2-6%	Non-hydric
RtC2	Rotamer loam, 6-12%, eroded	Non-hydric
Sn	Sebewa silt loam, clayey	Hydric
	substratum	
SoB	Sisson fine sandy loam, 2-6%	Non-hydric

Table 2 – Soil Types

The Wisconsin Wetland Inventory does not identify any wetlands within the project area (**FIGURE 5**). However, purple wetland indicator soils are shown in the areas of Sebewa and Aztalan soils; therefore, a wetland delineation was necessary.

The floodplain FEMA map (**FIGURE 6**) shows that a small amount of the 500-year floodplain crosses Hoffmann Drive and onto the eastern edge of the property. Most of the property is outside of the floodplain boundary.

Historic aerial photographs revealed that the subject property was either pasture and/or nursery land as of 1937 (**FIGURE 7**). By 1996, a campus with a collection of buildings and landscaping had been built on the property. The campus began to be demolished sometime around 2018. A fill area had been placed in the southwest corner of the property at that time as well. By 2020, most of the buildings had been removed, but the old roads and parking lots remained in place.

#### Wetlands Identified During the Site Visit

A total of three wetlands were identified on the property during the field visit. Site photos of the different wetlands are included in **FIGURE 8**. The acreages and types of wetlands that were identified and flagged in the project are shown in **FIGURE 9**. Field data sheets are included in **FIGURE 10**. A description of the wetland areas follows.

# Wetland A

This wetland is an emergent wetland in a depression that occurs in the area mapped as the hydric Sebewa silt loam. The fill pad that was constructed in the southwest corner of the



property may have trapped water in this area, making it wetter than it may have been previously. It was dominated by broad-leaf cattail and had an overstory of dead ash trees (#3). Soils met the hydric criteria for A12. Thick Dark Surface, F1. Loamy Mucky Mineral, and F6. Redox Dark Surface. Hydrology indicators included Geomorphic Position and FAC-Neutral Test. The adjacent upland point (#4) was approximately 1.5 feet in elevation higher than the wetland point and occurred in open woods. The dominant species were bur oak, white ash, green ash, burning bush, Kentucky bluegrass, and Canada thistle. Soil hydric indicators and wetland hydrology were lacking.

The south end of Wetland A was also sampled in an area that was scrub-shrub wetland. The dominant species (#8) were sandbar willow, Eastern cottonwood, reed canary grass, and Kentucky bluegrass. The soils met the hydric criteria for F6. Redox Dark Surface. Hydrology indicators included Drainage Patterns, Geomorphic Position, and FAC-Neutral Test. The upland point (#7) was taken on a convex hillslope about 12-18" above the wetland. The dominant species were mulberry and Kentucky bluegrass. Soils were non-hydric and hydrology was absent.

# Wetland B

This wetland is an emergent wetland pocket that receives runoff from an impervious area. The dominant vegetation (#10) included Eastern cottonwood, black willow, and broad-leaf cattail. There was a restrictive layer of gravel at four inches below the surface, but the soils met the criteria for F6. Redox Dark Surface. Hydrology indicators included Saturation, Geomorphic Position, and FAC-Neutral Test. The upland data point (#9) was taken on a gravel berm that was adjacent to the wetland and was also trapping water in the wetland. The dominant species on this berm were smooth sumac, wild lettuce, Canada thistle, and quackgrass. Hydric soils and wetland hydrology indicators were absent.

# Wetland C

This wetland is an emergent wetland in a swale that occurred along the south edge of the fill pad in the southwest corner of the parcel. The dominant vegetation (#5) included broad-leaf cattail. Hydric soil indicators for A11. Depleted Below Dark Surface, F3. Depleted Matrix, and F6. Redox Dark Surface were met. Hydrology indicators included Geomorphic Position and FAC-Neutral Test. The upland data point (#6) was taken on a hillslope that separated Wetland B from Wetland A. The dominant species were tall fescue and Kentucky bluegrass. The soils met the criteria for F6. Redox Dark Surface but hydrology indicators were lacking and the vegetation was upland in nature.

# Upland Data Points

Additional upland data points were sampled to verify lack of wetland elsewhere within the area of investigation.

Data point #1 was taken on a slight terrace in open woods where the lawn was allowed to go fallow. The dominant species were American basswood, silver maple, and quackgrass. The signs



of wetland hydrology included one secondary indicator for Geomorphic Position. However, the soils were non-hydric and the vegetation was upland in nature.

Data point #2 was taken in a depression next to an old parking lot. The dominant species was Kentucky bluegrass. The soils were a non-hydric layer of silty clay loam over gravel fill at 9 inches below the surface. Hydrology indicators were lacking aside from the one secondary indicator for Geomorphic Position.

Data point #11 was taken in a slight depression in an area mapped as Aztalan fine sandy loam. The vegetation consisted of planted prairie and was dominated by side oats grama grass and gray coneflower. The soils were non-hydric and consisted of gravel fill at 8 inches below the surface. Hydrology indicators were lacking aside from the one secondary indicator for Geomorphic Position.

Data point #12 was taken on a hillslope in an area mapped as Aztalan fine sandy loam. The vegetation consisted of a landscaped area and was dominated by white cedar, paper birch, Eastern cottonwood, and Kentucky bluegrass. The Prevalence Index was 3.76, indicating an upland plant community. The soils were non-hydric and signs of wetland hydrology were absent.

Data point #13 was taken on a hillslope in an open area. The vegetation consisted of old field and was dominated by Norway spruce, Austrian pine, green ash, and Kentucky bluegrass. The soils were non-hydric and consisted of gravel fill at 14 inches below the surface. Hydrology indicators were absent.

#### CONCLUSION

HELIANTHUS LLC identified wetlands on the project site on October 16, 2023, using the standard practices described in this report and their best professional judgment. 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 the 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 Wetland Delineator, obtaining a concurrence letter from the Wisconsin Department of Natural Resources is not necessary. It should be noted that all reports conducted by an Assured Delineator are required to be submitted to WDNR for their records, and may be subject to their review as part of an annual review process. Concurrence with these wetland lines by the U.S. Army Corps of Engineers, however, is not required. If a permit is applied for, the USACOE will review the wetland delineation report during the permit application process.



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.

Other environmental considerations include threatened or endangered species. It is recommended that an Endangered Resources (ER) Review request be submitted to the WDNR prior to pursuing any permits for proposed work.

Any impact, alteration, or fill to either the wetland areas or to waterways that are considered Waters of the U.S. are subject to state and federal regulations and permits may be required. The WDNR administers Chapters 30 and 281 of the Wisconsin State Statues, and the USACE administers Section 404 of the Clean Water Act. Additional county, city or village ordinances may also apply to wetlands or waterways. If any disturbance occurs on the property without obtaining wetland delineation concurrence or authorization from the USACE and WDNR, it should be considered at the owner's own risk and HELIANTHUS LLC shall not be considered responsible or liable for any resulting damages.



#### REFERENCES

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

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2000 FT





400 FT



Map Unit Symbol	Map Unit Name		主任	Y
AzA	Aztalan fine sandy loam, 0-3%	1 State and		
ВрВ	Boyer sandy loam, 2-6%		100 B	
Fn	Fluvaquents	P.P.	à	
GtB	Grellton fine sandy loam, 2-6%	Tak le	E	S. LE
RtB	Rotamer loam, 2-6%		Hell	AND DE
RtC2	Rotamer loam, 6-12%, eroded	AT A		
Sn	Sebewa silt loam, clayey substratum			10 2 1
SoB	Sisson fine sandy loam, 2-6%	Ricz		A
	Sn BpB	RIB SO		RockRiver

\_\_\_\_\_4

400 FT

# FIGURE 3. SOIL SURVEY MAP





\_\_\_\_\_ 500 FT

FIGURE 4. NRCS WISCONSIN SOILS MAP





500 FT

FIGURE 5. WWI MAP







FIGURE 6. FLOODPLAIN MAP





1996.

FIGURE 7. HISTORIC AERIAL PHOTOS

Source: Jefferson County GIS, and WHAI Finder, 2023





2005.

# FIGURE 7. HISTORIC AERIAL PHOTOS







# FIGURE 7. HISTORIC AERIAL PHOTOS





2015.

# FIGURE 7. HISTORIC AERIAL PHOTOS







# FIGURE 7. HISTORIC AERIAL PHOTOS





Open woods with lawn left fallow on former campus.



View of DP 1.





Planted prairie near west side of property.



DP 2.





Wetland A.



Wetland B.





Wetland C.



A view of the Rock River across the street to the east.





DP 11.



DP 12.





DP 13.



FIGURE 9. WETLAND BOUNDARY MAP







ADAMS GARDEN PARK 1836 W. FOND DU LAC AVE, SUITE 100 MILWAUKEE, WI 53204 www.healthyenvironmentsdesigned.com

CLIENT ADDRESS: HARWOOD ENGINEERING CONSULTANTS 255 NORTH 21st STREET MILWAUKEE, WI 53233 600 HOFFMANN DRIVE WATERTOWN, WI 53094

WETLAND BOUNDARY MAP



Drawn By	BJY
Project Number	23-198
Date	10-30-2023
Sheet	1.0
FIGURE	9



FIGURE 10. FIELD DATA SHEETS

Project/Site: H	Hoffman drive - Wa	atertown	_City/County:	Waterto	wn/Jef	ferso Sampling Date: 10/16/23	
Applicant/Owner	: Harwood		_	State:	WI	Sampling Point:	1
Investigator(s): k	<. Sherfinski			Section	, Town	ship, Range: <u>T8N R15E S8</u>	
Landform (hillslo	pe, terrace, etc.):	Terrace	Lo	cal relief	(conca	ve, convex, none): <u>flat</u>	
Slope (%): 1-2%	ےLat.:	Long.:		Dat	um:		
Soil Map Unit Na	am∈Sisson fine sar	idy loam (SoB)			NV	VI Classification: None	
Are climatic/hydr	ologic conditions of	of the site typical for this	s time of the year	? <u>Y</u>	(If	no, explain in remarks)	
Are vegetation	, soil	, or hydrology	significantl	y disturb	ed?	Are "normal	
Are vegetation	, soil	, or hydrology	naturally p	roblemati	c?	circumstances" present?	Yes
(If needed, expla	in any answers in	remarks)					

# SUMMARY OF FINDINGS

Hydrophytic vegetation present?       N         Hydric soil present?       N         Indicators of wetland hydrology present?       N	Is the sampled area within a wetland?N
Remarks: (Explain alternative procedures here or in a s	eparate report.)

#### HYDROLOGY

		Secondary Indicators (minimum of two	
Primary Indicators (minimum of one is req	uired; check all that apply)	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)	X 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 X Depth (inches):	Indicators of	
Water table present? Yes	No X Depth (inches):	wetland	
Saturation present? Yes	No X Depth (inches):	hydrology	
(includes capillary fringe)		present? N	
Describe recorded data (stream gauge, me	onitoring well, aerial photos, previous inspe	ctions), if available:	
Remarks:			

٦

VEGETATION - Use scientific names of plan	ts			Sampling Point: 1
				50/20 Thresholds
	Absolute	Dominant	Indicator	20% 50%
Tree Stratum Plot Size (30ft radius)	% Cover	Species	Status	Tree Stratum 10 25
1 Tilia americana	30	Y	FACU	Sapling/Shrub Stratum 0 1
2 Acer saccharinum	15	Y	FACW	Herb Stratum 22 55
3 Gleditsia triacanthos	5	N	FAC	Woody Vine Stratum 0 0
4				
5				Dominance Test Worksheet
6				Number of Dominant
7				Species that are OBL,
8				FACW, or FAC: <u>1</u> (A)
9				Total Number of Dominant
10				Species Across all Strata: <u>3</u> (B)
	50 =	= Total Cover		Percent of Dominant
				Species that are OBL,
Sapling/Shrub	Absolute	Dominant	Indicator	FACW, or FAC: 33.33% (A/B)
Stratum	% Cover	Species	Status	
1 Rhamnus cathartica	2		FAC	Prevalence Index Worksheet
2				Total % Cover of:
3				OBI species 0 x 1 = 0
4				EACW species $15 \times 2 = 30$
т 5				FAC species $16 \times 3 = 48$
6				$\frac{126}{504} = \frac{126}{504} \times 4 = \frac{504}{504}$
7				$\frac{120}{120} \times 4 = \frac{304}{20}$
8				$\begin{array}{c c} \text{Column totals} & \underline{161} & (\Lambda) & \underline{602} & (B) \end{array}$
9				$\frac{101}{\text{Prevalence Index = B/A = 3.74}}$
10				
	2	= Total Cover		
				Hydrophytic Vegetation Indicators:
	Absolute	Dominant	Indicator	Rapid test for hydrophytic vegetation
Herb Stratum Plot Size (5ft radius)	% Cover	Snecies	Status	Dominance test is >50%
1 Elymus repens	80	Y	FACU	Prevalence index is <3.0*
2 Dactylis glomerata	10	N	FACU	Morphological adaptations* (provide
3 Viola sororia	5	<u></u> N	FAC	supporting data in Remarks or on a
4 Frigeron annuus	3	N	FACU	separate sheet)
5 Symphyotrichum lateriflorum	2	N	FAC	Problematic hydrophytic vegetation*
6 Daucus carota	2	N		(explain)
7 Asclepias svriaca	2	N		*Indicators of hydric coil and watland hydrology must be
8 Hackelia virginiana	2	N	FACU	present, unless disturbed or problematic
9 Judans nigra		N	FACU	F · · · · · · · · · · · · · · · ·
10 Rumex crispus	1	N	FAC	Definitions of Vegetation Strata:
11 Celtis occidentalis	1	N	FAC	
12				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
13				breast height (DBH), regardless of height.
14				Sapling/shrub - Woody plants less than 3 in DBH and
15				greater than 3.28 ft (1 m) tall.
	109 =	Total Cover		
				Herb - All herbaceous (non-woody) plants, regardless of
Woody Vine	Absolute	Dominant	Indicator	size, and woody plants less than 3.28 ft tall.
Stratum	% Cover	Species	Status	Woody vines - All woody vines greater than 3 28 ft in
1				height.
2				
3				
4				Hydrophytic
5				vegetation
	0 =	= Total Cover		present? N
Remarks: (Include photo numbers here or on a sena	arate sheet)			1
Open woods				
Open woods.				

