
Wetland Delineation Report

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Babcock Park

**Town of Dunn, Dane County
Wisconsin**

September 26th, 2022



Town of Dunn, Dane County, Wisconsin

September 26th, 2022

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Wetland Delineator Qualifications

Scott Taylor holds a Master of Science degree in Forest Ecology and Management from the University of Wisconsin-Madison (1999). Taylor is an Assured Wetland Delineator under Wisconsin Department of Natural Resources guidelines. He is also a certified Professional Wetland Scientist under the Society of Wetland Scientists guidelines. Taylor has attended the “Critical Methods in Wetland Delineation” training course annually since 2006. Taylor also completed the following courses that prepared him for performing wetland determinations and delineations in Wisconsin using the Army Corps of Engineers 1987 Manual Method:

- Wetland Plant Identification (July 2003, Delafield, WI. – Biotic Consultants, Inc.)
- Basic Wetland Delineation Training (August 2006, Cable, WI. – University of Wisconsin, La Crosse Continuing Education & Extension)
- Advanced Wetland Delineation Training (August 2018, Wisconsin Rapids, WI – University of Wisconsin, La Crosse Continuing Education & Extension).
- Hydric Soils Identification (June 2014, UW-Waukesha Field Station - University of Wisconsin, La Crosse Continuing Education & Extension).

Introduction

On August 18th of 2022, Scott Taylor of Taylor Conservation, LLC performed wetland determinations and delineations within a segment of Dane County’s Babcock Park (hereafter “the wetland investigation area”) on behalf of the Dane County Land & Water Resources Department. Wetland determinations and delineations identify and map wetlands within a defined wetland investigation area.

The wetland investigation area covered 7.4 acres (Figures 1 & 2). It was in the Town of Dunn, Dane County, Wisconsin, SWSW, Section 3, and SESE, Section 4, T06N, R10E. It was situated on the west side of Highway 51, 2.9 miles south of the intersection with Highway 12/18 (the beltline highway).

The investigation area occupied the east shore of Lake Waubesa and the banks of a lagoon. Investigation area terrain was flat to gently sloping. Land cover consisted predominantly of paved parking areas. However, there were also scattered tree groves, shrub thickets, mowed areas, and grassy, herbaceous areas.

The peninsula between Lake Waubesa and the lagoon contained buildings until 2020. All of the structures have since been demolished. This area is now mowed.

The lower banks and shallow lagoon fringes were found to be wetlands. A wooded depression was a wetland as well (Figure 2).

Dane County plans to make improvements to the park boat launch. It ordered a wetland delineation for planning purposes.

The purpose of this report is to explain the results of the wetland delineation and to describe the ecological and physical features of the wetlands and non-wetlands (uplands) in the investigation area.

Methods

Desktop Review

The following reference materials were reviewed prior to performing fieldwork:

- 1) Web Soil Survey (Natural Resource Conservation Service).
- 2) Wisconsin Wetland Inventory (WDNR Surface Water Data Viewer).
- 3) Wetland Indicators (WDNR Surface Water Data Viewer).
- 4) 24K Hydrography, Streams, Rivers & Intermittent Streams (WDNR Surface Water Data Viewer).
- 5) 7.5-minute quadrangle map (United States Geological Survey).
- 6) Aerial imagery (Google Earth, USDA Farm Service Agency).
- 7) Antecedent Precipitation Tool (Army Corps of Engineers).

Wetland determinations and the delineations in Wisconsin follow procedures set forth in the following:

- 1) The Corps of Engineers Wetlands Delineation Manual (US Army Corps of Engineers 1987).
- 2) Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral & Northeast Region (US Army Corps of Engineers 2012).
- 3) Guidance for Submittal of Delineation Reports to the St. Paul District Army Corps of Engineers & the Wisconsin DNR (WI Department of Natural Resources 2015).

Field Data Collection

Vegetation, hydrology and soil information were gathered in sample plots and recorded on U.S. Army Corps of Engineers “Wetland Determination Data Forms” for the appropriate region. At each plot, a plot center was established, and the presence or absence of normal circumstances or disturbances was noted. Next, herbaceous vegetation was sampled within a circular 5-foot radius plot. After that, vines, shrubs and trees were sampled within a circular 30-foot radius plot, centered on the herbaceous plot. Next, a 20 inch-deep (at minimum) soil pit was dug at the plot center. The presence or absence of hydrology indicators in the soil pit and within the surrounding 30-foot circular plot was noted. Finally, the soil profile in the pit was examined and described. A determination was then made as to whether the site was wetland or upland.

Transect & Sample Plot Location

Transect beginning points (sample plots) were located inside of areas that appeared to have potential to be wetlands based on maps and field observations. These areas included

mapped hydric soil locations, Wisconsin Wetland Inventory-mapped wetlands, and areas that showed pronounced wetland signatures on more than one year of aerial photography. They also included field observed plant communities typical of wetlands or field observed landscape features that collect water, like swales, depressions and drainage-ways.

If the sample plot data suggested that the location was inside of a wetland, a second plot was placed in an upslope location with a different plant community. If data collected at this plot suggested that the location was inside of the upland, no further plots were sampled. Otherwise, the process was repeated. A total of 9 plots were sampled, 3 inside of wetlands and 6 on the uplands (Figure 2).

Wetland Boundary Location

The wetland boundaries were located by observing increases in elevation and changes in plant community composition. The presence of healthy, dominant populations of upland plants, such as honeysuckle (*Lonicera X bella*-FacU), Queen Anne's lace (*Daucus carota*-Upl), enchanter's nightshade (*Circaea canadensis*-FacU), white snakeroot (*Ageratina altissima*-FacU), as one moved upslope, away from the wetland, was generally considered a reliable indicator of the wetland boundary.

Waterways

Complete assessment of waterways was outside the scope of this investigation. Nonetheless any waterways observed are noted in the report below.

Results and Discussion

Antecedent Precipitation

The following are the results of analysis of recent and historic precipitation data from the weather stations nearest the wetland investigation area using the Antecedent Precipitation Tool (Army Corps of Engineers). See Appendix II for precipitation data graph.

Weather Stations of Source Data:

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
UW ARBORETUM - MADISON	43.0411, -89.4286	870.079	6.488	24.989	3.082	11028	90
MADISON 4.0 SW	43.038, -89.4436	994.095	0.787	124.016	0.452	2	0
MADISON 4.4 SSW	43.0255, -89.4319	970.144	1.091	100.065	0.6	19	0
MADISON 3.7 SW	43.0494, -89.4482	977.034	1.144	106.955	0.637	1	0
MADISON 3.7 WSW	43.0623, -89.4565	935.039	2.032	64.96	1.046	30	0
MADISON 3.1 WSW	43.0642, -89.4474	999.016	1.857	128.937	1.075	5	0
CHARMANY FARM	43.0597, -89.4819	1045.932	2.982	175.853	1.866	261	0
MADISON DANE RGNL AP	43.1406, -89.3453	866.142	8.058	3.937	3.658	7	0

Antecedent Precipitation Analysis:

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2022-08-18	2.487008	5.603543	4.051181	Normal	2	3	6
2022-07-19	2.975591	5.955906	3.484252	Normal	2	2	4
2022-06-19	3.977559	6.198425	5.062992	Normal	2	1	2
Result							Normal Conditions - 12

The results indicate that on the date of the field investigation, **wetland moisture levels should be normal.**

Waterways

The investigation area occupied the east shore of Lake Waubesa and the banks of a lagoon that forms the outlet of the lake before it empties into the Yahara River (Figure 4).

Wetlands 1, 2 & 3

Wetlands 1, 2 & 3 Overview

Sample Plots	Wetland Type	Wisconsin Wetland Inventory Wetland Type	Surface Water Connections	Wetland Floristic Quality*
1A, 2A, 3A	Wetlands 1 & 2: Shallow Marsh; Wetland 3: Hardwood Swamp	Wetlands 1 & 2: None; Wetland 3: T3K	Wetlands 1, 2 & 3: Lake Waubesa & Yahara River	Wetlands 1, 2 & 3: Medium

* The wetland floristic quality assessment (high, medium, low) reflects the wetlands within the investigation area. There could be higher quality wetlands adjacent to but outside of the investigation area that were not inspected. Wetland quality is based on Taylor Conservation’s best professional judgment. The Wisconsin Department of Natural Resources has authority over wetland and waterway protective areas, per NR 151. Local authorities may enforce wetland structure setbacks as well.

Normal Circumstances Present?	Yes
Significant Disturbance?	No
Naturally Problematic?	Yes, for plot 2A since the soil was judged hydric but did not show a hydric indicator.

Wetland 1 and parts of Wetland 2 were the lagoon shoreline. They consisted of both the grassy/brushy lower lagoon banks and the sparsely vegetated shallow water zone of the lagoon. Hence much of Wetlands 1 and 2 were below the ordinary high-water mark of the lagoon.

A part of Wetland 2 was a cattail marsh within a lagoon embayment.

Wetland 3 was a hardwood swamp with many recently dead green ashes (*Fraxinus pennsylvanica*-FacW) that were probably victims of the Emerald Ash Borer insect (Figure 2).

The wetlands’ chief water sources are surface runoff from surrounding uplands, which contain large areas of pavement, and lake water levels.

Wetland Boundary Characteristics

There were no strong vegetative transitions to delineate the wetland boundaries, however the distribution of upland plant populations, like honeysuckle, white snake root and enchanter’s nightshade, were used to delineate the boundaries. In addition, sharp slope breaks along the lagoon shorelines delineated wetland boundaries in Wetlands 1 & 2.

