

Report

Wetland & WOTUS Delineation Report

Beaver Dam Industrial Park

Project I.D.: 18A005.02

**Alliant Energy Corporate Services
Madison, WI 53718**

August 30, 2018



Wetland & WOTUS Delineation Report

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Beaver Dam Industrial Park
Project ID: 18A005.02

Prepared for
Alliant Energy Corporate Services

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Madison, WI 53718

Prepared by
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August 30, 2018

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Wetland & WOTUS Delineation Report

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Wetland & WOTUS Delineation Report

Executive Summary

The purpose of performing the wetland delineation was to assess if wetlands or Waters of the United States (WOTUS) are present and, if so, to identify the boundaries. Foth reviewed map and aerial photograph resources, mobilized to the site to conduct the wetland delineation, and prepared this Wetland and WOTUS Delineation Report for the site.

Based on the results of the delineation, 79.85 acres of wetlands and a 455-foot long erosional feature were identified in the project area. WOTUS were not identified within the project area. It is Foth's opinion that the delineated wetlands are isolated features that do not have a surface connection to a jurisdictional WOTUS. However, only the U.S. Army Corps of Engineers (USACE) and the Wisconsin Department of Natural Resources (WDNR) can make the final determination on the jurisdictional status of wetlands or WOTUS, and on the need for permit processing and compensatory mitigation. The WDNR has jurisdiction over all wetlands in the state, regardless of their connectivity to other surface waters.



List of Abbreviations, Acronyms, and Symbols

AW	Artificial Wetland
DP	Data Point
EF	Erosional Feature
FAC	Facultative
FACU	Facultative Upland
FACW	Facultative Wetland
FW	Farmed Wetland
FWS	U.S. Fish and Wildlife Service
Foth	Foth Infrastructure & Environment, LLC
FOTG	Field Office Technical Guide
GPS	Global Positioning System
JD	Jurisdictional Determination
LiDAR	Light Detection And Ranging
LLR K	Land Resource Region – Northcentral Forests
NL or NI	Not Listed or No Indicator
NI	Not Inventoried (NRCS Classification)
NRCS	Natural Resource Conservation Service
NW	Non-Wetland
NWI	National Wetland Inventory
NWPL	National Wetland Plant List
Non-RPW	Non-Relatively Permanent Water
OHWM	Ordinary High Water Mark
OBL	Obligate Wetland
PC	Prior Converted
PEM1A	Palustrine Emergent Persistent Temporarily Flooded
PEM1C	Palustrine Emergent Persistent Seasonally Flooded
PEM1Fx	Palustrine Emergent Persistent Semi-Permanently Flooded Excavated
PFO1Bg	Palustrine Forested Broad-Leaved Deciduous Seasonally Saturated Organic
Pf	Palustrine Farmed
RPW	Relatively Permanent Water
TNW	Traditional Navigable Water
UPL	Obligate Upland
USACE	U.S. Army Corps of Engineers
USGS	U.S. Geological Survey
W	Wetland
WDNR	Wisconsin Department of Natural Resources
WL	Wetland (NRCS Classification)
WSS	Web Soil Survey
WOTUS	Waters of the United States

1 Introduction

Foth Infrastructure & Environment, LLC (Foth) was retained by Alliant Energy Corporate Services to perform a wetland delineation for the Beaver Dam Industrial Park project. The site covers approximately 520 acres and is bordered by US Highway 151 to the east, County Highway A to the northeast, County Highway W to the west, and Hemlock Road to the south. The site is located in Sections 9, 10, 15 and 16, Township 12 North, Range 14 East, Beaver Dam, Dodge County, Wisconsin as depicted on Figure 1. The project is located within the Northcentral Forests Land Resource Region (LLR K) (USACE, 2012).

1.1 Purpose

The purpose of performing the wetland delineation was to assess if wetlands or Waters of the United States (WOTUS) are present and, if so, to identify the boundaries. The project is part of a Wisconsin Economic Development Corporation evaluation.

The wetland delineation was performed in accordance with the U.S. Army Corps of Engineers (USACE) Wetlands Delineation Manual (Environmental Laboratory, 1987) and the Northcentral and Northeast Regional Supplement (USACE, 2012). According to USACE guidelines, wetlands generally have three essential characteristics: hydrophytic vegetation, hydric soils, and wetland hydrology.

1.2 Scope of Work

Foth performed the following scope of work:

- ♦ Reviewed map and aerial photograph resources to assist with identifying suspect WOTUS and wetland areas at the site.
- ♦ Mobilized to the site to conduct the wetland delineation.
- ♦ Prepared a wetland delineation map showing WOTUS and wetland areas identified during the site visit, if any.
- ♦ Completed a Wetland Delineation Report that included delineation rationale, a discussion of applicable data, and recommendations for the site.

1.3 Qualifications

The field work was performed on June 20 through 22, 2018 by Ms. Katie Goff. Ms. Goff has completed the USACE Regulatory IV wetland delineation training and has over one year of experience with Foth delineating wetlands. Prior to working at Foth, Ms. Goff also had experience overseeing wetland and prairie plantings. Ms. Goff was supervised by Ms. Eva Moritz, P.E. Ms. Moritz has 20 years of wetland delineation, permitting, mitigation, and monitoring experience.

2 Background Information

Prior to performing the delineation, several map and aerial photograph resources were reviewed to assist with identifying WOTUS and wetland areas at the site. Each source of data is described in detail below.

2.1 Topographic Map

The U.S. Geological Survey (USGS) 7.5-Minute Topographic Map (Google Earth, 2018) was reviewed to identify drainages or WOTUS within the site. Drainage features or WOTUS were not identified within the project area, as depicted on Figure 1. The USGS topographic map depicted several swamp/marsh areas within the southern portion of the project area.

2.2 National and Wisconsin Wetland Inventory Maps

National Wetland Inventory (NWI) map from the U.S. Fish and Wildlife Service (FWS) (FWS, 2018) was reviewed to identify potential wetland areas within the site. NWI maps depicts probable wetland areas based on stereoscopic analysis of high altitude aerial photographs. Foth also reviewed the Wisconsin Wetland Inventory Map from the Wisconsin Department of Natural Resources (WDNR) Surface Water Data Viewer (WDNR, 2018), as depicted on Figure 2. The FWS NWI map has not been included in this report but can be provided upon request.

Both maps depicted three areas of wetlands within the project site. The NWI map identified an area along the western site boundary as a Palustrine Emergent Persistent Seasonally Flooded (PEM1C) wetland. A potential wetland within the south-central portion of the project area was identified as Palustrine Emergent Persistent Temporarily Flooded (PEM1A), PEM1C, and Palustrine Emergent Persistent Semi-Permanently Flooded Excavated (PEM1Fx). An area in the north-central portion of the project area was as Palustrine Forested Broad-Leaved Deciduous Seasonally Saturated Organic (PFO1Bg) and Palustrine Farmed (Pf). The WDNR Wetland Inventory Map also identified three filled areas in the northern portion of the project area, as depicted on Figure 2.

2.3 Soil Survey of Dodge County, Wisconsin

Foth utilized the Natural Resource Conservation Service (NRCS) soil survey maps and data available from the Web Soil Survey (WSS) to identify soil types with the site. The NRCS soil survey map is depicted on Figure 3.

The following table lists the hydric rating of the soils in the project vicinity, as identified by the WSS. According to the WSS, the rating indicates the proportion of map units that meets the criteria for hydric soils. "Hydric" means that all components listed for a given map unit are rated as being hydric. "Predominantly hydric" means components that comprise 66 to 99 percent of the map unit are rated as hydric. "Partially hydric" means components that comprise 33 to 66 percent of the map unit are rated as hydric. "Predominantly non-hydric" means components that comprise up to 33 percent of the map unit are rated as hydric. "Non-hydric" means that none of the components are rated as hydric.

Table 2-1 – Soil Survey Summary

NRCS Map Unit Symbol	NRCS Map Unit Name	WSS Hydric Soil Rating	Hydric Soil Rating Description
EbA	Elburn silt loam, 0 to 3 percent slopes	9	Predominantly non-hydric
KIA	Kibbie loam, 0 to 2 percent slopes	0	Non-hydric
LmB	Lamartine silt loam, 2 to 6 percent slopes	6	Predominantly non-hydric
LrB	LeRoy silt loam, 2 to 6 percent slopes	0	Non-hydric
LrC2	LeRoy silt loam, 6 to 12 percent slopes, eroded	0	Non-hydric
LrD2	LeRoy silt loam, 12 to 18 percent slopes, eroded	0	Non-hydric
LvB	Lomira silt loam, 2 to 6 percent slopes	0	Non-hydric
MdB	Markesan silt loam, 2 to 6 percent slopes	0	Non-hydric
MdC2	Markesan silt loam, 6 to 12 percent slopes, eroded	0	Non-hydric
MsB	Mendota silt loam, 2 to 6 percent slopes	0	Non-hydric
Ph	Pella silty clay loam, cool, 0 to 2 percent slopes	87	Predominantly hydric
PsA	Plano silt loam, till substratum, 0 to 2 percent slopes	0	Non-hydric
PsB	Plano silt loam, till substratum, 2 to 6 percent slopes	0	Non-hydric
PtA	Plano silt loam, moderately well drained, 0 to 3 percent slopes	0	Non-hydric
PuB	Puchyan loamy fine sand, 2 to 6 percent slopes	0	Non-hydric
ScA	St. Charles silt loam, 0 to 2 percent slopes	3	Predominantly non-hydric
ScB	St. Charles silt loam, 2 to 6 percent slopes	3	Predominantly non-hydric

(NRCS, 2017 a)

The wetland delineation results confirmed that all areas within the project boundary that contain hydric soils are located within wetlands.

2.4 Wetland Indicators and Soil Data

Foth reviewed the Wetland Indicators and Soil data from the WDNR Surface Water Data Viewer (WDNR, 2018). The map, as shown on Figure 4, depicts areas of hydric soils within the project area, including minimum and maximum extents of wetland indicators. The map identified seven potential wetland areas based on soil characteristic. Figure 4 was used as a guideline for the placement of data points during the site visit.