SOIL							Sa	mpling Point: 1
Profile Des	cription: (Descri	be to th	e depth needed t	o docu	ment the	indicato	or or confirm the absence	e of indicators.)
(Inches)	Color (moist)	%	Color (moist)	ox real %	ures Type*	L oc**	Texture	Remarks
0-11	10VR 2/2	100		70		100	Loam	
0-11	1011(2/2	100					Loam	
11-19	10YR 4/3	98	10YR 3/6	2	С	PI	Silty clay loam	
			101110,0	_			only only loan	
19-24	10YR 4/4	97	10YR 5/8	3	С	PL/M	Siltv clav	
		-		-			y	
*Type: C=C	Concentration, D	=Deplet	on, RM=Reduce	d Matri	x, CS=C	overed o	r Coated Sand Grains	
**Location:	PL=Pore Lining,	M=Mat	rix					
Hydric Soi	Indicators:						Indicators for Prot	plematic Hydric Soils:
Histosol (A1)       Polyvalue Below Surface       2 cm Muck (A10) (LRR K, L, MLRA 149B         Histic Epipedon (A2)       (S8) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       (LRR R, MLRA 149B       Dark Surface (S7) (LRR K, L         Stratified Layers (A5)       Loamy Mucky Mineral (F1)       Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)       Thin Dark Surface (S9) (LRR K, L, Polyvalue Below Surface (S9) (LRR K, L)         Sandy Mucky Mineral (S1)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 14S)         Sandy Redox (S5)       Depleted Dark Surface (F7)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)       Other (Explain in Remarks)         *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic       Polymatic or problematic						edox (A16) ( <b>LRR K, L, R</b> ) at or Peat (S3) ( <b>LRR K, L, R</b> ) S7) ( <b>LRR K, L</b> w Surface (S8) ( <b>LRR K, L</b> ) ace (S9) ( <b>LRR K, L</b> ) e Masses (F12) ( <b>LRR K, L, R</b> ) lplain Soils (F19) ( <b>MLRA 149B</b> ) TA6) ( <b>MLRA 144A, 145, 149B</b> ) terial (F21) ark Surface (TF12) n Remarks) roblematic		
Restrictive Type: Depth (inch Remarks: Soils 50	Restrictive Layer (if observed): Type: Depth (inches): Remarks: Soils 50° at 12"							

Project/Site: Hoffman Drive - Watertown	nCity/County:W	atertown/Jefferso Sam	pling Date: <u>10/16/2023</u>	3
Applicant/Owner: Harwood	St	ate: WI	Sampling Point:	2
Investigator(s): K. Sherfinski	Se	ction, Township, Ran	ge: T8N R15E S8	
Landform (hillslope, terrace, etc.): Depres	ssion Local	elief (concave, conve	x, none): concave	
Slope (%): 1-2% Lat.:	Long.:	Datum:		
Soil Map Unit Name Rotamer Ioam (RtB)		NWI Classif	ication: None	
Are climatic/hydrologic conditions of the sit	e typical for this time of the year?	Y (If no, explai	n in remarks)	
Are vegetation, soil, o	r hydrologysignificantly di	sturbed? Are	"normal	
Are vegetation , soil , o	r hydrology naturally probl	ematic? circu	umstances" present?	Yes
(If needed, explain any answers in remarks	s)			

# SUMMARY OF FINDINGS

Hydrophytic vegetation present?       N         Hydric soil present?       N         Indicators of wetland hydrology present?       N	Is the sampled area within a wetland? N
Remarks: (Explain alternative procedures here or in a se	eparate report.)

#### HYDROLOGY

		Secondary Indicators (minimum of two	
Primary Indicators (minimum of one is requ	uired; check all that apply)	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)	X 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 X Depth (inches):	Indicators of	
Water table present? Yes	No X Depth (inches):	wetland	
Saturation present? Yes	No X Depth (inches):	hydrology	
(includes capillary fringe)		present? N	
Describe recorded data (stream gauge, mo	onitoring well, aerial photos, previous inspe	ctions), if available:	
Remarks:			
Low spot near parking lot. Sewer in	nlet present nearby.		
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					50/00 Thread adda
Tree Stratum Plot Size	( 30ft radius )	Absolute % Cover	Dominant Species	Indicator Status	50/20 Inresholds20%50%Tree Stratum0Sapling/Shrub Stratum0Herb Stratum2358Woody Vine Stratum00
					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)
Sapling/Shrub Plot Size	( 30ft radius )	0 = Absolute	Total Cover	Indicator	Percent of Dominant Species that are OBL, FACW, or FAC: 0.00% (A/I
					Prevalence Index WorksheetTotal % Cover of:OBL species $0$ X 1 = $0$ FACW species $0$ X 2 = $0$ FAC species $0$ X 3 = $0$ FACU species $111$ X 4 = $444$ UPL species $5$ X 5 = $25$ Column totals $116$ (A) $469$ Prevalence Index = $B/A =$ $4.04$
Herb Stratum Plot Size Poa pratensis Elymus canadensis Bouteloua curtipendula Andropogon gerardii Monarda fistulosa	(5ft radius)	0 Absolute % Cover 95 10 5 5 1	Total Cover  Dominant Species Y N N N N N N	Indicator Status FACU FACU UPL FACU FACU	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 present, unless disturbed or problematic
					Definitions of Vegetation Strata:           Tree - Woody plants 3 in. (7.6 cm) or more in diameter           breast height (DBH), regardless of height.           Sapling/shrub - Woody plants less than 3 in. DBH ar           greater than 3.28 ft (1 m) tall.
Woody Vine Plot Size	(30ft radius )	116 Absolute % Cover	<ul> <li>Total Cover</li> <li>Dominant</li> <li>Species</li> </ul>	Indicator Status	<ul> <li>Herb - All herbaceous (non-woody) plants, regardless size, and woody plants less than 3.28 ft tall.</li> <li>Woody vines - All woody vines greater than 3.28 ft in height.</li> </ul>
5			= Total Cover		Hydrophytic vegetation present? N

SOIL							S	Sampling Point: 2
Profile Des	cription: (Descrit	ne to th	e denth needed i	to docu	ment the	indicato	or or confirm the absen	ace of indicators )
Depth	Matrix		Red	ox Feat	tures		Texture	Remarks
(Inches) 0-9	10YR 2/2	% 98	10YR 4/3	% 2	Type <sup>*</sup> C	LOC <sup>**</sup>	Silty clay loam	
					-		, ,	
*Type: C=C	Concentration, D=	Deplet	ion, RM=Reduce	d Matri	x, CS=C	overed o	r Coated Sand Grains	-
Hydric Soi	I Indicators:	w-wa	IIX				Indicators for Pro	oblematic Hydric Soils:
His His Bla Hyd Stra De Thi Sar Sar Sar Sar Stri Da 149 *Indicators	tosol (A1) tic Epipedon (A2 ck Histic (A3) drogen Sulfide (A atified Layers (A5 bleted Below Dar ck Dark Surface ndy Mucky Miner ndy Gleyed Matrix ndy Redox (S5) pped Matrix (S6) k Surface (S7) (I <b>B</b> ) of hydrophytic ve	) k Surfa (A12) al (S1) x (S4) <b>_RR R,</b> getatio d):	Poly (S8) Thir Loa ce (A11) (LR Loa Ce (A11) (LR Dep Rec Dep Rec MLRA	yvalue E ) (LRR n Dark S R R, M my Muc R K, L) my Gle oleted M dox Darl oleted D dox Dep	Below Su <b>R, MLR/</b> Surface ( <b>LRA 149</b> yed Matri yed Matri Natrix (F3 k Surfac park Surfac ressions y must b	urface <b>A 149B</b> ) (S9) <b>B</b> ral (F1) rix (F2) 8) e (F6) ace (F7) 5 (F8) e presen	2 cm Muck (A Coast Prairie 5 cm Mucky F Dark Surface Polyvalue Bel Thin Dark Sur Iron-Mangane Piedmont Floc Mesic Spodic Red Parent M Very Shallow Other (Explair t, unless disturbed or	10) ( <b>LRR K, L, MLRA 149B</b> Redox (A16) ( <b>LRR K, L, R</b> ) 'eat or Peat (S3) ( <b>LRR K, L, R</b> ) (S7) ( <b>LRR K, L</b> ow Surface (S8) ( <b>LRR K, L</b> ) face (S9) ( <b>LRR K, L</b> ) ise Masses (F12) ( <b>LRR K, L, R</b> ) odplain Soils (F19) ( <b>MLRA 149B</b> ) (TA6) ( <b>MLRA 144A, 145, 149B</b> ) laterial (F21) Dark Surface (TF12) in Remarks) problematic
Type: <u>G</u> Depth (inch	Gravel fill les): 9	u).			-		Hydric soil pres	ent? <u>N</u>
Remarks:								

Project/Site: Hoffman Drive - V	√atertown	City/County:	Waterto	wn/Jeffe	erso Sampling Date	10/16/202	3
Applicant/Owner: Harwood		_	State:	WI	Sampling F	Point:	3
Investigator(s): K. Sherfinski			Section	Townsl	hip, Range: T8N R	15E S8	
Landform (hillslope, terrace, etc.):	Depression	Lo	cal relief	(concave	e, convex, none):	concave	
Slope (%): 0-2% Lat.:	Long.:		Dat	um:			
Soil Map Unit Name Sebewa silt lo	am (Sn)			NW	I Classification: No	ne	
Are climatic/hydrologic conditions	of the site typical for this	time of the year	? Y	(lf n	io, explain in remarl	(s)	
Are vegetation, soil	, or hydrology	significantl	y disturbe	ed?	Are "normal		
Are vegetation , soil	, or hydrology	naturally p	roblemati	c?	circumstances'	' present?	Yes
(If needed, explain any answers ir	remarks)						

# SUMMARY OF FINDINGS

Hydrophytic vegetation present?       Y         Hydric soil present?       Y         Indicators of wetland hydrology present?       Y	Is the sampled area within a wetland? Y
Remarks: (Explain alternative procedures here or in a se	parate report.)

#### HYDROLOGY

		Secondary Indicators (minimum of two		
Primary Indicators (minimum of one is req	uired; check all that apply)	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)	X Geomorphic Position (D2)		
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)		
Sparsely Vegetated Concave	Other (Explain in Remarks)	X FAC-Neutral Test (D5)		
Surface (B8)	—	Microtopographic Relief (D4)		
		—		
Field Observations:				
Surface water present? Yes	No X Depth (inches):	Indicators of		
Water table present? Yes	No X Depth (inches):	wetland		
Saturation present? Yes	No X Depth (inches):	hydrology		
(includes capillary fringe)		present? Y		
Describe recorded data (stream gauge, me	onitoring well, aerial photos, previous inspe	ections), if available:		
Remarks:				
Remarks:				
Remarks:				

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	ic names of plat	lis			Sampling Point: 3
Tree Stratum Plot Size	( 30ft radius )	Absolute % Cover	Dominant Species	Indicator Status	50/20 Thresholds20%50%Tree Stratum0Sapling/Shrub Stratum0Herb Stratum20Voody Vine Stratum0
Saplina/Shrub			Total Cover		Dominance Test Worksheet         Number of Dominant         Species that are OBL,         FACW, or FAC:       1         Total Number of Dominant         Species Across all Strata:       1         Percent of Dominant         Species that are OBL,         FACW, or FAC:       100.00% (A/E
Stratum Plot Size	( 30ft radius )	% Cover	Species	Status	Trick, of the colspan="2">Total (New YorksheetTotal (% Cover of:OBL species90x 1 =90FACW species10x 2 =20FAC species2x 3 =6FACU species0x 4 =0UPL species0x 5 =0Column totals102(A)116Prevalence Index = B/A =1.14
Herb Stratum Plot Size Typha latifolia Phalaris arundinacea Persicaria maculosa	(5ft radius)	0 = Absolute % Cover 90 10 2 	<ul> <li>Total Cover</li> <li>Dominant</li> <li>Species</li> <li>Y</li> <li>N</li> <li>N</li> </ul>	Indicator Status OBL FACW FAC	Hydrophytic Vegetation Indicators:         Rapid test for hydrophytic vegetation         X       Dominance test is >50%         X       Prevalence index is <3.0*
Woody Vine Plot Size	( 30ft radius )	  Absolute % Cover	Total Cover Dominant Species	Indicator Status	<ul> <li>Tree - Woody plants 3 in. (7.6 cm) or more in diameter breast height (DBH), regardless of height.</li> <li>Sapling/shrub - Woody plants less than 3 in. DBH ar greater than 3.28 ft (1 m) tall.</li> <li>Herb - All herbaceous (non-woody) plants, regardless size, and woody plants less than 3.28 ft tall.</li> <li>Woody vines - All woody vines greater than 3.28 ft in height.</li> </ul>
5 5		0	= Total Cover		Hydrophytic vegetation present? Y