Wetland 1, 2 & 3 Indicators Overview

Vegetation	
<i>Dominant Species:</i>	
Herb-layer	Reed canary grass (<i>Phalaris arundinacea</i> -FacW), clearweed (<i>Pumila pilea</i> -FacW), jewel weed (<i>Impatiens capensis</i> -FacW), cattails (<i>Typha angustifolia</i> -Obl)
Saplings & Shrubs	Red osier dogwood (<i>Cornus alba</i> -FacW), green ash (<i>Fraxinus pennsylvanica</i> -FacW)
Trees	Silver maple (<i>Acer saccharinum</i> -FacW), box elder (<i>Acer negundo</i> -Fac)
<i>Hydrophytic Indicators:</i>	
Dominance Test	100% of dominants were hydrophytes in all plots.
Problematic Hydrophytic?	None

Hydrology	
Primary Hydrology Indicators	Surface Water-A1 (plot 1A), High Water Table-A2 (plot 2A), Saturation-A3 (plots 2A & 3A)
Secondary Hydrology Indicators	Geomorphic Position-D2 (all plots), FAC-neutral Test-D5 (all plots), Dry Season Water Table-C2 (plot 3A)
Signatures on Aerial Imagery?	No imagery review for wetlands since they were not cropped.

Soils	
Hydric indicators	Redox Dark Surface-F6 (plot 3A). Plot 1A possessed standing water, so soil was assumed hydric, see notes below.
Hydric Indicators Missing?	Plot 2A. Investigator used professional judgment, see notes below.
Surface Horizon Colors & Textures	10 YR 2/1, 2/2; silt loam
Subsoil Horizon Colors & Textures	10 YR 3/2, 3/2; silt loam

Wetland 1, 2 & 3 Indicators Notes

One wetland sample plot (1A) possessed standing water and vegetation dominated by FacW-rated species, therefore no soil pit was dug, and the soil was assumed hydric without direct examination.

One wetland plot (2A) did not show a hydric soil indicator, but professional judgment was used to assume the soil was hydric based on the presence of hydrophytic vegetation

and wetland hydrology indicators, and the plot location in a low landscape position, following guidance in Chapter 5 of the Regional Supplement to the Corps of Engineers Wetland Delineation Manual.

Uplands

(Sample Plots 1B, 2B, 2C, 3B, 4 & 5)

The uplands (non-wetlands) were the (1) upper lagoon banks and wetland basin side-slopes that supported woody and/or unmowed herbaceous vegetation; (2) high lying areas that were regularly mowed; and (3) paved parking and boat launch areas (Figure 2).

The peninsula between Lake Waubesa and the lagoon contained buildings until 2020. All of the structures have since been demolished. This area is now mowed.

Normal Circumstances Present?	No, for a large area of the uplands due to regular mowing.
Significant Disturbance?	Yes, see above.
Naturally Problematic?	Not applicable to uplands.

<i>Vegetation</i>	
<i>Dominant Species:</i>	
Herb-layer	Canada goldenrod (<i>Solidago canadensis</i> -FacU), white avens (<i>Geum canadense</i> -Fac), frost aster (<i>Symphyotricum pilosum</i> -FacU), enchanter's nightshade (<i>Circaea canadensis</i> -FacU), Kentucky blue grass (<i>Poa pratensis</i> -FacU)
Saplings & Shrubs	Honeysuckle (<i>Lonicera X bella</i> -FacU), buckthorn (<i>Rhamnus cathartica</i> -Fac), high bush cranberry (<i>Viburnum opulus</i> -FacW)
Trees	Bur oak (<i>Quercus macrocarpa</i> -Fac), hackberry (<i>Celtis occidentalis</i> -Fac)
<i>Hydrophytic Indicators:</i>	
Plots Meeting Dominance Test?	Plot 3B. See notes below.
Plots Meeting Prevalence Index?	None

<i>Hydrology</i>	
Primary Hydrology Indicators?	None
Secondary Hydrology Indicators?	None
Signatures on Aerial Imagery?	No imagery review for this site since it has not been cropped in recent history.

Soils	
Hydric indicators?	Redox Dark Surface-F6 (plot 4, see notes below)
Surface Horizon Colors & Textures	10 YR 3/2; silt loam.
Subsoil Horizon Colors & Textures	10 YR 4/3, 4/4; silt loam, sandy loam.

Upland Notes

One of 6 upland sample plots (plot 3B) showed dominance by hydrophytic vegetation. However, the absence of hydric soil and wetland hydrology indicators at this site strongly suggested it could support a predominantly non-hydrophytic plant community.

Although upland sample plot 4 showed a hydric indicator, the absence of hydrophytic vegetation and wetland hydrology indicators at this site strongly suggested it was not a wetland.

Conclusion

Three wetland areas, occupying the shores of the lagoon and a wooded depression, were found on the subject wetland investigation area on August 18th of 2022. The wetlands were comprised of “Shallow Marsh” and “Hardwood Swamp” wetland community types.

The remainder of the investigation area, comprised of pavement, shrub/tree thickets and mowed areas, for the most part lacked indicators of wetland hydrology, hydrophytic vegetation and hydric soil and was therefore judged a non-wetland area.

The wetland boundary marked in the field is the best estimate of the location of the boundary based on the available vegetation, hydrology and soil evidence on August 18th of 2022. Wetland boundaries can change over time with changes in vegetation, precipitation, or regional hydrology. The wetlands identified for this report may be subject to federal regulation under the jurisdiction of the U.S. Army Corp of Engineers, state regulation under the jurisdiction of Wisconsin Department of Natural Resources, and local jurisdiction under your local county, town, city or village. The U.S. Army Corps of Engineers and/or the Wisconsin DNR have authority to make the final decision regarding the wetland boundary. Personnel from these agencies may adjust the boundary upon field inspection.

Activities within or close to the delineated wetland boundaries generally require permits from the Army Corps of Engineers, WDNR or local authorities. If the client proceeds with any work within or close to the delineated wetland boundaries without authorization or permits from the appropriate regulatory authorities, Scott Taylor or Taylor Conservation LLC shall not be responsible or liable for any resulting damages.

Scott Taylor is an **Assured Wetland Delineator** under Wisconsin Department of Natural Resources guidelines (<http://dnr.wi.gov/topic/wetlands/assurance.html>). Taylor’s wetland delineations are considered dependable by the WDNR for purposes of Wisconsin wetland and waterway permits, shoreland-wetland

zoning or other state-mandated local wetland programs. Therefore Taylor's clients do not require concurrence letters from WDNR before project planning or permit applications that are based on Taylor's wetland delineations. However, concurrence from the Army Corps of Engineers is still necessary. The WDNR and Army Corps have final authority over wetlands in Wisconsin. They may adjust Taylor's wetland boundaries. Assurance does not change decisions about wetland fill. Assurance is not a guarantee of accuracy or relief from landowner responsibility in the event an error occurs and wetlands are filled. While it is unlikely for a professional whose work is assured, inadvertent wetland fill that may result from errors must be remedied.

References

Hurt, G.W., Vasilas, L.M. & Berkowitz, J.F. 2018. Field Indicators of Hydric Soils in the United States: A Guide for Identifying and Delineating Hydric Soils, Version 8.2. Natural Resource Conservation Service, United States Department of Agriculture.

US Army Corps of Engineers 2020. National Wetland Plant List, version 3.5.
<http://wetland-plants.usace.army.mil/>

US Army Corps of Engineers, Waterways Experiment Station. 1987. Corps of Engineers Wetlands Delineation Manual. Wetlands Research Program Technical Report Y-87-1.

US Army Corps of Engineers & Minnesota Board of Water & Soil Resources 2016. "Guidance for Offsite Hydrology/Wetland Determinations."

US Army Corps of Engineers & Wisconsin Department of Natural Resources 2015. "Guidance for Submittal of Delineation Reports to the St. Paul District Army Corps of Engineers & the Wisconsin DNR."

USDA, Natural Resource Conservation Service. 1997. Hydrology Tools for Wetland Determination. Part 650. Engineering Field Handbook.

Figures

Figure 1: Landscape Overview.

Source: Imagery - National Agricultural Imagery Program, 2015; Roads & Waters – Wisconsin Department of Natural Resources.