2.5 NRCS Method Aerial Photograph Review

Foth reviewed aerial photographs obtained from Google Earth to identify suspected wetland areas on the site. Aerial photographs from 2017, 2013, 2010, 2008, 2006, 2005, 2004, and 1992 were reviewed prior to the site visit. Foth also reviewed historic aerial photograph slides from 1979 through 2002 provided by Mr. Jeremy Ziegler, NRCS. Copies of select historic aerial photos have been include in Appendix A.

Several areas of inundation, saturation, and stressed vegetation were apparent throughout the project area. The largest area of consistent inundation was located in the southeast corner of the project area. This area of the site has some tree growth and the presence/absence of standing water appears to vary from year to year. A second area containing consistent wetland signatures was observed in the north-central portion of the project area. Two wooded areas were observed within this area on a majority of the historic aerials; however, the trees were removed from the south area between 2013 and 2017.

Mr. Ziegler also provided a NRCS spreadsheet that evaluated climatic data for Beaver Dam to give an indication of whether a year was “wet,” “dry,” or “normal” depending on when the photograph was taken and historic precipitation. The NRCS evaluation spanned from 1979 through 2016; a copy of the NRCS spreadsheet has not been included in this report but can be provided upon request. The Wetland Documentation Record in Appendix B summarizes each of the historic aerial photographs and the climatic conditions three months prior to the photo date. Based on the NRCS data, May 2005, June 2002, June, 1996, August 1995, August 1990, August 1987, August 1984, July 1983, July 1982, July 1981, and August 1980 would be considered “normal” years. The aerial photographs taken during “normal” precipitation conditions have been included as Figures 8 through 18 in Appendix A.

The NRCS has developed a method for interpreting wetland hydrology in agricultural areas through the use of historic aerial photograph (USACE St. Paul District and the Minnesota Board of Water & Soil Resources, 2016). Using this method, aerial imagery is evaluated in the context of antecedent moisture conditions. The method recommends evaluating a minimum of five years of imagery taken during normal climate conditions to draw meaningful conclusions about the presence or absence of wetlands. If five normal years are not available, an equal number of wet and dry years from the respective spring or summer period should be added to the assessment. Topographic, soil survey, and NWI imagery should also be reviewed when using this method. Characteristics of aerial imagery that relate to the presence/absence of wetland hydrology used by the NRCS method include the following: Crop Stress, Drowned Out, Not Cropped, Standing

Water, Wetland Signature, Normal Vegetative Cover, Altered Pattern, Soil Wetness Signature, and Multiple Signatures. The standard procedure for interpreting results is to consider areas having wetland characteristics in more than 50% of the aerials from normal years as having wetland hydrology.

Foth used the NRCS aerial photograph method to evaluate whether potential wetland areas were present within project area. Eleven aerial photographs taken during periods of “normal” precipitation (Figures 8 through 18 in Appendix A) were reviewed to identify suspect wetland areas that should be further investigated during the site visit. The NRCS evaluation was also used to evaluate whether inundation or saturation hydrology indicators were present at individual data points collected during the site visit. The Wetland Documentation Record in Appendix B summarizes our observations. Based on the evaluation, the four delineated wetland areas showed wetland signatures on more than 50% of the aerials from normal years. Foth also evaluated five upland data points taken throughout the site; wetland signatures were present in less than 50% of the aerials from normal years.

2.6 NRCS Wetland Determinations

The NRCS provided copies of Wetland Determination maps for the project area. The maps, which have been included in Appendix C, depict multiple wetland areas throughout the site. The wetlands identified within the project area include the following, as defined by the NRCS National Food Security Act Manual (NRCS, 2010):

- **Artificial Wetland:** An artificial wetland (AW) is land that was formerly non-wetland under natural conditions but now exhibits wetland characteristics because of the influence of human activities.
- **Farmed Wetland:** Farmed Wetlands (FW) are wetlands that were drained, dredged, filled, leveled, or otherwise manipulated and used for producing an agricultural commodity before December 23, 1985, and that meet specific criteria regarding inundation and crop production.
- **Not Inventoried:** The “not inventoried” (NI) label was utilized in previous editions to denote areas on a tract on which a certified determination had not been completed.
- **Non-Wetlands:** Non-wetland (NW) is land that under normal conditions does not meet wetland criteria.
- **Prior Converted:** Prior converted cropland (PC) is a converted wetland where the conversion occurred before December 23, 1985; an agricultural commodity had been produced at least once before December 23, 1985; and as of December 23, 1985, the area was capable of producing an agricultural commodity (i.e., did not support woody vegetation and was sufficiently drained to support production of an agricultural commodity).
- **Wetland:** Wetlands (W) that have been manipulated but not for the purpose of or making possible production of an agricultural commodity.

Additional details about the identified features can be found in Section 4.1.

2.7 Hillshade Map

Foth reviewed the Hillshade Map (Dodge County Wisconsin, 2018) of the site to assist in identifying potential lowland areas. The Hillshade Map uses Light Detection And Ranging

(LiDAR) data to depict the approximate topography of the site. The site consists of relatively flat topography with several apparent low-lying areas, as depicted on Figure 5.

2.8 Climatic Data

Foth utilized the NRCS Field Office Technical Guide (FOTG) website (NRCS, 2018b) to prepare a precipitation analysis for the site. The FOTG site utilizes NRCS National Water and Climate Center historical climatic data from National Weather Service data stations throughout the United States. FOTG Wets analysis data allows users to calculate the growing season limits and “normal” monthly and annual precipitation based on 30-years of accumulated temperature and rainfall records. Foth utilized a NRCS spreadsheet to analyze precipitation data in comparison to the Wets data to evaluate whether the site is drier than normal, normal, or wetter than normal in the seven and thirty calendar days prior to the site visit. The evaluation utilized Wets and precipitation data from the Beaver Dam weather station. The following table summarizes the precipitation analysis for the days of the site visit.

Table 2-2 – Daily Climatic Data Summary

Date	7-Day Precipitation Analysis	30-Day Precipitation Analysis
6/20/18	Wetter than Normal	Normal
6/21/18	Wetter than Normal	Wetter than Normal
6/22/18	Wetter than Normal	Wetter than Normal

Prepared by: KRG
Checked by: ESM

The following table summarizes the NRCS evaluation of monthly precipitation prior to the site visit.

Table 2-3 – Monthly Climatic Data Summary

Month	Recorded Precipitation	30% chance of less than this amount	30% chance of greater than this amount	Monthly Evaluation
January	1.67	0.79	1.62	Wetter than normal
February	2.06	0.55	1.50	Wetter than normal
March	0.75	1.20	2.72	Drier than normal
April	3.21	2.45	4.00	Normal
May	6.85	2.14	3.82	Wetter than normal

Prepared by: KRG
Checked by: ESM

A copy of the evaluation has not been included with this report, but can be provided upon request.

2.9 Previous Wetland Delineation Mapping

Foth is unaware of any previous wetland delineation reporting completed on this site.

3 Methods

3.1 Wetland Observations

An experienced Foth wetland scientist or engineer used technical criteria, field indicators, historic aerial photographs, and other sources of information to evaluate the site. The evaluation methods generally followed the routine on-site determination method referenced in the 1987 USACE Manual and 2012 Northcentral and Northeast Supplement.

Wetlands generally have three essential characteristics: hydrophytic (wetland) vegetation, hydric soils, and wetland hydrology. Several representative observation locations were selected within each suspect wetland area. Vegetation, soils and hydrology were evaluated within each suspect area to determine if wetland characteristics were present. The techniques for evaluating the plant community, soils, and hydrology are described in the following sections.

Prior to the site visit, Foth coordinated with Mr. Ryan Huber, USACE, and Mr. David Studenski, USACE, regarding the project and the proposed scope of work.

3.1.1 Plant Community Assessment

Suspect areas were visually observed to assess the species and absolute percentage of ground cover for four strata of plant community types. If plant species were not present due to farming or other disturbances, vegetation was not used as a primary indicator in the determination of wetland status. When vegetation was present, herbs were generally observed within a five-foot radius, shrubs/saplings within a fifteen-foot radius, and trees and vines within a thirty-foot radius of the observation location. Several representative observation locations were selected within each suspected wetland area to generally represent the vegetation characteristics of the whole community. The vegetation for each selected area was identified using resources including, but not limited to, the National Wetland Plant List (USACE, 2016), Weeds of the Great Plains (Nebraska Department of Agriculture, 2003), Newcomb's Wildflower Guide (Newcomb, 1977), Field Guide to the Grasses, Sedges, and Rushes of the United States (Knobel, 1980), Midwestern Wetland Flora (USDA Soil Conservation Service), Field Guide to Trees (National Audubon Society, 1980), The Tree Identification Book (Symonds G. , 1958), and The Shrub Identification Book (Symonds, The Shrub Identification Book, 1963).

For each species of vegetation observed, their wetland indicator status was evaluated. Indicator status was assessed using the National Wetland Plant List (NWPL) (USACE, 2016). Indicator categories for vegetation are presented below:

- ◆ **Obligate Wetland (OBL)** - almost always occur in wetlands.
- ◆ **Facultative Wetland (FACW)** - usually occur in wetlands, but may occur in non-wetlands.
- ◆ **Facultative (FAC)** - occur in wetlands and non-wetlands.

- ♦ **Facultative Upland (FACU)** - usually occur in non-wetlands, but may occur in wetlands.
- ♦ **Upland (UPL)** – almost never occur in wetlands.
- ♦ **Not Listed or No Indicator (NL or NI)** – species was not listed in the USACE Plant List for the Northcentral and Northeast region. If listed, the classification for the Great Plains or Midwest Region was used. Otherwise the species was assumed to be UPL.