SOIL							5	Sampling Point: 3
							<b>6</b> (1)	
Profile Des	cription: (Descr Matrix	ibe to th	e depth needed	to docu	ment the	e indicato	or or confirm the absen	ice of indicators.)
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks
0-15	N 2.5/-	98	2.5Y 4/6	2	C	PL	Mucky clay loam	-
15-24	2.5Y 5/2	95	10YR 5/6	5	С	PL/M	Silty clay	
*Type: C=C	Concentration, D	=Deplet	ion, RM=Reduce	ed Matri	x, CS=C	overed c	or Coated Sand Grains	
Hydric Soi	PL=Pore Lining	, w=wa	unx				Indicators for Pr	oblematic Hydric Soils:
	i maloutoro.							
His	tosol (A1)		Poly	yvalue	Below Si	urface	2 cm Muck (A	.10) ( <b>LRR K, L, MLRA 149B</b>
His	tic Epipedon (A2	2)	(S8	) (LRR	R, MLR	A 149B)	Coast Prairie	Redox (A16) ( <b>LRR K, L, R</b> )
	drogen Sulfide (/	A4)	(LR	RR.M	LRA 149	(59) <b>3B</b>	Dark Surface	(S7) ( <b>LRR K. L</b>
Stra	atified Layers (A	.5)	Loa	my Mu	cky Mine	eral (F1)	Polyvalue Bel	ow Surface (S8) (LRR K, L)
De	oleted Below Da	irk Surfa	ace (A11 <u>X</u> (LR	R K, L	)		Thin Dark Sur	face (S9) ( <b>LRR K, L</b> )
X Thi	ck Dark Surface	e (A12) rol (S1)	Loa	my Gle	yed Mat	rix (F2)	Iron-Mangane	se Masses (F12) ( <b>LRR K, L, R</b> )
Sai	ndv Gleved Matr	ix (S4)	X Rec	lox Dar	k Surfac	e (F6)	Mesic Spodic	(TA6) ( <b>MLRA 144A, 145, 149B</b> )
Sai	ndy Redox (S5)	( )	Dep	oleted E	0ark Surf	ace (F7)	Red Parent M	aterial (F21)
Stri	pped Matrix (S6	;) (1		lox Dep	pressions	s (F8)	Very Shallow	Dark Surface (TF12)
Dal 149	rk Surrace (S7)	(LRR R,	, MLRA				Other (Explain	i in Remarks)
*Indicators	of hydrophytic v	egetatio	on and wetland hy	ydrolog	y must b	e presen	t, unless disturbed or	problematic
						. <u></u>		
Restrictive	l aver (if observ	ed).						
Туре:		ou).					Hydric soil pres	ent? Y
Depth (inch	les):				-			
Pomorko:								
A perce	nt organic soi	l test w	as not availab	le but	the cri	teria for	F1 were likely me	t due to high organic content
, i por oc	int organic coi			10, 104				
I								

Project/Site:	Hoffman Drive - Wa	atertown	_City/County:	Waterto	own/Jet	fferso Sampling Date	10/16/202	3
Applicant/Owne	er: Harwood		_	State:	WI	Sampling F	Point:	4
Investigator(s):	K. Sherfinski			Section	, Town	ship, Range: T8N R	15E S8	
Landform (hillsl	ope, terrace, etc.):	Hillslope	Lo	cal relief	(conca	ive, convex, none):	Convex	
Slope (%): 3%	Lat.:	Long.:		Dat	um:			
Soil Map Unit N	lam∈Sebewa silt loa	m (Sn)			N۱	WI Classification: No	ne	
Are climatic/hyd	drologic conditions o	f the site typical for this	s time of the year	? <u>Y</u>	(If	no, explain in remark	(s)	
Are vegetation	, soil	, or hydrology	significantl	y disturb	ed?	Are "normal		
Are vegetation	, soil	, or hydrology	naturally p	roblemat	ic?	circumstances'	' present?	Yes
(If needed, expl	ain any answers in	remarks)						

# SUMMARY OF FINDINGS

Hydrophytic vegetation present?       N         Hydric soil present?       N         Indicators of wetland hydrology present?       N	Is the sampled area within a wetland?N
Remarks: (Explain alternative procedures here or in a s	eparate report.)

# HYDROLOGY

		Secondary Indicators (minimum of two	
Primary Indicators (minimum of one is read	ired: check all that apply)	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 X Depth (inches):	Indicators of	
Water table present? Yes	No X Depth (inches):	wetland	
Saturation present? Yes	No X Depth (inches):	hydrology	
(includes capillary fringe)		present? N	
Describe recorded data (stream gauge, mo	onitoring well, aerial photos, previous inspe	ctions), if available:	
Remarks:			
Approximately 18 inches above the	e wetland.		

<b>GETATION</b> - Use scientific names of plan	nts			Sampling Point: 4
				50/20 Thresholds
roo Stratum Plat Size (20ft radius)	Absolute	Dominant	Indicator	20% 50%
ree stratum Flot Size (Solt radius)	% Cover	Species	Status	Tree Stratum 6 15
Quercus macrocarpa	20	Y	FACU	Sapling/Shrub Stratum 5 12
Fraxinus americana	10	Y	FACU	Herb Stratum 29 73
				Woody Vine Stratum 0 1
				Dominance Test Worksheet
				Number of Dominant
				Species that are OBL,
				FACW, or FAC: $1$ (A
				For the second s
	30	- Total Cover		Species Across an Strata. 0 (6
				Percent of Dominant
11 (O) I				Species that are OBL,
Plot Size ( 30ft radius )	Absolute	Dominant	Indicator	FACW, or FAC: $16.67\%$ (A
Stratum	% Cover	Species	Status	
Fraxinus pennsylvanica	10	Y	FACW	Prevalence Index Worksheet
Euonymus alatus	10	Y	UPL	Total % Cover of:
Rhamnus cathartica	3	N	FAC	OBL species x 1 = 0
				FACW species 10 x 2 = 20
				FAC species <u>5</u> x 3 = <u>15</u>
				FACU species <u>175</u> x 4 = 700
				UPL species $10 \times 5 = 50$
				Column totals 200 (A) 785 (E
				Prevalence Index = B/A = 3.93
		<del></del>		
	23	= Total Cover		Undraubutia Varatatian Indiastara
	Abaaluta	Dominant	Indiaator	Banid test for hydrophytic vegetation
erb Stratum Plot Size (5ft radius)	Absolute % Cover	Species	Status	Dominance test is >50%
Pop protensis	60	V		$\frac{1}{2} = \frac{1}{2} = \frac{1}$
Cirsium arvense	50	<u> </u>	FACU	Morphological adaptations* (provide
Glechoma hederacea	20	N	FACU	supporting data in Remarks or on a
Solidago altissima	10	N	FACU	separate sheet)
Quercus macrocarpa	5	N	FACU	Problematic hydrophytic vegetation*
				(explain)
				*Indicators of hydric soil and wetland hydrology mus
				present, unless disturbed or problematic
				Definitions of Vegetation Strata:
				Tree March strate 0 in (7.0 cm) company in diam
				breast beight (DBH) regardless of beight
				broadt height (BBH), regardlood of height.
				Sapling/shrub - Woody plants less than 3 in. DBH
				greater than 3.28 ft (1 m) tall.
	145 :	= Total Cover		Harb All berbasseus (non woody) plants, regardle
				size, and woody plants less than 3.28 ft tall
/oody Vine Plot Size ( 30ft radius )	Absolute	Dominant	Indicator	
Stratum	% Cover	Species	Status	Woody vines - All woody vines greater than 3.28 ft
Vitis riparia	2		FAC	height.
				Hydrophytic
				vegetation
	2	= Total Cover		present? N
narks: (Include photo numbers here or on a sep	arate sheet)			
narks: (Include photo numbers here or on a sepanet per woods.	arate sheet)			
narks: (Include photo numbers here or on a separt pen woods.	arate sheet)			
arks: (Include photo numbers here or on a sep pen woods.	arate sheet)			
arks: (Include photo numbers here or on a sep pen woods.	arate sheet)			

SOIL							S	ampling Point: 4
							C III	
Profile Des	cription: (Descri Matrix	be to th	e depth needed t	o docu	ment the	e indicato	r or confirm the absen	ce of indicators.)
(Inches)	Color (moist)	%	Color (moist)	%	Tvpe*	l oc**	Texture	Remarks
0-12	10YR 2/2	100			. , p =		Silty clay loam	
0.12	1011(2/2	100						
12-21	10YR 2/1	70					Silty clay loam	
	10YR 2/2	30					,,	
21-27	2.5Y 5/2	95	7.5YR 4/6	5	С	PL/M	Silty clay	
				-	_		, <u>,</u>	
*Type: C=C	concentration, D	Deplet	ion, RM=Reduce	d Matri	x, CS=C	overed o	r Coated Sand Grains	
**Location:	PL=Pore Lining,	M=Mat	rix					
Hydric Soi	I Indicators:						Indicators for Pro	oblematic Hydric Soils:
His His Bla Hyc Stra Dep Thi Sar Sar Sar Sar Sar Sar Sar Nar Nar Sar	tosol (A1) tic Epipedon (A2 ck Histic (A3) drogen Sulfide (A atified Layers (A3 oleted Below Dar ck Dark Surface ndy Mucky Miner ndy Gleyed Matri ndy Redox (S5) pped Matrix (S6) ck Surface (S7) ( <b>B</b> ) of hydrophytic ve Layer (if observe	2) 5) rk Surfa (A12) ral (S1) x (S4) ) LRR R, egetatio	Poly (S8) Thir Loa ce (A11) (LR Loa Dep Red MLRA n and wetland hy	value B (LRR Dark S R R, M my Muc R K, L) my Gle leted M ox Dar leted D lox Dep	Below Su <b>R, MLR</b> Surface ( <b>LRA 149</b> Cky Mine yed Matri Matrix (F3 k Surface Dark Surf Dark Surf pressions y must be	urface A 149B) (S9) BB aral (F1) rix (F2) B) e (F6) ace (F7) s (F8) e presen	2 cm Muck (A Coast Prairie F 5 cm Mucky P Dark Surface ( Polyvalue Belo Thin Dark Surf Iron-Manganes Piedmont Floo Mesic Spodic ( Red Parent Ma Very Shallow I Other (Explain t, unless disturbed or p	10) (LRR K, L, MLRA 149B Redox (A16) (LRR K, L, R) eat or Peat (S3) (LRR K, L, R) (S7) (LRR K, L bw Surface (S8) (LRR K, L) face (S9) (LRR K, L) se Masses (F12) (LRR K, L, R) dplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) aterial (F21) Dark Surface (TF12) in Remarks) problematic
Type: Depth (inch	es):				-		Hydric soil prese	ent? <u>N</u>

Project/Site: Hoffman	City/County:	Watertow	n/Jefferso Sampling Date	: 10/16/2023	3	
Applicant/Owner: Har	wood	_	State: V	/I Sampling F	oint:	5
Investigator(s): K. Sher	finski		Section,	Township, Range: T8N R	15E S8	
Landform (hillslope, terr	race, etc.): Swale	Loc	al relief (c	oncave, convex, none):	concave	
Slope (%): 0-2%	Lat.: Long.:		Datu	n:		
Soil Map Unit Name Azta	alan fine sandy loam (AzA)			NWI Classification: No	ne	
Are climatic/hydrologic	conditions of the site typical for this	time of the year	? <u>Y</u>	(If no, explain in remarl	ks)	
Are vegetation	, soil, or hydrology	significantly	y disturbed	? Are "normal		
Are vegetation	, soil , or hydrology	naturally pr	oblematic	? circumstances'	" present?	Yes
(If needed, explain any	answers in remarks)					

# SUMMARY OF FINDINGS

Hydrophytic vegetation present?       Y         Hydric soil present?       Y         Indicators of wetland hydrology present?       Y	Is the sampled area within a wetland? Y
Remarks: (Explain alternative procedures here or in a se	eparate report.)

#### HYDROLOGY

Primary Indicators (minimum of one is requ Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)	ired; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) X Geomorphic Position (D2) Shallow Aquitard (D3) X FAC-Neutral Test (D5) Microtopographic Relief (D4)
Field Observations:         Surface water present?       Yes         Water table present?       Yes         Saturation present?       Yes         (includes capillary fringe)    Describe recorded data (stream gauge, model)	No X Depth (inches): No X Depth (inches): No Depth (inches): At surface Depth (inches): At surface	Lindicators of wetland hydrology present? Y ctions), if available:
Remarks: A3. was not checked because the	water table was not located within the	e soil pit.

		)			Sampling Point: 5
Tree Stratum Plot Size(30ft	radius )	Absolute % Cover	Dominant Species	Indicator Status	50/20 Thresholds20%50%Tree Stratum0Sapling/Shrub Stratum0Herb Stratum25Woody Vine Stratum0
apling/Shrub		0 =	Total Cover	Indicator	Dominance Test Worksheet         Number of Dominant         Species that are OBL,         FACW, or FAC:       1         Total Number of Dominant         Species Across all Strata:       1         Percent of Dominant         Species that are OBL,         FACW, or FAC:       100.00% (A/E
Stratum Plot Size ( 30tt	radius )	% Cover	Species	Status	Prevalence Index WorksheetTotal % Cover of:OBL species $95$ X 2 = $24$ FAC species $3$ X 3 = $9$ FACU species $15$ X 4 = $60$ UPL species $0$ X 5 = $0$ Column totals $125$ (A) $188$ Prevalence Index = B/A = $1.50$
Herb Stratum Plot Size (5ft Typha latifolia Typha angustifolia Cirsium arvense Symphyotrichum lanceolatum Echinochloa crus-galli Solidago gigantea	radius )	0 = Absolute % Cover 80 15 15 10 3 2	Total Cover Dominant Species Y N N N N N N N N	Indicator Status OBL OBL FACU FACW FAC FACW	Hydrophytic Vegetation Indicators:         Rapid test for hydrophytic vegetation         X       Dominance test is >50%         X       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 l present, unless disturbed or problematic
Woody Vine Plot Size(30ft	radius )	125 = Absolute % Cover	Total Cover Dominant Species	Indicator Status	Definitions of Vegetation Strata:         Tree - Woody plants 3 in. (7.6 cm) or more in diameter         breast height (DBH), regardless of height.         Sapling/shrub - Woody plants less than 3 in. DBH ar         greater than 3.28 ft (1 m) tall.         Herb - All herbaceous (non-woody) plants, regardless         size, and woody plants less than 3.28 ft tall.         Woody vines - All woody vines greater than 3.28 ft in
			Total Cavar		Hydrophytic vegetation