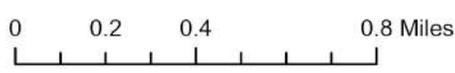
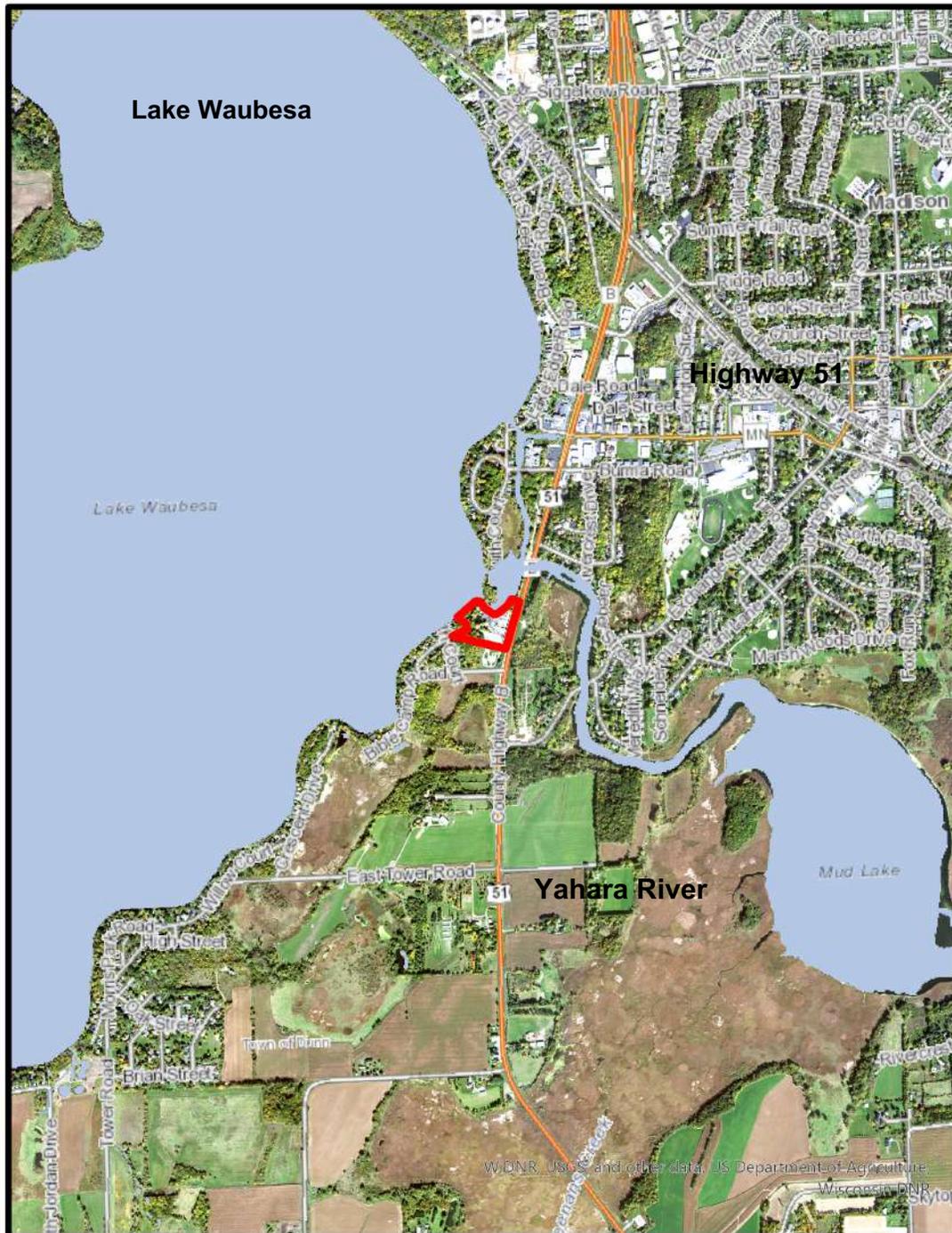


Figure 2: Investigation Area, Wetlands & Sample Plots.

Imagery Source: Wisconsin Regional Orthophotography Consortium, 2010.

Build
peni
remo

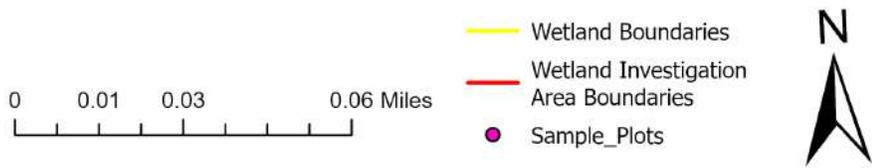
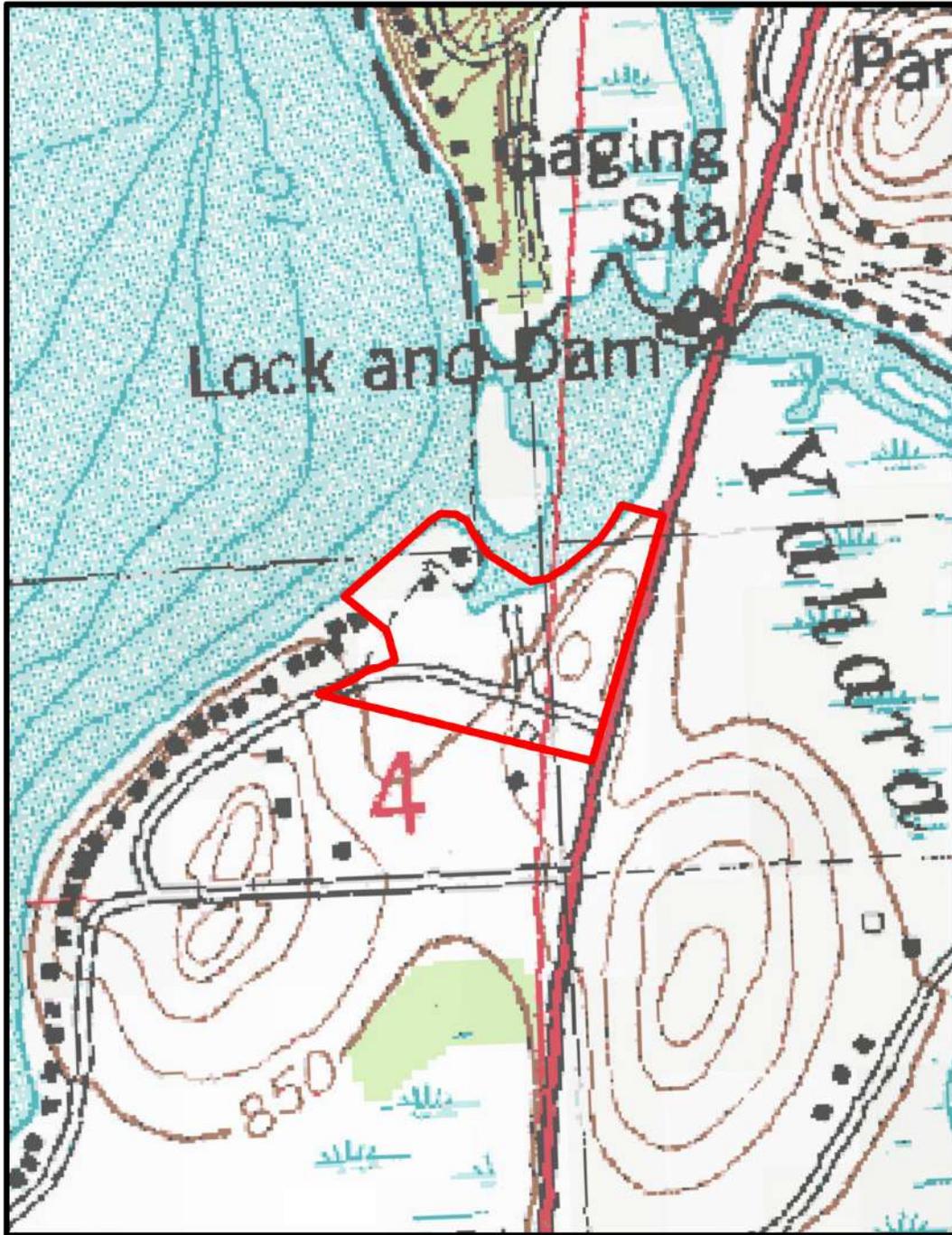


Figure 3: Topography – 2-foot Contour Map.

Imagery Source: Dane County.



Figure 4: Topography – United States Geological Survey Map.
Source: U.S. Geological Survey 7.5-Minute Quadrangle Map.



0 220 440 880 Feet

— Wetland Investigation Area Boundaries



Figure 5: Soils.

Source: Natural Resource Conservation Service.

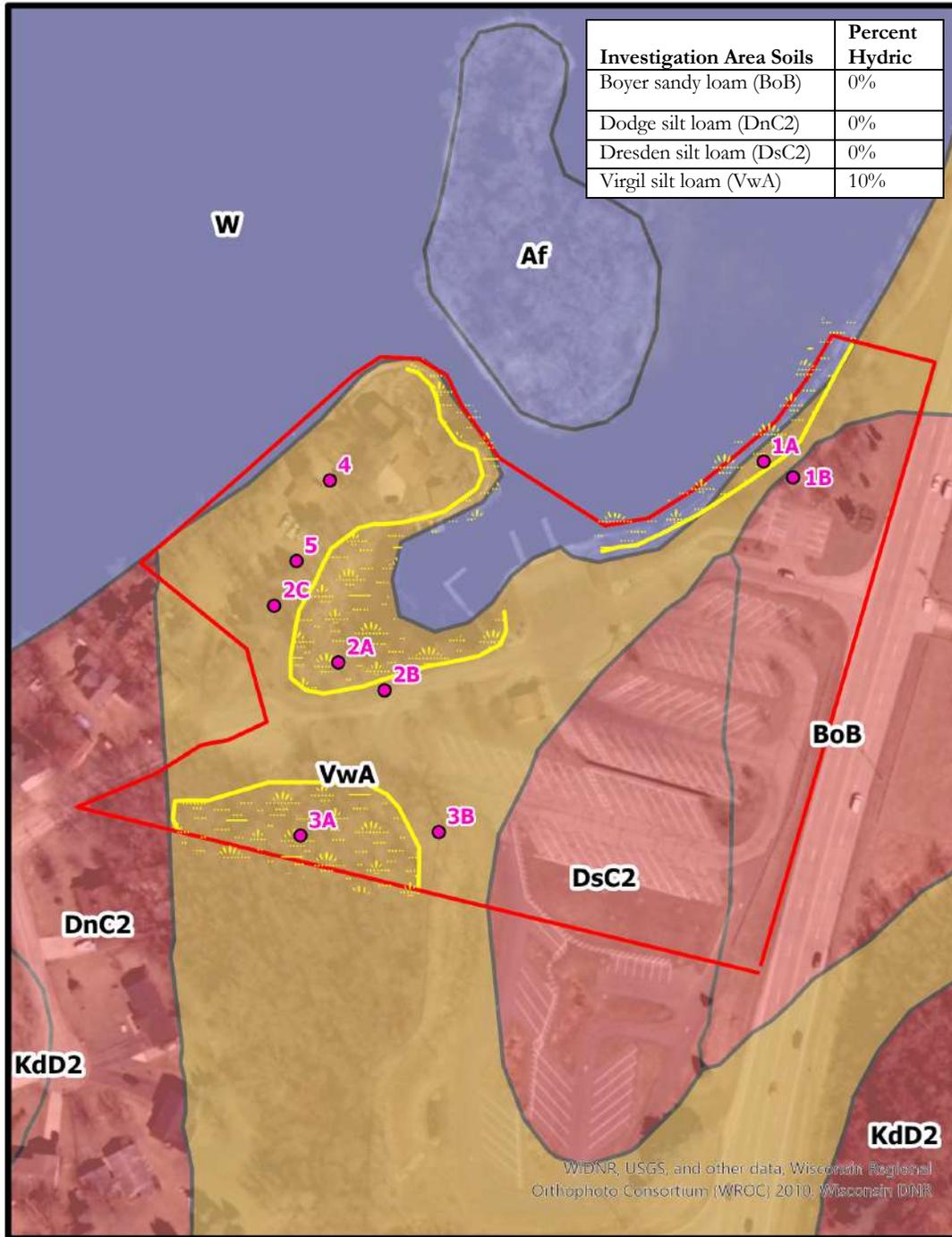
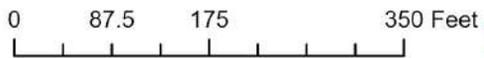


Figure 6: Wisconsin Wetland Inventory Map.