The percent cover of each stratum was assessed and dominance was evaluated. Dominant species were the most abundant species that accounted for more than 20 percent of the absolute percent coverage of the stratum. The number of dominant species with an indicator status of OBL, FACW, and/or FAC was compared to the total number of dominant species across all strata. Typically, if more than 50 percent of the dominant species had an indicator status of OBL, FACW, and/or FAC, then hydrophytic vegetation was present.

If the percentage of dominant species with an indicator status of OBL, FACW, and/or FAC was less than 50 percent, prevalence index and morphological adaptations may have been evaluated to confirm if hydrophytic vegetation was present or absent.

3.1.2 Hydric Soils Assessment

After Foth evaluated wetland vegetation, subsurface soil samples were collected using a soil probe or tile spade. The samples were collected to a depth of approximately 18 to 24 inches below ground surface and were visually compared to the Munsell Soil Color Book (Munsell Color, 2012), which aided in the evaluation of hydric soil characteristics. Soil characteristics were also evaluated using the 2012 Northcentral and Northeast Regional Supplement (USACE, 2012). The soil samples were further examined for hydric soil indicators including, but not limited to, histosol, thick dark surface, sandy gleyed matrix, sandy redox, loamy gleyed matrix, redox dark surface, and/or redox depressions. If these or other hydric soil indicators were observed in the subsurface soil sample, then the observation location was considered to have a hydric soil.

3.1.3 Wetland Hydrology Assessment

Visual indicators of wetland hydrology were evaluated using the 2012 Northcentral and Northeast Regional Supplement (USACE, 2012). Examples of primary wetland hydrology indicators include, but are not limited to, surface water, high water table, soil saturation, water marks, sediment deposits, drift deposits, iron deposits, inundation visible on aerial imagery, sparsely vegetated concave surface, and water-stained leaves. If at least one primary or two secondary indicators were observed, then the observation location was considered to have wetland hydrology.

3.1.4 Classification of Wetlands

Upon completion of the review of the three wetland criteria at each area, a wetland determination was made. Under normal circumstances, if one or more of the wetland criteria were not identified, then the area was not considered to be a wetland. If all three wetland indicators were

identified, then the area was classified as wetland. Additional observations were made throughout the wetland area to define the wetland/non-wetland boundary, which was mapped with Global Positioning System (GPS) technology or flagged and surveyed by traditional methods. Vegetation, soil and hydrology assessment data from at least one location within the wetland and one upland location outside of the wetland were recorded on a USACE Wetland Determination Form. The recorded data forms for the site can be found in Appendix D and the data point locations are depicted on Figures 6 through 6D. The wetlands plotted on a site location map are depicted on Figure 7.

Observations were made about the potential jurisdictional status of the identified wetlands based on the USACE Jurisdictional Determination Form Instructional Guidebook (USACE & EPA, 2007). The following definitions from the guidebook were used:

- ♦ Wetland adjacent to a Traditional Navigable Water (TNW): adjacent means bordering, contiguous, or neighboring. Includes wetlands separated from a WOTUS by a man-made dike or barrier or natural river berm.
- ♦ Wetland directly abutting a Relatively Permanent Water (RPW) that flow directly to a TNW: a continuous surface connection does not require surface water to be continually present between the wetland and tributary.
- ♦ Wetland adjacent to but not directly abutting a RPW that flows to a TNW: Wetland separated from a WOTUS by man-made dikes or barriers or natural river berms are considered adjacent.
- ♦ Wetland adjacent to a Non-Relatively Permanent Water (Non-RPW) that flows to a TNW: Includes wetlands separated from a WOTUS by a man-made dike or barrier or natural river berm.
- ♦ Isolated Wetland: geographically isolated.
- ♦ Wetland within a ditch: wetlands that are present within a feature that was excavated, including roadside ditches.

3.2 WOTUS Observations

Foth also made observations of site features that may be considered a WOTUS. If a potential WOTUS was identified, observations regarding its characteristics were recorded. The following definitions were used when describing the WOTUS:

- ♦ WOTUS Characteristics (USACE & EPA, 2007):
 - Traditional Navigable Water (TNW): includes all of the navigable waters of the U.S.
 - Relatively Permanent Water (RPW) that flows directly or indirectly to a TNW: flow through the tributary (natural, man-altered, or man-made water body) is year-round or continuous at least seasonally.

- Non-Relatively Permanent Water (Non-RPW) that flows directly or indirectly to a TNW: flow through the tributary is not continuous at least seasonally.
 - Ditch: features that are excavated, including roadside ditches.
 - Swale: shallow feature on the landscape that may convey water across upland areas during and following storm events. Swales usually occur on or near flat slopes and typically have grass or other low-lying vegetation throughout the swale.
 - Erosional Feature: eroded features including gullies.
- ◆ Flow Characteristics:
 - Perennial: contains water at all times except during extreme drought.
 - Intermittent: carries water a considerable portion of the time, but ceases to flow occasionally or seasonally.
 - Ephemeral: carries water only during and immediately after periods of rainfall or snowmelt.
- ◆ Ordinary High Water Mark (OHWM): The limit line on the shore established by the fluctuation of the water surface. This limit is shown by such things as a clear line impressed on the bank, shelving, changes in soil character, destruction of terrestrial vegetation, the presence of litter and debris or other features influenced by the surrounding area. The state of Wisconsin defines OHWM as the point on the bank or shore up to which the presence and action of the water is so continuous as to leave a distinct mark either by erosion, destruction of terrestrial vegetation, or other easily recognized characteristics.
- ◆ WOTUS Bank: the land area immediately adjacent to and which slopes toward the bed of a watercourse and which is necessary to maintain the integrity of the watercourse.
- ◆ Bank Shape Descriptions:
 - Undercut: banks that overhang the stream channel
 - Steep: bank slope of approximately greater than 30 degrees
 - Gradual: bank slope of approximately 30 degrees or less
- ◆ Aquatic Habitat Descriptions:
 - Pool: deeper portion of a stream where water flows slower than in neighboring, shallower portions, smooth surface, and finer substrate
 - Riffle: shallow area in a stream where water flows swiftly over gravel and rock or other coarse substrate resulting in a rough flow and a turbulent surface

- ▶ Run: section of a stream with a low or high velocity and with little or no turbulence on the surface of the water.

4 Field Observation Results

On June 20 through 22, 2018, Foth performed fieldwork and identified four wetlands and one erosional feature within the project area. The areas are designated as Wetland Areas 1 through 4, as depicted on Figures 6 through 6D and the erosional feature is designated as EF-1. WOTUS were not identified within the project area. Wetland Determination Data Forms for each wetland area can be found in Appendix D. Ground photographs, included in Appendix E, provide an indication of the physical characteristics observed during the site visit. Appendix E also includes a table summarizing the photo numbers associated with each data point. The following sections describe the wetlands and erosional feature identified during the delineation.

At the time of the site visit some of the area was planted with corn and soybeans and growth of the crops was at about knee height. The areas that were not planted with crops showed significant spring and early summer foliage with wildflowers and hydrophytic plants beginning to bloom. Significant wildlife activity was present within the areas occupied by prairie and wetland. Sightings of blue heron, sandhill cranes, pelicans, mallards, teals, and other bird species were documented. The area had seen some rain during the previous week and light rain continued during the site visit.

Please note that the northwest corner of the project area was an active cattle pasture and was not accessible during the site visit. The area did not show wetland signatures in the aerials from normal precipitation years. The pasture area can be seen in Photos 22 and 24. Apparent wetland areas were not observed during the site visit from the road right-of-way.

4.1 Wetland Areas

4.1.1 Wetland Area 1

Spring tilling was evident in the northern portion of WL-1, causing vegetative colonization of weedy species and soil disturbance of this area.

Wetland Description	
Wetland ID	WL-1
Size	33.00 acres*
Sampling Point(s)	DP-1, 3, 4, 6, 8
Photograph ID	1, 3, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 46, 54
Jurisdictional Characteristics	Isolated Wetland. Wetland extends off-site to the east but does not appear to have a surface connection to a jurisdictional WOTUS.
Association w/ WOTUS	None
Wetland Description	Emergent and partially wooded wetland with standing water and abundant wildlife.
NWI Map Designation	PEM1C, PEM1A, PEM1Fx
Cowardin Classification	PEM1C, PEM1A, PEM1Fx
NRCS Wetland Inventory Designation	Farmed Wetland (FW), Not Inventoried (NI), Prior Converted (PC), Wetland (W)
Wetland Type	Forested, Emergent, Farmed
Vegetative Cover	Dense, Sparse where open water occurs
Dominant Vegetation	<u>Common Name (Scientific Name) WL Indicator</u> Reed Canary Grass (<i>Phalaris arundinacea</i>) FACW Black Willow (<i>Salix nigra</i>) OBL Sandbar Willow (<i>Salix interior</i>) FACW Dark-Green Bulrush (<i>Scirpus atrovirens</i>) OBL American Water-Plantain (<i>Alisma subcordatum</i>) OBL Arrowhead/Duck-Potato (<i>Sagittaria latifolia</i>) OBL Bur Reed (<i>Sparganium eurycarpum</i>) OBL Softstem Bulrush (<i>Schoenoplectus tabernaemontani</i>) OBL Yellow Marsh marigold (<i>Caltha palustris</i>) OBL Narrow leaf Cattail (<i>Typha angustifolia</i>) OBL Broad-leaf Cattail (<i>Typha latifolia</i>) OBL Smooth Scouring-rush (<i>Equisetum laevigatum</i>) FACW Field Horsetail (<i>Equisetum arvense</i>) FAC
Hydrogeomorphic Class	Depression
Soil Type (soil survey)	Ph Pella silty clay loam, LmB Lamartine silt loam
Soil Type (field obs.)	Silty clay loam
Soil Characteristics	Depleted Below Dark Surface, Depleted Matrix, Redox Dark Surface

