



COUNTY OF KENOSHA

Department of Planning & Development

KENOSHA COUNTY REZONING PROCEDURES

- ☐ 1. Contact the Department of Public Works & Development Services and check with staff to determine if your proposed zoning change meets the requirements for the Kenosha County General Zoning and Shoreland/Floodplain Zoning Ordinance and the Kenosha County Subdivision Control Ordinance. Note: If the proposed rezoning is part of a proposed land division see the Certified Survey Map Information and Procedures.

- ☐ 2. Contact the Department of Public Works & Development Services and schedule a pre-conference meeting, which is required for all rezoning requests.

Meeting Date: _____

- ☐ 3. Contact your local Town to determine if your rezoning petition requires preliminary approval.

- ☐ 4. Complete and submit the Kenosha County Rezoning Application by the filing deadline (see Planning, Development & Extension Education Committee Schedule handout).

- ☐ 6. Submit a copy of the date-stamped application to your local township for placement on the agenda of the Town Planning Commission and Town Board, which recommends action to the County Planning, Development & Extension Education Committee. Keep a copy for your records.

- ☐ 7. Attend the Town Planning Commission and the Town Board meetings. **NOTE:** You must attend or the Town will not be able to act on your request.

Town Planning Commission meeting date (tentative): _____

Town Board meeting date (tentative): _____

- ☐ 8. Attend the Planning, Development & Extension Education Committee public hearing. **NOTE:** You must attend or the Planning, Development & Extension Education Committee will not be able to act on your request. At this meeting you will be asked to brief the Committee on your request.

Kenosha County Planning, Development & Extension Education Committee meeting date: _____
(tentative)

- ☐ 9. Planning, Development & Extension Education Committee recommends either approval and adopts a resolution or denial and transmits recommendation to the Kenosha County Board of Supervisors. No action is required from the applicant at this time.

If approved, County Board of Supervisors either approves or denies the amendment.

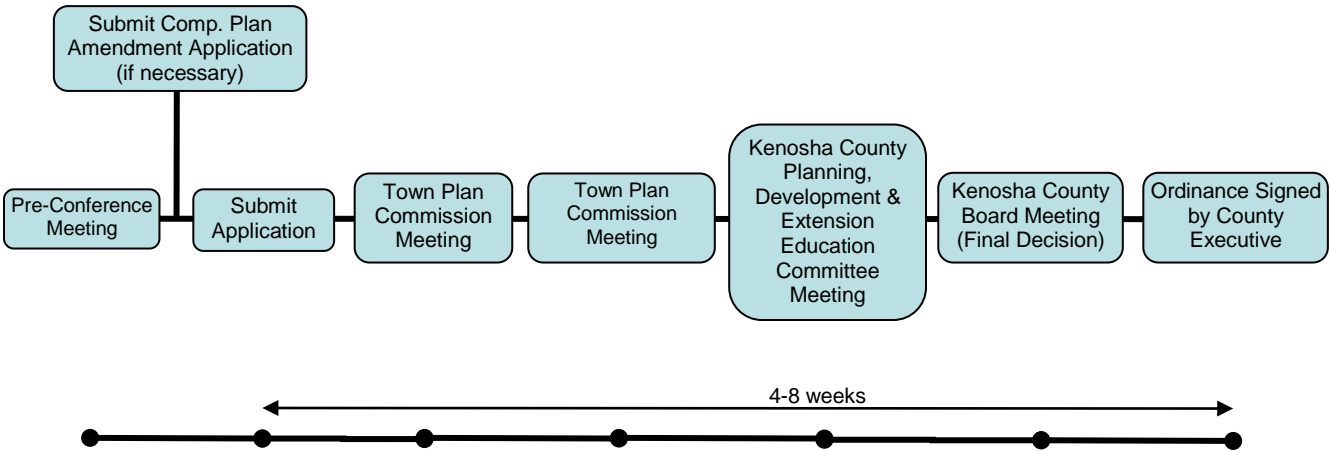
If denied by the Kenosha County Board of Supervisors you have thirty (30) days to file an appeal with circuit court if you so choose.

- ☐ 10. After the County Executive has signed the official ordinance document amending the Kenosha County Zoning Map, you will be notified of your approval in writing. Upon notification of approval, you may proceed with recording any necessary deeds.

IMPORTANT TELEPHONE NUMBERS

Kenosha County Center	
Department of Public Works & Development Services	
19600 - 75 th Street, Suite 185-3	
Bristol, Wisconsin 53104-9772	
Division of Planning & Development (including Sanitation & Land Conservation)	857-1895
Facsimile #.....	857-1920
Public Works Division of Highways	857-1870
Administration Building	
Division of Land Information.....	653-2622
Brighton, Town of	878-2218
Paris, Town of	859-3006
Randall, Town of.....	877-2165
Salem, Town of	843-2313
Utility District.....	862-2371
Somers Town of	859-2822
Wheatland, Town of.....	537-4340
Wisconsin Department of Natural Resources - Sturtevant Office	884-2300
Wisconsin Department of Transportation - Waukesha Office	548-8722

Rezoning Procedure Timeline



For Reference Purposes



COUNTY OF KENOSHA

Department of Planning and Development

RECEIVED

RECEIVED
REZONING APPLICATION

JUN - 1 2017

(a) Property Owner's Name:

Arthur A. Naber & Paul J. Naber

JUN - 1 2017

Kenosha County
Deputy County Clerk

Kenosha County
Planning and Development

Print Name: Arthur A. Naber

Signature: 

Mailing Address: 3405 S. Brown Lakes Drive, #3

City: Burlington

State: WI

Zip: 53105

Phone Number: 262-206-9910

E-mail (optional):

Note: Unless the property owner's signature can be obtained in the above space, a letter of agent status signed by the legal property owner must be submitted if you are a tenant, leaseholder, or authorized agent representing the legal owner, allowing you to act on their behalf.

(b) Agent's Name (if applicable):

Print Name: _____

Signature: _____

Business Name: _____

Mailing Address: _____

City: _____ State: _____ Zip: _____

Phone Number: _____ E-mail (optional): _____

(c) Tax key number(s) of property to be rezoned:

95-4-119-024-0300

Property Address of property to be rezoned:

33202 73rd Street

(d) Proposed use (a statement of the type, extent, area, etc. of any development project):

To subdivide the appx. 29.3-acre property into (1) 10.07-acre lot, (1) 40,784 sq. ft. lot, (1) 40,024 sq. ft. lot and (1) 16.16-acre lot.

REZONING APPLICATION

(e) Check the box next to any and all of the **existing** zoning district classifications present on the subject property:

A-1 Agricultural Preservation District	TCO Town Center Overlay District
A-2 General Agricultural District	B-1 Neighborhood Business District
A-3 Agricultural Related Manufacturing, Warehousing and Marketing District	B-2 Community Business District
A-4 Agricultural Land Holding District	B-3 Highway Business District
AE-1 Agricultural Equestrian Cluster Single-Family District	B-4 Planned Business District
R-1 Rural Residential District	B-5 Wholesale Trade and Warehousing District
R-2 Suburban Single-Family Residential District	BP-1 Business Park District
R-3 Urban Single-Family Residential District	B-94 Interstate Highway 94 Special Use Business District
R-4 Urban Single-Family Residential District	M-1 Limited Manufacturing District
R-5 Urban Single-Family Residential District	M-2 Heavy Manufacturing District
R-6 Urban Single-Family Residential District	M-3 Mineral Extraction District
R-7 Suburban Two-Family and Three-Family Residential District	M-4 Sanitary Landfill and Hazardous Waste Disposal District
R-8 Urban Two-Family Residential District	I-1 Institutional District
R-9 Multiple-Family Residential District	PR-1 Park-Recreational District
R-10 Multiple-Family Residential District	C-1 Lowland Resource Conservancy District
R-11 Multiple-Family Residential District	C-2 Upland Resource Conservancy District
R-12 Mobile Home/Manufactured Home Park-Subdivision District	FPO Floodplain Overlay District
HO Historical Overlay District	FWO Camp Lake/Center Lake Floodway Overlay District
PUD Planned Unit Development Overlay District	FFO Camp Lake/Center Lake Floodplain Fringe Overlay District
AO Airport Overlay District	
RC Rural Cluster Development Overlay District	

(f) Check the box next to any and all of the **proposed** zoning district classifications proposed for the subject property:

A-1 Agricultural Preservation District	TCO Town Center Overlay District
A-2 General Agricultural District	B-1 Neighborhood Business District
A-3 Agricultural Related Manufacturing, Warehousing and Marketing District	B-2 Community Business District
A-4 Agricultural Land Holding District	B-3 Highway Business District
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AO Airport Overlay District	
RC Rural Cluster Development Overlay District	

REZONING APPLICATION

(g) Your request must be consistent with the existing planned land use category as shown on Map 65 of the adopted "[Multi-Jurisdictional Comprehensive Plan for Kenosha County: 2035](#)".

The existing planned land use category for the subject property is:

Farmland Protection	Governmental and Institutional
General Agricultural and Open Land	Park and Recreational
Rural-Density Residential	Street and Highway Right-of-Way
Agricultural and Rural Density Residential	Other Transportation, Communication, and Utility
Suburban-Density Residential	Extractive
Medium-Density Residential	Landfill
High-Density Residential	Primary Environmental Corridor
Mixed Use	Secondary Environmental Corridor
Commercial	Isolated Natural Resource Area
Office/Professional Services	Other Conservancy Land to be Preserved
Industrial	Nonfarmed Wetland
Business/Industrial Park	Surface Water

(h) Attach a plot plan or survey plat of property to be rezoned (showing location, dimensions, zoning of adjacent properties, existing uses and buildings of adjacent properties, floodways and floodplains)—drawn to scale.

(i) The Kenosha County Department of Planning and Development may ask for additional information.

(1) Is this property located within the shoreland area?

Shoreland area is defined as the following: All land, water and air located within the following distances from the ordinary high water mark of navigable waters as defined in section 144.26(2)(d) of the Wisconsin Statutes: 1,000 feet from a lake, pond or flowage; 300 feet from a river or stream or to the landward side of the floodplain, whichever distance is greater. If the navigable water is a glacial pothole lake, the distance shall be measured from the high water mark thereof.

Yes

No

(2) Is this property located within the City of Kenosha Airport affected area as defined in s. 62.23 (6) (am) 1. b.?

Yes

No

(j) The name of the County Supervisor of the district wherein the property is located ([District Map](#)):

Supervisory District Number: _____ County Board Supervisor: _____

(k) The fee specified in Section 12.05-8 of this ordinance.

Request for Rezoning Petition\$750.00

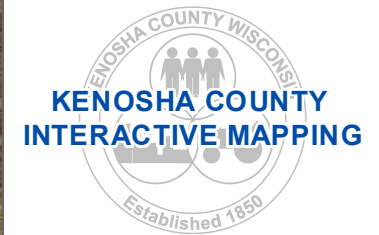
(For other fees see the [Fee Schedule](#))

Note: Agricultural Use Conversion Charge

The use value assessment system values agricultural land based on the income that would be generated from its rental for agricultural use rather than its fair market value. When a person converts agricultural land to a non-agricultural use (e.g. residential or commercial development), that person may owe a conversion charge. To obtain more information about the use value law or conversion charge, contact the Wisconsin Department of Revenue's Equalization Section at 608-266-2149 or visit <http://www.revenue.wi.gov/faqs/slf/useassmt.html>.

Note that the act of rezoning property from an agricultural zoning district to a non-agricultural zoning district does not necessarily trigger the agricultural use conversion charge. It is when the use of the property changes from agricultural that the conversion charge is assessed.

Subject Property



Legend

- Street Centerlines
- Right-of-Ways
- Water Features
- Parcels
- Certified Survey Maps
- Condominiums
- Municipal Boundaries
- Special Flood Hazard Area**
 - A; AE; AO
 - Zoning (Unincorporated Areas)



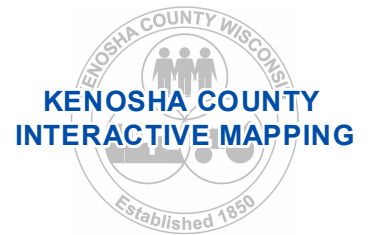
1 inch = 300 feet



DISCLAIMER This map is neither a legally recorded map nor a survey and is not intended to be used as one. This drawing is a compilation of records, data and information located in various state, county and municipal offices and other sources affecting the area shown and is to be used for reference purposes only. Kenosha County is not responsible for any inaccuracies herein contained. If discrepancies are found, please contact Kenosha County.

Date Printed: 6/1/2017

Current Zoning Classifications



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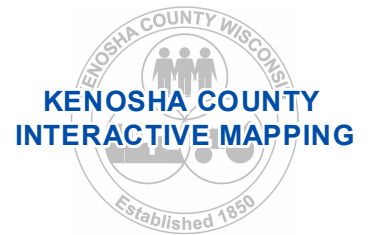
- Street Centerlines
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Date Printed: 6/1/2017

Proposed Zoning Classifications



Legend

- Street Centerlines
- Right-of-Ways
- Water Features
- Parcels
- Certified Survey Maps
- Condominiums
- Municipal Boundaries
- Special Flood Hazard Area**
 - A; AE; AO
 - Zoning (Unincorporated Areas)



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Date Printed: 6/1/2017

WETLAND DELINEATION REPORT

**Naber Property
33202 73rd Street
Wheatland, Wisconsin**

September 2015

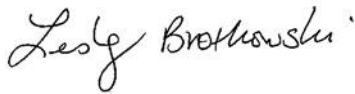
TRC Project No: 243428

Prepared For:

Lynch & Associates
5482 S Westridge Dr.
New Berlin, WI 53151

Prepared By

TRC Environmental Corporation
150 N. Patrick Blvd, Suite 180
Brookfield, WI 53045



Reviewer: Lesley Brotkowski
Senior Ecologist



Document Preparer: Kara Kikkert
Scientist



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1.0 INTRODUCTION

On behalf of Lynch & Associates, TRC Environmental Corporation (TRC) conducted a partial site wetland delineation within two designated Study Areas (A and B) at the Naber property (Appendix A, Figure 1). Study Area A was approximately 6.50 acres. Study Area B was approximately 1.25 acres. The Naber property is located in Section 2 Township 1N Range 19E in the town of Wheatland, Kenosha County, Wisconsin.