SOIL							Sa	ampling Point: 5
Drofile Dec	ariation: (Decar	iha ta th	a douth uppeded	ta daaw	mant tha	indiaata	r or confirm the choice	of indicators)
Depth	Depth Matrix Redox Features				indicato			
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks
0-6	10YR 3/1	98	10YR 3/6	2	С	PL	Silty clay loam	
6-20	10YR 4/1	90	10YR 3/6	10	С	PL	Silty clay	
							0.114	
20-24	2.5Y 4/2	85	10YR 5/6	15	С	M	Silty clay	
<u> </u>								
	anoontration D	-Donloti	on BM-Boduco	d Motri			r Coated Sand Crains	
**Location:	PL=Pore Lining	-Depieu . M=Mat	ion, Rivi=Reduce rix	a wam	x, US=U	overed d	r Coaled Sand Grains	
Hydric Soi	I Indicators:	,					Indicators for Pro	blematic Hydric Soils:
1.8-	tl (A 4)		D-I		O.		2 am Music (Ad	
	tic Epipedon (A2	2)	(S8	) (LRR	R. MLR	anace A 149B)	Coast Prairie R	0) (LRR R, L, MLRA 1496 Redox (A16) (LRR K. L. R)
Bla	ck Histic (A3)	-,		n Dark S	Surface (	(S9)	5 cm Mucky Pe	eat or Peat (S3) (LRR K, L, R)
Hyd	drogen Sulfide (/	44)	(LR	RR, M	LRA 149	)B	Dark Surface (	S7) ( <b>LRR K, L</b>
	atified Layers (A	5) rk Surfa	Loa	my Muo	cky Mine	ral (F1)	Polyvalue Belo	w Surface (S8) (LRR K, L) ace (S9) (LRR K, L)
Thi	ck Dark Surface	(A12)	Loa	my Gle	, yed Matı	rix (F2)	Iron-Manganes	e Masses (F12) ( <b>LRR K, L, R</b> )
Sar	ndy Mucky Mine	ral (S1)	X Dep	pleted N	latrix (F3	3)	Piedmont Floor	dplain Soils (F19) ( <b>MLRA 149B</b> )
Sar	ndy Gleyed Matr	ix (S4)		lox Darl	k Surfac	e (F6)	Mesic Spodic (	TA6) ( <b>MLRA 144A, 145, 149B</b> )
Sar	pped Matrix (S6	)	Dep Rec	lox Dep	pressions	ace (F7) s (F8)	Verv Shallow D	Dark Surface (TF12)
Dai	k Surface (S7) (	, LRR R,	MLRA			( -7	Other (Explain	in Remarks)
149	)B) 						4	
"Indicators	of nyaropnytic v	egetatio	n and wetland ny	yarology	y must b	e presen	t, unless disturbed or p	rodiematic
Restrictive	Layer (if observe	ed):					Hydric soil prese	nt? ∨
Depth (inch	ies):				-			<u> </u>
					-			
Remarks:								

Project/Site: Hoffman Drive - Watertown			City/County:	Watertown/Jefferso Sampling Date: 10/16/23			
Applicant/Owne	r: Harwood		_	State:	WI	Sampling Point:	6
Investigator(s):	K. Sherfinski			Section	, Towi	nship, Range: T8N R15E S8	
Landform (hillslo	ope, terrace, etc.):	Hillslope	Lo	cal relief	(conca	ave, convex, none): Convex	
Slope (%): 2-39	% Lat.:	Long.:		Dat	um:		
Soil Map Unit N	ameAztalan fine s	andy loam (AzA)			N	WI Classification: None	
Are climatic/hyd	rologic conditions	of the site typical for this	s time of the yea	r? Y	(1	f no, explain in remarks)	
Are vegetation	, soil	, or hydrology	significant	ly disturb	ed?	Are "normal	
Are vegetation	, soil	, or hydrology	naturally p	oroblemat	ic?	circumstances" present?	Yes
(If needed, expla	ain any answers ir	remarks)					

# SUMMARY OF FINDINGS

Hydrophytic vegetation present? N Hydric soil present? Y	Is the sampled area within a wetland? N
Indicators of wetland hydrology present? N	If yes, optional wetland site ID:
Remarks: (Explain alternative procedures here or in a s	eparate report.)

#### HYDROLOGY

	Secondary Indicators (minimum of two		
Primary Indicators (minimum of one is rec	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 X Depth (inches):	Indicators of	
Water table present? Yes	No X Depth (inches):	wetland	
Saturation present? Yes	No X Depth (inches):	hydrology	
(includes capillary fringe)		present? N	
Describe recorded data (stream gauge, m	onitoring well, aerial photos, previous inspe	ections), if available:	
Remarks:			

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	113			Sampling Point: 6
ree Stratum Plot Size ( 30ft radius )	Absolute % Cover	Dominant Species	Indicator Status	50/20 Thresholds     20% 50%       Tree Stratum     0     0       Sapling/Shrub Stratum     0     0
				Herb Stratum 26 65 Woody Vine Stratum 0 0
				Dominance Test Worksheet Number of Dominant Species that are OBL
				FACW, or FAC: 0 (A) Total Number of Dominant
	0 =	Total Cover		Species Across all Strata: 2 (B) Percent of Dominant Species that are OBI
apling/Shrub Plot Size(30ft radius) Stratum	Absolute % Cover	Dominant Species	Indicator Status	FACW, or FAC: 0.00% (A/E
				Prevalence Index WorksheetTotal % Cover of:OBL species $0 \times 1 = 0$ FACW species $15 \times 2 = 30$ FAC species $0 \times 3 = 0$ FACU species $115 \times 4 = 460$ UPL species $0 \times 5 = 0$ Column totals $130$ (A)Prevalence Index = B/A = $3.77$
	0 =	Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum       Plot Size (5ft radius)         Lolium arundinaceum         Poa pratensis         Symphyotrichum pilosum         Phalaris arundinacea         Solidago altissima         Melilotus officinalis	Absolute % Cover 40 20 15 10 5	Dominant Species Y N N N N N	Indicator Status FACU FACU FACU FACW FACU FACU	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 present, unless disturbed or problematic
				Definitions of Vegetation Strata:
				<b>Tree</b> - Woody plants 3 in. (7.6 cm) or more in diameter breast height (DBH), regardless of height.
	130 :	= Total Cover		Sapling/shrub - Woody plants less than 3 in. DBH ar greater than 3.28 ft (1 m) tall.
Noody Vine Plot Size(30ft radius) Stratum	Absolute % Cover	Dominant Species	Indicator Status	Herb - All herbaceous (non-woody) plants, regardless size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height.
				Hydrophytic

SOIL							S	Sampling Point: 6
Drafile Daa		4- 41-				:		findington (
Depth	Matrix	be to th	e depth needed t Red	o docu ox Feat	ment the Tures	Indicato	or or confirm the abser	ice of Indicators.)
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks
0-5	10YR 2/1	78	10YR 4/6	2	C	PL	Silty clay loam	
	10YR 4/2	20						
								_
*Type: C=C	oncentration, D=	Deplet	ion, RM=Reduce	d Matri	x, CS=C	overed o	r Coated Sand Grains	
**Location:	PL=Pore Lining,	M=Mat	trix					
Hydric Soi	I Indicators:						Indicators for Pre	oblematic Hydric Soils:
Histosol (A1)       Polyvalue Below Surface         Histosol (A1)       Polyvalue Below Surface         Histosol (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 Dark Surface (F6)         Sandy Redox (S5)       Depleted Dark Surface (F7)         Stripped Matrix (S6)       Redox Depressions (F8)         Dark Surface (S7) (LRR R, MLRA         149B)         *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic							10) (LRR K, L, MLRA 149B Redox (A16) (LRR K, L, R) Peat or Peat (S3) (LRR K, L, R) (S7) (LRR K, L ow Surface (S8) (LRR K, L) face (S9) (LRR K, L) ese Masses (F12) (LRR K, L, R) odplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) laterial (F21) Dark Surface (TF12) n in Remarks) problematic	
Restrictive Type: <u>C</u> Depth (inch	Layer (if observe Gravel fill nes):5	:d):			-		Hydric soil pres	ent? <u>Y</u>
Remarks:								

Project/Site: Hoffman Drive - Watertown	City/County:	Watertow	n/Jefferso Sampling Date	: 10/16/23			
Applicant/Owner: Harwood		State: W	/I Sampling F	Point:	7		
Investigator(s): K. Sherfinski		Section, 7	ownship, Range: T8N R	15E S8			
Landform (hillslope, terrace, etc.): Hillslope	Lo	cal relief (c	oncave, convex, none):	Convex			
Slope (%): <u>3-4%</u> Lat.: Long.	:	Datur	n:				
Soil Map Unit NameBoyer sandy loam (BpB)			NWI Classification: No	ne			
Are climatic/hydrologic conditions of the site typical for this	s time of the year	? <u>Y</u>	(If no, explain in remar	ks)			
Are vegetation, soil, or hydrology	significantl	y disturbed	? Are "normal				
Are vegetation, soil, or hydrology	naturally p	roblematic	circumstances	" present?	Yes		
If needed, explain any answers in remarks)							

# SUMMARY OF FINDINGS

Hydrophytic vegetation present?       N         Hydric soil present?       N         Indicators of wetland hydrology present?       N	Is the sampled area within a wetland?N
Remarks: (Explain alternative procedures here or in a s	eparate report.)

# HYDROLOGY

		Secondary Indicators (minimum of two		
Primary Indicators (minimum of one is req	uired; check all that apply)	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)	Crayfish Burrows (C8)			
Drift Deposits (B3)	Saturation Visible on Aerial Imagery			
Algal Mat or Crust (B4)	(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 X Depth (inches):	Indicators of		
Water table present? Yes	No X Depth (inches):	wetland		
Saturation present? Yes	No X Depth (inches):	hydrology		
(includes capillary fringe)		present? N		
Describe recorded data (stream gauge, me	onitoring well, aerial photos, previous inspe	ctions), if available:		
Remarks:				
DP 7 is about 12-18" above wetlar	nd.			

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				Sampling Folint.
Tree Stratum Plot Size(30ft radius)	Absolute % Cover	Dominant Species	Indicator Status	50/20 Thresholds20%50%Tree Stratum0Sapling/Shrub Stratum13Herb Stratum42769Woody Vine Stratum0
Sapling/Shrub Plot Size(30ft radius)	0 Absolute	= Total Cover	Indicator Status	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/E)
Morus alba	<u>5</u>	Y	FACU	Prevalence Index WorksheetTotal % Cover of:OBL species $0 \times 1 = 0$ FACW species $0 \times 2 = 0$ FAC species $0 \times 3 = 0$ FACU species $110 \times 4 = 440$ UPL species $32 \times 5 = 160$ Column totals $142$ (A)Prevalence Index = B/A = 4.23
0     Herb Stratum     Plot Size (5ft radius)       1     Poa pratensis       2     Symphyotrichum pilosum       3     Bromus inermis       4     Plantago lanceolata       5     Daucus carota       6     Ratibida pinnata       7	5 Absolute % Cover 70 20 15 10 2 2	= Total Cover Dominant Species Y N N N N N N	Indicator Status FACU FACU UPL FACU UPL UPL	Hydrophytic Vegetation Indicators:         Rapid test for hydrophytic vegetation         Dominance test is >50%         Prevalence index is <3.0*
Woody Vine Plot Size(30ft radius )	 	Total Cover Dominant Species	Indicator Status	Definitions of Vegetation Strata:         Tree - Woody plants 3 in. (7.6 cm) or more in diameter         breast height (DBH), regardless of height.         Sapling/shrub - Woody plants less than 3 in. DBH an greater than 3.28 ft (1 m) tall.         Herb - All herbaceous (non-woody) plants, regardless size, and woody plants less than 3.28 ft tall.         Woody vines - All woody vines greater than 3.28 ft in height.
	0	Total Cover		Hydrophytic vegetation present? <u>N</u>

SOIL								Sampling Point: 7
Drofile Dec	ariation: (Deceri	ha ta th	a doubh noodad i	la daau	mont the	indiacto	r or confirm the check	una of indiantary )
Depth	Penth Matrix Redox Feature				ment the	Indicato	or or confirm the abse	
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks
0-14	10YR 2/2	100					Loam	
14-24	10YR 4/3	70					Clay loam	
	10YR 2/2	30						
*Type: C=C	Concentration, D	=Deplet	ion, RM=Reduce	d Matri	x, CS=C	overed o	r Coated Sand Grain	IS
**Location:	PL=Pore Lining,	M=Mat	rix		-			
Hydric Soi	I Indicators:						Indicators for P	roblematic Hydric Soils:
His His Bla Hyd Stra De Thi Sar Sar Sar Sar Sar Stri Da H4S	tic Epipedon (A2 ck Histic (A3) drogen Sulfide (A atified Layers (A bleted Below Da ck Dark Surface ndy Mucky Miner ndy Gleyed Matr ndy Redox (S5) pped Matrix (S6 ck Surface (S7) ( <b>DB</b> ) of hydrophytic ve	2) 5) rk Surfa (A12) ral (S1) ix (S4) ) LRR R, egetatio	(S8 (KR (LR Loa ce (A11) (LR Loa Dep Rec MLRA n and wetland hy	y drology	<b>R, MLRA</b> Surface ( <b>LRA 149</b> Cky Mine yed Matri Matrix (F3 k Surface bark Surface bark Surface bark Surface bark Surface bark Surface	A <b>149B</b> ) (S9) (B ral (F1) (ix (F2) (F2) (F2) (F2) (F3) (F3) (F8) (F8)	Coast Prairie 5 cm Mucky Dark Surface Polyvalue Be Thin Dark Su Iron-Mangan Piedmont Flo Mesic Spodio Red Parent N Very Shallow Other (Expla	<pre>kind (Link (L</pre>
Restrictive Type: Depth (inch	Layer (if observe les):	ed):			-		Hydric soil pre	sent? <u>N</u>
Remarks:								

Project/Site: Hoffma	an Drive - Watertown	City/County:	Watertowr	n/Jefferso Sampling Date	: 10/16/23	
Applicant/Owner: Ha	arwood		State: W	I Sampling F	Point:	8
Investigator(s): K. She	erfinksi		Section, T	ownship, Range: <u>T8N R</u>	15E S8	
Landform (hillslope, te	rrace, etc.): Swale	Loc	al relief (co	oncave, convex, none):	concave	
Slope (%): 0-2%	Lat.: Lor	ng.:	Datum	1:		
Soil Map Unit Name Az	ztalan fine sandy loam (AzA)			NWI Classification: No	one	
Are climatic/hydrologic	conditions of the site typical for	this time of the year	? <u>Y</u>	(If no, explain in remar	ks)	
Are vegetation	_, soil, or hydrology	significantly	/ disturbed'	? Are "normal		
Are vegetation	, soil, or hydrology	naturally pr	oblematic?	circumstances	" present?	Yes
(If needed, explain any	y answers in remarks)					

# SUMMARY OF FINDINGS

Hydrophytic vegetation present?       Y         Hydric soil present?       Y         Indicators of wetland hydrology present?       Y	Is the sampled area within a wetland? Y
Remarks: (Explain alternative procedures here or in a se	eparate report.)