Wetland Description	
Hydrology Characteristics	Surface Water, High Water Table, Saturation, Algal Mat or Crust, Inundation Visible on Aerial Imagery, Drift Deposits, Sparsely Vegetated Concave Surface, Water-Stained Leaves, Saturation Visible on Aerial Imagery, Geomorphic Position and FAC Neutral Test
Hydrology Source	Surrounding fields
Non-Wetland (Upland) Description	
Data Point(s)	DP-2, 5, 7, 9
Habitat Type	Forested, Upland Vegetation, and Farmed
Was there a marked difference between the wetland and upland	Yes, change in vegetation and elevation
Was there a gradual change in vegetation between the wetland and upland creating a “transition zone”	Yes, Width of transition zone ~ 20 feet
Was there an abrupt topographic change between the wetland and upland	No, gradual
*Within approximate project limits, wetland continues beyond project area.	
Prepared by: <u>KRG</u> Checked by: <u>ESM</u>	

4.1.2 Wetland Area 2

Wetland Description	
Wetland ID	WL-2
Size	3.75 acres*
Sampling Point(s)	DP-12, 14, 34
Photograph ID	16, 17, 18, 19
Jurisdictional Characteristics	Isolated Wetland. Wetland extends off-site beyond the roadway to the southwest but does not appear to have a surface connection to a jurisdictional WOTUS.
Association w/ WOTUS	None
Wetland Description	Isolated wetland located in topographic low spot on landscape surrounded by wet mesic prairie in the surrounding upland area.
NWI Map Designation	PEM1C
Cowardin Classification	PEM1C
NRCS Wetland Inventory Designation	Prior Converted (PC)
Wetland Type	Emergent
Vegetative Cover	Dense, Evenly mixed with non-vegetated, Sparse
Dominant Vegetation	<u>Common Name (Scientific Name) WL Indicator</u> Reed Canary Grass (<i>Phalaris arundinacea</i>) FACW Dark-Green Bulrush (<i>Scirpus atrovirens</i>) OBL Black Willow (<i>Salix nigra</i>) OBL Common Spike-Rush (<i>Eleocharis palustris</i>) OBL
Hydrogeomorphic Class	Depression
Soil Type (soil survey)	EbA Elburn silt loam, SdA St. Charles silt loam
Soil Type (field obs.)	Silty clay loam
Soil Characteristics	Depleted Below Dark Surface, Depleted Matrix, Redox Dark Surface
Hydrology Characteristics	Surface Water, High Water Table, Saturation, Water Marks, Algal Mat or Crust, Inundation Visible on Aerial Imagery, Sediment Deposits, Drift Deposits, Sparsely Vegetated Concave Surface, Water-Stained Leaves, Oxidized Rhizospheres on Living Roots, Saturation Visible on Aerial Imagery, Stunted or Stressed Plants, Drainage Patterns, Geomorphic Position and FAC Neutral Test
Hydrology Source	Surrounding fields.

Non-Wetland (Upland) Description	
Data Point(s)	DP-35
Habitat Type	Upland Vegetation
Was there a marked difference between the wetland/upland	Yes, change in vegetation
Was there a gradual change in vegetation between the wetland and upland creating a “transition zone”	Yes, Width of transition zone ~ 10 feet
Was there an abrupt topographic change between wetland/upland	No, gradual
*Within approximate project limits, wetland continues beyond project area. <div> Prepared by: <u>KRG</u> Checked by: <u>ESM</u> </div>	

4.1.3 Wetland Area 3

The land owner appeared to have recently excavated two locations within WL-3 to concentrated water or to promote drainage (see Photo 34).

Wetland Description	
Wetland ID	WL-3
Size	40.50 acres*
Sampling Point(s)	DP-15, 17, 19, 20, 21, 22, 24, 26, 36
Photograph ID	25, 26, 27, 28, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40
Jurisdictional Characteristics	Isolated Wetland. Wetland extends off-site beyond the roadway to the northeast but does not appear to have a surface connection to a jurisdictional WOTUS.
Association w/ WOTUS	None
Wetland Description	Farmed and partially forested wetland located in a topographic low spot on the landscape.
NWI Map Designation	Pf, PFO1Bg
Cowardin Classification	Pf, PFO1Bg
NRCS Wetland Inventory Designation	Non-Wetland (NW), Prior Converted (PC), Wetland (W)
Wetland Type	Forested, Emergent, Farmed
Vegetative Cover	Dense, Evenly mixed with non-vegetated, Sparse
Dominant Vegetation	<u>Common Name (Scientific Name) WL Indicator</u> Reed Canary Grass (<i>Phalaris arundinacea</i>) FACW American Water-Plantain (<i>Alisma subcordatum</i>) OBL Marsh Marigold (<i>Caltha palustris</i>) OBL Rice Cut Grass (<i>Leersia oryzoides</i>) OBL Swamp White Oak (<i>Quercus bicolor</i>) FACW Eastern Cottonwood (<i>Populus deltoids</i>) FAC Twinsisters (<i>Lonicera tatarica</i>) FACU Silky Dogwood (<i>Cornus amomum</i>) FACW Common Spike-Rush (<i>Eleocharis palustris</i>) OBL Box Elder/Ash-Leaf Maple (<i>Acer negundo</i>) FAC Jewelweed (<i>Impatiens palida</i>) Black Willow (<i>Salix nigra</i>) OBL Soybeans (<i>Glycine max</i>) NL
Hydrogeomorphic Class	Depression
Soil Type (soil survey)	Ph Pella silty clay loam, EbA Elburn silt loam, KIA Kibbie loam, PuB Puchyan loamy fine sand
Soil Type (field obs.)	Silty clay loam
Soil Characteristics	Depleted Below Dark Surface, Depleted Matrix, Redox Dark Surface

Wetland Description	
Hydrology Characteristics	Surface Water, High Water Table, Saturation, Algal Mat or Crust, Inundation Visible on Aerial Imagery, Sparsely Vegetated Concave Surface, Water-Stained Leaves, Saturation Visible on Aerial Imagery, Geomorphic Position and FAC Neutral Test
Hydrology Source	Surrounding fields
Non-Wetland (Upland) Description	
Data Point(s)	DP-18, 27, 37
Habitat Type	Farmed
Was there a marked difference between the wetland and upland	No, gradual
Was there a gradual change in vegetation between the wetland and upland creating a “transition zone”	Yes, Width of transition zone ~ 20 feet
Was there an abrupt topographic change between the wetland and upland	No, gradual
<div> *Within approximate project limits, wetland continues beyond project area. <div> Prepared by: <u>KRG</u> Checked by: <u>ESM</u> </div> </div>	

4.1.4 Wetland Area 4

Wetland Description	
Wetland ID	WL-4
Size	2.60 acres
Sampling Point(s)	DP-28
Photograph ID	42
Jurisdictional Characteristics	Isolated Wetland. Wetland does not appear to have a surface connection to a jurisdictional WOTUS.
Association w/ WOTUS	None
Wetland Description	Farmed wetland located in a topographic low spot on the landscape.
NWI Map Designation	None
Cowardin Classification	Pf
NRCS Wetland Inventory Designation	Farmed Wetland (FW)
Wetland Type	Farmed
Vegetative Cover	Sparse
Dominant Vegetation	Common Name (Scientific Name) WL Indicator Common Spike-Rush (<i>Eleocharis palustris</i>) OBL Moss species, Assumed FACW
Hydrogeomorphic Class	Depression
Soil Type (soil survey)	SdA St. Charles silt loam, moderately well drained
Soil Type (field obs.)	Silty clay loam
Soil Characteristics	Depleted Matrix
Hydrology Characteristics	High Water Table, Saturation, Inundation Visible on Aerial Imagery, Sparsely Vegetated Concave Surface, Water-Stained Leaves, Saturation Visible on Aerial Imagery, and FAC Neutral Test
Hydrology Source	Surrounding fields
Non-Wetland (Upland) Description	
Data Point(s)	DP-29
Habitat Type	Farmed
Was there a marked difference between the wetland and upland	No, gradual
Was there a gradual change in vegetation between the wetland and upland creating a “transition zone”	Yes, Width of transition zone ~ 15 feet
Was there an abrupt topographic change between the wetland and upland	No, gradual

Prepared by: KRG
Checked by: ESM

4.2 Drainage Features

The following drainage features were identified within the project area. These areas may not be considered jurisdictional by the USACE.

4.2.1 Erosional Feature 1

Description	
ID	EF-1
Approximate Length Onsite	455 feet (surveyed)
Photograph ID	46
Location	Northwest of WL-1 in the central portion of the project area
Jurisdictional Characteristics	Erosional Feature
Description	Visible in aerial imagery since 1979
Flow Characteristics	Ephemeral
EF Description	Vegetation matted down, bent or absent, Scour
NWI Map Designation	None
Channel Width Across EF Bottom	2 to 3 feet
Channel Width Across EF Top	3 to 5 feet
Channel Width Across Water Surface or Dry Bottom	1 to 3 feet
Water Depth	2-3"
Water Clarity	Slightly Turbid
Water Color	Clear
Flow	Moderate
Flow Direction	Southeast
EF Depth	1 to 2 feet
Slope On Banks	Left Bank: Steep
	Right Bank: Steep
EF Substrate	Soil
Riparian Vegetation Description	Farm fields
Wetland Fringe	Flows to WL-1
Aquatic Organisms	None observed
Aquatic Habitat	Run

Prepared by: KRG
Checked by: ESM

5 Wetland and Waters of the United States Summary

This report details the procedures used to identify wetlands on the project site. In accordance with the field procedures described in this report, wetlands and an erosional feature were identified at the site. WOTUS were not identified within the project area. The following table summarizes the sizes of the delineated wetland within the site.

Table 5-1 – Wetland Area Summary

Wetland Identification	Wetland Area (acres)
WL-1	33.00*
WL-2	3.75*
WL-3	40.50*
WL-4	2.60
Total	79.85

* Within approximate project limits.

Prepared by: KRG
Checked by: ESM

The following table summarizes the approximate lengths of drainage features based on survey results estimations.