The purpose of this wetland delineation was to determine the current location and extent of wetlands located within the designated Study Areas for the purpose of land development. Our study is presented here in terms of methodology, results, and conclusions.

The wetland delineation field investigation was conducted by TRC scientists Amanda Larsen and Kara Kikkert on September 9, 2015.

1.1 Statement of Qualifications

TRC has extensive experience managing and conducting wetland delineations and assessments across the United States. TRC's biologists and ecologists have been trained to properly and consistently apply the methods set forth in the 1987 Corps of Engineers Wetland Delineation Manual and applicable regional supplements. They have direct experience identifying and documenting indicators of hydrophytic vegetation, wetland hydrology, and hydric soil and are experienced in dealing with naturally problematic and disturbed conditions.

TRC has conducted many hundreds of wetland delineations and assessments for our clients. TRC's large natural resources staff have the capability to coordinate wetland survey teams to meet fast-track project schedules and satisfy the challenges of complex or controversial projects.

Ms. Amanda Larsen, is an Environmental Scientist with TRC who specializes in conducting biological surveys, water quality monitoring, wetland delineations, habitat restoration, and invasive species control. She received her B.S. in Conservation and Environmental Science from the University of Wisconsin- Milwaukee in 2010. Ms. Larsen has several years of experience delineating wetlands and has served as a lead wetland delineator on multiple proposed pipeline projects, including Federal Energy Regulatory Commission (FERC) -regulated projects. Her delineation and biological habitat assessment work has been conducted in Illinois, Indiana, Louisiana, Michigan, New York, North Dakota, Ohio, West Virginia, and Wisconsin.

Ms. Kara Kikkert is an Environmental Technician with TRC. She earned her bachelor's degree in Conservation and Environmental Science from the University of Wisconsin- Milwaukee in 2014. The focus of her academic studies was natural resource management planning and geography. She has delineated hundreds of wetlands on FERC permitted energy projects in Illinois and Ohio and has delineation experience throughout the state of Wisconsin. She has attended wetland delineation technical training workshops provided by UW-La Crosse, including Critical Methods in Wetland Delineation and Basic Wetland Delineation training and UW-Milwaukee field station's Plant Identification class in 2015.

1.2 Agency Regulatory Authority

Under Section 404 of the Clean Water Act (CWA), wetlands and waterways that are considered Waters of the U.S. are subject to regulation. The jurisdictional regulatory authority under Section 404 of the Clean Water Act (CWA) lies with the U.S. Army Corps of Engineers (USACE). Under Chapters 30 and 281 Wisconsin State Statutes, and Wisconsin Administrative Code NR 103, 151, 299, 350, and 353 wetlands are subject to regulation. The jurisdictional regulatory authority under the Wisconsin State Statutes and Administrative Code lies with the Wisconsin Department of Natural Resources. Municipalities, townships and counties may also have local zoning authority over certain areas or types of wetlands and waterways. The determination that a wetland or waterway is subject to regulatory jurisdiction is made independently by the agencies.

2.0 METHODS

This wetland delineation was conducted in accordance with the guidelines of the 1987 Corps of Engineers Wetland Delineation Manual (Environmental Laboratory, 1987) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (Version 2.0, 2012 and in general accordance with Wisconsin Department of Natural Resources guidelines (WI Department of Administration, WI Coastal Management Program, 1995). National Wetland Indicator status and taxonomic nomenclature is referenced from The National Wetland Plant List (Lichvar 2014). National Wetland Indicator status is based on the Northcentral and Northeast Region, LRR K sub-region.

This report has been prepared in accordance with the guidelines set forth in the “Guidance for Submittal of Delineation Reports to the St. Paul District Corps of Engineers and the Wisconsin Department of Natural Resources” document issued March 4, 2015.

2.1 Off-Site Review

Prior to conducting fieldwork, TRC scientists Amanda Larsen and Kara Kikkert reviewed maps including the United States Geological Survey (USGS) 7.5’ Quadrangle maps, Wisconsin Wetland Inventory Map, Natural Resource Conservation Service (NRCS) Soil Survey Map, and aerial photographs. These sources were used to identify areas likely to contain wetlands.

Precipitation data from approximately 90 days prior to the field investigation were obtained from a weather station near the Study Areas. These data were compared with 30-year average precipitation data obtained from a NRCS WETS Table for the County where the Study Area was located to determine if antecedent hydrologic conditions at the time of the site visit were normal, wetter, or drier than the normal range.

2.2 On-Site Field Investigation

Areas having wetland indicators within the Study Areas were evaluated in the field by TRC wetland scientists Amanda Larsen and Kara Kikkert on September 9, 2015. Sample points were

located in areas exhibiting wetland and upland characteristics to document the presence and/or absence of wetlands and to provide support for the delineated wetland boundaries. At each sample point, data were collected to document the vegetation and hydrophytic vegetation indicators, soil profiles and hydric soil indicators, and wetland hydrology indicators.

Plant species were identified at each sample point and their wetland indicator status; obligate wetland (OBL), facultative wetland (FACW), facultative (FAC), facultative upland (FACU), or upland (UPL); was determined by referencing The National Wetland Plant List (Lichvar 2014). Soil pits were dug to a minimum of 24 inches, where there was no restrictive layer, and soil profiles were evaluated for presence of hydric soil indicators. Soil color was determined using a Munsell soil color chart. The sample point plots and soil pits were evaluated for presence of wetland hydrology indicators.

The wetland boundaries were delineated and staked using wire pin flags and when needed flagging tape. Wetland boundaries were generally determined by distinct to subtle differences in the abundance of hydrophytic vegetation and non-hydrophytic vegetation, presence versus absence of hydric soil indicators, and presence versus absence of wetland hydrology indicators.

3.0 RESULTS

3.1 Off-Site Review

The two-Foot Contour Map (Appendix A, Figure 2) showed elevations ranging from 752 to 784 feet above sea level. Wetland hydrology appeared to be sustained by surface water. Based on this map, it appears that surface water would flow to the central portion of Area A and the northwest portion of Area B.

According to the NRCS Soil Survey map (Appendix A, Figure 3) seven mapped soil units are located within the Study Areas. The soils mapped within the Study Areas are listed on Table 1 below.

Table 1 – Mapped Soils

Map Unit Symbol	Taxonomic Classification	Hydric Classification
CeC2	Casco loam	Not hydric
CeD2	Casco loam	Not hydric
CrD2	Casco-Rodman complex	Not hydric
FoB	Fox loam	Partially hydric
FsB	Fox silt loam	Not hydric
Ht	Houghton much	All hydric
RaA	Radford silt loam	Not hydric

The Wisconsin Wetland Inventory (WWI) map (Appendix A, Figure 4) depicted three wetlands within the Study Areas. The types of wetland shown on the WWI map are listed in Table 2 below.

Table 2 – Mapped WWI Wetland Types

Map Unit Symbol	Description
WOHx	Open water; Subclass unknown; Standing water, Palustrine; Excavated.
T3/WOH	Forested, broad-leaved deciduous wetland/Open Water Class; Subclass unknown; Standing water, Palustrine.
T1/S3K	Forested; Deciduous/Scrub-shrub; Broad-leaved deciduous; Wet soil, Palustrine.

A review of aerial imagery from 2000, 2005, 2008, 2013, and 2015 (Appendix A, Figures 5 - 9) shows Study Area A is comprised of a mosaic of open grassy areas, shrubby areas, scattered mature trees, and open water. Study Area B is comprised of hardwood deciduous forest habitat. There did not appear to be any land use changes during this period.

The SEWRPC Environmental Corridor Map (Appendix A, Figure 10) depicts the majority of both Study Areas (A and B) as Primary Environmental Corridor with Surface Water inside Area A.

The SEWRPC Land Use Map (Appendix A, Figure 11) depicts Agricultural and Other Open Lands, Surface Water, Wetlands, and Woodlands as the existing land use types.

Prior to conducting the field visit, antecedent precipitation data were analyzed. Data were obtained from a nearby weather station (Paddock Lake USC00476380) and compared to data from a nearby WETS station (Kenosha, WI4174). The Paddock Lake station is located less than 8.5 miles east of the Study Areas. The most recent rainfall event prior to the site visit was 0.25 inches, which occurred on August 30, 2015. Precipitation for the 14 days prior to the site visit was 1.19 inches. The precipitation data for the 90 day period prior to the field visit (Appendix D, Table 1, WETS table 2) were entered into a WETS analysis worksheet (Appendix D, Table 2) to weight the information from each preceding month to analyze hydrologic conditions. Based on this analysis, the antecedent hydrologic conditions were considered to be within a normal range, suggesting that climatic/hydrologic conditions were normal for this time of year.

3.2 On-Site Field Investigation

3.2.1 Site Description

Study Area A is located in the eastern portion of the Naber property. This 6.5 acre Study Area was comprised mostly of wetland communities including fresh (wet) meadow and hardwood swamp communities with areas of open water. Upland forest, upland meadow, and turf grass areas surround the delineated wetland within the Study Area.

Study Area B is located in the northwestern portion of the Naber Property. This 1.25 acre area is comprised of upland hardwood forest habitat with a predominantly black cherry canopy and hickory and box elder understory.

3.2.2 Uplands

Upland plant communities observed in the Study Areas included deciduous forest (Study Area B) dominated by *Prunus serotina* (black cherry), and upland meadows dominated by *Solidago canadensis* (Canada goldenrod) (Study Area A). Sample points DP-1, DP-3, DP-5, and DP-7 were located in uplands.

3.2.3 Wetlands

One wetland (WL-1) was delineated. The delineated wetland boundary and sample points are shown on the Wetland Delineation Map (Exhibit A) in Appendix C. Photographs were taken at sample points and other notable locations (Appendix D). Data were collected and recorded on Wetland Determination Data Forms at seven sample points to document wetland and upland locations (Appendix E).

Wetland 1

Wetland 1 (WL-1) was approximately 2.72 acres within Study Area A and consisted of two distinct plant communities; fresh (wet) meadow and hardwood swamp habitats surrounded by shallow open water. WL-1 extends beyond Study Area A to the east.

Three wetland sample points (DP-2, DP-4, and DP-6) were taken within WL-1. Dominant vegetation at DP-2 consisted of *Elymus virginicus* (Virginia wild rye) and *Phalaris arundinacea* (reed canary grass) in the herb stratum. Dominant vegetation at DP-4 consisted of *Acer saccharinum* (silver maple) in the tree stratum and *Phalaris arundinacea* and *Bidens tripartita* (three-lobed beggarticks) in the herb stratum. Dominant vegetation at DP-6 included *Acer saccharinum* in the tree stratum, *Lonicera tatarica* (tatarian honeysuckle) in the shrub stratum, and *Bidens tripartita*, *Laportea canadensis* (Canadian wood-nettle), and *Leersia oryzoides* (rice cutgrass) in the herb stratum. Hydrology generally appeared to be sustained by two surface water and a high groundwater table. Indicators of wetland hydrology at the sample points included High Water Table (A2), Saturation (A3), Water Marks (B1), Oxidized Rhizospheres along Living Roots (C3), Dry Season Water Table (C2), Geomorphic Position (D2), and a positive FAC-neutral Test (D5). Soils observed at the sample points displayed strong indicators of hydric soil including: Depleted Below Dark Surface (A11), Loamy Gleyed Matrix (F2), Redox Dark Surface (F6), Depleted Matrix (F3), and Redox Depressions (F8) soil indicators.

The boundary of WL-1 was based on subtle to distinct topographic breaks, the boundary between hydrophytic and non-hydrophytic vegetation, the presence and absence of wetland hydrology indicators, and the boundary between hydric and non-hydric soil.

4.0 CONCLUSIONS

The wetland delineation completed by TRC resulted in one delineated wetland (WL-1) totaling 2.72 acres within the 7.75 acre Study Areas. No other aquatic resources were observed within the Study Areas.

The results of this field study are based on site conditions at the time of the field study, which was conducted in accordance with current regulatory policy and methods. Unknown and future conditions that affect observations of field indicators, and change in interpretation of regulatory policy or methods, may modify future findings.