Source: Wisconsin Department of Natural Resources.



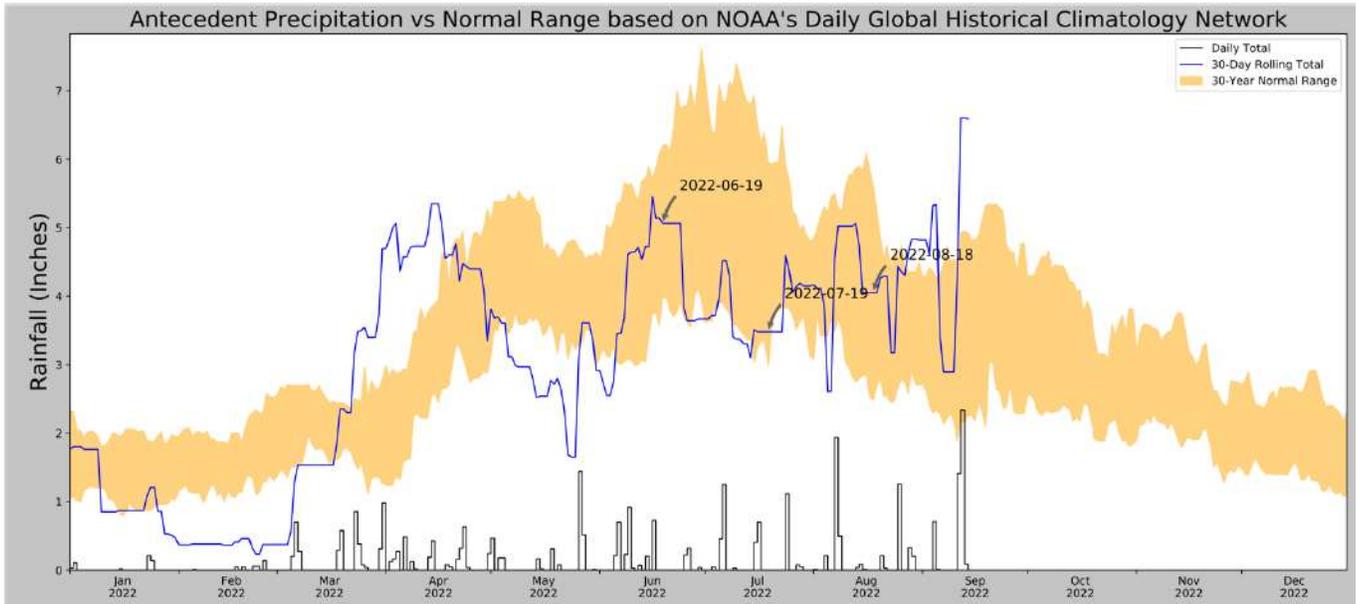
— Wetland Investigation Area Boundaries
Wetland Class Areas
Wetland Class



Appendix I: Survey Map of Wetland Boundary.



Appendix II: Antecedent Precipitation Data



Appendix III: Investigation Area Photos

Lagoon



Wetland - Plot 1A



Upland - Plot 1A



Wetland - Plot 2A



Upland - Plot 2B



Wetland - Plot 3A



Upland – Plot 3B



Upland - Plot 4



Upland - Plot 5



Appendix IV: Data Forms

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Babcock Park **City/County:** Twn. Dunn, Dane Co. **Sampling Date:** 18-Aug-22

Applicant/Owner: Dane County Land & Water Resources Dept. **State:** Wisconsin **Sampling Point:** 01a

Investigator(s): Scott Taylor **Section, Township, Range:** S. 4 T. 6N R. 10E

Landform (hillslope, terrace, etc.): Toeslope **Local relief (concave, convex, none):** concave **Slope:** 0.0 % / 0.0 °

Subregion (LRR or MLRA): LRR K **Lat.:** 43.006402 **Long.:** -89.306846 **Datum:** NAD83

Soil Map Unit Name: Virgil silt loam (VwA) **NWI classification:** None

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

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

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

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

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	

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

Using the Natural Resource Conservation Service weighted-month method, based on total precipitation for the previous 90 days, the wetland soil moisture level should NORMAL (the moisture level was 12 on a scale of 6-18). Total precipitation recorded at the nearby Dane County Regional Airport weather station within two weeks prior to the date of fieldwork was 2.2 inches. No precipitation was recorded within 3 days prior to the date of fieldwork.

Hydrology

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)	
Primary Indicators (minimum of one required; check all that apply)			
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Drift deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input checked="" type="checkbox"/> FAC-neutral Test (D5)	

Field Observations:

Surface Water Present? Yes No Depth (inches): 8

Water Table Present? Yes No Depth (inches): 0

Saturation Present? (includes capillary fringe) Yes No Depth (inches): 0

Wetland Hydrology Present? Yes No

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

Remarks:
The plot occupied the edge of a lagoon. It was below the ordinary high water mark.

VEGETATION - Use scientific names of plants.

Sampling Point: 01a

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>78.5 sf</u>)				Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
1. _____	0	<input type="checkbox"/>	_____	
2. _____	0	<input type="checkbox"/>	_____	
3. _____	0	<input type="checkbox"/>	_____	
4. _____	0	<input type="checkbox"/>	_____	
5. _____	0	<input type="checkbox"/>	_____	
6. _____	0	<input type="checkbox"/>	_____	
7. _____	0	<input type="checkbox"/>	_____	
Sapling/Shrub Stratum (Plot size: <u>78.5 sf</u>)				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>10</u> x 1 = <u>10</u> FACW species <u>70</u> x 2 = <u>140</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>80</u> (A) <u>150</u> (B) Prevalence Index = B/A = <u>1.875</u>
1. _____	0	<input type="checkbox"/>	_____	
2. _____	0	<input type="checkbox"/>	_____	
3. _____	0	<input type="checkbox"/>	_____	
4. _____	0	<input type="checkbox"/>	_____	
5. _____	0	<input type="checkbox"/>	_____	
6. _____	0	<input type="checkbox"/>	_____	
7. _____	0	<input type="checkbox"/>	_____	
Herb Stratum (Plot size: <u>78.5 sf</u>)				Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> Dominance Test is > 50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Impatiens capensis</u>	40	<input checked="" type="checkbox"/>	FACW	
2. <u>Pilea pumila</u>	30	<input checked="" type="checkbox"/>	FACW	
3. <u>Persicaria hydropiperoides</u>	10	<input type="checkbox"/>	OBL	
4. _____	0	<input type="checkbox"/>	_____	
5. _____	0	<input type="checkbox"/>	_____	
6. _____	0	<input type="checkbox"/>	_____	
7. _____	0	<input type="checkbox"/>	_____	
8. _____	0	<input type="checkbox"/>	_____	
9. _____	0	<input type="checkbox"/>	_____	
10. _____	0	<input type="checkbox"/>	_____	
11. _____	0	<input type="checkbox"/>	_____	
12. _____	0	<input type="checkbox"/>	_____	
Woody Vine Stratum (Plot size: <u>78.5 sf</u>)				Definitions of Vegetation Strata: Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall.. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height.
1. _____	0	<input type="checkbox"/>	_____	
2. _____	0	<input type="checkbox"/>	_____	
3. _____	0	<input type="checkbox"/>	_____	
4. _____	0	<input type="checkbox"/>	_____	
0 = Total Cover				Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>
Remarks: (Include photo numbers here or on a separate sheet.)				
The plot occupied the shallow water zone of a lagoon. Much of the sample plot area was open water. The woody plots were the same size as the herb plot since the habitat was a narrow band between open water and high ground.				

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

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Babcock Park **City/County:** Twn. Dunn, Dane Co. **Sampling Date:** 18-Aug-22

Applicant/Owner: Dane County Land & Water Resources Dept. **State:** Wisconsin **Sampling Point:** 01b

Investigator(s): Scott Taylor **Section, Township, Range:** S. 4 T. 6N R. 10E

Landform (hillslope, terrace, etc.): Backslope **Local relief (concave, convex, none):** convex **Slope:** 3.0 % / 1.7 °

Subregion (LRR or MLRA): LRR K **Lat.:** 43.006402 **Long.:** -89.306846 **Datum:** NAD83

Soil Map Unit Name: Boyer sandy loam (BoB) **NWI classification:** None

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

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

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

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

Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	

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

Using the Natural Resource Conservation Service weighted-month method, based on total precipitation for the previous 90 days, the wetland soil moisture level should NORMAL (the moisture level was 12 on a scale of 6-18). Total precipitation recorded at the nearby Dane County Regional Airport weather station within two weeks prior to the date of fieldwork was 2.2 inches. No precipitation was recorded within 3 days prior to the date of fieldwork.

Hydrology

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)	
Primary Indicators (minimum of one required; check all that apply)			
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Drift deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input type="checkbox"/> FAC-neutral Test (D5)	

Field Observations:

Surface Water Present? Yes No Depth (inches): 0

Water Table Present? Yes No Depth (inches): 0

Saturation Present? (includes capillary fringe) Yes No Depth (inches): 0

Wetland Hydrology Present? Yes No

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

Remarks:
No hydrology indicators. The plot occupied a steep slope.