Table 5-2 – Drainage Feature Length Summary

Identification	Length (feet)
EF-1	455
Total	455

Prepared by: KRG
Checked by: ESM

The approximate wetland boundaries and drainage feature location are depicted on the Wetland Delineation Maps (Figures 6 through 6D).

6 Recommendations

Based on the results of the delineation, 79.85 acres of wetlands and a 455 feet long erosional feature were identified in the project area. WOTUS were not identified within the project area. It is Foth's opinion that the delineated wetlands are isolated features that do not have a surface connection to a jurisdictional WOTUS. At this time, we are requesting that the USACE provide an approved Jurisdictional Determination (JD) so our client can evaluate avoidance and minimization steps that can be taken during the site design process. A Request for Corps JD form can be found in Appendix F. The project is part of a Wisconsin Economic Development Corporation evaluation and documentation of the jurisdictional status of the wetlands and WOTUS is critical for advancement of the project through the process. In order to avoid delays in the process, Alliant Energy would like to have the JD completed by October 1, 2018. The WDNR Wetland Delineation Confirmation Request Checklist can be found in Appendix G.

7 General Comments

The wetland delineation was performed using the USACE Manual and Northcentral and Northeast Supplement. The manual provides assistance for delineating wetlands based on the three criteria discussed. However, the manual alone may not have provided enough information to document whether or not the three criteria were met. Various physical properties or other visual signs used to evaluate whether the three wetland identification criteria areas were satisfied may not be straightforward, especially in disturbed or problem areas. The manual also allows the user to visually estimate certain indicators such as the percentage of area covered by dominant species for the entire community. Foth did not attempt to identify every possible plant species and did not classify soil type by laboratory methods. Due to seasonal changes, Foth cannot guarantee the area to exhibit or not to exhibit wetland characteristics at all times of the year. The limitations of this wetland delineation should be recognized for the above reasons.

This report has been prepared in accordance with generally accepted scientific and engineering evaluation practices. This report is for the exclusive use of the client for the project being discussed. No warranties, express or implied, are intended or made.

8 References

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Figures

FIGURE 1 - USGS TOPOGRAPHIC MAP

BEAVER DAM INDUSTRIAL PARK

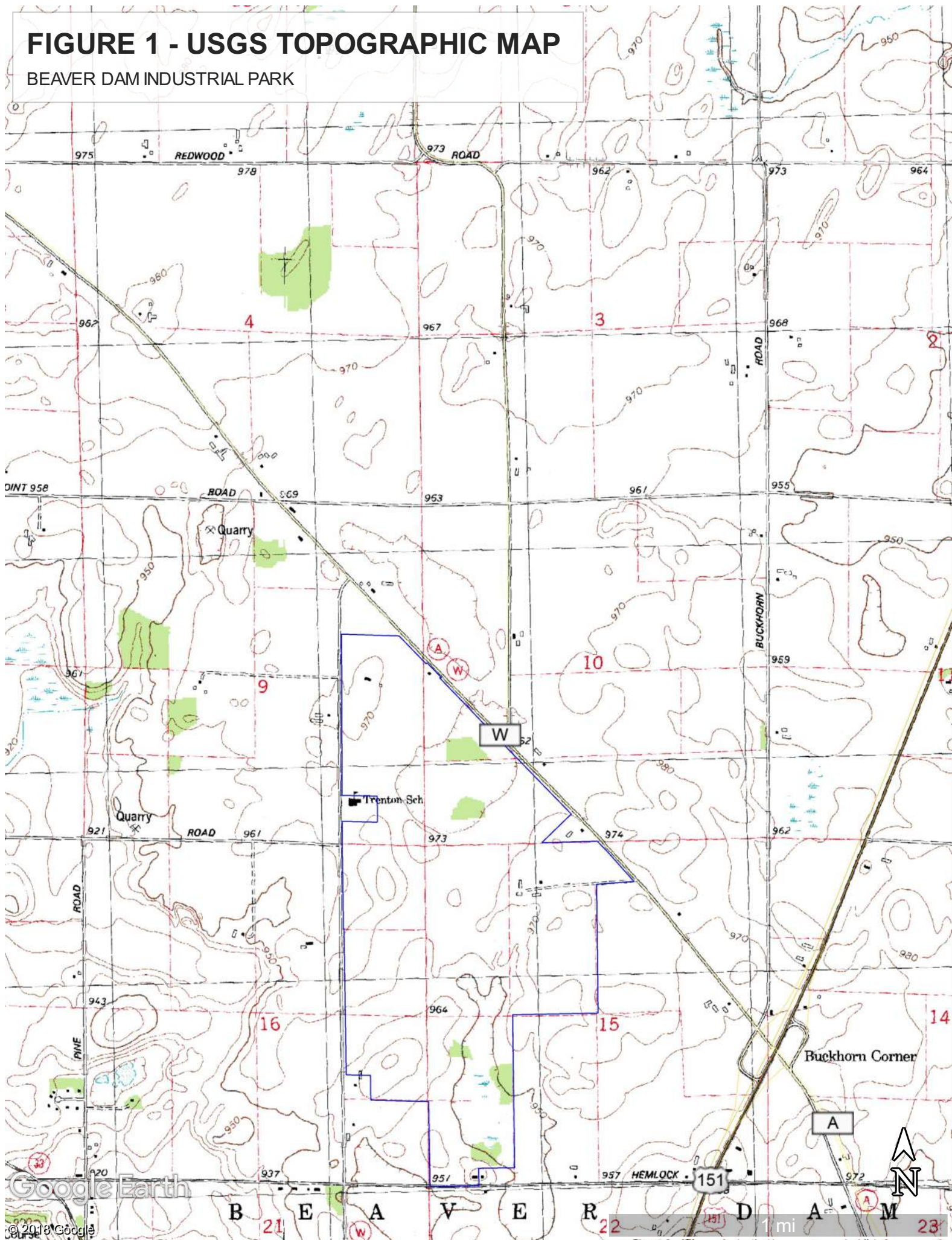




FIGURE 2 WISCONSIN WETLAND INVENTORY MAP



Legend

Wetland Identifications and Confirmations

Wetland Class Points

- Dammed pond
- Excavated pond
- Filled excavated pond
- Filled/draind wetland
- Wetland too small to delineate

Filled Points

Wetland Class Areas

- Wetland
- Upland

Filled Areas

Wetland Class Points

- Dammed pond
- Excavated pond
- Filled excavated pond
- Filled/draind wetland
- Wetland too small to delineate

Filled Points

Wetland Class Areas

- Wetland
- Upland

Filled Areas

Municipality

State Boundaries

County Boundaries

Major Roads

- Interstate Highway
- State Highway
- US Highway

County and Local Roads

- County HWY
- Local Road

Railroads

Tribal Lands

- Rivers and Streams
- Intermittent Streams

0.5 0 0.25 0.5 Miles

1: 15,840

NAD_1983_HARN_Wisconsin_TM

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Notes

Hydric Rating by Map Unit—Dodge County, Wisconsin



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

FIGURE 3 - SOIL SURVEY MAP
Page 1 of 6







MAP LEGEND

Area of Interest (AOI)







Area of Interest (AOI)

Soils







Soil Rating Polygons

-  Hydric (100%)
-  Hydric (66 to 99%)
-  Hydric (33 to 65%)
-  Hydric (1 to 32%)
-  Not Hydric (0%)
-  Not rated or not available

Soil Rating Lines

-  Hydric (100%)
-  Hydric (66 to 99%)
-  Hydric (33 to 65%)
-  Hydric (1 to 32%)
-  Not Hydric (0%)
-  Not rated or not available






Soil Rating Points

-  Hydric (100%)
-  Hydric (66 to 99%)
-  Hydric (33 to 65%)
-  Hydric (1 to 32%)
-  Not Hydric (0%)
-  Not rated or not available


Water Features

-  Streams and Canals

Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

Background

-  Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Dodge County, Wisconsin
Survey Area Data: Version 14, Oct 5, 2017

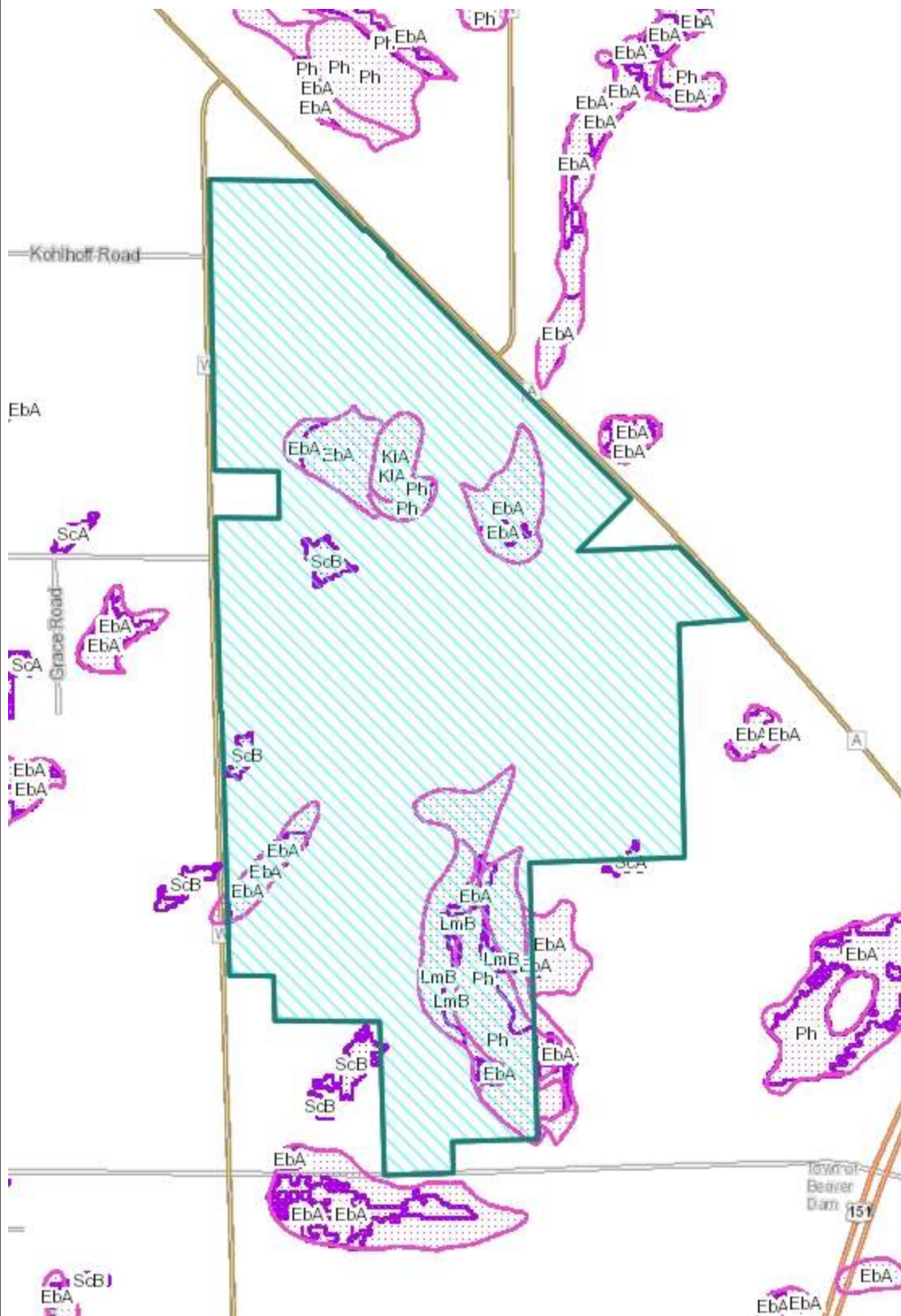
Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 29, 2011—Sep 6, 2011