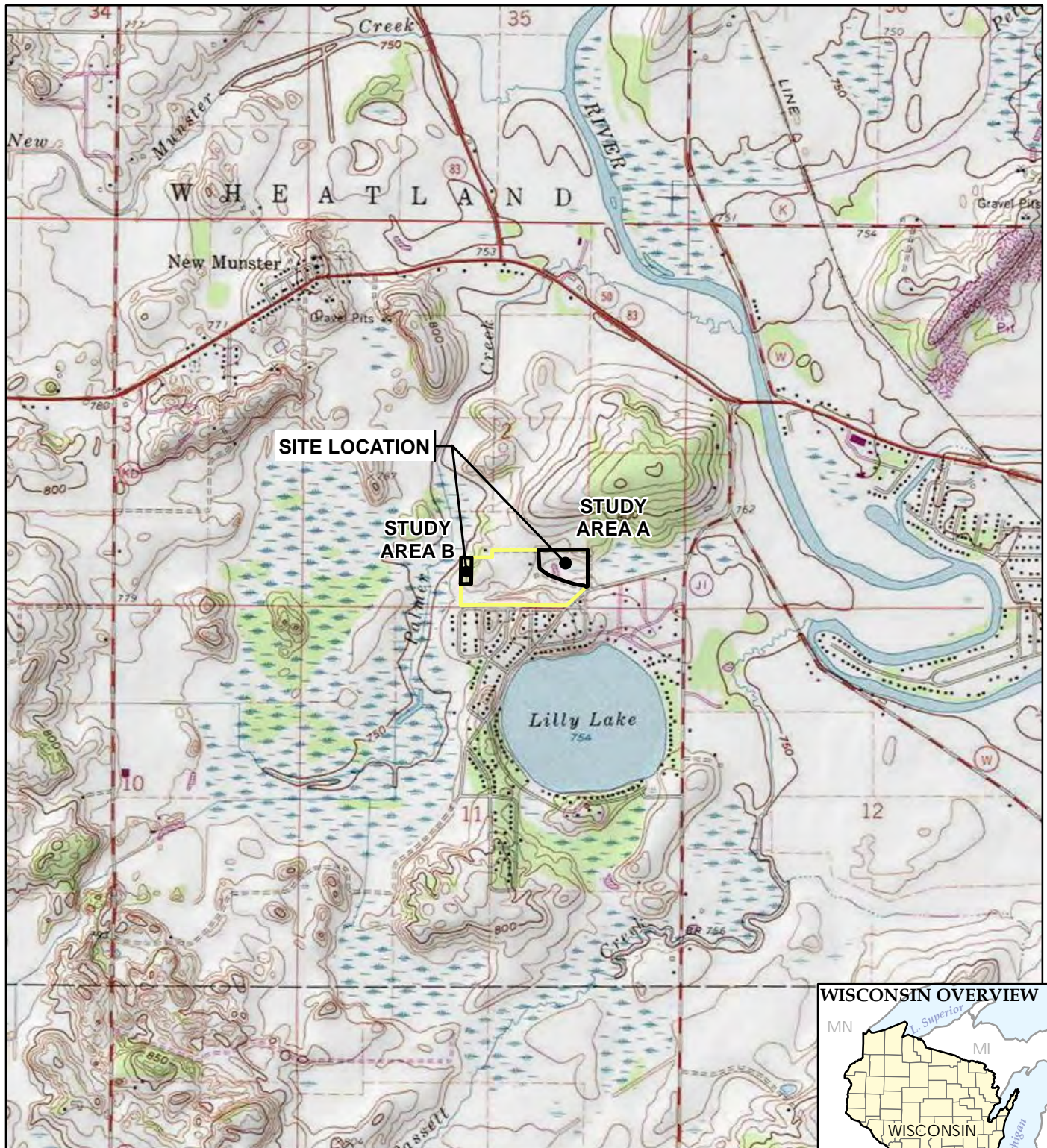
The ultimate authority to determine the location of the wetland boundary and jurisdictional authority over the wetlands and waterways identified in this report resides with the USACE and WDNR. Decisions made by staff of these regulatory agencies may result in modifications to the location of the wetland and/or waterway boundaries shown in this report.

TRC recommends that coordination with the USACE, the WDNR, and local governments be conducted prior to implementing any activity that is in near proximity or is within wetlands or waterways to determine if a permit would be needed to perform the activity.

5.0 REFERENCES

- Charts, Munsell Soil Color. "Munsell color." *Macbeth Division of Kollmorgen Instruments Corporation, New Windsor, NY 12553* (1994).
- Eggers, Steve D. and Donald M. Reed. 1997. Wetland Plants and Plant Communities of Minnesota and Wisconsin. 2nd Ed. U.S. Army Corps of Engineers, St. Paul District. Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual. Technical Report Y-87-1, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.
- Lichvar, R.W., M. Butterwick, N.C. Melvin, and W.N. Kirchner. 2014. The National Wetland Plant List: 2014 Update of Wetland Ratings. *Phytoneuron* 2014-41: 1-42.
- Midwestern Regional Climate Center cli-MATE Database
<http://mrcc.isws.illinois.edu/CLIMATE/>
- Southeastern Wisconsin Regional Planning Commission (SEWRPC) Southeastern Wisconsin Regional Land Information: Regional Map Server
<http://maps.sewrpc.org/regionallandinfo/regionalmapping/RegionalMaps/viewer.htm>
- Swink, Floyd, and Gerould Wilhelm. 1994. "Plants of the Chicago region." Indianapolis: Indiana Academy of Science.
- U.S. Army Corps of Engineers. 2011. *Regional Supplement to the Corps of Engineers Wetland Delineation Training Manual: Northcentral and Northeast Region (Version 2.0)*, ed. J.S. Wakeley, R. W. Lichvar, C.V. Noble, and J.F. Berkowitz. ERDC/EL TR-12-1. Vicksburg, MS: U.S. Army Engineer Research and Development Center.
- U.S. Army Corps of Engineers. St. Paul District Regulatory. Special Public Notice. Issued: March 4, 2015. Guidance for Submittal of Delineation Reports to the St. Paul District Army Corps of Engineers and the Wisconsin Department of Natural Resources.
- USDA Natural Resources Conservation Service Web Soil Survey
<http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>
- USDA NRCS Climate Analysis by County Web Site (WETS). (Web Address:
<http://www.wcc.nrcs.usda.gov/climate/wetlands.html>)

APPENDIX A: FIGURES



BASE MAP FROM USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE SERIES.



150 North Patrick Blvd.
Suite 180
Brookfield, WI 53045
Phone: 262.879.1212

TRC - GIS

PROJECT:

**NABER PROPERTY WETLAND DELINEATION
33202 73RD ST., TOWN OF WHEATLAND, WISCONSIN**

TITLE:

SITE LOCATION MAP

DRAWN BY: SUEMNICHT R

CHECKED BY: BROTKOWSKI L

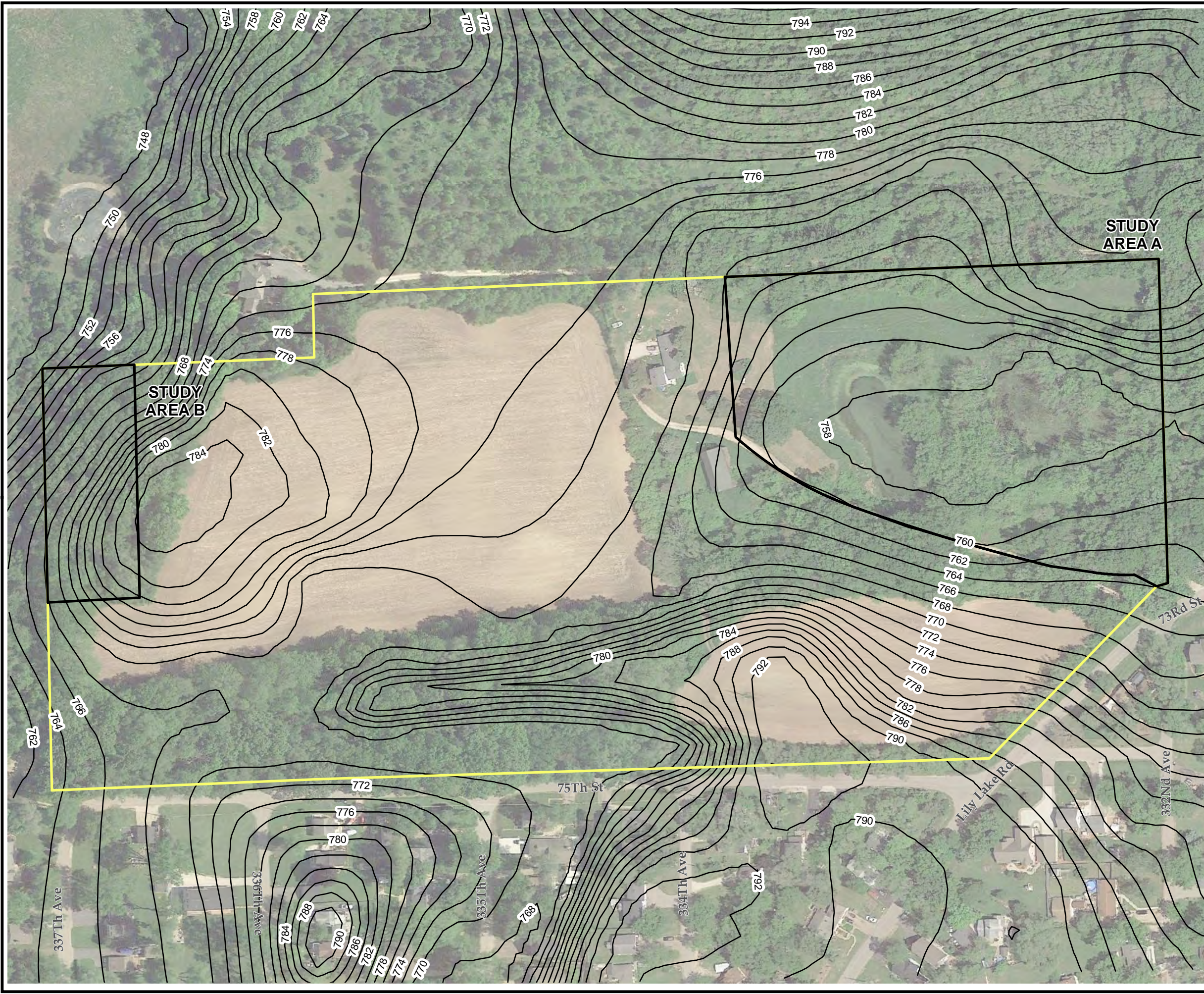
APPROVED BY: LONDRE R

DATE: SEPTEMBER 2015

PROJ. NO.: 243428

FILE: 243428-001slm.mxd

FIGURE 1



LEGEND

STUDY AREAS

PROPERTY BOUNDARY

2' CONTOUR INTERVAL

NOTES

1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO & PARTNERS, JUNE 2015.

2. CONTOURS DERIVED FROM USGS, NATIONAL ELEVATION DATASET, 1/3RD ARCSECOND RESOLUTION.

0150300

Feet

1" = 150'
1:1,800

PROJECT:

**NABER PROPERTY WETLAND DELINEATION
33202 73RD ST., TOWN OF WHEATLAND, WISCONSIN**

TITLE:

CONTOUR MAP

DRAWN BY:SUERNICHT R

CHECKED BY:BROTKOWSKI L

APPROVED BY:LONDRE R

DATE:SEPTEMBER 2015

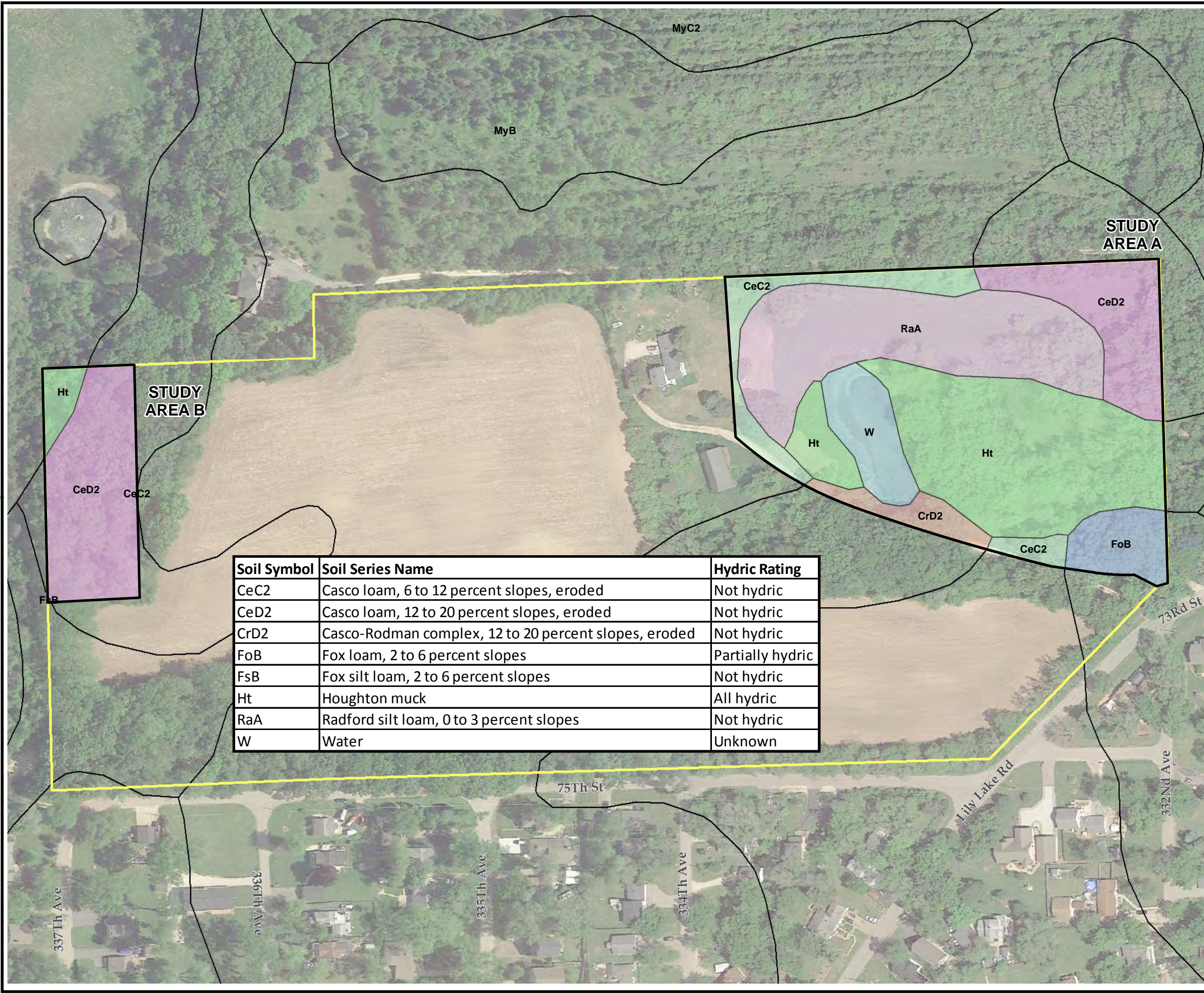
PROJ NO.:243428

FIGURE 2

TRC

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Phone: 262.879.1212
www.trcsolutions.com