VEGETATION - Use scientific names of plants.

Sampling Point: 01b

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>2,826 sf</u>)				Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>8</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)
1. <u>Quercus macrocarpa</u>	15	<input checked="" type="checkbox"/>	FACU	
2. <u>Quercus ellipsoidalis</u>	40	<input checked="" type="checkbox"/>	UPL	
3. <u>Celtis occidentalis</u>	10	<input type="checkbox"/>	FAC	
4. _____	0	<input type="checkbox"/>	_____	
5. _____	0	<input type="checkbox"/>	_____	
6. _____	0	<input type="checkbox"/>	_____	
7. _____	0	<input type="checkbox"/>	_____	
Sapling/Shrub Stratum (Plot size: <u>2,826 sf</u>)				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>20</u> x 2 = <u>40</u> FAC species <u>55</u> x 3 = <u>165</u> FACU species <u>110</u> x 4 = <u>440</u> UPL species <u>60</u> x 5 = <u>300</u> Column Totals: <u>245</u> (A) <u>945</u> (B) Prevalence Index = B/A = <u>3.857</u>
65 = Total Cover				
1. <u>Cornus amomum</u>	10	<input checked="" type="checkbox"/>	FACW	
2. <u>Lonicera x bella</u>	20	<input checked="" type="checkbox"/>	FACU	
3. <u>Viburnum opulus</u>	10	<input checked="" type="checkbox"/>	FACW	
4. <u>Morus alba</u>	5	<input type="checkbox"/>	FACU	
5. _____	0	<input type="checkbox"/>	_____	
6. _____	0	<input type="checkbox"/>	_____	
Herb Stratum (Plot size: <u>78.5 sf</u>)				
45 = Total Cover				
1. <u>Solidago canadensis</u>	40	<input checked="" type="checkbox"/>	FACU	
2. <u>Daucus carota</u>	20	<input type="checkbox"/>	UPL	
3. <u>Prunus serotina</u>	10	<input type="checkbox"/>	FACU	
4. <u>Rhamnus cathartica</u>	25	<input checked="" type="checkbox"/>	FAC	
5. <u>Symphotrichum pilosum var. pilosum</u>	10	<input type="checkbox"/>	FACU	
6. <u>Ageratina altissima</u>	10	<input type="checkbox"/>	FACU	
7. _____	0	<input type="checkbox"/>	_____	
8. _____	0	<input type="checkbox"/>	_____	
9. _____	0	<input type="checkbox"/>	_____	
10. _____	0	<input type="checkbox"/>	_____	
11. _____	0	<input type="checkbox"/>	_____	
12. _____	0	<input type="checkbox"/>	_____	
Woody Vine Stratum (Plot size: <u>2,826 sf</u>)				
115 = Total Cover				
1. <u>Vitis riparia</u>	20	<input checked="" type="checkbox"/>	FAC	
2. _____	0	<input type="checkbox"/>	_____	
3. _____	0	<input type="checkbox"/>	_____	
4. _____	0	<input type="checkbox"/>	_____	
20 = Total Cover				
				Hydrophytic Vegetation Indicators: <input type="checkbox"/> Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> Dominance Test is > 50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				Definitions of Vegetation Strata: Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall.. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height.
				Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks: (Include photo numbers here or on a separate sheet.) The plot occupied an open tree grove with a thick herbaceous ground layer and moderate density brush.				

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

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Babcock Park **City/County:** Twn. Dunn, Dane Co. **Sampling Date:** 18-Aug-22
Applicant/Owner: Dane County Land & Water Resources Dept. **State:** Wisconsin **Sampling Point:** 02a
Investigator(s): Scott Taylor **Section, Township, Range:** S. 4 T. 6N R. 10E
Landform (hillslope, terrace, etc.): Toeslope **Local relief (concave, convex, none):** concave **Slope:** 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR K **Lat.:** 43.006402 **Long.:** -89.306846 **Datum:** NAD83
Soil Map Unit Name: Virgil silt loam (VwA) **NWI classification:** None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation , **Soil** , **or Hydrology** **significantly disturbed?** **Are "Normal Circumstances" present?** Yes No
Are Vegetation , **Soil** , **or Hydrology** **naturally problematic?** (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
<p>Remarks: (Explain alternative procedures here or in a separate report.) Using the Natural Resource Conservation Service weighted-month method, based on total precipitation for the previous 90 days, the wetland soil moisture level should NORMAL (the moisture level was 12 on a scale of 6-18). Total precipitation recorded at the nearby Dane County Regional Airport weather station within two weeks prior to the date of fieldwork was 2.2 inches. No precipitation was recorded within 3 days prior to the date of fieldwork. The soil was naturally problematic since it was judged hydric even though no hydric indicators were observed.</p>	

Hydrology

<p>Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one required; check all that apply)</u></p> <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <input type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) </div> <div style="width: 30%;"> <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks) </div> <div style="width: 30%;"> <p><u>Secondary Indicators (minimum of 2 required)</u></p> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-neutral Test (D5) </div> </div>

<p>Field Observations:</p> <p>Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): <u>0</u></p> <p>Water Table Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Depth (inches): <u>8</u></p> <p>Saturation Present? (includes capillary fringe) Yes <input checked="" type="radio"/> No <input type="radio"/> Depth (inches): <u>0</u></p>	<p>Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/></p>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 The plot occupied the bottom of a basin that was an embayment of a nearby lagoon. The soil was saturated to the surface.

VEGETATION - Use scientific names of plants.

Sampling Point: 02a

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>2,826 sf</u>)				Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B) Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>80</u> x 1 = <u>80</u> FACW species <u>95</u> x 2 = <u>190</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>175</u> (A) <u>270</u> (B) Prevalence Index = B/A = <u>1.543</u>
1. _____	0	<input type="checkbox"/>	_____	
2. _____	0	<input type="checkbox"/>	_____	
3. _____	0	<input type="checkbox"/>	_____	
4. _____	0	<input type="checkbox"/>	_____	
5. _____	0	<input type="checkbox"/>	_____	
6. _____	0	<input type="checkbox"/>	_____	
7. _____	0	<input type="checkbox"/>	_____	
0 = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>2,826 sf</u>)				
1. _____	0	<input type="checkbox"/>	_____	
2. _____	0	<input type="checkbox"/>	_____	
3. _____	0	<input type="checkbox"/>	_____	
4. _____	0	<input type="checkbox"/>	_____	
5. _____	0	<input type="checkbox"/>	_____	
6. _____	0	<input type="checkbox"/>	_____	
7. _____	0	<input type="checkbox"/>	_____	
0 = Total Cover				
Herb Stratum (Plot size: <u>78.5 sf</u>)				
1. <i>Pilea pumila</i>	60	<input checked="" type="checkbox"/>	FACW	
2. <i>Typha angustifolia</i>	80	<input checked="" type="checkbox"/>	OBL	
3. <i>Phalaris arundinacea</i>	30	<input type="checkbox"/>	FACW	
4. <i>Symphotrichum lanceolatum</i>	5	<input type="checkbox"/>	FACW	
5. _____	0	<input type="checkbox"/>	_____	
6. _____	0	<input type="checkbox"/>	_____	
7. _____	0	<input type="checkbox"/>	_____	
8. _____	0	<input type="checkbox"/>	_____	
9. _____	0	<input type="checkbox"/>	_____	
10. _____	0	<input type="checkbox"/>	_____	
11. _____	0	<input type="checkbox"/>	_____	
12. _____	0	<input type="checkbox"/>	_____	
175 = Total Cover				
Woody Vine Stratum (Plot size: <u>2,826 sf</u>)				
1. _____	0	<input type="checkbox"/>	_____	
2. _____	0	<input type="checkbox"/>	_____	
3. _____	0	<input type="checkbox"/>	_____	
4. _____	0	<input type="checkbox"/>	_____	
0 = Total Cover				
Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> Dominance Test is > 50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
Definitions of Vegetation Strata: Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall.. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height.				
Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>				
Remarks: (Include photo numbers here or on a separate sheet.) The plot occupied a cattail marsh.				

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

Soil

Sampling Point: 02a

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

Depth (inches)	Matrix			Redox Features				Texture	Remarks
	Color (moist)		%	Color (moist)	%	Type ¹	Loc ²		
0-16	10YR	2/1	100					Silt Loam	
16-24	10YR	3/1	98	10YR	4/6	2	C	PL	Silt Loam

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

<p>Hydric Soil Indicators:</p> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Muck Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8)	<p>Indicators for Problematic Hydric Soils : ³</p> <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input checked="" type="checkbox"/> Other (Explain in Remarks)
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³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<p>Restrictive Layer (if observed):</p> Type: _____ Depth (inches): _____	<p>Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/></p>
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Remarks:

No hydric indicators observed however professional judgment was used to assume the soil was hydric based on landscape position, and the vegetation and hydrology indicators, following guidance in Chapter 5 of the Regional Supplement to the Corps of Engineers Wetland Delineation Manual.

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Babcock Park **City/County:** Twn. Dunn, Dane Co. **Sampling Date:** 18-Aug-22

Applicant/Owner: Dane County Land & Water Resources Dept. **State:** Wisconsin **Sampling Point:** 02b

Investigator(s): Scott Taylor **Section, Township, Range:** S. 4 T. 6N R. 10E

Landform (hillslope, terrace, etc.): Backslope **Local relief (concave, convex, none):** convex **Slope:** 3.0 % / 1.7 °

Subregion (LRR or MLRA): LRR K **Lat.:** 43.006402 **Long.:** -89.306846 **Datum:** NAD83

Soil Map Unit Name: Virgil silt loam (VwA) **NWI classification:** None

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

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

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

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

Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	

Remarks: (Explain alternative procedures here or in a separate report.)
 Using the Natural Resource Conservation Service weighted-month method, based on total precipitation for the previous 90 days, the wetland soil moisture level should NORMAL (the moisture level was 12 on a scale of 6-18). Total precipitation recorded at the nearby Dane County Regional Airport weather station within two weeks prior to the date of fieldwork was 2.2 inches. No precipitation was recorded within 3 days prior to the date of fieldwork.