#### HYDROLOGY

		Secondary Indicators (minimum of two		
Primary Indicators (minimum of one is req	uired; check all that apply)	required)		
Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)		
High Water Table (A2)	Aquatic Fauna (B13)	X 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)	X Geomorphic Position (D2)		
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)		
Sparsely Vegetated Concave	Other (Explain in Remarks)	X FAC-Neutral Test (D5)		
Surface (B8)		Microtopographic Relief (D4)		
Field Observations:				
Surface water present? Yes	No X Depth (inches):	Indicators of		
Water table present? Yes	No X Depth (inches):	wetland		
Saturation present? Yes	No X Depth (inches):	hydrology		
(includes capillary fringe)		present? Y		
Describe recorded data (stream gauge, me	onitoring well, aerial photos, previous inspe	ections), if available:		
		· ·		
Remarks:		,, , , , , , , , , , , , , , , , , , ,		
Remarks:		, , , , , , , , , , , , , , , , , , ,		
Remarks:				

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	e scientific	names of pla	nis			Sampling Point: 8
Tree Stratum	Plot Size (	30ft radius )	Absolute % Cover	Dominant Species	Indicator Status	50/20 Thresholds20%50%Tree Stratum0Sapling/Shrub Stratum923Herb Stratum2255Woody Vine Stratum0
						Dominance Test Worksheet         Number of Dominant         Species that are OBL,         FACW, or FAC:       3         Total Number of Dominant         Species Across all Strata:       4
Sapling/Shrub Stratum	Plot Size (	30ft radius )	0 = Absolute % Cover	Total Cover Dominant Species	Indicator Status	Percent of Dominant Species that are OBL, FACW, or FAC: <u>75.00%</u> (A/I
Salix interior Populus deltoide Salix nigra	"S		30 10 5 	Y Y N 	FACW FAC OBL	Prevalence Index WorksheetTotal % Cover of:OBL species $5 \times 1 = 5$ FACW species $110 \times 2 = 220$ FAC species $10 \times 3 = 30$ FACU species $30 \times 4 = 120$ UPL species $0 \times 5 = 0$ Column totals $155$ (A)Prevalence Index = B/A = 2.42
Herb Stratum Phalaris arundin. Poa pratensis Symphyotrichum Agrostis gigante.	Plot Size ( acea n lanceolatur a	5ft radius ) n	43 Absolute % Cover 60 30 15 5	Dominant Species Y N N N	Indicator Status FACW FACU FACW FACW	Hydrophytic Vegetation Indicators:         Rapid test for hydrophytic vegetation         X       Dominance test is >50%         X       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 present, unless disturbed or problematic
						Definitions of Vegetation Strata:           Tree - Woody plants 3 in. (7.6 cm) or more in diamet breast height (DBH), regardless of height.           Sapling/shrub - Woody plants less than 3 in. DBH a greater than 3.28 ft (1 m) tall.
Woody Vine Plot Size(30ft radius)	110 Absolute % Cover	Total Cover Dominant Species	Indicator Status	<ul> <li>Herb - All herbaceous (non-woody) plants, regardles size, and woody plants less than 3.28 ft tall.</li> <li>Woody vines - All woody vines greater than 3.28 ft in height.</li> </ul>		
3 4 5			0=	= Total Cover		Hydrophytic vegetation present? Y

SOIL							S	Sampling Point: 8
Drofile Doo	ariation: (Decor	iha ta th	a danth naadad	ta daau	mant tha	indiante	r or confirm the cheer	on of indicators )
Depth Matrix Redox Feat						Indicato	r or confirm the absen	ice of indicators.)
(Inches)	Color (moist)	%	Color (moist)	%	Tvpe*	l oc**	Texture	Remarks
0-6	10YR 3/2	100	•••••				Clay loam	
	101110/2	100					olay loan	
6-13	10VR 3/1	90	10YR 3/6	10	C	PI	Clay loam	
0.10	1011(0/1		101110/0	10	Ŭ		olay loan	
13-24	24 2.5Y 4/1 80 10YR 4/6 10 C		C	М	Clav			
10-24			IVI	Oldy	inclusions			
	1011(0/1	10						
*Type: C=C	Concentration D	=Depleti	ion RM=Reduce	d Matri	x CS=C	overed o	r Coated Sand Grains	
**Location:	PL=Pore Lining	. M=Mat	rix		x, 00 0			
Hydric Soi	I Indicators:	,					Indicators for Pro	oblematic Hydric Soils:
His His Bla Hyd Stri Dej Thi Sau Sau Sau Sau Stri Dau 149 *Indicators Restrictive Type: Depth (inch	tosol (A1) tic Epipedon (A2 ck Histic (A3) drogen Sulfide (/ atified Layers (A bleted Below Da ck Dark Surface ndy Mucky Mine ndy Gleyed Matri ndy Redox (S5) pped Matrix (S6 ck Surface (S7) ( BB) of hydrophytic v	2) 5) rk Surfa (A12) ral (S1) ix (S4) (LRR R, (LRR R, egetatio	Pol (S8 Thin Loa ce (A11) (LR Dep X Rec Dep MLRA	yvalue f ) (LRR n Dark S R R, M imy Muc R K, L) imy Gle bleted M dox Dari bleted D dox Dari bleted D dox Dep	Below Su <b>R, MLR/</b> Surface ( <b>LRA 149</b> Cky Mine yed Matri Matrix (F3 k Surfactor Cark Surf Dark Surf oressions y must be	urface <b>A 149B</b> ) (S9) <b>B</b> ral (F1) (F2) (F6) ace (F7) (F8) e presen	2 cm Muck (A Coast Prairie 5 cm Mucky P Dark Surface Polyvalue Bela Thin Dark Sur Iron-Mangane Piedmont Floo Mesic Spodic Red Parent M Very Shallow Other (Explair t, unless disturbed or Hydric soil prese	10) (LRR K, L, MLRA 149B Redox (A16) (LRR K, L, R) Peat or Peat (S3) (LRR K, L, R) (S7) (LRR K, L ow Surface (S8) (LRR K, L) face (S9) (LRR K, L) ese Masses (F12) (LRR K, L, R) odplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) aterial (F21) Dark Surface (TF12) n in Remarks) problematic

Project/Site:	Hoffman Drive - Wa	atertown	_City/County:	Waterto	own/Je	fferso Sampling Date:	10/16/23	
Applicant/Owned	er: Harwood		_	State:	WI	Sampling P	oint:	9
Investigator(s):	K. Sherfinski			Section	, Towr	nship, Range: T8N R1	15E S8	
Landform (hills	lope, terrace, etc.):	Berm	Lo	cal relief	(conca	ave, convex, none):	Convex	
Slope (%): 3%	Lat.:	Long.:		Dat	um:			
Soil Map Unit N	lam∈Aztalan fine sa	ndy loam (AzA)			N	WI Classification: Nor	ne	
Are climatic/hy	drologic conditions o	of the site typical for this	s time of the yea	r? Y	(If	<sup>f</sup> no, explain in remark	(s)	
Are vegetation	, soil	, or hydrology	significant	ly disturb	ed?	Are "normal		
Are vegetation	, soil	, or hydrology	naturally p	oroblemat	ic?	circumstances"	present?	Yes
(If needed, exp	lain any answers in	remarks)						

# SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	N N	Is the sampled area within a wetland?N
Indicators of wetland hydrology present?	N	If yes, optional wetland site ID:
Remarks: (Explain alternative procedures he	ere or in a se	eparate report.)

#### HYDROLOGY

		Secondary Indicators (minimum of two		
Primary Indicators (minimum of one is req	uired; check all that apply)	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)	Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Crayfish Burrows (C8)			
Drift Deposits (B3)	Saturation Visible on Aerial Imagery			
Algal Mat or Crust (B4)	(C9)			
Iron Deposits (B5)	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 X Depth (inches):	Indicators of		
Water table present? Yes	No X Depth (inches):	wetland		
Saturation present? Yes	No X Depth (inches):	hydrology		
(includes capillary fringe)		present? N		
Describe recorded data (stream gauge, m	onitoring well, aerial photos, previous inspe	ctions), if available:		
Remarks:				
Gravel berm is approximately thre	e feet tall.			
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<b>EGETATION</b> - Use scientific names of pla	ants			Sampling Point:	9
Tree Stratum Plot Size(30ft radius )	Absolute	Dominant	Indicator	50/20 Thresholds	0% 50%
	% Cover	Species	Status	Sapling/Shrub Stratum	0 0 5 13
				Herb Stratum	29 74
				Woody Vine Stratum	0 0
				Dominance Test Worksheet	
				Number of Dominant	
				Species that are OBL,	
				FACW, or FAC:	<u>1</u> (A)
				Total Number of Dominant	<b>(</b> )
		- Total Cover		Species Across all Strata:	<u>4</u> (B)
				Percent of Dominant	
en line / Chauth	Absolute	Deminant	Indiantan	Species that are OBL,	
Stratum Plot Size ( 30ft radius )	Absolute % Cover	Species	Status	FACW, of FAC: 2	<u>.5.00%</u> (A/E
		Species	Status		
Rhus glabra	15	<u> </u>		Prevalence Index Worksheet	1
Lactuca biennis	10	Y	FAC	Total % Cover of:	0
				OBL species $0 \times 1 =$	0
				FAC v species $0 \times 2 =$	51
			·	FAC species $17$ x 3 -	560
				$\frac{140}{12} \times 5 =$	75
				Column totals 172 (A)	686 (B)
	_			Prevalence Index = B/A =	3.99
	25	= Total Cover			
				Hydrophytic Vegetation India	cators:
Herb Stratum Plot Size (5ft radius	Absolute	Dominant	Indicator	Rapid test for hydrophytic	vegetation
	% Cover	Species	Status	Dominance test is >50%	
Cirsium arvense	70	<u>Y</u>	FACU	Prevalence index is ≤3.0*	
Elymus repens	25	<u>Y</u>	FACU	Morphological adaptations	* (provide
Sonchus arvensis		<u>N</u>	FACU	supporting data in Remark	s or on a
Ambrosia trifida	5	N	FACO EAC	Separate siteet)	agetation*
Taraxacum officinale	5	<u> </u>	FACU	(explain)	egetation
Vitis riparia	2	N	FAC	*Indicators of bydric soil and wetland h	avdrology must h
				present, unless disturbed or problema	tic
	_			Definitions of Vegetation Str	ata:
				breast height (DBH) regardless of hei	more in diamete ight
				,,	3
				Sapling/shrub - Woody plants less th	an 3 in. DBH an
		Tatal Osuar		greater than 3.28 ft (1 m) tall.	
	147	= Total Cover		Herb - All herbaceous (non-woody) pla	ants, regardless
Woody Vino	Abcoluto	Dominant	Indicator	size, and woody plants less than 3.28	ft tall.
Stratum Plot Size ( 30ft radius )	% Cover	Species	Status		
Statum		opecies	Status	Woody vines - All woody vines greater height	er than 3.28 ft in
				hoight	
				l hudron hudio	
				vegetation	
		= Total Cover		present? N	
				1	
marks: (Include photo numbers here or on a se	eparate sheet)				
marks: (Include photo numbers here or on a se	eparate sheet)				
marks: (Include photo numbers here or on a so Old field.	eparate sheet)				
marks: (Include photo numbers here or on a se Old field.	eparate sheet)				
marks: (Include photo numbers here or on a so Old field.	eparate sheet)				
marks: (Include photo numbers here or on a so Old field.	eparate sheet)				

SOIL							S	ampling Point: 9			
Profile Des	cription: (Descri	be to th	e depth needed	to docu	ment the	indicato	r or confirm the absen	ce of indicators.)			
Depth (Inchoo)	Matrix	0/	Red	lox Feat	tures	1.00**	Texture	Remarks			
		% 100	Color (moist)	%	Type	LOC	Silty clay loam	Gravelly			
0-9	10111 2/2	100					Silty Clay Idam	Graveny			
*Type: C=C	Concentration D	-Donlot	on RM=Reduce	d Matri		overed o	r Coated Sand Grains	_			
**Location:	PL=Pore Lining,	M=Mat	rix	u main	x, 00-00		Coaled Sand Grains				
Hydric Soi	I Indicators:						Indicators for Pro	oblematic Hydric Soils:			
His Bla Hyd Stra Del Thi Sar Sar Sar Sar Sar Stri Dal 149 *Indicators	tic Epipedon (A2 ck Histic (A3) drogen Sulfide (A atified Layers (A8 oleted Below Dar ck Dark Surface ndy Mucky Miner ndy Gleyed Matri ndy Redox (S5) pped Matrix (S6 ck Surface (S7) ( <b>DB</b> ) of hydrophytic ve	2) (A4) 5) rk Surfa (A12) al (S1) x (S4) ) LRR R, egetatio	(S8 Thin (LR Loa ce (A11'(LR Loa Dep Rec Rec MLRA n and wetland hy	) (LRR n Dark S R R, M imy Muc R K, L) imy Gle bleted M dox Darl bleted D dox Dep	R, MLRA Surface ( LRA 149 cky Mine yed Matr latrix (F3 k Surface park Surface park Surface park Surface park Surface	A 149B) S9) B ral (F1) ix (F2) ) ⇒ (F6) ace (F7) (F8) e presen	49B)       Coast Prairie Redox (A16) (LRR K, L, R)         1)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         1)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         1)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         10       Dark Surface (S7) (LRR K, L)         (F1)       Polyvalue Below Surface (S8) (LRR K, L)         (F2)       Iron-Manganese Masses (F12) (LRR K, L)         (F2)       Iron-Manganese Masses (F12) (LRR K, L, F)         Piedmont Floodplain Soils (F19) (MLRA 145, 149)         e (F7)       Red Parent Material (F21)         78)       Very Shallow Dark Surface (TF12)         0ther (Explain in Remarks)         oresent, unless disturbed or problematic				
Restrictive Type: <u>C</u> Depth (inch	Layer (if observe Gravel fill les):9	ed):			-		Hydric soil pres	ent? <u>N</u>			
Remarks:											

Project/Site:	Hoffman Drive - Wa	atertown	_City/County:	Waterto	wn/Je	efferso Sampling Date:	10/16/23	
Applicant/Owne	er: Harwood			State:	WI	Sampling P	oint:	10
Investigator(s):	K. Sherfinski			Section	, Towi	nship, Range: T8N R1	15E S8	
Landform (hills)	ope, terrace, etc.):	swale	Lc	cal relief	(conca	ave, convex, none):	concave	
Slope (%): 1-2	%Lat.:	Long.:		Dat	um:			
Soil Map Unit N	ame Aztalan fine sar	ndy loam (AzA)			N	IWI Classification: Nor	ne	
Are climatic/hyd	Irologic conditions o	f the site typical for this	s time of the yea	r? <u>Y</u>	(1	f no, explain in remark	(s)	
Are vegetation	, soil	, or hydrology	significant	ly disturb	ed?	Are "normal		
Are vegetation	, soil	, or hydrology	naturally p	roblemat	ic?	circumstances"	present?	Yes
(If needed, expl	ain any answers in I	remarks)						

# SUMMARY OF FINDINGS

Hydrophytic vegetation present?       Y         Hydric soil present?       Y         Indicators of wetland hydrology present?       Y	Is the sampled area within a wetland? Y
Remarks: (Explain alternative procedures here or in a se	eparate report.)