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.



FIGURE 4 - WETLAND INDICATORS AND SOIL



Legend

- NRCS Wetspots
- Maximum Extent Wetland Indicators
- Minimum Extent Wetland Indicators
- Municipality
- State Boundaries
- County Boundaries
- Major Roads
 - Interstate Highway
 - State Highway
 - US Highway
- County and Local Roads
 - County HWY
 - Local Road
- Railroads
- Tribal Lands
- Rivers and Streams
- Intermittent Streams
- Lakes and Open water

0.5 0 0.25 0.5 Miles

1:15,840

NAD_1983_HARN_Wisconsin_TM

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Notes

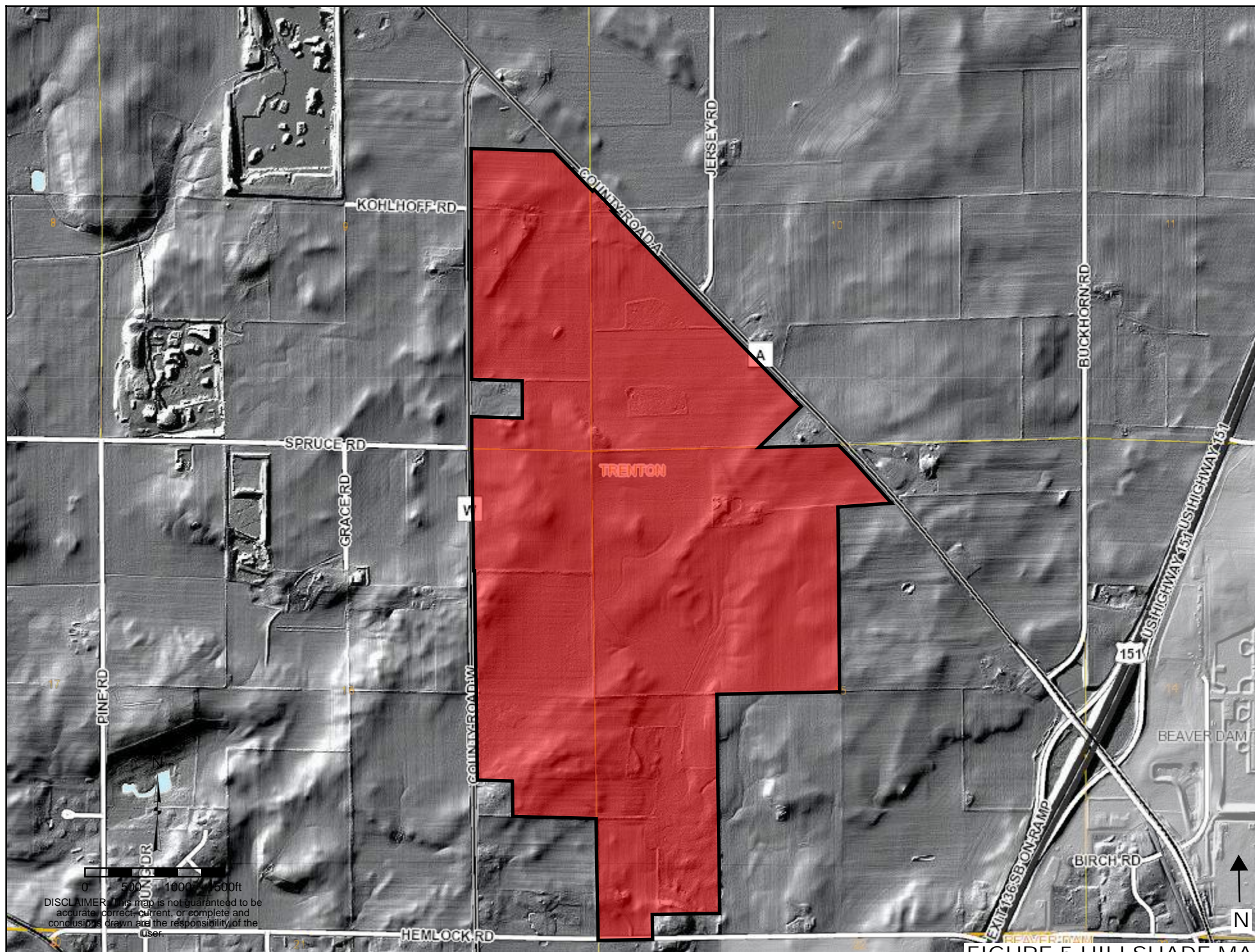
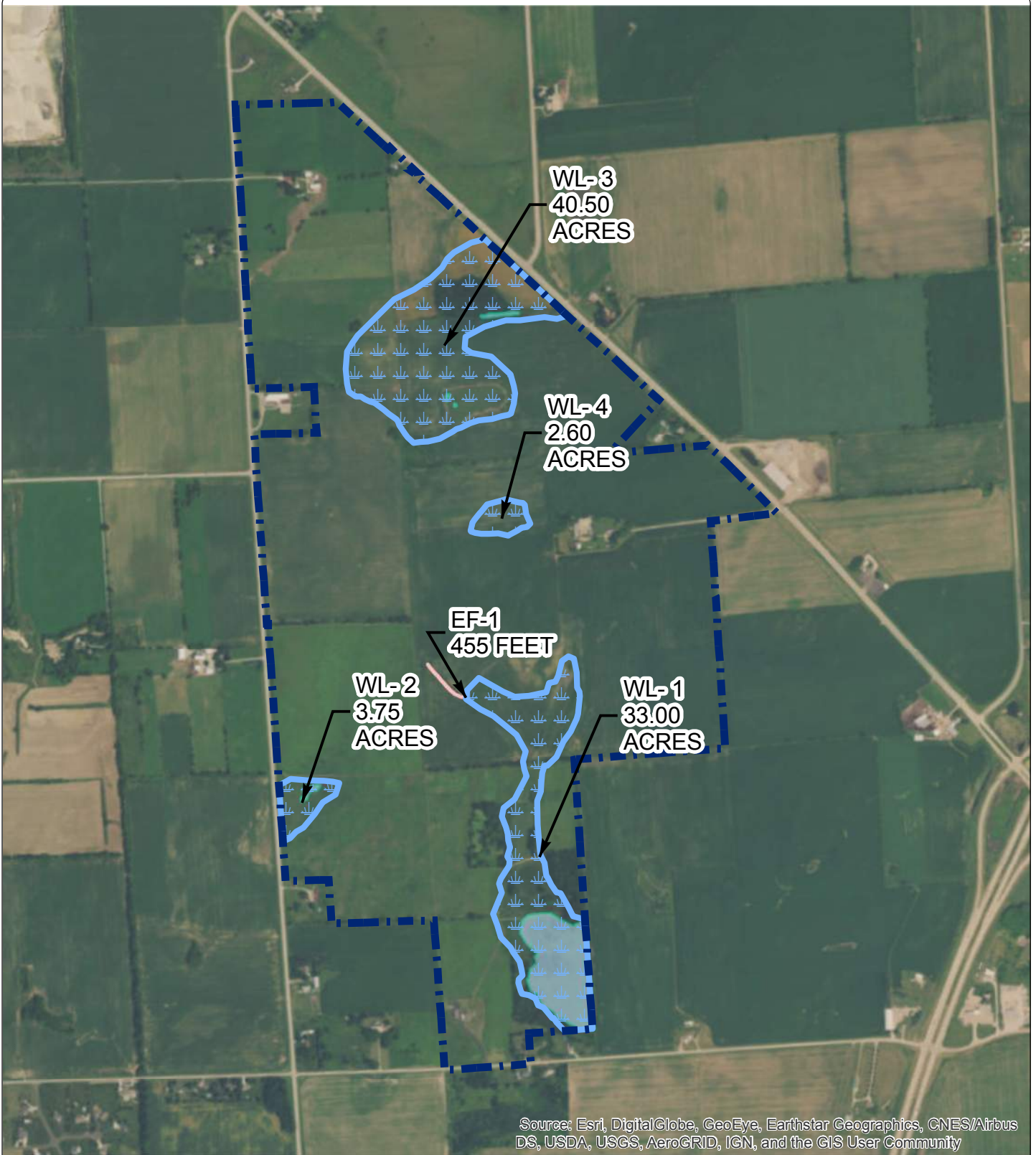