Hydrology

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)	
Primary Indicators (minimum of one required; check all that apply)			
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Drift deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input type="checkbox"/> FAC-neutral Test (D5)	

Field Observations:

Surface Water Present? Yes No Depth (inches): 0

Water Table Present? Yes No Depth (inches): 0

Saturation Present? (includes capillary fringe) Yes No Depth (inches): 0

Wetland Hydrology Present? Yes No

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

Remarks:
 No hydrology indicators. The plot occupied a moderately steep slope.

VEGETATION - Use scientific names of plants.

Sampling Point: 02b

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>2,826 sf</u>)				Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>8</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)
1. <u><i>Celtis occidentalis</i></u>	20	<input type="checkbox"/>	FAC	
2. <u><i>Juglans nigra</i></u>	40	<input checked="" type="checkbox"/>	FACU	
3. <u><i>Populus deltoides</i></u>	30	<input checked="" type="checkbox"/>	FAC	
4. <u><i>Salix amygdaloides</i></u>	20	<input type="checkbox"/>	FACW	
5. _____	0	<input type="checkbox"/>	_____	
6. _____	0	<input type="checkbox"/>	_____	
7. _____	0	<input type="checkbox"/>	_____	
110 = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>20</u> x 2 = <u>40</u> FAC species <u>135</u> x 3 = <u>405</u> FACU species <u>185</u> x 4 = <u>740</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>340</u> (A) <u>1185</u> (B) Prevalence Index = B/A = <u>3.485</u>
Sapling/Shrub Stratum (Plot size: <u>2,826 sf</u>)				
1. <u><i>Celtis occidentalis</i></u>	20	<input checked="" type="checkbox"/>	FAC	
2. <u><i>Lonicera x bella</i></u>	30	<input checked="" type="checkbox"/>	FACU	
3. <u><i>Acer negundo</i></u>	15	<input checked="" type="checkbox"/>	FAC	
4. _____	0	<input type="checkbox"/>	_____	
5. _____	0	<input type="checkbox"/>	_____	
6. _____	0	<input type="checkbox"/>	_____	
7. _____	0	<input type="checkbox"/>	_____	
65 = Total Cover				
Herb Stratum (Plot size: <u>78.5 sf</u>)				Hydrophytic Vegetation Indicators: <input type="checkbox"/> Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> Dominance Test is > 50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u><i>Parthenocissus quinquefolia</i></u>	80	<input checked="" type="checkbox"/>	FACU	
2. <u><i>Viola sororia</i></u>	20	<input type="checkbox"/>	FAC	
3. <u><i>Circaea canadensis</i></u>	15	<input type="checkbox"/>	FACU	
4. <u><i>Celtis occidentalis</i></u>	10	<input type="checkbox"/>	FAC	
5. <u><i>Carex blanda</i></u>	5	<input type="checkbox"/>	FAC	
6. <u><i>Ageratina altissima</i></u>	10	<input type="checkbox"/>	FACU	
7. _____	0	<input type="checkbox"/>	_____	
8. _____	0	<input type="checkbox"/>	_____	
9. _____	0	<input type="checkbox"/>	_____	
10. _____	0	<input type="checkbox"/>	_____	
11. _____	0	<input type="checkbox"/>	_____	
12. _____	0	<input type="checkbox"/>	_____	
140 = Total Cover				
Woody Vine Stratum (Plot size: <u>2,826 sf</u>)				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall.. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height.
1. <u><i>Vitis riparia</i></u>	15	<input checked="" type="checkbox"/>	FAC	
2. <u><i>Parthenocissus quinquefolia</i></u>	10	<input checked="" type="checkbox"/>	FACU	
3. _____	0	<input type="checkbox"/>	_____	
4. _____	0	<input type="checkbox"/>	_____	
25 = Total Cover				Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks: (Include photo numbers here or on a separate sheet.) The plot occupied a tree grove with a dense, brushy understory.				

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

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Babcock Park **City/County:** Twn. Dunn, Dane Co. **Sampling Date:** 18-Aug-22

Applicant/Owner: Dane County Land & Water Resources Dept. **State:** Wisconsin **Sampling Point:** 02c

Investigator(s): Scott Taylor **Section, Township, Range:** S. 4 T. 6N R. 10E

Landform (hillslope, terrace, etc.): Backslope **Local relief (concave, convex, none):** convex **Slope:** 1.0 % / 0.6 °

Subregion (LRR or MLRA): LRR K **Lat.:** 43.006402 **Long.:** -89.306846 **Datum:** NAD83

Soil Map Unit Name: Virgil silt loam (VwA) **NWI classification:** None

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

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

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

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

Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
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Remarks: (Explain alternative procedures here or in a separate report.)

Using the Natural Resource Conservation Service weighted-month method, based on total precipitation for the previous 90 days, the wetland soil moisture level should NORMAL (the moisture level was 12 on a scale of 6-18). Total precipitation recorded at the nearby Dane County Regional Airport weather station within two weeks prior to the date of fieldwork was 2.2 inches. No precipitation was recorded within 3 days prior to the date of fieldwork. The vegetation was significantly disturbed, and normal circumstances were not present since the plot had been mowed recently.

Hydrology

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of 2 required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-neutral Test (D5)
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Field Observations:

Surface Water Present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Depth (inches):	0	
Water Table Present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Depth (inches):	0	
Saturation Present? (includes capillary fringe)	Yes <input type="radio"/> No <input checked="" type="radio"/>	Depth (inches):	0	Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>

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

Remarks:
No hydrology indicators. The plot was well elevated above the nearby wetland.

VEGETATION - Use scientific names of plants.

Sampling Point: 02c

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>2,826 sf</u>)				Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B) Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>175</u> x 4 = <u>700</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>175</u> (A) <u>700</u> (B) Prevalence Index = B/A = <u>4.000</u> Hydrophytic Vegetation Indicators: <input type="checkbox"/> Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> Dominance Test is > 50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall.. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>
1. _____	0	<input type="checkbox"/>	_____	
2. _____	0	<input type="checkbox"/>	_____	
3. _____	0	<input type="checkbox"/>	_____	
4. _____	0	<input type="checkbox"/>	_____	
5. _____	0	<input type="checkbox"/>	_____	
6. _____	0	<input type="checkbox"/>	_____	
7. _____	0	<input type="checkbox"/>	_____	
0 = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>2,826 sf</u>)				
1. _____	0	<input type="checkbox"/>	_____	
2. _____	0	<input type="checkbox"/>	_____	
3. _____	0	<input type="checkbox"/>	_____	
4. _____	0	<input type="checkbox"/>	_____	
5. _____	0	<input type="checkbox"/>	_____	
6. _____	0	<input type="checkbox"/>	_____	
7. _____	0	<input type="checkbox"/>	_____	
0 = Total Cover				
Herb Stratum (Plot size: <u>78.5 sf</u>)				
1. <i>Poa pratensis</i>	100	<input checked="" type="checkbox"/>	FACU	
2. <i>Glechoma hederacea</i>	60	<input checked="" type="checkbox"/>	FACU	
3. <i>Plantago major</i>	10	<input type="checkbox"/>	FACU	
4. <i>Taraxacum officinale</i>	5	<input type="checkbox"/>	FACU	
5. _____	0	<input type="checkbox"/>	_____	
6. _____	0	<input type="checkbox"/>	_____	
7. _____	0	<input type="checkbox"/>	_____	
8. _____	0	<input type="checkbox"/>	_____	
9. _____	0	<input type="checkbox"/>	_____	
10. _____	0	<input type="checkbox"/>	_____	
11. _____	0	<input type="checkbox"/>	_____	
12. _____	0	<input type="checkbox"/>	_____	
175 = Total Cover				
Woody Vine Stratum (Plot size: <u>2,826 sf</u>)				
1. _____	0	<input type="checkbox"/>	_____	
2. _____	0	<input type="checkbox"/>	_____	
3. _____	0	<input type="checkbox"/>	_____	
4. _____	0	<input type="checkbox"/>	_____	
0 = Total Cover				
Remarks: (Include photo numbers here or on a separate sheet.) The plot occupied a mowed turf area.				

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

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Babcock Park **City/County:** Twn. Dunn, Dane Co. **Sampling Date:** 18-Aug-22
Applicant/Owner: Dane County Land & Water Resources Dept. **State:** Wisconsin **Sampling Point:** 03a
Investigator(s): Scott Taylor **Section, Township, Range:** S. 4 T. 6N R. 10E
Landform (hillslope, terrace, etc.): Toeslope **Local relief (concave, convex, none):** concave **Slope:** 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR K **Lat.:** 43.006402 **Long.:** -89.306846 **Datum:** NAD83
Soil Map Unit Name: Virgil silt loam (VwA) **NWI classification:** T3K

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation , **Soil** , **or Hydrology** **significantly disturbed?** **Are "Normal Circumstances" present?** Yes No
Are Vegetation , **Soil** , **or Hydrology** **naturally problematic?** (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
<p>Remarks: (Explain alternative procedures here or in a separate report.) Using the Natural Resource Conservation Service weighted-month method, based on total precipitation for the previous 90 days, the wetland soil moisture level should NORMAL (the moisture level was 12 on a scale of 6-18). Total precipitation recorded at the nearby Dane County Regional Airport weather station within two weeks prior to the date of fieldwork was 2.2 inches. No precipitation was recorded within 3 days prior to the date of fieldwork.</p>	

Hydrology

<p>Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one required; check all that apply)</u></p> <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) </div> <div style="width: 30%;"> <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks) </div> <div style="width: 30%;"> <p><u>Secondary Indicators (minimum of 2 required)</u></p> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input checked="" type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-neutral Test (D5) </div> </div>

<p>Field Observations:</p> <p>Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): <u>0</u></p> <p>Water Table Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Depth (inches): <u>18</u></p> <p>Saturation Present? (includes capillary fringe) Yes <input checked="" type="radio"/> No <input type="radio"/> Depth (inches): <u>11</u></p>	<p>Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/></p>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 The plot occupied the bottom of a closed basin.