FILE NO.:243428-002.mxd



Soil Symbol	Soil Series Name	Hydric Rating
CeC2	Casco loam, 6 to 12 percent slopes, eroded	Not hydric
CeD2	Casco loam, 12 to 20 percent slopes, eroded	Not hydric
CrD2	Casco-Rodman complex, 12 to 20 percent slopes, eroded	Not hydric
FoB	Fox loam, 2 to 6 percent slopes	Partially hydric
FsB	Fox silt loam, 2 to 6 percent slopes	Not hydric
Ht	Houghton muck	All hydric
RaA	Radford silt loam, 0 to 3 percent slopes	Not hydric
W	Water	Unknown

LEGEND

STUDY AREAS

PROPERTY BOUNDARY

SOIL CLASSIFICATION

CASCO LOAM, 6 TO 12 PERCENT SLOPES, ERODED

CASCO LOAM, 12 TO 20 PERCENT SLOPES, ERODED

CASCO-RODMAN COMPLEX, 12 TO 20 PERCENT SLOPES, ERODED

FOX LOAM, 2 TO 6 PERCENT SLOPES

FOX SILT LOAM, 2 TO 6 PERCENT SLOPES

HOUGHTON MUCK

RADFORD SILT LOAM, 0 TO 3 PERCENT SLOPES

WATER

NOTES

1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO & PARTNERS, JUNE 2015.

2. SOILS DATA FROM USDS/NRCS SSURGO DATABASE.

0150300

Feet

1" = 150'
1:1,800

PROJECT:

NABER PROPERTY WETLAND DELINEATION
33202 73RD ST., TOWN OF WHEATLAND, WISCONSIN

TITLE:

NRCS SOILS MAP

DRAWN BY:SUEMNICHT R

CHECKED BY:BROTKOWSKI L

APPROVED BY:LONDRE R

DATE:SEPTEMBER 2015

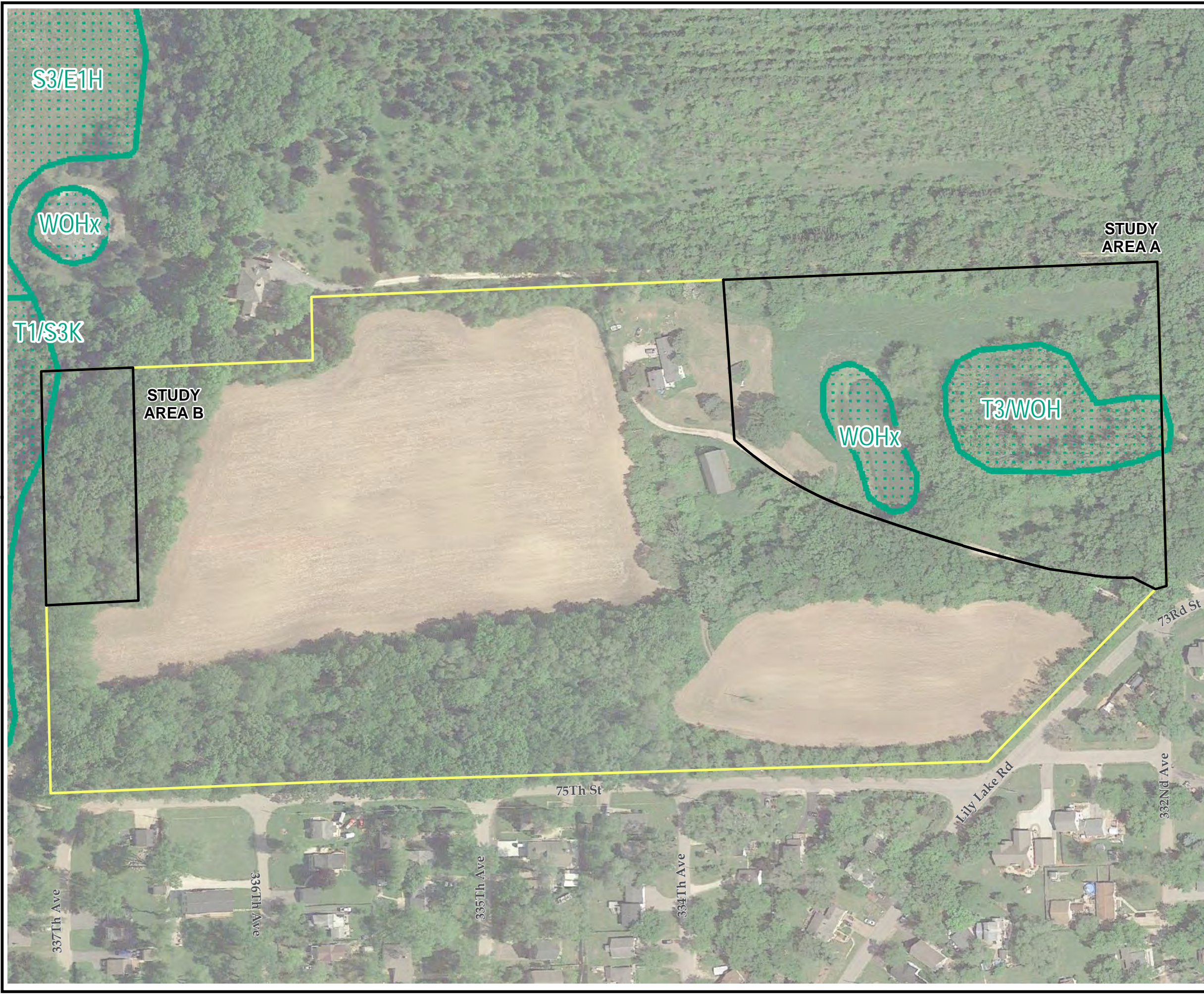
PROJ NO.:243428

FIGURE 3

TRC

150 North Patrick Blvd., Suite 180
Brookfield, WI 53045
Phone: 262.879.1212
www.trcsolutions.com

FILE NO.:243428-003.mxd



LEGEND

STUDY AREAS

PROPERTY BOUNDARY

WDNR WWI WETLANDS

NOTES

1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO & PARTNERS, JUNE 2015.

2. WDNR WWI WETLANDS ACQUIRED FROM WISCONSIN DEPARTMENT OF NATURAL RESOURCES.

0150300

Feet

1" = 150'

1:1,800

PROJECT:

NABER PROPERTY WETLAND DELINEATION
33202 73RD ST., TOWN OF WHEATLAND, WISCONSIN

TITLE:

DNR WWI MAP

DRAWN BY:SUERNICHT R

CHECKED BY:BROTKOWSKI L

APPROVED BY:LONDRE R

DATE:SEPTEMBER 2015

PROJ NO.:243428

FIGURE 4

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FILE NO.:243428-004.mxd



LEGEND

STUDY AREAS

PROPERTY BOUNDARY

NOTES

1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO AND PARTNERS, APRIL 2000 .

0150300

Feet

1" = 150'

1:1,800

PROJECT:	
NABER PROPERTY WETLAND DELINEATION 33202 73RD ST., TOWN OF WHEATLAND, WISCONSIN	
TITLE:	
2000 AERIAL IMAGE	
DRAWN BY:	SUEMNICHT R
CHECKED BY:	BROTKOWSKI L
APPROVED BY:	LONDRE R
DATE:	SEPTEMBER 2015
FIGURE 5	
150 North Patrick Blvd., Suite 180 Brookfield, WI 53045 Phone: 262.879.1212 www.trcsolutions.com	
FILE NO.:	243428-005.mxd



LEGEND

STUDY AREAS

PROPERTY BOUNDARY

NOTES

1. BASE MAP IMAGERY FROM NATIONAL AGRICULTURE INVENTORY PROGRAM (NAIP), 2005.

0150300

Feet

1" = 150'

1:1,800

PROJECT:

NABER PROPERTY WETLAND DELINEATION
33202 73RD ST., TOWN OF WHEATLAND, WISCONSIN

TITLE:

2005 AERIAL IMAGE

DRAWN BY: SUEMNICHT R

CHECKED BY: BROTKOWSKI L

APPROVED BY: LONDRE R

DATE: SEPTEMBER 2015

PROJ NO.: 243428

FIGURE 6

TRC

150 North Patrick Blvd., Suite 180
Brookfield, WI 53045
Phone: 262.879.1212
www.trcsolutions.com

FILE NO.: 243428-006.mxd



LEGEND

STUDY AREAS

PROPERTY BOUNDARY

NOTES


1. BASE MAP IMAGERY FROM NATIONAL AGRICULTURE INVENTORY PROGRAM (NAIP), 2008 .

0150300

Feet

1" = 150'

1:1,800

PROJECT: NABER PROPERTY WETLAND DELINEATION 33202 73RD ST., TOWN OF WHEATLAND, WISCONSIN			
TITLE: 2008 AERIAL IMAGE			
DRAWN BY:	SUEMNICHT R	PROJ NO.:	243428
CHECKED BY:	BROTKOWSKI L	FIGURE 7	
APPROVED BY:	LONDRE R		
DATE:	SEPTEMBER 2015		
		150 North Patrick Blvd., Suite 180 Brookfield, WI 53045 Phone: 262.879.1212 www.trcsolutions.com	
FILE NO.:		243428-007.mxd	



LEGEND

STUDY AREAS

PROPERTY BOUNDARY

NOTES

1. BASE MAP IMAGERY FROM NATIONAL AGRICULTURE INVENTORY PROGRAM (NAIP), 20 13.

N

0

150

300

Feet

1" = 150'

1:1,800

PROJECT:

NABER PROPERTY WETLAND DELINEATION
33202 73RD ST., TOWN OF WHEATLAND, WISCONSIN

TITLE:

2013 AERIAL IMAGE

DRAWN BY: SUEMNICHT R


CHECKED BY: BROTKOWSKI L

APPROVED BY: LONDRE R

DATE: SEPTEMBER 2015

PROJ NO.: 243428

FIGURE 8



150 North Patrick Blvd., Suite 180
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Phone: 262.879.1212
www.trcsolutions.com

FILE NO.: 243428-008.mxd



LEGEND

STUDY AREAS

PROPERTY BOUNDARY

NOTES

1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO AND PARTNERS, JUNE 2015 .

0150300

Feet

1" = 150'

1:1,800

PROJECT:

NABER PROPERTY WETLAND DELINEATION
33202 73RD ST., TOWN OF WHEATLAND, WISCONSIN

TITLE:

2015 AERIAL IMAGE

DRAWN BY: SUEMNICHT R

CHECKED BY: BROTKOWSKI L

APPROVED BY: LONDRE R

DATE: SEPTEMBER 2015

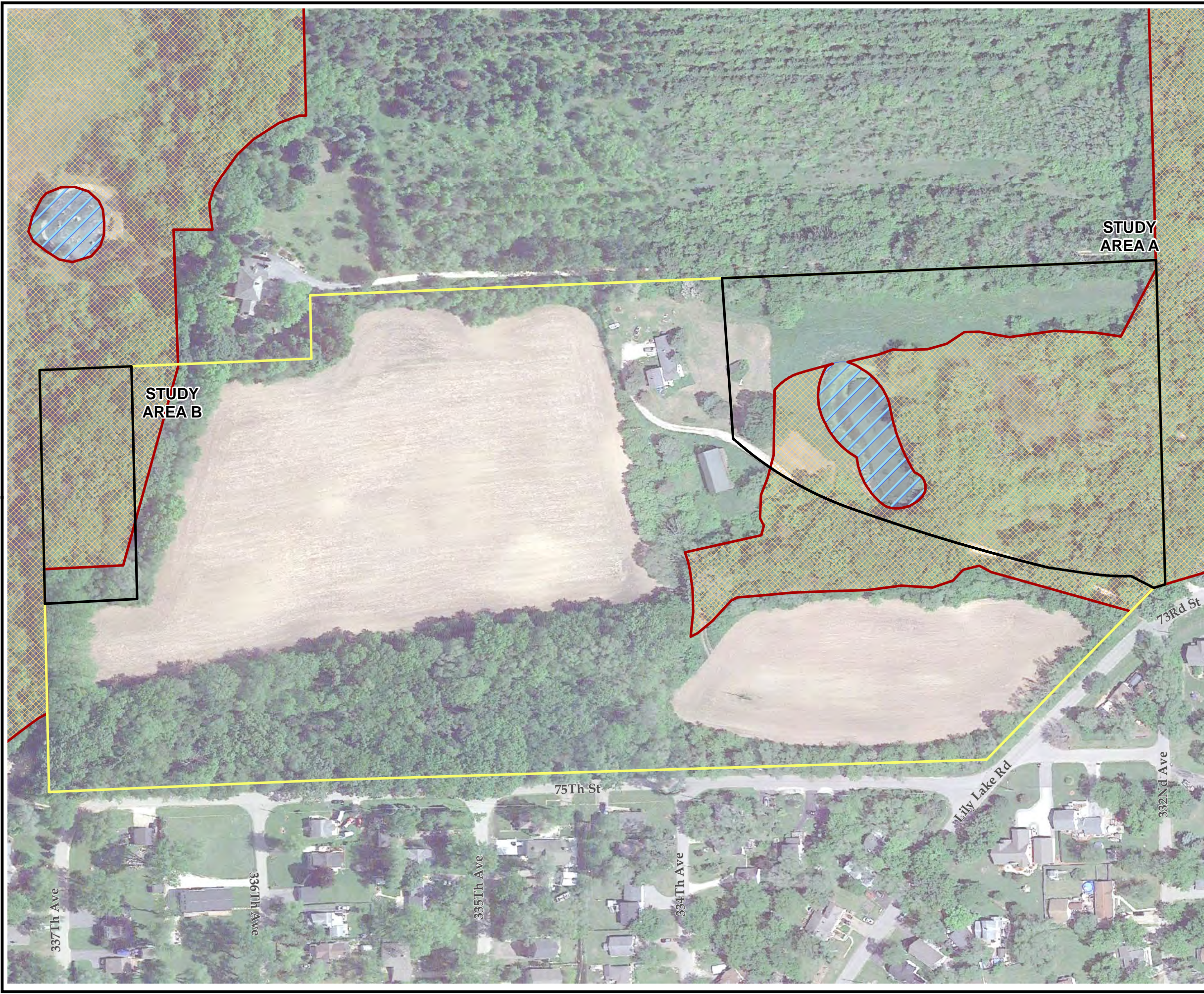
PROJ NO.: 243428

FIGURE 9

TRC

150 North Patrick Blvd., Suite 180
Brookfield, WI 53045
Phone: 262.879.1212
www.trcsolutions.com

FILE NO.: 243428-009.mxd



LEGEND

- STUDY AREAS
- PROPERTY BOUNDARY
- PRIMARY ENVIRONMENTAL CORRIDOR
- SURFACE WATER INSIDE PEC

NOTES

- BASE MAP IMAGERY FROM GOOGLE EARTH PRO & PARTNERS, JUNE 2015.
- ENVIRONMENTAL CORRIDOR INFORMATION FROM SOUTHEAST WISCONSIN REGIONAL PLANNING COMMISSION (SEWRPC).

0 150 300 Feet
1" = 150'
1:1,800

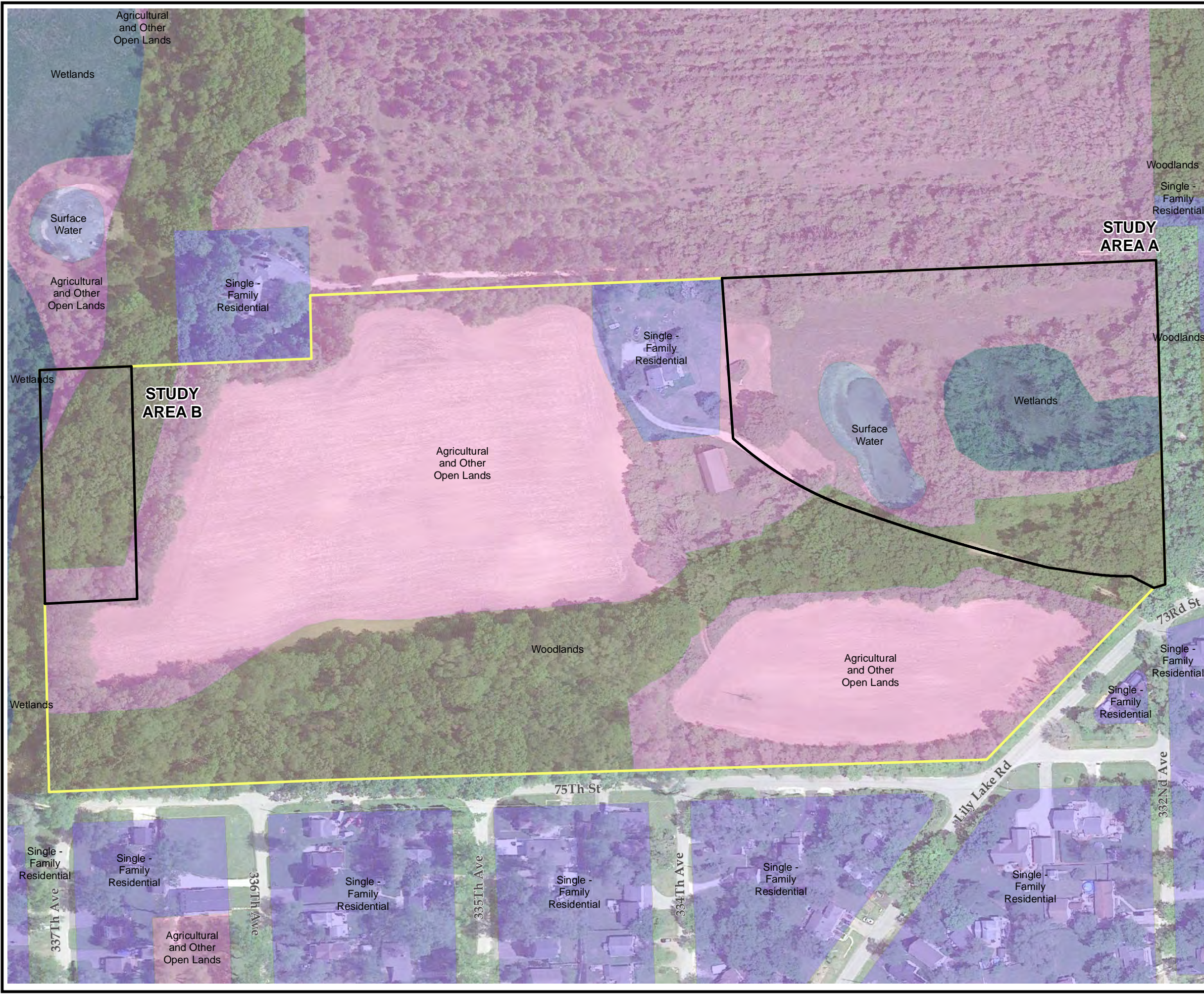
PROJECT:
**NABER PROPERTY WETLAND DELINEATION
33202 73RD ST., TOWN OF WHEATLAND, WISCONSIN**

TITLE:
SEWRPC ENVIRONMENTAL CORRIDOR MAP

DRAWN BY:	SUEMNICHT R	PROJ NO.:	243428
CHECKED BY:	BROTKOWSKI L	FIGURE 10	
APPROVED BY:	LONDRE R		
DATE:	SEPTEMBER 2015		

150 North Patrick Blvd., Suite 180
Brookfield, WI 53045
Phone: 262.879.1212
www.trcsolutions.com

FILE NO.: 243428-010.mxd



LEGEND

STUDY AREAS

PROPERTY BOUNDARY

AGRICULTURAL AND OTHER OPEN LANDS

SINGLE - FAMILY RESIDENTIAL

SURFACE WATER

WETLANDS

WOODLANDS

NOTES

1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO & PARTNERS, JUNE 2015.

2. LAND USE INFORMATION FROM SOUTHEAST WISCONSIN REGIONAL PLANNING COMMISSION (SEWRPC).

0150300

Feet

1" = 150'

1:1,800

PROJECT:

**NABER PROPERTY WETLAND DELINEATION
33202 73RD ST., TOWN OF WHEATLAND, WISCONSIN**

TITLE:

SEWRPC LAND USE MAP

DRAWN BY: SUEMNICHT R

CHECKED BY: BROTKOWSKI L

APPROVED BY: LONDRE R

DATE: SEPTEMBER 2015

PROJ NO.: 243428

FIGURE 11

150 North Patrick Blvd., Suite 180
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FILE NO.: 243428-011.mxd



LEGEND

STUDY AREAS

PROPERTY BOUNDARY

UPLAND SAMPLE LOCATION

WETLAND SAMPLE LOCATION

TRC DELINEATED WETLAND

NOTES

1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO & PARTNERS, JUNE 2015.

0150300

Feet

1" = 150'

1:1,800

PROJECT: NABER PROPERTY WETLAND DELINEATION 33202 73RD ST., TOWN OF WHEATLAND, WISCONSIN		
TITLE: WETLAND DELINEATION MAP		
DRAWN BY: SUEMNICHT R	PROJ NO.: 243428	EXHIBIT A
CHECKED BY: BROTKOWSKI L		
APPROVED BY: LONDRE R		
DATE: SEPTEMBER 2015		
		150 North Patrick Blvd., Suite 180 Brookfield, WI 53045 Phone: 262.879.1212 www.trcsolutions.com
FILE NO.:	243428-012.mxd	

APPENDIX B:
ANTECEDENT PRECIPITATION DATA / WETS ANALYSIS

Table 1: Antecedent Precipitation Data					
June 10, 2015 - September 7, 2015					
3rd Month Prior		2nd Month Prior		1st Month Prior	
Date	PPT	Date	PPT	Date	PPT
6/10/2015	0	7/10/2015	0	8/9/2015	0
6/11/2015	0	7/11/2015	0	8/10/2015	0
6/12/2015	0.92	7/12/2015	0.06	8/11/2015	0.03
6/13/2015	0.09	7/13/2015	0.47	8/12/2015	0
6/14/2015	0.72	7/14/2015	0.03	8/13/2015	0
6/15/2015	0.32	7/15/2015	0	8/14/2015	0
6/16/2015	1.13	7/16/2015	0	8/15/2015	0.3
6/17/2015	0	7/17/2015	0.8	8/16/2015	0.06
6/18/2015	0	7/18/2015	0.01	8/17/2015	0
6/19/2015	0	7/19/2015	1.21	8/18/2015	0.95
6/20/2015	0.04	7/20/2015	0	8/19/2015	0.31
6/21/2015	0.04	7/21/2015	0	8/20/2015	0
6/22/2015	0	7/22/2015	0	8/21/2015	0
6/23/2015	0.4	7/23/2015	0	8/22/2015	0
6/24/2015	0	7/24/2015	0	8/23/2015	0
6/25/2015	0.1	7/25/2015	0	8/24/2015	0
6/26/2015	0	7/26/2015	0	8/25/2015	0
6/27/2015	0	7/27/2015	0	8/26/2015	0
6/28/2015	0	7/28/2015	0	8/27/2015	0
6/29/2015	0.13	7/29/2015	0	8/28/2015	0
6/30/2015	0.05	7/30/2015	0	8/29/2015	0.94
7/1/2015	0	7/31/2015	0	8/30/2015	0.25
7/2/2015	0	8/1/2015	0	8/31/2015	0
7/3/2015	0	8/2/2015	0	9/1/2015	0
7/4/2015	0	8/3/2015	0.74	9/2/2015	0
7/5/2015	0	8/4/2015	0	9/3/2015	0
7/6/2015	0	8/5/2015	0	9/4/2015	0
7/7/2015	0.45	8/6/2015	0	9/5/2015	0
7/8/2015	0	8/7/2015	0	9/6/2015	0
7/9/2015	0	8/8/2015	0.1	9/7/2015	0
Total =	4.39	Total =	3.42	Total =	2.84

*No data available for 9/8/15 at time of report preparation.



Table 2: WETS Analysis

Project Site: Naber Property
 Period of interest: June-August 2015
 County: Kenosha

Long-term rainfall records (from WETS table)

	Month	3 years in 10 less than	Normal	3 years in 10 greater than
1st month prior:	AUG	2.43	4.19	5.04
2nd month prior:	JUL	2.43	3.68	4.41
3rd month prior:	JUN	2.28	3.59	4.33
Sum =			11.46	

Site determination

Site Rainfall (in)	Condition Dry/Normal*/Wet	Condition** Value	Month Weight	Product
2.84	Normal	2	3	6
3.42	Normal	2	2	4
4.39	Wet	3	1	3
Sum =	10.65		Sum*** =	13

*Normal precipitation with 30% to 70% probability of occurrence

Determination: Wet
 Dry
 x Normal

**Condition value:

***If sum is:

Dry = 1	6 to 9	then period has been drier than normal
Normal = 2	10 to 14	then period has been normal
Wet = 3	15 to 18	then period has been wetter than normal

Precipitation data source: Paddock Lake Weather station USC00476380

WETS Station: Kenosha, WI4174

Reference:

Donald E. Woodward, ed. 1997. *Hydrology Tools for Wetland Determination*, Chapter 19. Engineering Field Handbook. U.S. Department of Agriculture, Natural Resources Conservation Service, Fort Worth, TX.



**APPENDIX C:
WETLAND DELINEATION MAP**



LEGEND

- STUDY AREAS
- PROPERTY BOUNDARY
- UPLAND SAMPLE LOCATION
- WETLAND SAMPLE LOCATION
- TRC DELINEATED WETLAND

NOTES

1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO & PARTNERS, JUNE 2015.

0 150 300 Feet

1" = 150'

1:1,800

PROJECT: NABER PROPERTY WETLAND DELINEATION 33202 73RD ST., TOWN OF WHEATLAND, WISCONSIN		
TITLE: WETLAND DELINEATION MAP		
DRAWN BY: SUEMNICHT R	PROJ NO.: 243428	EXHIBIT A
CHECKED BY: BROTKOWSKI L		
APPROVED BY: LONDRE R		
DATE: SEPTEMBER 2015		
		150 North Patrick Blvd., Suite 180 Brookfield, WI 53045 Phone: 262.879.1212 www.trcsolutions.com
FILE NO.:	243428-012.mxd	

**APPENDIX D:
SITE PHOTOGRAPHS**

Photo 1:

View of WL-1 from
the northwest
wetland boundary.