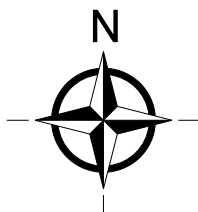
FIGURE 5 HILLSHADE MAP



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

LEGEND

-  PROJECT BOUNDARY
-  WETLAND
-  OPEN WATER
-  EROSIONAL FEATURE



WETLAND DELINEATION

BEAVER DAM INDUSTRIAL PARK
COUNTY ROAD W AND HEMLOCK ROAD
DODGE COUNTY
BEAVER DAM, WI

0 300 600 1200
FEET

PROJECT ID. #: 18A005.02

DATE: 8/1/2018

PREPARED BY: KRG

CHECKED BY: ESM

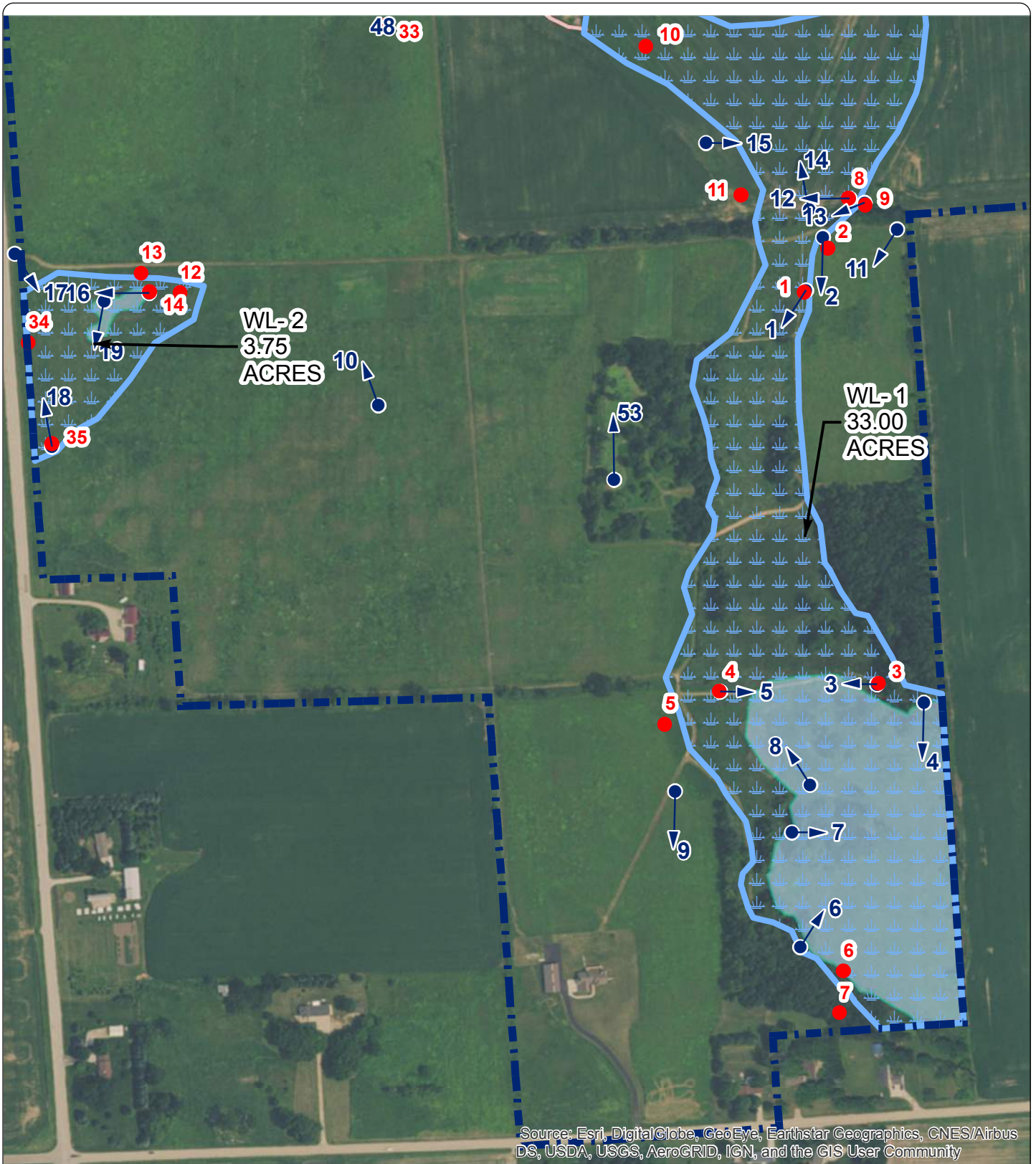


Foth







Foth Infrastructure & Environment, LLC

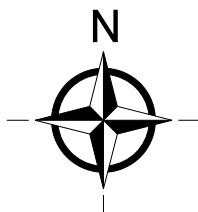
FIGURE NO.

6



LEGEND

-  PROJECT BOUNDARY
-  WETLAND
-  OPEN WATER
-  EROSIONAL FEATURE
-  DATA POINT
-  PHOTO LOCATION AND DIRECTION



WETLAND DELINEATION

BEAVER DAM INDUSTRIAL PARK
COUNTY ROAD W AND HEMLOCK ROAD
DODGE COUNTY
BEAVER DAM, WI

0 100 200 400
FEET

PROJECT ID. #: 18A005.02

DATE: 8/1/2018

PREPARED BY: KRG

CHECKED BY: ESM

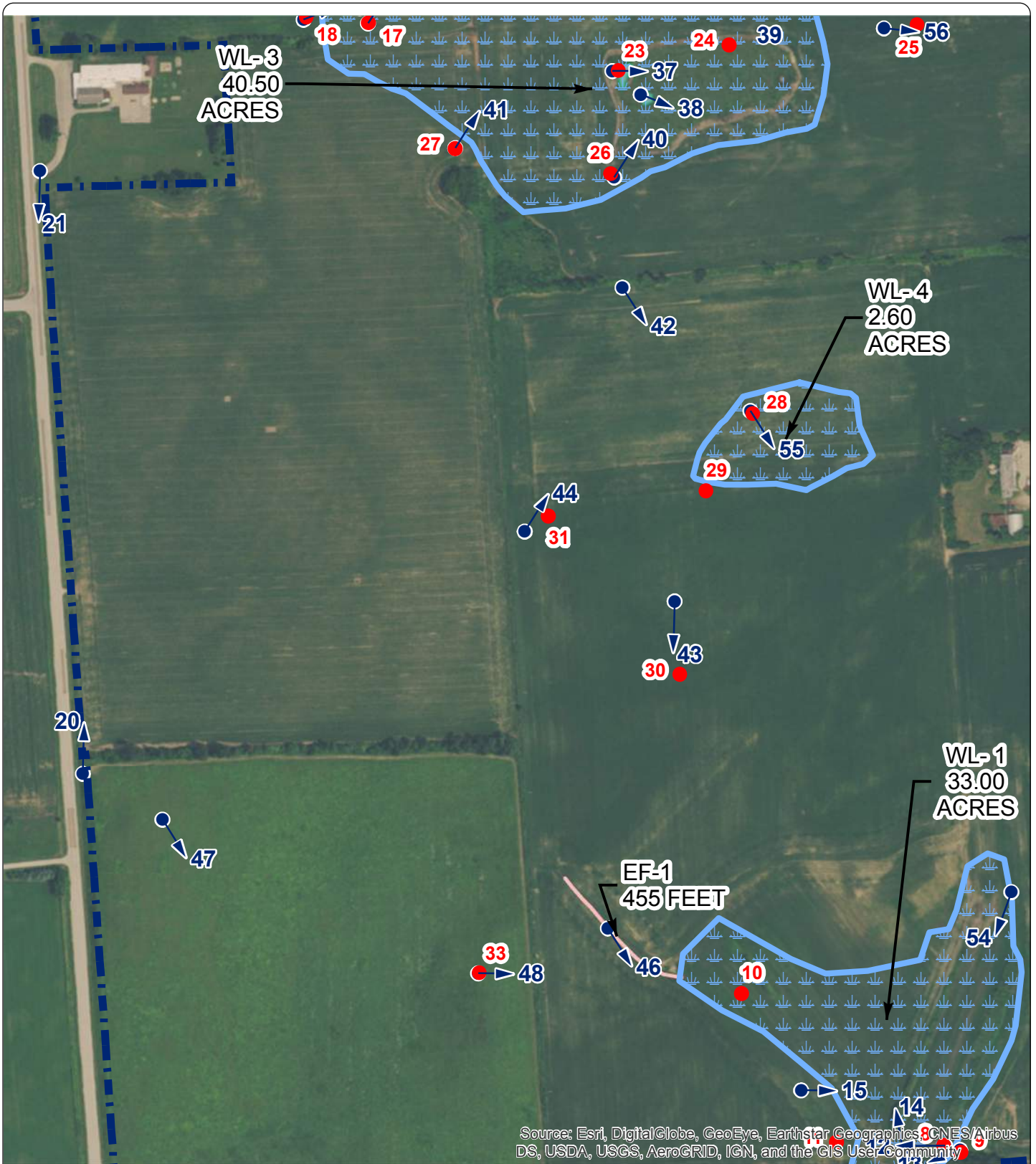


Foth

Foth Infrastructure & Environment, LLC







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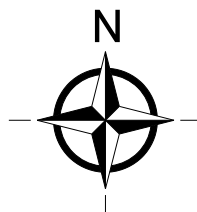
6A