VEGETATION - Use scientific names of plants.

Sampling Point: 03a

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>2,826 sf</u>)				Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
1. <u><i>Acer saccharinum</i></u>	40	<input checked="" type="checkbox"/>	FACW	
2. _____	0	<input type="checkbox"/>	_____	
3. _____	0	<input type="checkbox"/>	_____	
4. _____	0	<input type="checkbox"/>	_____	
5. _____	0	<input type="checkbox"/>	_____	
6. _____	0	<input type="checkbox"/>	_____	
7. _____	0	<input type="checkbox"/>	_____	
Sapling/Shrub Stratum (Plot size: <u>2,826 sf</u>)				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>5</u> x 1 = <u>5</u> FACW species <u>263</u> x 2 = <u>526</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>268</u> (A) <u>531</u> (B) Prevalence Index = B/A = <u>1.981</u>
40 = Total Cover				
1. <u><i>Fraxinus pennsylvanica</i></u>	20	<input checked="" type="checkbox"/>	FACW	
2. <u><i>Cornus alba</i></u>	30	<input checked="" type="checkbox"/>	FACW	
3. _____	0	<input type="checkbox"/>	_____	
4. _____	0	<input type="checkbox"/>	_____	
5. _____	0	<input type="checkbox"/>	_____	
6. _____	0	<input type="checkbox"/>	_____	
7. _____	0	<input type="checkbox"/>	_____	
Herb Stratum (Plot size: <u>78.5 sf</u>)				Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> Dominance Test is > 50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
50 = Total Cover				
1. <u><i>Phalaris arundinacea</i></u>	100	<input checked="" type="checkbox"/>	FACW	
2. <u><i>Mentha arvensis</i></u>	5	<input type="checkbox"/>	FACW	
3. <u><i>Pilea pumila</i></u>	18	<input type="checkbox"/>	FACW	
4. <u><i>Impatiens capensis</i></u>	35	<input type="checkbox"/>	FACW	
5. <u><i>Mimulus ringens</i></u>	5	<input type="checkbox"/>	OBL	
6. <u><i>Eupatorium perfoliatum</i></u>	15	<input type="checkbox"/>	FACW	
7. _____	0	<input type="checkbox"/>	_____	
8. _____	0	<input type="checkbox"/>	_____	
9. _____	0	<input type="checkbox"/>	_____	
10. _____	0	<input type="checkbox"/>	_____	
11. _____	0	<input type="checkbox"/>	_____	
12. _____	0	<input type="checkbox"/>	_____	
Woody Vine Stratum (Plot size: <u>2,826 sf</u>)				Definitions of Vegetation Strata: Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall.. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height.
178 = Total Cover				
1. _____	0	<input type="checkbox"/>	_____	
2. _____	0	<input type="checkbox"/>	_____	
3. _____	0	<input type="checkbox"/>	_____	
4. _____	0	<input type="checkbox"/>	_____	
0 = Total Cover				Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>
Remarks: (Include photo numbers here or on a separate sheet.) The plot occupied a silver maple-green ash swamp. However most of the ashes have died recently, probably due to Emerald Ash Borer.				

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

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Babcock Park **City/County:** Twn. Dunn, Dane Co. **Sampling Date:** 18-Aug-22

Applicant/Owner: Dane County Land & Water Resources Dept. **State:** Wisconsin **Sampling Point:** 03b

Investigator(s): Scott Taylor **Section, Township, Range:** S. 4 T. 6N R. 10E

Landform (hillslope, terrace, etc.): Foothslope **Local relief (concave, convex, none):** convex **Slope:** 1.0 % / 0.6 °

Subregion (LRR or MLRA): LRR K **Lat.:** 43.006402 **Long.:** -89.306846 **Datum:** NAD83

Soil Map Unit Name: Virgil silt loam (VwA) **NWI classification:** None

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

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

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

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

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	

Remarks: (Explain alternative procedures here or in a separate report.)
 Using the Natural Resource Conservation Service weighted-month method, based on total precipitation for the previous 90 days, the wetland soil moisture level should NORMAL (the moisture level was 12 on a scale of 6-18). Total precipitation recorded at the nearby Dane County Regional Airport weather station within two weeks prior to the date of fieldwork was 2.2 inches. No precipitation was recorded within 3 days prior to the date of fieldwork.

Hydrology

Wetland Hydrology Indicators:	Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Dry Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift deposits (B3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Microtopographic Relief (D4)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> FAC-neutral Test (D5)
<input type="checkbox"/> Aquatic Fauna (B13)	
<input type="checkbox"/> Marl Deposits (B15)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations:

Surface Water Present? Yes No Depth (inches): 0

Water Table Present? Yes No Depth (inches): 0

Saturation Present? (includes capillary fringe) Yes No Depth (inches): 0

Wetland Hydrology Present? Yes No

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

Remarks:
 No hydrology indicators. The plot was well elevated above the nearby wetland.

VEGETATION - Use scientific names of plants.

Sampling Point: 03b

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>2,826 sf</u>)				Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>7</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>71.4%</u> (A/B)
1. <u><i>Quercus macrocarpa</i></u>	40	<input checked="" type="checkbox"/>	FACU	
2. _____	0	<input type="checkbox"/>	_____	
3. _____	0	<input type="checkbox"/>	_____	
4. _____	0	<input type="checkbox"/>	_____	
5. _____	0	<input type="checkbox"/>	_____	
6. _____	0	<input type="checkbox"/>	_____	
7. _____	0	<input type="checkbox"/>	_____	
Sapling/Shrub Stratum (Plot size: <u>2,826 sf</u>)				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>25</u> x 2 = <u>50</u> FAC species <u>130</u> x 3 = <u>390</u> FACU species <u>130</u> x 4 = <u>520</u> UPL species <u>15</u> x 5 = <u>75</u> Column Totals: <u>300</u> (A) <u>1035</u> (B) Prevalence Index = B/A = <u>3.450</u>
40 = Total Cover				
1. <u><i>Rhamnus cathartica</i></u>	30	<input checked="" type="checkbox"/>	FAC	
2. <u><i>Acer negundo</i></u>	40	<input checked="" type="checkbox"/>	FAC	
3. <u><i>Ulmus americana</i></u>	25	<input checked="" type="checkbox"/>	FACW	
4. <u><i>Lonicera x bella</i></u>	5	<input type="checkbox"/>	FACU	
5. _____	0	<input type="checkbox"/>	_____	
6. _____	0	<input type="checkbox"/>	_____	
Herb Stratum (Plot size: <u>78.5 sf</u>)				Hydrophytic Vegetation Indicators: <input type="checkbox"/> Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> Dominance Test is > 50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
100 = Total Cover				
1. <u><i>Ageratina altissima</i></u>	60	<input checked="" type="checkbox"/>	FACU	
2. <u><i>Acer negundo</i></u>	20	<input checked="" type="checkbox"/>	FAC	
3. <u><i>Symphotrichum lateriflorum var. lateriflorum</i></u>	10	<input type="checkbox"/>	FAC	
4. <u><i>Geum canadense</i></u>	15	<input type="checkbox"/>	FAC	
5. <u><i>Circaea canadensis</i></u>	15	<input type="checkbox"/>	FACU	
6. <u><i>Solidago canadensis</i></u>	10	<input type="checkbox"/>	FACU	
7. <u><i>Rubus occidentalis</i></u>	15	<input type="checkbox"/>	UPL	
8. _____	0	<input type="checkbox"/>	_____	
9. _____	0	<input type="checkbox"/>	_____	
10. _____	0	<input type="checkbox"/>	_____	
11. _____	0	<input type="checkbox"/>	_____	
12. _____	0	<input type="checkbox"/>	_____	
Woody Vine Stratum (Plot size: <u>2,826 sf</u>)				Definitions of Vegetation Strata: Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall.. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height.
145 = Total Cover				
1. <u><i>Vitis riparia</i></u>	15	<input checked="" type="checkbox"/>	FAC	
2. _____	0	<input type="checkbox"/>	_____	
3. _____	0	<input type="checkbox"/>	_____	
4. _____	0	<input type="checkbox"/>	_____	
15 = Total Cover				Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>
Remarks: (Include photo numbers here or on a separate sheet.) The plot occupied a tree grove with a moderately brushy understory. Although the site was dominated by hydrophytic vegetation, the absence of hydric soil indicators, the absence of wetland hydrology indicators and the presence of upland plant populations strongly suggest this site would be capable of supporting a predominantly non-hydrophytic plant community. Also note the FAC Neutral Test was not met, and the P-Index was > 3.				

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

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Babcock Park **City/County:** Twn. Dunn, Dane Co. **Sampling Date:** 18-Aug-22
Applicant/Owner: Dane County Land & Water Resources Dept. **State:** Wisconsin **Sampling Point:** 04
Investigator(s): Scott Taylor **Section, Township, Range:** S. 4 T. 6N R. 10E
Landform (hillslope, terrace, etc.): Backslope **Local relief (concave, convex, none):** convex **Slope:** 1.0 % / 0.6 °
Subregion (LRR or MLRA): LRR K **Lat.:** 43.006402 **Long.:** -89.306846 **Datum:** NAD83
Soil Map Unit Name: Virgil silt loam (VwA) **NWI classification:** None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation , **Soil** , **or Hydrology** **significantly disturbed?** **Are "Normal Circumstances" present?** Yes No
Are Vegetation , **Soil** , **or Hydrology** **naturally problematic?** (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
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Remarks: (Explain alternative procedures here or in a separate report.)
 Using the Natural Resource Conservation Service weighted-month method, based on total precipitation for the previous 90 days, the wetland soil moisture level should NORMAL (the moisture level was 12 on a scale of 6-18). Total precipitation recorded at the nearby Dane County Regional Airport weather station within two weeks prior to the date of fieldwork was 2.2 inches. No precipitation was recorded within 3 days prior to the date of fieldwork. The vegetation was significantly disturbed, and normal circumstances were not present since the plot had been mowed recently.