#### HYDROLOGY

	Secondary indicators (minimum of two
Primary Indicators (minimum of one is required; check all that apply)	required)
Surface Water (A1) Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2) Aquatic Fauna (B13)	Drainage Patterns (B10)
X 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)	(C9)
Iron Deposits (B5)	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial Soils (C6)	X Geomorphic Position (D2)
Imagery (B7) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Sparsely Vegetated Concave Other (Explain in Remarks)	X FAC-Neutral Test (D5)
Surface (B8)	Microtopographic Relief (D4)
Field Observations:	
Surface water present? Yes No X Depth (inches):	Indicators of
Water table present? Yes No X Depth (inches):	wetland
Saturation present? Yes X No Depth (inches): At surface	e hydrology
(includes capillary fringe)	present? Y
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspec	tions), if available:
Remarks:	
A restrictive layer is present so A3 is checked.	

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Absolute % Cover 0 Absolute % Cover 10 5 	Dominant Species	Indicator Status	50/20 Thresholds20%50%Tree Stratum00Sapling/Shrub Stratum38Herb Stratum3486Woody Vine Stratum00Dominance Test WorksheetNumber of DominantSpecies that are OBL,FACW, or FAC:3(A)Total Number of DominantSpecies Across all Strata:3Species Across all Strata:3(B)Percent of DominantSpecies that are OBL,FACW, or FAC:100.00%(A/I)Prevalence Index WorksheetTotal % Cover of:OBL species105x 1 =105FACW species60x 2 =120FAC species12x 3 =36FACU species10x 4 =40UPL species0x 5 =0Column totals187(A)301Morphological adaptations*(provideXPrevalence index is <3.0*Morphological adaptations* (providesupporting data in Remarks or on aseparate sheet)Problematic hydrophytic vegetation*
Absolute % Cover 0 Absolute % Cover 10 5 	Dominant Species	Indicator Status Indicator Status FAC OBL Indicator Status OBL FACW FACW FACW FACU FACU	20%50%Tree Stratum00Sapling/Shrub Stratum38Herb Stratum3486Woody Vine Stratum00Dominance Test WorksheetNumber of DominantSpecies that are OBL,FACW, or FAC:3Species Across all Strata:3Species Across all Strata:3Species that are OBL,FACW, or FAC:100.00%Percent of DominantSpecies that are OBL,FACW, or FAC:100.00%VorksheetTotal % Cover of:OBL species105X 1 =105FACW species60x 2 =120FAC species10X 4 =40UPL species0X 5 =0Column totals187IA)301Morphological adaptations*Morphological adaptations* (provide supporting data in Remarks or on a separate sheet)Problematic hydrophytic vegetation*
% Cover 0 Absolute % Cover 10 5 4 bsolute % Cover 90 25 20 10 10 10 10 5 20 10 10 5 20 10 10 5 20 10 10 5 2 2 2 2 2 2 2 2 2 2 2 2 2	Species	Status Status Indicator Status FAC OBL OBL Indicator Status OBL FACW FACW FACW FACU FACU FACW	Tree Stratum00Sapling/Shrub Stratum38Herb Stratum3486Woody Vine Stratum00Dominance Test WorksheetNumber of DominantSpecies that are OBL,FACW, or FAC:3Total Number of DominantSpecies Across all Strata:3Species that are OBL,FACW, or FAC:100.00%Percent of DominantSpecies that are OBL,FACW, or FAC:100.00%ValuePrevalence Index WorksheetTotal % Cover of:OBL species60X 2 =120FAC species10X 4 =40UPL species0X 5 =0Column totals187IA301Brevalence Index = B/A =1.61Hydrophytic Vegetation Indicators:Rapid test for hydrophytic vegetationXDominance test is >50%XPrevalence index is <3.0*
0 Absolute % Cover 10 5 4 5 20 10 10 10 5 20 10 10 5 20 10 10 5 20 10 10 5 20 10 10 5 20 10 10 5 2 2 2 2 2 2 2 2 2 2 2 2 2	<ul> <li>Total Cover</li> <li>Dominant Species</li> <li>Y</li> <li>Y</li> <li>One</li> <li>Total Cover</li> <li>Dominant Species</li> <li>Y</li> <li>N</li> </ul>	Indicator Status FAC OBL Indicator Status OBL FACW FACW FACW FACU FACU	Sapling/Shrub Stratum38Herb Stratum3486Woody Vine Stratum00Dominance Test WorksheetNumber of DominantSpecies that are OBL,FACW, or FAC:3(A)Total Number of DominantSpecies Across all Strata:3Species Across all Strata:3(B)Percent of DominantSpecies that are OBL,FACW, or FAC:100.00% (A/I)Prevalence Index WorksheetTotal % Cover of:OBL species105x 1 =105FACW species60x 2 =120FAC species12x 3 =36FACU species10x 4 =40UPL species0x 5 =0Column totals187(A)301IPrevalence Index = B/A =1.611.61Hydrophytic Vegetation Indicators:Rapid test for hydrophytic vegetationXDominance test is >50%XPrevalence index is ≤3.0*Morphological adaptations* (provide supporting data in Remarks or on a separate sheet)Problematic hydrophytic vegetation*
0 Absolute % Cover 10 5 15 Absolute % Cover 90 25 20 10 10 10 5 20 10 10 5 20	<ul> <li>Total Cover</li> <li>Dominant Species</li> <li>Y</li> <li>Y</li> <li>Y</li> <li>One</li> <li>Total Cover</li> <li>Dominant Species</li> <li>N</li> <li>N</li> <li>N</li> <li>N</li> <li>N</li> <li>N</li> <li>N</li> <li>N</li> <li>N</li> </ul>	Indicator Status FAC OBL Indicator Status OBL FACW FACW FACW FACU FACU	Herb Stratum3486Woody Vine Stratum00Dominance Test WorksheetNumber of DominantSpecies that are OBL,FACW, or FAC:3FACW, or FAC:3(A)Total Number of DominantSpecies Across all Strata:3Species Across all Strata:3(B)Percent of DominantSpecies that are OBL,FACW, or FAC:100.00%(A/I)Prevalence Index WorksheetTotal % Cover of:OBL species105x 1 =OBL species105x 2 =FACW species0x 5 =OClumn totals187(A)301(B)Prevalence Index = B/A =1.61Hydrophytic Vegetation Indicators:Rapid test for hydrophytic vegetationXDominance test is >50%XPrevalence index is ≤3.0*Morphological adaptations* (provide supporting data in Remarks or on a separate sheet)Problematic hydrophytic vegetation*
0 Absolute % Cover 10 5 15 Absolute % Cover 90 25 20 10 10 10 5 20 10 10 5 20 10 10 5 2	= Total Cover Dominant Species Y Y Y H H H H H H H H H H H H H H H H	Indicator Status FAC OBL Indicator Status OBL FACW FACW FACW FACU FACU	Woody Vine Stratum00Dominance Test WorksheetNumber of DominantSpecies that are OBL,FACW, or FAC:3Species that are OBL,FACW, or FAC:3Species Across all Strata:3Species Across all Strata:3Species that are OBL,FACW, or FAC:100.00%Percent of DominantSpecies that are OBL,FACW, or FAC:100.00%OBL species105X 1 =105FACW species105X 2 =120FAC species10X 4 =40UPL species0X 5 =0Column totals187IN301Brevalence Index = B/A =1.61Hydrophytic Vegetation Indicators:Rapid test for hydrophytic vegetationXDominance test is >50%XPrevalence index is ≤3.0*Morphological adaptations* (provide supporting data in Remarks or on a separate sheet)Problematic hydrophytic vegetation*
0 Absolute % Cover 10 5 10 5 20 10 10 10 10 5 20 10 10 10 5 20 10 10 5 20 10 10 5 2 2 2 2 2 2 2 2 2 2 2 2 2	<ul> <li>Total Cover</li> <li>Dominant Species</li> <li>Y</li> <li>Y</li> <li>Y</li> <li>Image: Species</li> <li>Y</li> <li>Image: Species</li> <li>N</li> </ul>	Indicator Status FAC OBL Indicator Status OBL FACW FACW FACW FACU FACU	Dominance Test WorksheetNumber of DominantSpecies that are OBL,FACW, or FAC:3 (A)Total Number of DominantSpecies Across all Strata:3 (B)Percent of DominantSpecies that are OBL,FACW, or FAC:100.00% (A/I)Prevalence Index WorksheetTotal % Cover of:OBL species105 x 1 = 105FACW species60 x 2 = 120FAC species12 x 3 = 36FACU species0 x 5 = 0Column totals187 (A) 301 (B)Prevalence Index = B/A = 1.61Hydrophytic Vegetation Indicators:Rapid test for hydrophytic vegetationXDominance test is >50%XPrevalence index is ≤3.0*Morphological adaptations* (provide supporting data in Remarks or on a separate sheet)Problematic hydrophytic vegetation*
0 Absolute % Cover 10 5 	<ul> <li>Total Cover</li> <li>Dominant Species</li> <li>Y</li> <li>Y</li> <li>Y</li> <li>Total Cover</li> <li>Dominant Species</li> <li>Y</li> <li>N</li> </ul>	Indicator Status FAC OBL Indicator Status OBL FACW FACW FACW FACU FACU	Dominance Test WorksheetNumber of DominantSpecies that are OBL,FACW, or FAC:3 (A)Total Number of DominantSpecies Across all Strata:3 (B)Percent of DominantSpecies that are OBL,FACW, or FAC:100.00% (A/I)Prevalence Index WorksheetTotal % Cover of:OBL species105 x 1 = 105FACW species60 x 2 = 120FAC species12 x 3 = 36FACU species0 x 5 = 0Column totals187 (A) 301 (B)Prevalence Index = B/A = 1.61Hydrophytic Vegetation Indicators: Rapid test for hydrophytic vegetation X Dominance test is >50%XPrevalence index is ≤3.0*Morphological adaptations* (provide supporting data in Remarks or on a separate sheet) Problematic hydrophytic vegetation*
0 Absolute % Cover 10 5 	<ul> <li>Total Cover</li> <li>Dominant Species</li> <li>Y</li> <li>Y</li> <li>Y</li> <li>One</li> </ul>	Indicator Status FAC OBL Indicator Status OBL FACW FACW FACU FACU FACU	Number of Dominant Species that are OBL, FACW, or FAC:3(A)Total Number of Dominant Species Across all Strata:3(B)Percent of Dominant Species that are OBL, FACW, or FAC:100.00%(A/I)Prevalence Index Worksheet Total % Cover of: OBL species105x 1 =105FACW species60x 2 =120FAC species12x 3 =36FACU species0x 5 =0Column totals187(A)301UPL species0x 5 =0Column totals187(A)301Morphological adaptations* supporting data in Remarks or on a separate sheet) Problematic hydrophytic vegetation*
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0 Absolute % Cover 10 5 	= Total Cover Dominant Species Y Y 	Indicator Status FAC OBL Indicator Status OBL FACW FACW FACU FACU FACU	FACW, or FAC:3(A)Total Number of DominantSpecies Across all Strata:3(B)Percent of DominantSpecies that are OBL,FACW, or FAC:100.00% (A/I)Prevalence Index WorksheetTotal % Cover of:0BL species105x 1 =105FACW species105x 1 =105FACW species10x 4 =40UPL species0x 5 =0Column totals187(A)301(B)Prevalence Index = B/A =1.611.611.611.611.61
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Absolute % Cover 10 5 	Dominant Species Y Y = Total Cover Dominant Species Y N N N N N	Indicator Status FAC OBL	Species that are OBL, FACW, or FAC: 100.00% (A/ Prevalence Index Worksheet Total % Cover of: OBL species 105 x 1 = 105 FACW species 60 x 2 = 120 FAC species 12 x 3 = 36 FACU species 0 x 5 = 0 Column totals 187 (A) 301 (B) Prevalence Index = B/A = 1.61 Hydrophytic Vegetation Indicators: Rapid test for hydrophytic vegetation X Dominance test is >50% X Prevalence index is $\leq 3.0^*$ Morphological adaptations* (provide supporting data in Remarks or on a separate sheet) Problematic hydrophytic vegetation*
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15 Absolute % Cover 90 25 20 10 10 10 5 2	= Total Cover Dominant Species Y N N N N N N	Indicator Status OBL FACW FACW FACU FACU FACU	Column totals       187       (A)       301       (B)         Prevalence Index = B/A =       1.61         Hydrophytic Vegetation Indicators:         Rapid test for hydrophytic vegetation         X       Dominance test is >50%         X       Prevalence index is ≤3.0*         Morphological adaptations* (provide supporting data in Remarks or on a separate sheet)         Problematic hydrophytic vegetation*
15 Absolute % Cover 90 25 20 10 10 10 5 2	= Total Cover Dominant Species Y N N N N N N	Indicator Status OBL FACW FACW FACU FACU FACU	Prevalence Index = B/A = <u>1.61</u> Hydrophytic Vegetation Indicators: Rapid test for hydrophytic vegetation X Dominance test is >50% X Prevalence index is ≤3.0* Morphological adaptations* (provide supporting data in Remarks or on a separate sheet) Problematic hydrophytic vegetation*
15 Absolute % Cover 90 25 20 10 10 10 5 2	Total Cover Dominant Species Y N N N N N N N N	Indicator Status OBL FACW FACW FACU FACU FACU	Hydrophytic Vegetation Indicators:         Rapid test for hydrophytic vegetation         X       Dominance test is >50%         X       Prevalence index is ≤3.0*         Morphological adaptations* (provide supporting data in Remarks or on a separate sheet)         Problematic hydrophytic vegetation*
15 Absolute % Cover 90 25 20 10 10 10 5 2	= Total Cover Dominant Species Y N N N N N N N N	Indicator Status OBL FACW FACW FACU FACU	Hydrophytic Vegetation Indicators:         Rapid test for hydrophytic vegetation         X       Dominance test is >50%         X       Prevalence index is ≤3.0*         Morphological adaptations* (provide supporting data in Remarks or on a separate sheet)         Problematic hydrophytic vegetation*
Absolute % Cover 90 25 20 10 10 10 5 2	Dominant Species Y N N N N	Indicator Status OBL FACW FACW FACU FACU	Hydrophytic Vegetation Indicators:         Rapid test for hydrophytic vegetation         X         Dominance test is >50%         X         Prevalence index is ≤3.0*         Morphological adaptations* (provide supporting data in Remarks or on a separate sheet)         Problematic hydrophytic vegetation*
Absolute % Cover 90 25 20 10 10 10 5 2	Dominant Species Y N N N N N	Indicator Status OBL FACW FACW FACU FACU	Rapid test for hydrophytic vegetation X Dominance test is >50% X Prevalence index is ≤3.0* Morphological adaptations* (provide supporting data in Remarks or on a separate sheet) Problematic hydrophytic vegetation*
% Cover 90 25 20 10 10 10 5 2	Species Y N N N N N	Status OBL FACW FACW FACU FACU	X       Dominance test is >50%         X       Prevalence index is ≤3.0*         Morphological adaptations* (provide supporting data in Remarks or on a separate sheet)         Problematic hydrophytic vegetation*
90 25 20 10 10 10 5 2	Y N N N N	OBL FACW FACW FACU FACU	X Prevalence index is ≤3.0* Morphological adaptations* (provide supporting data in Remarks or on a separate sheet) Problematic hydrophytic vegetation*
25 20 10 10 10 5 2	N N N N N	FACW FACW FACU FACW	Morphological adaptations* (provide supporting data in Remarks or on a separate sheet) Problematic hydrophytic vegetation*
20 10 10 10 5 2	N N N N	FACW FACU FACW	supporting data in Remarks or on a separate sheet) Problematic hydrophytic vegetation*
10 10 10 5 2	N N N	FACU FACW	separate sheet) Problematic hydrophytic vegetation*
10 10 5 2	N	FACW	Problematic hydrophytic vegetation*
10 5 2	N		
5 2		OBL	(explain)
2	N	FACW	*Indicators of hydric soil and wetland hydrology must
	N	FAC	present, unless disturbed or problematic
			F, F
			Definitions of Vegetation Strata:
			Tree - Woody plants 3 in. (7.6 cm) or more in diameter
			breast height (DBH), regardless of height.
			Sanling/shrub - Woody plants less than 3 in DBH at
			greater than 3.28 ft (1 m) tall.
172 :	= Total Cover		
			Herb - All herbaceous (non-woody) plants, regardless
Absolute	Dominant	Indicator	size, and woody plants less than 3.28 ft tall.
% Cover	Species	Status	Woody vines - All woody vines greater than 3 28 ft in
			height.
			Hydrophytic
			vegetation
0	= Total Cover		present? Y
te sheet)			
to oncory			
-	172 Absolute % Cover 0 te sheet)	172       = Total Cover         Absolute       Dominant         % Cover       Species	172       = Total Cover         Absolute       Dominant       Indicator         % Cover       Species       Status