Facing south



Photo 2:

View of WL-1 from
the eastern wetland
boundary.

Facing west



Photo 3:

View of WL-1 from
the northern wetland
boundary.

Facing southeast



Photo 4:

View of northern
wetland boundary.

Facing east



Photo 5:

Upland sample point
DP-1 in Study Area
B.

Facing west



Photo 6:

Wetland sample
point DP-2. Study
Area A, WL-1.

Facing west



Photo 7:

Transect 1, DP-2
(wetland) and DP-3
(upland) within Study
Area A.

Facing southwest



Photo 8:

Wetland sample
point DP-4. Study
Area A, WL-1.

Facing west



Photo 9:

Upland sample point
DP-5. Study Area A.

Facing southwest



Photo 10:

Wetland sample point
DP-6. Study Area A, WL-1.

Facing north-
northeast



Photo 11:

Upland sample point
DP-7. Study Area A.
Wetland boundary
flag also seen here.

Facing north-
northeast



APPENDIX E:
WETLAND DETERMINATION DATA FORMS

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Naber Property City/County: Wheatland/ Kenosha Sampling Date: 09-Sep-15

Applicant/Owner: Lynch & Associates/ Naber State: WI Sampling Point: DP-1 Upland

Investigator(s): Amanda Larsen and Kara Kikkert Section, Township, Range: S. 2 T. 1N R. 19E

Landform (hillslope, terrace, etc.): Footslope Local relief (concave, convex, none): convex Slope: 4.0 % / 2.3 °

Subregion (LRR or MLRA): LRR K Lat.: _____ Long.: _____ Datum: _____

Soil Map Unit Name: Houghton muck(Ht), all hydric NWI classification: T3/S3K

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.) Based on the absence of all three criteria, it is determined that this point is located in an upland.	

Hydrology

Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)		Secondary Indicators (minimum of 2 required)	
<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)	<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)	<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)	
Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____		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: Topo Map, Soils Map, WDNR WWI Map, Aerial Imagery, SEWPC environmental corridors and land use maps			
Remarks: The criterion for wetland hydrology is not met.			

VEGETATION - Use scientific names of plants

Sampling Point: DP-1 Upland

Tree Stratum (Plot size: 30' r)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Prunus serotina</i>	40	<input checked="" type="checkbox"/>	FACU
2. <i>Quercus rubra</i>	15	<input checked="" type="checkbox"/>	FACU
3. <i>Malus coronaria</i>	5	<input type="checkbox"/>	UPL
4. _____	0	<input type="checkbox"/>	_____
5. _____	0	<input type="checkbox"/>	_____
6. _____	0	<input type="checkbox"/>	_____
7. _____	0	<input type="checkbox"/>	_____
60 = Total Cover			
Sapling/Shrub Stratum (Plot size: 15' r)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Acer negundo</i>	30	<input checked="" type="checkbox"/>	FAC
2. <i>Carya cordiformis</i>	30	<input checked="" type="checkbox"/>	FAC
3. <i>Rhamnus cathartica</i>	15	<input type="checkbox"/>	FAC
4. <i>Lonicera tatarica</i>	5	<input type="checkbox"/>	FACU
5. _____	0	<input type="checkbox"/>	_____
6. _____	0	<input type="checkbox"/>	_____
7. _____	0	<input type="checkbox"/>	_____
80 = Total Cover			
Herb Stratum (Plot size: 5' r)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Rhamnus cathartica</i>	15	<input checked="" type="checkbox"/>	FAC
2. <i>Lonicera periclymenum</i>	10	<input checked="" type="checkbox"/>	UPL
3. <i>Prunus serotina</i>	10	<input checked="" type="checkbox"/>	FACU
4. <i>Acer saccharum</i>	5	<input type="checkbox"/>	FACU
5. <i>Arisaema triphyllum</i>	5	<input type="checkbox"/>	FAC
6. <i>Circaea canadensis</i>	5	<input type="checkbox"/>	FACU
7. <i>Geum canadense</i>	5	<input type="checkbox"/>	FAC
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"/>	_____
55 = Total Cover			
Woody Vine Stratum (Plot size: 30' r)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	0	<input type="checkbox"/>	_____
2. _____	0	<input type="checkbox"/>	_____
3. _____	0	<input type="checkbox"/>	_____
4. _____	0	<input type="checkbox"/>	_____
0 = Total Cover			

Dominance Test worksheet:

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

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

Percent of dominant Species That Are OBL, FACW, or FAC: 42.9% (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>100</u>	x 3 = <u>300</u>
FACU species <u>80</u>	x 4 = <u>320</u>
UPL species <u>15</u>	x 5 = <u>75</u>
Column Totals: <u>195</u> (A)	<u>695</u> (B)
Prevalence Index = B/A = <u>3.564</u>	

Hydrophytic Vegetation Indicators:

☐ Rapid Test for Hydrophytic Vegetation

☐ Dominance Test is > 50%

☐ Prevalence Index is ≤3.0 ¹

☐ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)

☐ Problematic Hydrophytic Vegetation ¹ (Explain)

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

Definitions of Vegetation Strata:

Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall..

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

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

Hydrophytic Vegetation Present? Yes ☐ No ☒

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

The criterion for hydrophytic vegetation is not met. This data point is located in a disturbed deciduous forest.

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

Soil

Sampling Point: DP-1 Upland

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

[illegible]

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

Hydric Soil Indicators:

- ☐ Hystosol (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)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☐ No ☒

Remarks:

The criterion for hydric soil is not met.

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Naber Property City/County: Wheatland/ Kenosha Sampling Date: 09-Sep-15

Applicant/Owner: Lynch & Associates/ Naber State: WI Sampling Point: DP-2 Wetland

Investigator(s): Amanda Larsen and Kara Kikkert Section, Township, Range: S. 2 T. 1N R. 19E

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

Subregion (LRR or MLRA): LRR K Lat.: _____ Long.: _____ Datum: _____

Soil Map Unit Name: Radford silt loam (RaA), partially hydric 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.)

Based on the presence of all three parameters, it is determined that this point is located in a wetland. Wetland ID: WL-1

Hydrology

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one required; check all that apply)</u>		<u>Secondary Indicators (minimum of 2 required)</u>	
<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)	<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 checked="" 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)	<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)	

Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____		Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
 Topo Map, Soils Map, WDNR WWI Map, Aerial Imagery, SEWPC environmental corridors and land use maps

Remarks:
 The criterion for wetland hydrology is met.

VEGETATION - Use scientific names of plants

Sampling Point: DP-2 Wetland

Tree Stratum	(Plot size: 30' r)	Absolute % Cover	Dominant Species?	Indicator Status
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: 15' r)	Absolute % Cover	Dominant Species?	Indicator Status
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: 5' r)	Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Elymus virginicus</i>	50	<input checked="" type="checkbox"/>	FACW
2.	<i>Phalaris arundinacea</i>	50	<input checked="" type="checkbox"/>	FACW
3.	<i>Agrostis gigantea</i>	15	<input type="checkbox"/>	FACW
4.	<i>Dactylis glomerata</i>	10	<input type="checkbox"/>	FACU
5.	<i>Elymus repens</i>	5	<input type="checkbox"/>	FACU
6.	<i>Rumex crispus</i>	5	<input type="checkbox"/>	FAC
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"/>	
		135	= Total Cover	
Woody Vine Stratum	(Plot size: 30' r)	Absolute % Cover	Dominant Species?	Indicator Status
1.		0	<input type="checkbox"/>	
2.		0	<input type="checkbox"/>	
3.		0	<input type="checkbox"/>	
4.		0	<input type="checkbox"/>	
		0	= Total Cover	

Dominance Test worksheet:

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

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

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

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>115</u>	x 2 = <u>230</u>
FAC species <u>5</u>	x 3 = <u>15</u>
FACU species <u>15</u>	x 4 = <u>60</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>135</u> (A)	<u>305</u> (B)
Prevalence Index = B/A = <u>2.259</u>	

Hydrophytic Vegetation Indicators:

☒ Rapid Test for Hydrophytic Vegetation

☒ Dominance Test is > 50%

☒ Prevalence Index is ≤3.0 ¹

☐ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)

☐ Problematic Hydrophytic Vegetation ¹ (Explain)

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

Definitions of Vegetation Strata:

Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall..

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

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

Hydrophytic Vegetation Present? Yes ☒ No ☐

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

The criterion for hydrophytic vegetation is met. This data point is located in a fresh (wet) meadow plant community.

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

Soil

Sampling Point: DP-2 Wetland

[illegible]

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Naber Property City/County: Wheatland/ Kenosha Sampling Date: 09-Sep-15

Applicant/Owner: Lynch & Associates/ Naber State: WI Sampling Point: DP-3 Upland

Investigator(s): Amanda Larsen and Kara Kikkert Section, Township, Range: S. 2 T. 1N R. 19E

Landform (hillslope, terrace, etc.): Shoulder slope Local relief (concave, convex, none): convex Slope: 2.0 % / 1.1 °

Subregion (LRR or MLRA): LRR K Lat.: _____ Long.: _____ Datum: _____

Soil Map Unit Name: Casco loam (CeC2), not hydric 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.) Based on the absence of all three parameters, it is determined that this point is located in an upland.	

Hydrology

Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)		Secondary Indicators (minimum of 2 required)	
<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)	<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)	<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)	
Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____		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: Topo Map, Soils Map, WDNR WWI Map, Aerial Imagery, SEWPC environmental corridors and land use maps			
Remarks: The criterion for wetland hydrology is not met.			

VEGETATION - Use scientific names of plants

Sampling Point: DP-3 Upland

Tree Stratum (Plot size: 30' r)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Acer negundo</i>	20	<input checked="" type="checkbox"/>	FAC
2. <i>Prunus serotina</i>	20	<input checked="" type="checkbox"/>	FACU
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"/>	_____
40 = Total Cover			
Sapling/Shrub Stratum (Plot size: 15' r)	Absolute % Cover	Dominant Species?	Indicator Status
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: 5' r)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Dactylis glomerata</i>	90	<input checked="" type="checkbox"/>	FACU
2. <i>Torilis japonica</i>	30	<input type="checkbox"/>	UPL
3. <i>Cirsium arvense</i>	20	<input type="checkbox"/>	FACU
4. <i>Phalaris arundinacea</i>	5	<input type="checkbox"/>	FACW
5. <i>Sonchus oleraceus</i>	5	<input type="checkbox"/>	FACU
6. <i>Vitis riparia</i>	5	<input type="checkbox"/>	FAC
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"/>	_____
155 = Total Cover			
Woody Vine Stratum (Plot size: 30' r)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	0	<input type="checkbox"/>	_____
2. _____	0	<input type="checkbox"/>	_____
3. _____	0	<input type="checkbox"/>	_____
4. _____	0	<input type="checkbox"/>	_____
0 = Total Cover			

Dominance Test worksheet:

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

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

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

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>5</u>	x 2 = <u>10</u>
FAC species <u>25</u>	x 3 = <u>75</u>
FACU species <u>135</u>	x 4 = <u>540</u>
UPL species <u>30</u>	x 5 = <u>150</u>
Column Totals: <u>195</u> (A)	<u>775</u> (B)
Prevalence Index = B/A = <u>3.974</u>	

Hydrophytic Vegetation Indicators:

☐ Rapid Test for Hydrophytic Vegetation

☐ Dominance Test is > 50%

☐ Prevalence Index is ≤3.0 ¹

☐ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)

☐ Problematic Hydrophytic Vegetation ¹ (Explain)

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

Definitions of Vegetation Strata:

Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall..

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

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

Hydrophytic Vegetation Present? Yes ☐ No ☒

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

The criterion for hydrophytic vegetation is not met. This data point is located in an upland near the boundary between a deciduous wooded area and a fresh wet meadow plant community. It is dominated by perennial upland grass.

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

Soil

Sampling Point: **DP-3 Upland**

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

[illegible]

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

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils : ³

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☐ No ☒

Remarks:

The criterion for hydric soil is not met.

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Naber Property City/County: Wheatland/ Kenosha Sampling Date: 09-Sep-15

Applicant/Owner: Lynch & Associates/ Naber State: WI Sampling Point: DP-4 Wetland

Investigator(s): Amanda Larsen and Kara Kikkert Section, Township, Range: S. 2 T. 1N R. 19E

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

Subregion (LRR or MLRA): LRR K Lat.: _____ Long.: _____ Datum: _____

Soil Map Unit Name: Houghton muck(Ht), all hydric NWI classification: T3/WHO

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.) Based on the presence of all three criteria, it is determined that this point is located in a wetland. Wetland ID: WL-1	

Hydrology

Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)		Secondary Indicators (minimum of 2 required)	
<input type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input checked="" 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)	<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)	<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)	
Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Depth (inches): <u>8</u> Saturation Present? (includes capillary fringe) Yes <input checked="" type="radio"/> No <input type="radio"/> Depth (inches): <u>0</u>			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Topo Map, Soils Map, WDNR WWI Map, Aerial Imagery, SEWPC environmental corridors and land use maps			
Remarks: Surface water pond is located 30 ft from this data point. The criterion for wetland hydrology is met.			