Hydrology

Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (minimum of 2 required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-neutral Test (D5)
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Field Observations:

Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Depth (inches): 0	Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>
Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Depth (inches): 0	
Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/>	Depth (inches): 0	

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

Remarks:
 No hydrology indicators The plot occupied a low spot within a relatively well elevated landscape area.

VEGETATION - Use scientific names of plants.

Sampling Point: 04

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>2,826 sf</u>)				Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>7</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>42.9%</u> (A/B)
1. <u><i>Celtis occidentalis</i></u>	5	<input checked="" type="checkbox"/>	FAC	
2. _____	0	<input type="checkbox"/>	_____	
3. _____	0	<input type="checkbox"/>	_____	
4. _____	0	<input type="checkbox"/>	_____	
5. _____	0	<input type="checkbox"/>	_____	
6. _____	0	<input type="checkbox"/>	_____	
7. _____	0	<input type="checkbox"/>	_____	
5 = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>25</u> x 3 = <u>75</u> FACU species <u>110</u> x 4 = <u>440</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>135</u> (A) <u>515</u> (B) Prevalence Index = B/A = <u>3.815</u>
Sapling/Shrub Stratum (Plot size: <u>2,826 sf</u>)				
1. <u><i>Lonicera x bella</i></u>	5	<input checked="" type="checkbox"/>	FACU	
2. <u><i>Rhamnus cathartica</i></u>	10	<input checked="" type="checkbox"/>	FAC	
3. _____	0	<input type="checkbox"/>	_____	
4. _____	0	<input type="checkbox"/>	_____	
5. _____	0	<input type="checkbox"/>	_____	
6. _____	0	<input type="checkbox"/>	_____	
7. _____	0	<input type="checkbox"/>	_____	
15 = Total Cover				
Herb Stratum (Plot size: <u>78.5 sf</u>)				Hydrophytic Vegetation Indicators: <input type="checkbox"/> Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> Dominance Test is > 50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u><i>Plantago major</i></u>	40	<input checked="" type="checkbox"/>	FACU	
2. <u><i>Fragaria virginiana</i></u>	30	<input checked="" type="checkbox"/>	FACU	
3. <u><i>Digitaria sanguinalis</i></u>	25	<input checked="" type="checkbox"/>	FACU	
4. <u><i>Trifolium repens</i></u>	10	<input type="checkbox"/>	FACU	
5. _____	0	<input type="checkbox"/>	_____	
6. _____	0	<input type="checkbox"/>	_____	
7. _____	0	<input type="checkbox"/>	_____	
8. _____	0	<input type="checkbox"/>	_____	
9. _____	0	<input type="checkbox"/>	_____	
10. _____	0	<input type="checkbox"/>	_____	
11. _____	0	<input type="checkbox"/>	_____	
12. _____	0	<input type="checkbox"/>	_____	
105 = Total Cover				
Woody Vine Stratum (Plot size: <u>2,826 sf</u>)				Definitions of Vegetation Strata: Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall.. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height.
1. <u><i>Vitis riparia</i></u>	10	<input checked="" type="checkbox"/>	FAC	
2. _____	0	<input type="checkbox"/>	_____	
3. _____	0	<input type="checkbox"/>	_____	
4. _____	0	<input type="checkbox"/>	_____	
10 = Total Cover				
				Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks: (Include photo numbers here or on a separate sheet.) The plot occupied an open, weedy area that is regularly mowed. The sample plot included a line of brush and trees on the nearby Lake Waubesa shoreline. Since the site was mowed recently, it is possible there were plant species present that the investigator was not able to identify.				

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

Soil

Sampling Point: 04

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

Depth (inches)	Matrix			Redox Features					Texture	Remarks
	Color (moist)		%	Color (moist)	%	Type ¹	Loc ²			
0-6	10YR	3/2	100						Silt Loam	
6-14	10YR	2/1	98	10YR	4/6	2	C	PL	Silt Loam	

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

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Muck Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR R, MLRA 149B)

- Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- Thin Dark Surface (S9) (LRR R, MLRA 149B)
- Loamy Mucky Mineral (F1) LRR K, L)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

Indicators for Problematic Hydric Soils : ³

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Dark Surface (S7) (LRR K, L, M)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (F21)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:

The plot was only dug to 14" due to a layer of rocks.

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Babcock Park **City/County:** Twn. Dunn, Dane Co. **Sampling Date:** 18-Aug-22
Applicant/Owner: Dane County Land & Water Resources Dept. **State:** Wisconsin **Sampling Point:** 05
Investigator(s): Scott Taylor **Section, Township, Range:** S. 4 T. 6N R. 10E
Landform (hillslope, terrace, etc.): Backslope **Local relief (concave, convex, none):** convex **Slope:** 1.0 % / 0.6 °
Subregion (LRR or MLRA): LRR K **Lat.:** 43.006402 **Long.:** -89.306846 **Datum:** NAD83
Soil Map Unit Name: Virgil silt loam (VwA) **NWI classification:** None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation , **Soil** , **or Hydrology** **significantly disturbed?** **Are "Normal Circumstances" present?** Yes No
Are Vegetation , **Soil** , **or Hydrology** **naturally problematic?** (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
<p>Remarks: (Explain alternative procedures here or in a separate report.) Using the Natural Resource Conservation Service weighted-month method, based on total precipitation for the previous 90 days, the wetland soil moisture level should NORMAL (the moisture level was 12 on a scale of 6-18). Total precipitation recorded at the nearby Dane County Regional Airport weather station within two weeks prior to the date of fieldwork was 2.2 inches. No precipitation was recorded within 3 days prior to the date of fieldwork. The vegetation was significantly disturbed, and normal circumstances were not present since the plot had been mowed recently.</p>	

Hydrology

<p>Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one required; check all that apply)</u></p> <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) </div> <div style="width: 30%;"> <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks) </div> <div style="width: 30%;"> <p><u>Secondary Indicators (minimum of 2 required)</u></p> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-neutral Test (D5) </div> </div>

<p>Field Observations:</p> Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/>	Depth (inches): 0 Depth (inches): 0 Depth (inches): 0	<p align="right">Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/></p>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 No hydrology indicators The plot occupied a low spot within a relatively well elevated landscape area.

VEGETATION - Use scientific names of plants.

Sampling Point: 05

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>2,826 sf</u>)				Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>16.7%</u> (A/B)
1. <u>Quercus alba</u>	20	<input checked="" type="checkbox"/>	FACU	
2. _____	0	<input type="checkbox"/>	_____	
3. _____	0	<input type="checkbox"/>	_____	
4. _____	0	<input type="checkbox"/>	_____	
5. _____	0	<input type="checkbox"/>	_____	
6. _____	0	<input type="checkbox"/>	_____	
7. _____	0	<input type="checkbox"/>	_____	
Sapling/Shrub Stratum (Plot size: <u>2,826 sf</u>)				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>15</u> x 3 = <u>45</u> FACU species <u>110</u> x 4 = <u>440</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>125</u> (A) <u>485</u> (B) Prevalence Index = B/A = <u>3.880</u>
20 = Total Cover				
1. _____	0	<input type="checkbox"/>	_____	
2. _____	0	<input type="checkbox"/>	_____	
3. _____	0	<input type="checkbox"/>	_____	
4. _____	0	<input type="checkbox"/>	_____	
5. _____	0	<input type="checkbox"/>	_____	
6. _____	0	<input type="checkbox"/>	_____	
7. _____	0	<input type="checkbox"/>	_____	
Herb Stratum (Plot size: <u>78.5 sf</u>)				Hydrophytic Vegetation Indicators: <input type="checkbox"/> Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> Dominance Test is > 50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
0 = Total Cover				
1. <u>Juncus tenuis</u>	15	<input checked="" type="checkbox"/>	FAC	
2. <u>Ambrosia artemisiifolia</u>	15	<input checked="" type="checkbox"/>	FACU	
3. <u>Plantago major</u>	20	<input checked="" type="checkbox"/>	FACU	
4. <u>Digitaria sanguinalis</u>	30	<input checked="" type="checkbox"/>	FACU	
5. <u>Trifolium repens</u>	15	<input checked="" type="checkbox"/>	FACU	
6. <u>Fragaria virginiana</u>	10	<input type="checkbox"/>	FACU	
7. _____	0	<input type="checkbox"/>	_____	
8. _____	0	<input type="checkbox"/>	_____	
9. _____	0	<input type="checkbox"/>	_____	
10. _____	0	<input type="checkbox"/>	_____	
11. _____	0	<input type="checkbox"/>	_____	
12. _____	0	<input type="checkbox"/>	_____	
Woody Vine Stratum (Plot size: <u>2,826 sf</u>)				Definitions of Vegetation Strata: Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall.. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height.
105 = Total Cover				
1. _____	0	<input type="checkbox"/>	_____	
2. _____	0	<input type="checkbox"/>	_____	
3. _____	0	<input type="checkbox"/>	_____	
4. _____	0	<input type="checkbox"/>	_____	
0 = Total Cover				Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks: (Include photo numbers here or on a separate sheet.) The plot occupied an open, weedy area that is regularly mowed. Since the site was mowed recently, it is possible there were plant species present that the investigator was not able to identify.				

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