SOIL								Sampling Point:	10
							_		
Profile Des	cription: (Descril	be to th	e depth needed	to docu	ment the	e indicato	or or confirm the abse	ence of indicators.)	
(Inches)	Color (moist)	%	Color (moist)	0X Fea	Tvpe*	Loc**	Texture	Rema	arks
0-4	10YR 3/1	98	10YR 3/6	2	C	PL	Sandy clay loam		
				ļ					
								<u> </u>	
*Type: C=C	Concentration, D=	Deplet	ion, RM=Reduce	d Matri	x, CS=C	overed o	or Coated Sand Grair	IS	
Hvdric Soi	Indicators:	IVI-IVIA	uix				Indicators for P	Problematic Hydric !	Soils:
	i maloatoro.								
His	tosol (A1)		Poly	yvalue l	Below Su	urface	2 cm Muck (	(A10) ( <b>LRR K, L, ML</b>	RA 149B
His Bla	tic Epipedon (A2	)	(S8	) ( <b>LRR</b> ) Dark '	R, MLR/ Surface (	A 149B)	5 cm Mucky	e Redox (A16) (LRR Peat or Peat (S3) (L	K, L, R) RRKIR)
Hye	drogen Sulfide (A	4)	(LR	R R, M	LRA 149	)B	Dark Surface	e (S7) ( <b>LRR K, L</b>	, ב, וגי
Str	atified Layers (As	5)	Loa	my Mu	cky Mine	ral (F1)	Polyvalue Be	elow Surface (S8) (L	RR K, L)
De	pleted Below Dar	k Surfa	ace (A11)( <b>LR</b>	RK,L)	) Wod Mot		Thin Dark S	urface (S9) ( <b>LRR K,</b>	L)
Sa	ok Dark Surface	(A1Z) al (S1)	Loa	ny Gie bleted N	atrix (F3	1x (r∠) 3)	Piedmont Fl	oodplain Soils (F12)	(MLRA 149B)
Sa	ndy Gleyed Matri	x (S4)	X Rec	lox Dar	k Surfac	e (F6)	Mesic Spodi	ic (TA6) ( <b>MLRA 144</b> /	A, 145, 149B)
Sa	ndy Redox (S5)			leted D	ark Surf	ace (F7)	Red Parent	Material (F21)	
Str	ipped Matrix (S6) rk Surface (S7) (I			lox Dep	pressions	s (F8)	Very Shallov	<i>w</i> Dark Surface (TF12	2)
149	<b>9B</b> )								
*Indicators	of hydrophytic ve	egetatio	on and wetland hy	/drolog	y must b	e presen	it, unless disturbed o	r problematic	
Restrictive	Laver (if observe	d):							
Туре: С	Gravel fill	,					Hydric soil pre	sent? Y	
Depth (inch	nes): 4				_				
Remarks <sup>.</sup>									
A restrie	ctive layer is pr	esent	at four inches						
	, , ,								
L									

Project/Site:	Hoffman Drive - Wa	atertown	City/County:	Waterte	own/Jef	ferso Sampling Date:	10/16/23	
Applicant/Owne	r: Harwood		_	State:	WI	Sampling P	oint:	11
Investigator(s):	K. Sherfinski			Sectior	, Towns	ship, Range: T8N R1	15E S8	
Landform (hillslo	ope, terrace, etc.):	Depression	Lo	cal relief	(concav	ve, convex, none):	concave	
Slope (%): 1-2%	6 Lat.:	Long.:		Da	um:			
Soil Map Unit Na	ameAztalan fine sa	ndy loam (AzA)			NV	VI Classification: Nor	ne	
Are climatic/hyd	rologic conditions o	f the site typical for this	s time of the yea	? Y	(lf	no, explain in remark	(s)	
Are vegetation	, soil	, or hydrology	significant	y disturb	ed?	Are "normal		
Are vegetation	, soil	, or hydrology	naturally p	roblemat	ic?	circumstances"	present?	Yes
(If needed, expla	ain any answers in	remarks)						

# SUMMARY OF FINDINGS

Hydrophytic vegetation present?NHydric soil present?NIndicators of wetland hydrology present?N	Is the sampled area within a wetland?N
Remarks: (Explain alternative procedures here or in a s	eparate report.)

#### HYDROLOGY

		Secondary Indicators (minimum of two
Primary Indicators (minimum of one is req	uired; check all that apply)	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)	X 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 X Depth (inches):	Indicators of
Water table present? Yes	No X Depth (inches):	wetland
Saturation present? Yes	No X Depth (inches):	hydrology
(includes capillary fringe)		present? N
Describe recorded data (stream gauge, m	onitoring well, aerial photos, previous inspe	ections), if available:
Remarks:		
Sewer drain nearby		

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Tree Stratum       Plot Size ( 30ft radius )       Absolute % Cover       Dominant Species       Indicator Status       Solute Species         1	Thresholds     20%     50%       itratum     0     0       g/Shrub Stratum     0     0
2	-
Image: Section of the section of th	Stratum 30 75 y Vine Stratum 0 0
Image: Second Stratum       Image: Second Str	tance Test Worksheet er of Dominant es that are OBI
0       = Total Cover       Species         Sapling/Shrub       Plot Size ( 30ft radius )       Absolute       Dominant       Indicator         Stratum       Plot Size ( 30ft radius )       Absolute       Dominant       Indicator         Stratum       —       —       —       Total         O       =       Total Cover       FACU         FACU       —       —       —       —         O       =       Total Cover       FACU       UPL         Solidago rigida       75       Y       UPL       M         Sorghastrum nutans       10       N       FACU       Preva         Solidago rigida       10       N       FACU       Preva         Solidago rigida       10       N       FACU       Preva         Monarda fistulosa       3       N       FACU       Preva         Monarda fistulosa       1       N       UPL       Preva	, or FAC: 0 (A) Number of Dominant
Sapling/Shrub Stratum       Plot Size ( 30ft radius )       Absolute % Cover       Dominant Species       Indicator       FACV	es Across all Strata. <u>2</u> (B) nt of Dominant es that are OBL,
Image: Second	', or FAC: <u>0.00%</u> (A/I
0       = Total Cover         Herb Stratum       Plot Size (5ft radius)         Bouteloua curtipendula       75         75       Y       UPL         Ratibida pinnata       30       Y       UPL         Bouteloua curtipendula       75       Y       UPL         Ratibida pinnata       30       Y       UPL       M         Elymus canadensis       15       N       FACU       Status         Solidago rigida       10       N       UPL       Status         Andropogon gerardii       5       N       FACU       Prindicat         Asclepias tuberosa       1       N       UPL       Status       Status         Monarda fistulosa       3       N       FACU       Prindicat         Monarda fistulosa       1       N       UPL       Status         Monarda fistulosa       1       N       UPL       *Indicat         Monarda fistulosa       1       N       UPL       *Indicat         Monarda fistulosa       1       N       UPL       *Indicat         Monarda fistulosa       1       N       UPL       breast         Monarda fistulosa       1       N       UP	lence Index Worksheet 6 Cover of: pecies 0 x 1 = 0 yecies 0 x 2 = 0 species 33 x 4 = 132 pecies 116 x 5 = 580 n totals 149 (A) 712 (B) ence Index = $B/A = 4.78$
Herb Stratum       Plot Size (5ft radius)       Absolute % Cover       Dominant Species       Indicator Status       R D         Bouteloua curtipendula       75       Y       UPL       Pl         Ratibida pinnata       30       Y       UPL       M         Elymus canadensis       15       N       FACU       Superior         Solidago rigida       10       N       UPL       Superior         Andropogon gerardii       5       N       FACU       Pl         Andropogon gerardii       5       N       FACU       Pl         Monarda fistulosa       3       N       FACU       "Indicator         Solepias tuberosa       1       N       UPL       "Indicator         Monarda fistulosa       3       N       FACU       "Indicator         Monarda fistulosa       1       N       UPL       "Indicator         Machine       Machine       Machine       Machine       Machine       Machine </td <td>nhutic Vagetation Indicators</td>	nhutic Vagetation Indicators
Defin Tree - breast Sapling greater	privice vegetation indicators: ipid test for hydrophytic vegetation iminance test is >50% evalence index is <3.0* orphological adaptations* (provide pporting data in Remarks or on a parate sheet) oblematic hydrophytic vegetation* kplain) ors of hydric soil and wetland hydrology must unless disturbed or problematic
Tree - 1 breast i Sapling greater	tions of Vegetation Strata:
Saplin greater	Voody plants 3 in. (7.6 cm) or more in diamete eight (DBH), regardless of height.
149 - Total Cover Herb -	/snrub - Woody plants less than 3 in. DBH ar than 3.28 ft (1 m) tall. All herbaceous (non-woody) plants, regardles;
Woody Vine Stratum     Plot Size (30ft radius)     Absolute % Cover     Dominant Species     Indicator     size, ar       Woody height.	d woody plants less than 3.28 ft tall. <b>vines</b> - All woody vines greater than 3.28 ft ir
	/drophytic
<u>0</u> = Total Cover pr	getation esent? <u>N</u>

SOIL								Sampling Point: 11		
							с. н. I.			
Profile Des	cription: (Descri Matrix	be to th	e depth needed	to docul	ment the	Indicato	or or confirm the abse	ence of indicators.)		
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks		
0-7	10YR 3/2	100	- ( )				Silty clay loam			
7-8	10YR 4/4	100					Sandy clay loam			
								<u> </u>		
*Type: C=C	oncentration. D	=Deplet	on. RM=Reduce	d Matrix	x. CS=C	overed o	r Coated Sand Grain	15		
**Location:	PL=Pore Lining,	M=Mat	rix		,					
Hydric Soi	Indicators:						Indicators for P	roblematic Hydric Soils:		
His His Bla Hyo Stra De Thi Sar Sar Sar Sar Sar Stri Da 149	tic Epipedon (A2 ck Histic (A3) drogen Sulfide ( <i>A</i> atified Layers (A bleted Below Da ck Dark Surface ndy Mucky Miner ndy Gleyed Matr ndy Redox (S5) pped Matrix (S6 k Surface (S7) ( <b>B</b> ) of hydrophytic ve	2) 5) rk Surfa (A12) ral (S1) ix (S4) ) LRR R, egetatio	(S8 (Interpret of the second	Polyvalue Below Surface       2 cm Muck (A10) (LRR K, L, MLRA 149B         (S8) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Thin Dark Surface (S9)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         (LRR R, MLRA 149B       Dark Surface (S7) (LRR K, L         Loamy Mucky Mineral (F1)       Polyvalue Below Surface (S8) (LRR K, L)         (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Loamy Gleyed Matrix (F2)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 149B         Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B         Depleted Dark Surface (F7)       Red Parent Material (F21)         Very Shallow Dark Surface (TF12)       Other (Explain in Remarks)         etland hydrology must be present, unless disturbed or problematic       Poblematic						
Restrictive Type: <u>C</u> Depth (inch Remarks:	Layer (if observe Gravel fill es):8	ed):			-		Hydric soil pre	sent? <u>N</u>		
Gravel	ïll, multiple att	empts								

Project/Site:	Hoffman Drive - W	atertown	City/County:	Waterte	own/Je	fferso Sampling Date:	10/16/23	
Applicant/Owne	r: Harwood		_	State:	WI	Sampling Po	oint:	12
Investigator(s):	K. Sherfinski			Section	, Town	nship, Range: T8N R1	5E S8	
Landform (hillslo	ope, terrace, etc.):	Hillslope	Lo	cal relief	(conca	ave, convex, none):	convex	
Slope (%): 3-59	% Lat.:	Long.:		Dat	um:	-		
Soil Map Unit N	am∈Aztalan fine sa	ndy loam (AzA)			N١	WI Classification: Non	e	
Are climatic/hyd	rologic conditions of	of the site typical for this	time of the year	? Y	(If	no, explain in remarks	s)	
Are vegetation	, soil	, or hydrology	significant	y disturb	ed?	Are "normal		
Are vegetation	, soil	, or hydrology	naturally p	roblemat	ic?	circumstances"	present?	Yes
(If needed, expla	ain any answers in	remarks)						

# SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	N N	Is the sampled area within a wetland? N
Indicators of wetland hydrology present?	<u> </u>	If yes, optional wetland site ID:
Remarks: (Explain alternative procedures h	ere or in a se	eparate report.)