VEGETATION - Use scientific names of plants

Sampling Point: DP-4 Wetland

Tree Stratum (Plot size: 30' r)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. <u><i>Acer saccharinum</i></u>	50	<input checked="" type="checkbox"/>	FACW		
2. _____	0	<input type="checkbox"/>	_____	Total Number of Dominant Species Across All Strata: <u>3</u> (B)	
3. _____	0	<input type="checkbox"/>	_____	Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)	
4. _____	0	<input type="checkbox"/>	_____	Prevalence Index worksheet: <div style="display: flex; justify-content: space-between;"> <div> Total % Cover of: OBL species <u>0</u> FACW species <u>105</u> FAC species <u>0</u> FACU species <u>0</u> UPL species <u>0</u> Column Totals: <u>105</u> (A) </div> <div> Multiply by: x 1 = <u>0</u> x 2 = <u>210</u> x 3 = <u>0</u> x 4 = <u>0</u> x 5 = <u>0</u> (B) </div> </div> Prevalence Index = B/A = <u>2.000</u>	
5. _____	0	<input type="checkbox"/>	_____		
6. _____	0	<input type="checkbox"/>	_____		
7. _____	0	<input type="checkbox"/>	_____		
Sapling/Shrub Stratum (Plot size: 15' r)				<div style="display: flex; justify-content: space-between;"> <div> Total % Cover of: OBL species <u>0</u> FACW species <u>105</u> FAC species <u>0</u> FACU species <u>0</u> UPL species <u>0</u> Column Totals: <u>105</u> (A) </div> <div> Multiply by: x 1 = <u>0</u> x 2 = <u>210</u> x 3 = <u>0</u> x 4 = <u>0</u> x 5 = <u>0</u> (B) </div> </div> Prevalence Index = B/A = <u>2.000</u>	
1. _____	0	<input type="checkbox"/>	_____	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)	
2. _____	0	<input type="checkbox"/>	_____		
3. _____	0	<input type="checkbox"/>	_____		
4. _____	0	<input type="checkbox"/>	_____		
5. _____	0	<input type="checkbox"/>	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
6. _____	0	<input type="checkbox"/>	_____		
7. _____	0	<input type="checkbox"/>	_____		
8. _____	0	<input type="checkbox"/>	_____		
9. _____	0	<input type="checkbox"/>	_____	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.	
10. _____	0	<input type="checkbox"/>	_____		
11. _____	0	<input type="checkbox"/>	_____		
12. _____	0	<input type="checkbox"/>	_____		
Woody Vine Stratum (Plot size: 30' r)				Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input 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"/>	_____		
Herb Stratum (Plot size: 5' r)					
1. <u><i>Phalaris arundinacea</i></u>	30	<input checked="" type="checkbox"/>	FACW		
2. <u><i>Bidens tripartita</i></u>	25	<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"/>	_____		
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"/>	_____		
13. _____	0	<input type="checkbox"/>	_____		
14. _____	0	<input type="checkbox"/>	_____		
15. _____	0	<input type="checkbox"/>	_____		
Woody Vine Stratum (Plot size: 30' r)					
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: 5' r)					
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"/>	_____		
Woody Vine Stratum (Plot size: 30' r)					
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: 5' r)					
1. _____	0	<input type="checkbox"/>	_____		
2. _____	0	<input type="checkbox"/>	_____		
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5. _____	0	<input type="checkbox"/>	_____		
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7. _____	0	<input type="checkbox"/>	_____		
Woody Vine Stratum (Plot size: 30' r)					
1. _____	0	<input type="checkbox"/>	_____		
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4. _____	0	<input type="checkbox"/>	_____		
5. _____	0	<input type="checkbox"/>	_____		
6. _____	0	<input type="checkbox"/>	_____		
7. _____	0	<input type="checkbox"/>	_____		
Herb Stratum (Plot size: 5' r)					
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"/>	_____		
Woody Vine Stratum (Plot size: 30' r)					
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: 5' r)					
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"/>	_____		
Woody Vine Stratum (Plot size: 30' r)					
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: 5' r)					
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"/>	_____		
Woody Vine Stratum (Plot size: 30' r)					
1. _____	0	<input type="checkbox"/>	_____		
2. _____	0	<input type="checkbox"/>	_____		
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6. _____	0	<input type="checkbox"/>	_____		
7. _____	0	<input type="checkbox"/>	_____		
Herb Stratum (Plot size: 5' r)					
1. _____	0	<input type="checkbox"/>	_____		
2. _____	0	<input type="checkbox"/>	_____		
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6. _____	0	<input type="checkbox"/>	_____		
7. _____	0	<input type="checkbox"/>	_____		
Woody Vine Stratum (Plot size: 30' r)					
1. _____	0	<input type="checkbox"/>	_____		
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5. _____	0	<input type="checkbox"/>	_____		
6. _____	0	<input type="checkbox"/>	_____		
7. _____	0	<input type="checkbox"/>	_____		
Herb Stratum (Plot size: 5' r)					
1. _____	0	<input type="checkbox"/>	_____		
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4. _____	0	<input type="checkbox"/>	_____		
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6. _____	0	<input type="checkbox"/>	_____		
7. _____	0	<input type="checkbox"/>	_____		
Woody Vine Stratum (Plot size: 30' r)					
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: 5' r)					
1. _____	0	<input type="checkbox"/>	_____		
2. _____	0	<input type="checkbox"/>	_____		
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6. _____	0	<input type="checkbox"/>	_____		
7. _____	0	<input type="checkbox"/>	_____		
Woody Vine Stratum (Plot size: 30' r)					
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: 5' r)					
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"/>	_____		
Woody Vine Stratum (Plot size: 30' r)					
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: 5' r)					
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"/>	_____		
Woody Vine Stratum (Plot size: 30' r)					
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: 5' r)					
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"/>	_____		
Woody Vine Stratum (Plot size: 30' r)					
1. _____	0	<input type="checkbox"/>	_____		
2. _____	0	<input type="checkbox"/>	_____		
3. _____	0	<input type="checkbox"/>	_____		
4. _____	0	<input type="checkbox"/>	_____		
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6. _____	0	<input type="checkbox"/>	_____		
7. _____	0	<input type="checkbox"/>	_____		
Herb Stratum (Plot size: 5' r)					
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"/>	_____		
Woody Vine Stratum (Plot size: 30' r)					
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: 5' r)					
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"/>	_____		
Woody Vine Stratum (Plot size: 30' r)					
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"/>	_____		

Soil

Sampling Point: **DP-4 Wetland**

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

[illegible]

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

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils : ³

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☒ No ☐

Remarks:

The criterion for hydric soil is met.

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Naber Property City/County: Wheatland/ Kenosha Sampling Date: 09-Sep-15

Applicant/Owner: Lynch & Associates/ Naber State: WI Sampling Point: DP-5 Upland

Investigator(s): Amanda Larsen and Kara Kikkert Section, Township, Range: S. 2 T. 1N R. 19E

Landform (hillslope, terrace, etc.): Shoulder slope Local relief (concave, convex, none): convex Slope: 2.0 % / 1.1 °

Subregion (LRR or MLRA): LRR K Lat.: _____ Long.: _____ Datum: _____

Soil Map Unit Name: Casco loam (CeD2), not hydric 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.) Based on the absence of all three parameters, it is determined that this point is located in an upland.	

Hydrology

Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)		Secondary Indicators (minimum of 2 required)	
<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)	<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)	<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)	
Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____		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: Topo Map, Soils Map, WDNR WWI Map, Aerial Imagery, SEWPC environmental corridors and land use maps			
Remarks: The criterion for wetland hydrology is not met.			

VEGETATION - Use scientific names of plants

Sampling Point: DP-5 Upland

Tree Stratum (Plot size: 30' r)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Juglans nigra</u>	50	<input checked="" type="checkbox"/>	FACU	Number of Dominant Species That are OBL, FACW, or FAC: <u>1</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>25.0%</u> (A/B)
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: 15' r)		50 = 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>40</u> x 3 = <u>120</u> FACU species <u>150</u> x 4 = <u>600</u> UPL species <u>10</u> x 5 = <u>50</u> Column Total s: <u>200</u> (A) <u>770</u> (B) Prevalence Index = B/A = <u>3.850</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"/>	_____	
Herb Stratum (Plot size: 5' r)		0 = 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.
1. <u>Poa pratensis</u>	50	<input checked="" type="checkbox"/>	FACU	
2. <u>Dactylis glomerata</u>	25	<input checked="" type="checkbox"/>	FACU	
3. <u>Persicaria virginiana</u>	25	<input checked="" type="checkbox"/>	FAC	
4. <u>Geum canadense</u>	10	<input type="checkbox"/>	FAC	
5. <u>Rosa multiflora</u>	10	<input type="checkbox"/>	FACU	
6. <u>Torilis japonica</u>	10	<input type="checkbox"/>	UPL	
7. <u>Achillea millefolium</u>	5	<input type="checkbox"/>	FACU	
8. <u>Alliaria petiolata</u>	5	<input type="checkbox"/>	FACU	
9. <u>Carya cordiformis</u>	5	<input type="checkbox"/>	FAC	
10. <u>Phleum pratense</u>	5	<input type="checkbox"/>	FACU	
11. _____	0	<input type="checkbox"/>	_____	
12. _____	0	<input type="checkbox"/>	_____	
Woody Vine Stratum (Plot size: 30' r)		150 = Total Cover		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 type="radio"/> No <input checked="" type="radio"/>

Remarks: (Include photo numbers here or on a separate sheet.)
 The criterion for hydrophytic vegetation is not met. This data point is located in a hardwood deciduous forest.

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

Soil

Sampling Point: DP-5 Upland

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

[illegible]

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

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils : ³

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☐ No ☒

Remarks:

The criterion for hydric soil is not met.

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Naber Property City/County: Wheatland/ Kenosha Sampling Date: 09-Sep-15

Applicant/Owner: Lynch & Associates/ Naber State: WI Sampling Point: DP-6 Wetland

Investigator(s): Amanda Larsen and Kara Kikkert Section, Township, Range: S. 2 T. 1N R. 19E

Landform (hillslope, terrace, etc.): Toeslope Local relief (concave, convex, none): concave Slope: 2.0 % / 1.1 °

Subregion (LRR or MLRA): LRR K Lat.: _____ Long.: _____ Datum: _____

Soil Map Unit Name: Houghton muck(Ht), all hydric NWI classification: T3/WHO

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.) Based on the presence of all three criteria, it is determined that this point is located in a wetland. Wetland ID: WL-1	

Hydrology

Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)		Secondary Indicators (minimum of 2 required)	
<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)	<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 checked="" 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)	<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)	
Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Depth (inches): <u>12</u> Saturation Present? (includes capillary fringe) Yes <input checked="" type="radio"/> No <input type="radio"/> Depth (inches): <u>0</u>			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Topo Map, Soils Map, WDNR WWI Map, Aerial Imagery, SEWPC environmental corridors and land use maps			
Remarks: A surface water pond is located 20 ft from data point. The criterion for wetland hydrology is met.			

VEGETATION - Use scientific names of plants

Sampling Point: DP-6 Wetland

Tree Stratum (Plot size: 30' r)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Acer saccharinum</u>	60	<input checked="" type="checkbox"/>	FACW	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>6</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>83.3%</u> (A/B)
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: 15' r)		60 = Total Cover		Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>25</u> x 1 = <u>25</u> FACW species <u>125</u> x 2 = <u>250</u> FAC species <u>20</u> x 3 = <u>60</u> FACU species <u>10</u> x 4 = <u>40</u> UPL species <u>0</u> x 5 = <u>0</u> Column Total s: <u>180</u> (A) <u>375</u> (B) Prevalence Index = B/A = <u>2.083</u>
1. <u>Lonicera tatarica</u>	10	<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"/>		
Herb Stratum (Plot size: 5' r)		10 = Total Cover		Hydrophytic Vegetation Indicators: <input 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>Bidens tripartita</u>	25	<input checked="" type="checkbox"/>	FACW	
2. <u>Laportea canadensis</u>	25	<input checked="" type="checkbox"/>	FACW	
3. <u>Leersia oryzoides</u>	25	<input checked="" type="checkbox"/>	OBL	
4. <u>Phalaris arundinacea</u>	15	<input type="checkbox"/>	FACW	
5. <u>Persicaria virginiana</u>	10	<input type="checkbox"/>	FAC	
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"/>		
Woody Vine Stratum (Plot size: 30' r)		100 = Total Cover		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>Vitis riparia</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 checked="" type="radio"/> No <input type="radio"/>

Remarks: (Include photo numbers here or on a separate sheet.)
 The criterion for hydrophytic vegetation is met. Shallow, open water community with emergent fringe. Nearby open water has canopy of surrounding Acer saccharinum.

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

Soil

Sampling Point: DP-6 Wetland

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

[illegible]

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

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input checked="" type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input checked="" type="checkbox"/> Depleted Matrix (F3) |
| <input checked="" type="checkbox"/> Depleted Below Dark Surface (A11) | <input checked="" type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Muck Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) |
| <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) | |

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 criterion for hydric soil is met.

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Naber Property City/County: Wheatland/ Kenosha Sampling Date: 09-Sep-15

Applicant/Owner: Lynch & Associates/ Naber State: WI Sampling Point: DP-7 Upland

Investigator(s): Amanda Larsen and Kara Kikkert Section, Township, Range: S. 2 T. 1N R. 19E

Landform (hillslope, terrace, etc.): Shoulder slope Local relief (concave, convex, none): convex Slope: 2.0 % / 1.1 °

Subregion (LRR or MLRA): LRR K Lat.: _____ Long.: _____ Datum: _____

Soil Map Unit Name: Casco loam (CrD2), not hydric 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.) Based on the absence of all three parameters, it is determined that this point is located in an upland.	

Hydrology

Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)		Secondary Indicators (minimum of 2 required)	
<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)	<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)	<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)	
Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____		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: Topo Map, Soils Map, WDNR WWI Map, Aerial Imagery, SEWPC environmental corridors and land use maps			
Remarks: The criterion for wetland hydrology is not met.			