#### HYDROLOGY

		Secondary Indicators (minimum of two		
Primary Indicators (minimum of one is requ	required)			
Surface Water (A1)	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) FAC-Neutral Test (D5)		
Sparsely Vegetated Concave	Other (Explain in Remarks)			
Surface (B8)		Microtopographic Relief (D4)		
Field Observations:				
Surface water present? Yes	No X Depth (inches):	Indicators of		
Water table present? Yes	No X Depth (inches):	wetland		
Saturation present? Yes	No X Depth (inches):	hydrology		
(includes capillary fringe)		present? N		
Describe recorded data (stream gauge, mo	nitoring well, aerial photos, previous inspe	ctions), if available:		
Remarks:				

<b>EGETATION</b> - Use scientific names of plan	ts			Sampling Point:	12
				50/20 Thresholds	
	Absolute	Dominant	Indicator	20% 50	0%
Tree Stratum Plot Size (30ft radius)	% Cover	Species	Status	Tree Stratum 16	40
1 Thuja occidentalis	30	Ý	FACW	Sapling/Shrub Stratum 2	5
2 Betula papyrifera	30	Y	FACU	Herb Stratum 23 5	59
Pinus nigra	10	N		Woody Vine Stratum 0	0
1 Pices abies	10	<u> </u>			0
	10			Dominanco Tost Workshoot	
)				Number of Deminent	
				Number of Dominant	
				Species that are OBL,	( • )
				FACW, OF FAC: 2	(A)
				Total Number of Dominant	-
				Species Across all Strata: 4	(B)
	80 =	= Total Cover		Percent of Dominant	
				Species that are OBL,	
Sapling/Shrub	Absolute	Dominant	Indicator	FACW. or FAC: 50.00%	(A/B
Stratum Plot Size ( 30ft radius )	% Cover	Species	Status		_(,
		opeoleo			
Populus deltoides	10	Y	FAC	Prevalence Index Worksheet	
				Total % Cover of:	
				OBL species 0 x 1 = 0	
				FACW species $30 \times 2 = 60$	-
				FAC species $10 \times 3 = 30$	-
				$FACIL species = \frac{147}{17} \times 4 = \frac{588}{588}$	-
				$\frac{1}{100}$	-
				$\begin{array}{c c} \text{OFL species} & 20 & \text{X} & \text{S} & - & 100 \\ \hline \text{Column totals} & - & 207 & (A) & - & 779 \\ \hline \end{array}$	- (D)
				Column totals $207$ (A) $778$	- <sup>(B)</sup>
				Prevalence index = $B/A = 3.76$	-
	10 =	= Total Cover			
				Hydrophytic Vegetation Indicators:	
Horb Stratum Plot Size ( 5ft radius )	Absolute	Dominant	Indicator	Rapid test for hydrophytic vegetation	on
Helb Stratum Flot Size (Sit radius)	% Cover	Species	Status	Dominance test is >50%	
Poa pratensis	80	Y	FACU	Prevalence index is ≤3.0*	
2 Lolium arundinaceum	15	N	FACU	Morphological adaptations* (provid	de
B Plantago lanceolata	10	N	FACU	supporting data in Remarks or on	a
	10	N	FACU	separate sheet)	u
	2	N	EACU	Broblomatic bydrophytic vogetation	n*
Arcuum minus	2	IN	TACO		
				*Indicators of hydric soil and wetland hydrology	must b
3				present, unless disturbed or problematic	
				Definitions of Vegetation Strata:	
				The sublements Q is (7.0 such as more in di	
				Free - woody plants 3 in. (7.6 cm) or more in dia	ameter
				breast height (DBH), regardless of height.	
				Sapling/shrub - Woody plants less than 3 in D	BH and
				greater than 3.28 ft (1 m) tall.	Diran
	117	= Total Cover		g	
				Herb - All herbaceous (non-woody) plants, rega	rdless
Maadu Vina	Abaaluta	Deminant	Indiantan	size, and woody plants less than 3.28 ft tall.	
Plot Size ( 30ft radius )	Absolute	Dominant	Indicator		
Stratum	% Cover	Species	Status	Woody vines - All woody vines greater than 3.2	8 ft in
				height.	
				Hydrophytic	
		<u></u>		vegetation	
	0	= Total Cover		present? N	
				<u> </u>	
marks: (Include photo numbers here or on a sepa	arate sheet)				
Landscaped area.	-				

SOIL								Sampling Point: 12	
Drofilo Doo	orintion: (Dopori	ha ta th	a dapth paadad i	to doou	mont the	indiaata	or or confirm the char	anas of indicators )	
Depth	Matrix	be lo ln	Redox Features			Indicato	or or confirm the abse		
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks	
0-12	10YR 2/1	100					Silty clay loam		
12-24	10YR 4/4	70					Sandy clay loam		
	10YR 2/1	30							
*Type: C=C	Concentration D	-Denlet	ion RM=Reduce	d Matri	x CS=C	overed o	r Coated Sand Grain		
**Location:	PL=Pore Lining,	M=Mat	rix		, 00°0.				
Hydric Soi	I Indicators:						Indicators for P	Problematic Hydric Soils:	
Histosol (A1)       Polyvalue Below Surface       2 cm Muck (A10) (LRR K, L, MLRA 149B         Histic Epipedon (A2)       (S8) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Stratified Layers (A5)       Loamy Mucky Mineral (F1)       Dark Surface (S7) (LRR K, L)         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)       Sandy Mucky Mineral (S1)         Sandy Mucky Mineral (S1)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 1449B)         Sandy Redox (S5)       Depleted Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Stripped Matrix (S6)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         Other (Explain in Remarks)       Other (Explain in Remarks)       Other (Explain in Remarks)         *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic       Hydric soil present?       N									
Remarks:									

Project/Site: Hoffman Drive - Watertown		City/County:	Watertown/Jefferso Sampling Date: 10/16/2			16/23		
Applicant/Owner:	Harwood		_	State:	WI	Sampling Point:	: '	13
Investigator(s): K.	Sherfinski	Section, Township, Range: T8N R15E S8						
Landform (hillslope	e, terrace, etc.):	Hillslope	Lo	cal relief	(conc	ave, convex, none): <u>con</u>	ivex	
Slope (%): 4-6%	Lat.:	Long.:		Dat	um:			
Soil Map Unit Nam	ie (SoB)				Ν	IWI Classification: None		
Are climatic/hydrol	ogic conditions o	f the site typical for this	s time of the year	? Y	(	lf no, explain in remarks)		
Are vegetation	, soil	, or hydrology	significantl	y disturb	ed?	Are "normal		
Are vegetation	, soil	, or hydrology	naturally p	roblemat	ic?	circumstances" pres	sent?	Yes
(If needed, explain	any answers in r	emarks)						

# SUMMARY OF FINDINGS

Hydrophytic vegetation present?       N         Hydric soil present?       N         Indicators of wetland hydrology present?       N	Is the sampled area within a wetland?N
Remarks: (Explain alternative procedures here or in a se	eparate report.)

#### HYDROLOGY

		Secondary Indicators (minimum of two		
Primary Indicators (minimum of one is rec	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 X Depth (inches):	Indicators of		
Water table present? Yes	No X Depth (inches):	wetland		
Saturation present? Yes	No X Depth (inches):	hydrology		
(includes capillary fringe)		present? N		
Describe recorded data (stream gauge, m	ionitoring well, aerial photos, previous insp	ections), if available:		
Remarks:				
Remarks:				
Remarks:				

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EGETATION - Use scientific names of plan	ts			Sampling Point: 13
				50/20 Thresholds
Tree Stratum Plot Size ( 30ft radius )	Absolute	Dominant	Indicator	20% 50%
Thee Stratum Plot Size ( Soft Tadius )	% Cover	Species	Status	Tree Stratum 3 9
Picea abies	10	Y	UPL	Sapling/Shrub Stratum 1 3
Pinus nigra	5	Y	UPL	Herb Stratum 27 69
Malus pumila	2	Ν	UPL	Woody Vine Stratum 0 0
•				
				Dominance Test Worksheet
				Number of Dominant
				Species that are OBL,
				FACW, or FAC: 1 (A)
				Total Number of Dominant
				Species Across all Strata: 4 (B)
	17 :	<ul> <li>Total Cover</li> </ul>		Percent of Dominant
				Species that are OBI
Sapling/Shrub	Absolute	Dominant	Indicator	EACW or EAC: $25.00\%$ (A)
Stratum Plot Size ( 30ft radius )	% Cover	Snecies	Status	
	-	opecies	Glatus	-
Fraxinus pennsylvanica	5	Y	FACW	Prevalence Index Worksheet
				Total % Cover of:
				OBL species 0 x 1 = 0
				FACW species 9 x 2 = 18
				FAC species $2 \times 3 = 6$
				FACU species 126 x 4 = 504
				UPL species 22 x 5 = 110
				Column totals 159 (A) 638 (B)
				Prevalence Index = $B/A = 4.01$
	5 :	<ul> <li>Total Cover</li> </ul>		
				Hydrophytic Vegetation Indicators:
	Absolute	Dominant	Indicator	Rapid test for hydrophytic vegetation
Herb Stratum Plot Size ( 51t radius )	% Cover	Species	Status	Dominance test is >50%
Poa pratensis	90	Y	FACU	Prevalence index is ≤3.0*
Plantago lanceolata	20	N	FACU	Morphological adaptations* (provide
Lolium arundinaceum	10	N	FACU	supporting data in Remarks or on a
Symphyotrichum pilosum	5	N	FACU	separate sheet)
Asclenias svriaca	5	N	LIPI	Problematic hydrophytic vegetation*
	3	<u> </u>	FACW	(explain)
Acer negundo	2	N	FAC	
	1	<u> </u>	FACU	nucleators of hydric soil and wetland hydrology must
	1	N	EACW/	present, unless disturbed of problematic
Olinus americana	<u> </u>		FACW	Definitions of Vegetation Strate:
				Demittions of Vegetation Strata.
				Tree - Woody plants 3 in. (7.6 cm) or more in diameter
			·······	breast height (DBH), regardless of height.
				Sanling/ohrub Woody plants loss than 2 in DPH or
				greater than 3 28 ft (1 m) tall
	137	= Total Cover		grouter than one of (1 m) take
				Herb - All herbaceous (non-woody) plants, regardless
Woody Vine	Absolute	Dominant	Indicator	size, and woody plants less than 3.28 ft tall.
Stratum Plot Size ( 30ft radius )		Species	Status	
Stratum	% Cover	Species	Status	Woody vines - All woody vines greater than 3.28 ft in
				neight.
				Hydrophytic
				vegetation
	0	= Total Cover		present? N
marks: (Include photo numbers here or on a sepa	arate sheet)			
Old field.				

SOIL								Sampling Point: 13
Profile Des	cription: (Descri	iha ta th	e depth needed :	o docu	mont the	indicato	r or confirm the abse	ance of indicators )
Depth	Matrix		Redox Features			indicate		
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks
0-10	10YR 2/1	100					Silty clay loam	
10.14		70					Sandy clay	
10-14	1011C 3/4 10YR 2/1	30					Carldy clay	
*Type: C=C	Concentration, D	=Deplet	ion, RM=Reduce	d Matri	x, CS=C	overed c	r Coated Sand Grain	 IS
**Location:	PL=Pore Lining	, M=Mat	rix					
Hydric Soi	I Indicators:						Indicators for P	roblematic Hydric Soils:
His His Bla Hyu Str: De Thi Sau Sau Sau Sau Sau Sau Sau Sau Sau Sau	Histosol (A1)       Polyvalue Below Surface       2 cm Muck (A10) (LRR K, L, MLRA 149B         Histic Epipedon (A2)       (S8) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       (LRR R, MLRA 149B       Dark Surface (S7) (LRR K, L)         Depleted Below Dark Surface (A11)       (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)       Thin Dark Surface (S9) (LRR K, L)         Sandy Mucky Mineral (S1)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144, 145, 149)         Sandy Redox (S5)       Depleted Dark Surface (F7)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         Other (Explain in Remarks)       Other (Explain in Remarks)       Other (Explain in Remarks)							
Restrictive Type: <u>F</u> Depth (inch	Restrictive Layer (if observed):       Type: Rock fill       Hydric soil present? N         Depth (inches): 14       14							
Remarks:								