VEGETATION - Use scientific names of plants

Sampling Point: DP-7 Upland

Tree Stratum (Plot size: 30' r)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Juglans nigra</i>	60	<input checked="" type="checkbox"/>	FACU
2. <i>Morus rubra</i>	10	<input type="checkbox"/>	FACU
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"/>	_____
70 = Total Cover			
Sapling/Shrub Stratum (Plot size: 15' r)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Lonicera tatarica</i>	40	<input checked="" type="checkbox"/>	FACU
2. <i>Sambucus nigra</i>	10	<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"/>	_____
50 = Total Cover			
Herb Stratum (Plot size: 5' r)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Persicaria virginiana</i>	30	<input checked="" type="checkbox"/>	FAC
2. <i>Lonicera tatarica</i>	20	<input checked="" type="checkbox"/>	FACU
3. <i>Geum canadense</i>	10	<input type="checkbox"/>	FAC
4. <i>Smilax lasioneuron</i>	10	<input type="checkbox"/>	UPL
5. <i>Smilax rotundifolia</i>	10	<input type="checkbox"/>	FAC
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"/>	_____
80 = Total Cover			
Woody Vine Stratum (Plot size: 30' r)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Parthenocissus quinquefolia</i>	10	<input checked="" type="checkbox"/>	FACU
2. _____	0	<input type="checkbox"/>	_____
3. _____	0	<input type="checkbox"/>	_____
4. _____	0	<input type="checkbox"/>	_____
10 = Total Cover			

Dominance Test worksheet:

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

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

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

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>10</u>	x 2 = <u>20</u>
FAC species <u>50</u>	x 3 = <u>150</u>
FACU species <u>140</u>	x 4 = <u>560</u>
UPL species <u>10</u>	x 5 = <u>50</u>
Column Totals: <u>210</u> (A)	<u>780</u> (B)

Prevalence Index = B/A = 3.714

Hydrophytic Vegetation Indicators:

☐ Rapid Test for Hydrophytic Vegetation

☐ Dominance Test is > 50%

☐ Prevalence Index is ≤3.0 ¹

☐ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)

☐ Problematic Hydrophytic Vegetation ¹ (Explain)

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

Definitions of Vegetation Strata:

Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall..

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

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

Hydrophytic Vegetation Present? Yes ☐ No ☒

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

The criterion for hydrophytic vegetation is not met.

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

Soil

Sampling Point: DP-7 Upland

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

[illegible]

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

Hydric Soil Indicators:

- ☐ Hystosol (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)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☐ No ☒

Remarks:

The criterion for hydric soil is not met.

CERTIFIED SURVEY MAP NO. _____.

BEING PART OF THE SOUTHEAST 1/4 OF THE
SOUTHWEST 1/4 AND PART OF THE SOUTHWEST
1/4 OF THE SOUTHEAST 1/4 OF SECTION 2,
TOWNSHIP 1 NORTH, RANGE 19 EAST OF THE
FOURTH PRINCIPAL MERIDIAN IN THE TOWN-
SHIP OF WHEATLAND, COUNTY OF KENOSHA AND
STATE OF WISCONSIN.

OWNER/SUBDIVIDER: ARTHUR A. AND PAUL J. NABER
3405 S. BROWNS LAKE DRIVE #3
BURLINGTON, WI 53105

PREPARED BY: B.W. SURVEYING, INC.
412 N. PINE STREET
BURLINGTON, WI 53105
JOB NO. 9340-CSM

LEGAL DESCRIPTION:

BEING PART OF THE SOUTHEAST 1/4 OF THE SOUTHWEST 1/4 AND PART OF THE
SOUTHWEST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 2, TOWNSHIP 1 NORTH, RANGE 19
EAST OF THE FOURTH PRINCIPAL MERIDIAN IN THE TOWNSHIP OF WHEATLAND, COUNTY
OF KENOSHA, STATE OF WISCONSIN AND BEING MORE PARTICULARLY DESCRIBED AS
FOLLOWS: BEGINNING AT THE SOUTH 1/4 CORNER OF SAID SECTION 2; THENCE SOUTH
87°33'28" WEST ALONG THE SOUTH LINE OF SAID SOUTHWEST 1/4 SECTION 429.10 FEET;
THENCE NORTH 1°16'18" WEST 665.96 FEET; THENCE NORTH 87°37'30" EAST 429.09 FEET TO
A POINT ON THE EAST LINE OF SAID SOUTHWEST 1/4 SECTION; THENCE NORTH 01°16'18"
WEST ALONG SAID EAST LINE 82.77 FEET; THENCE NORTH 88°13'36" EAST 1337.07; THENCE
SOUTH 01°34'04" EAST 513.82 FEET TO A POINT IN THE CENTER LINE OF 73RD STREET;
THENCE SOUTH 44°12'51" WEST ALONG SAID CENTER LINE 337.33 FEET TO A POINT ON THE
SOUTH LINE OF SAID SOUTHEAST 1/4 SECTION; THENCE SOUTH 88°13'36" WEST ALONG
SAID SOUTH LINE 1099.18 FEET TO THE PLACE OF BEGINNING. CONTAINING 28.91 ACRES OF
LAND MORE OR LESS. DEDICATING THE SOUTH 16 FEET AND THE SOUTHEASTERLY 33
FEET THEREOF FOR ROAD PURPOSES.

SURVEYOR'S CERTIFICATE:

I, ROBERT J. WETZEL, DO HEREBY CERTIFY THAT AT THE DIRECTION OF ARTHUR A. AND
PAUL J. NABER, I HAVE SURVEYED THE LAND DESCRIBED HEREON AND THAT THE MAP
SHOWN IS A CORRECT REPRESENTATION OF ALL LOT LINES AND THAT I HAVE FULLY
COMPLIED WITH SECTION 236.34 OF THE WISCONSIN STATUTES AND THE SUBDIVISION
ORDINANCE OF THE TOWNSHIP OF WHEATLAND, KENOSHA COUNTY, WISCONSIN.

DATED THIS 24TH DAY OF MAY, 2017.


ROBERT J. WETZEL S-1778



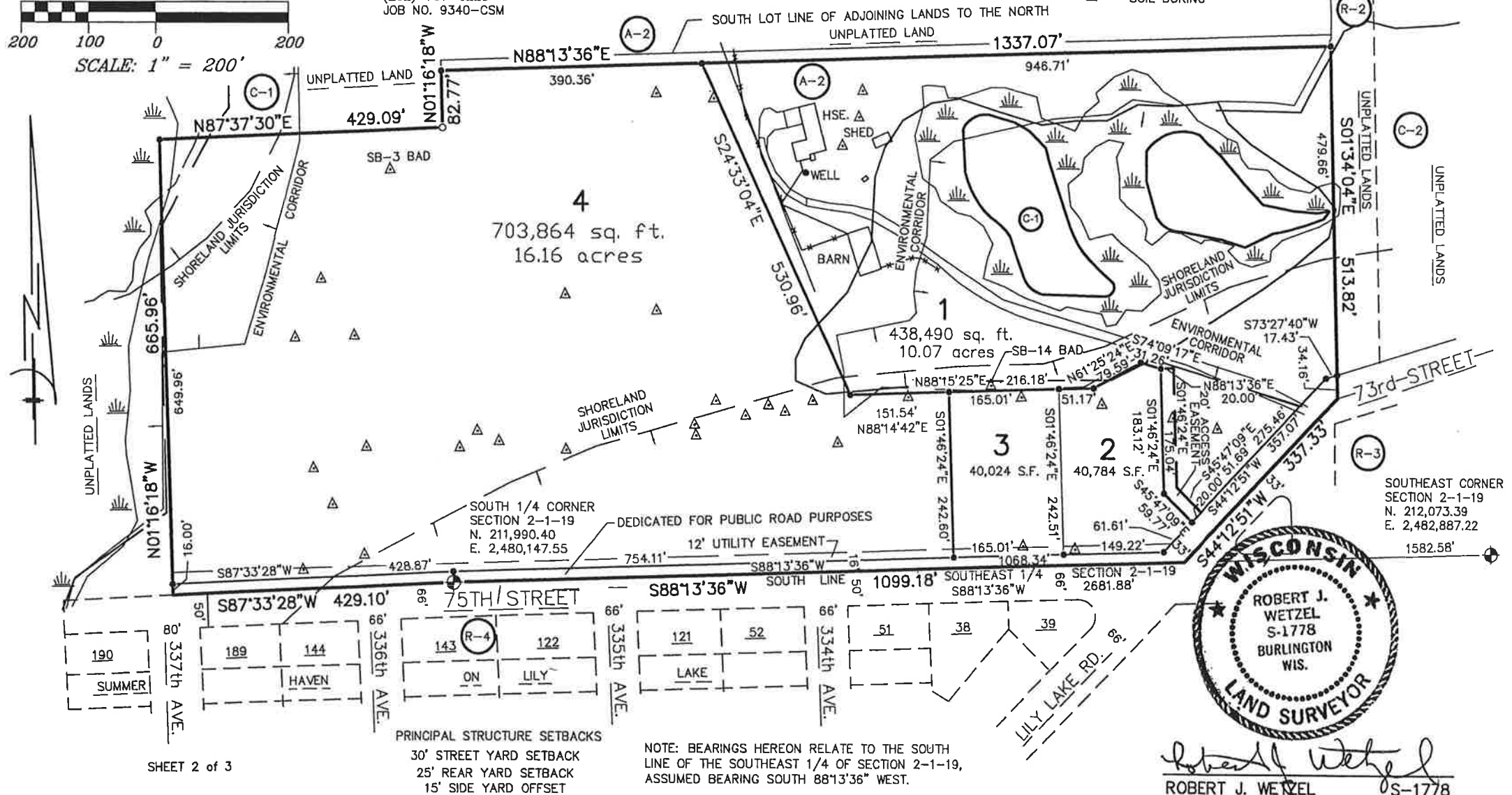
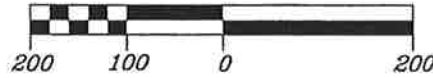
CERTIFIED SURVEY MAP NO. _____

BEING PART OF THE SOUTHEAST 1/4 OF THE SOUTHWEST 1/4 AND PART OF THE SOUTHWEST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 2, TOWNSHIP 1 NORTH, RANGE 19 EAST OF THE FOURTH PRINCIPAL MERIDIAN, IN THE TOWNSHIP OF WHEATLAND, COUNTY OF KENOSHA AND STATE OF WISCONSIN.

PREPARED BY: B.W. SURVEYING, INC.
412 N. PINE STREET
BURLINGTON, WI 53105
(262)-767-0225
JOB NO. 9340-CSM

SURVEY FOR: ARTHUR A. AND PAUL J. NABER
3405 S. BROWN'S LAKE DRIVE #3
BURLINGTON, WI 53105

GRAPHIC SCALE



LEGEND

- ⊕ FOUND KENOSHA COUNTY MONUMENT (CONC./CAP)
- FOUND 1-5/16" O.D. IRON PIPE
- SET 1-5/16" O.D. X 18" IRON PIPE WEIGHING NOT LESS THAN 1.68 POUNDS PER LINEAL FOOT.
- △ SOIL BORING



Robert J. Wetzel
ROBERT J. WETZEL
MAY 24, 2017 S-1778

PRINCIPAL STRUCTURE SETBACKS
30' STREET YARD SETBACK
25' REAR YARD SETBACK
15' SIDE YARD OFFSET

NOTE: BEARINGS HEREON RELATE TO THE SOUTH LINE OF THE SOUTHEAST 1/4 OF SECTION 2-1-19, ASSUMED BEARING SOUTH 88°13'36" WEST.

CERTIFIED SURVEY MAP NO. _____.

BEING PART OF THE SOUTHEAST 1/4 OF THE SOUTHWEST 1/4 AND PART OF THE SOUTHWEST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 2, TOWNSHIP 1 NORTH, RANGE 19 EAST OF THE FOURTH PRINCIPAL MERIDIAN IN THE TOWNSHIP OF WHEATLAND, COUNTY OF KENOSHA AND STATE OF WISCONSIN.

OWNER'S CERTIFICATE:

WE, ARTHUR A. AND PAUL J. NABER AS OWNERS, HEREBY CERTIFY THAT WE CAUSED THE LAND DESCRIBED ON THIS PLAT TO BE SURVEYED, DIVIDED, MAPPED AND DEDICATED AS REPRESENTED HEREON.

DATED THIS _____ DAY OF _____, 20 .

ARTHUR A. NABER

PAUL J. NABER

**STATE OF WISCONSIN)
COUNTY OF RACINE) ss**

PERSONALLY CAME BEFORE ME THIS _____ DAY OF _____, 20 , THE ABOVE NAMED ARTHUR A. AND PAUL J. NABER, TO ME KNOWN TO BE THE PERSONS WHO EXECUTED THE FOREGOING INSTRUMENT AND ACKNOWLEDGE THE SAME.

NOTARY PUBLIC
COUNTY OF _____, STATE OF _____
MY COMMISSION EXPIRES: _____

KENOSHA COUNTY PLANNING, DEVELOPMENT AND EXTENSION EDUCATION COMMITTEE APPROVAL:

THIS CERTIFIED SURVEY MAP WAS HEREBY APPROVED BY THE KENOSHA COUNTY PLANNING, DEVELOPMENT AND EXTENSION EDUCATION COMMITTEE ON THIS _____ DAY OF _____, 20 .

ERIN DECKER CHAIRPERSON

TOWN OF WHEATLAND TOWN BOARD APPROVAL:

THIS CERTIFIED SURVEY MAP IS HEREBY APPROVED BY THE TOWN OF WHEATLAND TOWN BOARD ON THIS _____ DAY OF _____, 20 .

WILLIAM GLEMBOCKI TOWN CHAIRMAN

SHEILA SIEGLER TOWN CLERK

DATED THIS 24TH DAY OF MAY, 2017.


ROBERT J. WETZEL S-1778