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

LEGEND

-  PROJECT BOUNDARY
-  WETLAND
-  OPEN WATER
-  EROSIONAL FEATURE
-  DATA POINT
-  PHOTO LOCATION AND DIRECTION



WETLAND DELINEATION

BEAVER DAM INDUSTRIAL PARK
COUNTY ROAD W AND HEMLOCK ROAD
DODGE COUNTY
BEAVER DAM, WI

0 100 200 400
FEET

PROJECT ID. #: 18A005.02

DATE: 8/1/2018

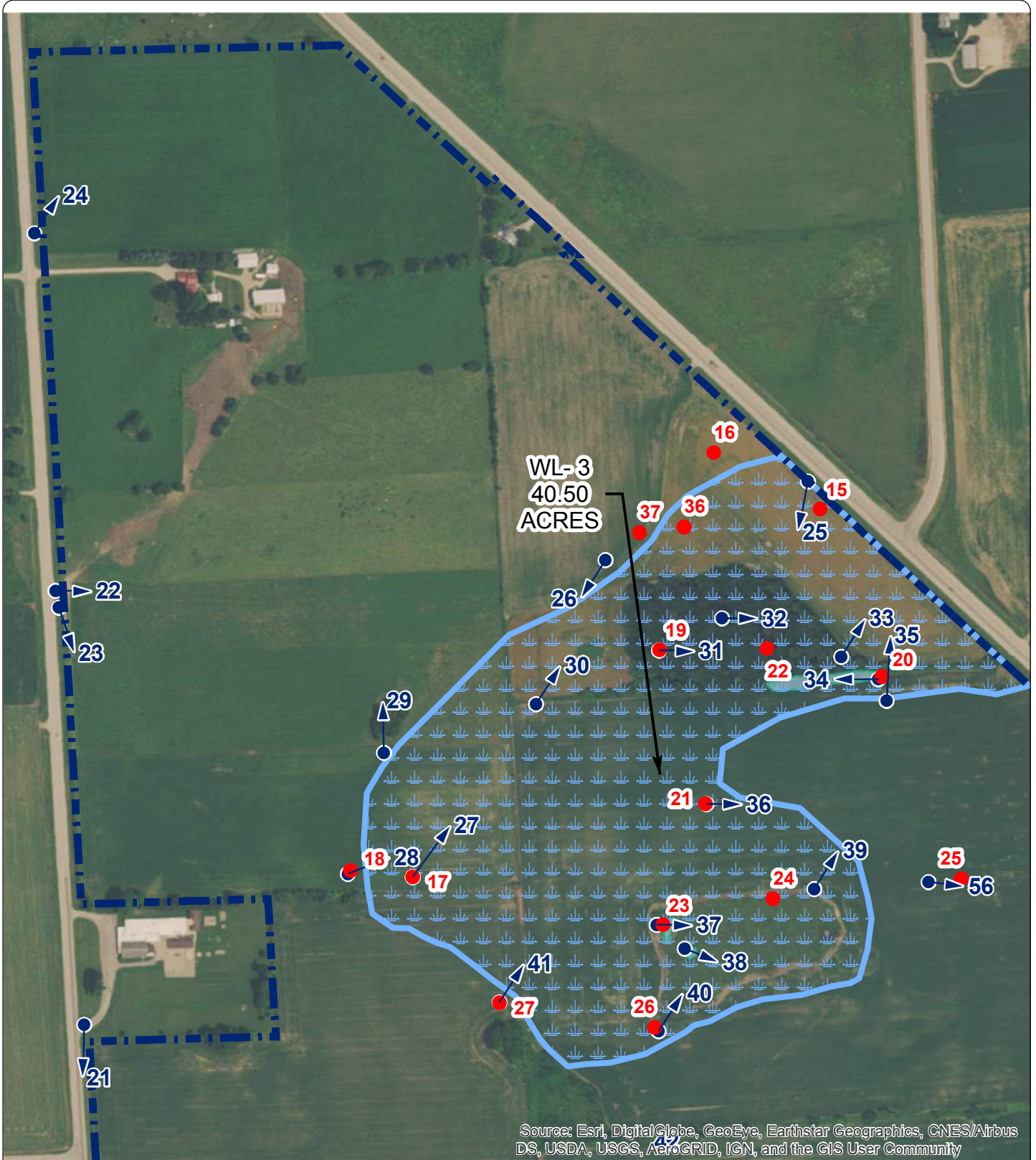
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CHECKED BY: ESM



FIGURE NO.

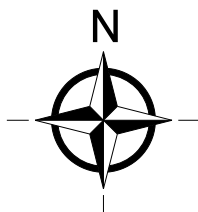
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Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

LEGEND

- PROJECT BOUNDARY
- WETLAND
- OPEN WATER
- EROSIONAL FEATURE
- DATA POINT
- PHOTO LOCATION AND DIRECTION



WETLAND DELINEATION

BEAVER DAM INDUSTRIAL PARK
COUNTY ROAD W AND HEMLOCK ROAD
DODGE COUNTY
BEAVER DAM, WI

0 100 200 400
FEET

PROJECT ID. #: 18A005.02

DATE: 8/1/2018

PREPARED BY: KRG

CHECKED BY: ESM

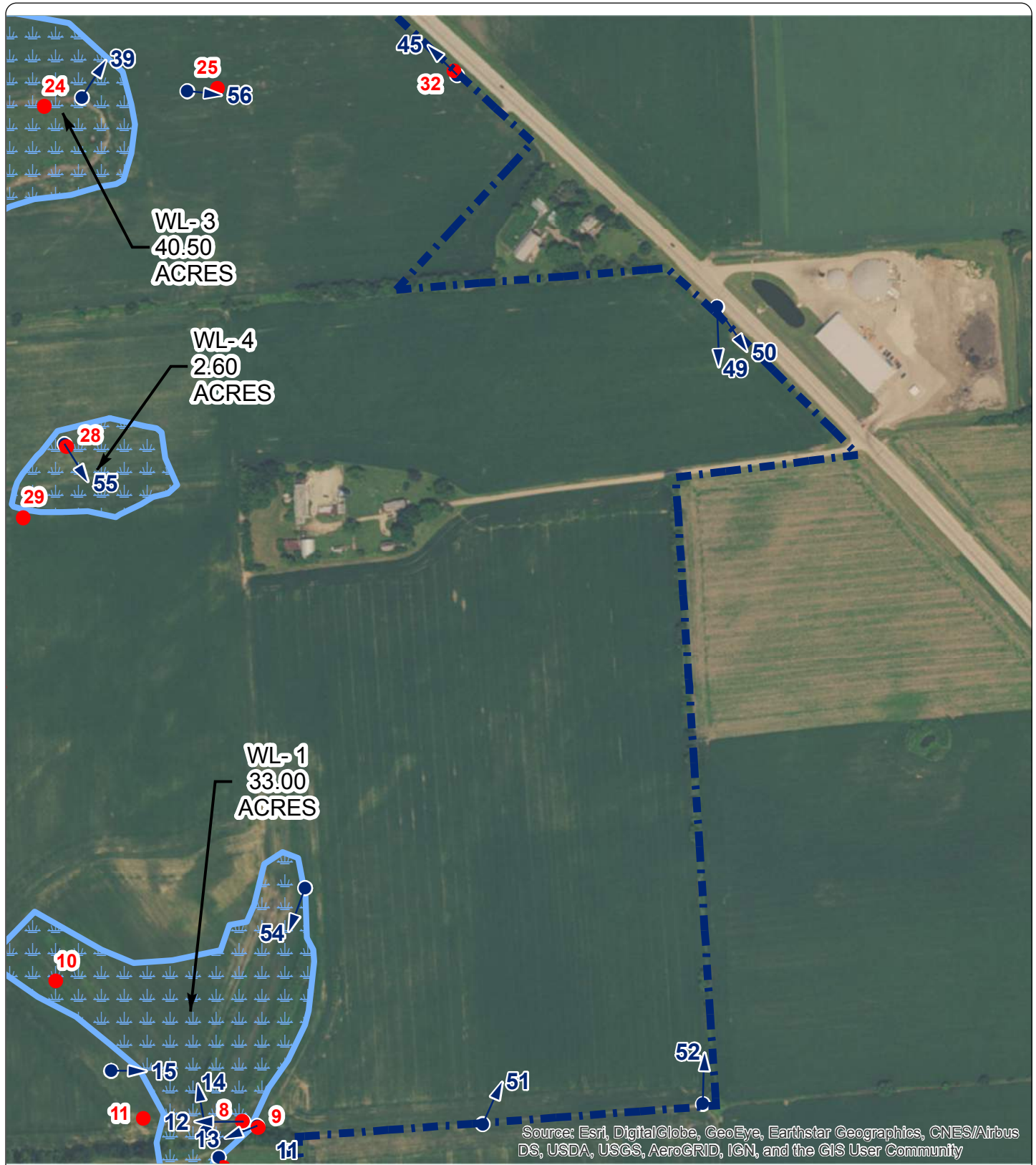


Foth

Foth Infrastructure & Environment, LLC

FIGURE NO.

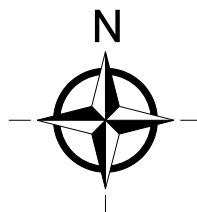
6C



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

LEGEND

- PROJECT BOUNDARY
- WETLAND
- OPEN WATER
- EROSIONAL FEATURE
- DATA POINT
- PHOTO LOCATION AND DIRECTION



WETLAND DELINEATION

BEAVER DAM INDUSTRIAL PARK
COUNTY ROAD W AND HEMLOCK ROAD
DODGE COUNTY
BEAVER DAM, WI

0 100 200 400
FEET

PROJECT ID. #: 18A005.02

DATE: 8/1/2018

PREPARED BY: KRG

CHECKED BY: ESM



Foth





Foth Infrastructure & Environment, LLC

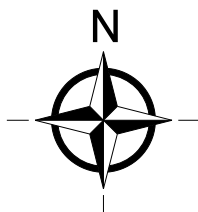
FIGURE NO.

6D



LEGEND

-  PROJECT BOUNDARY
-  WETLAND
-  OPEN WATER
-  EROSIONAL FEATURE



SITE LOCATION MAP

**BEAVER DAM INDUSTRIAL PARK
COUNTY ROAD W AND HEMLOCK ROAD
DODGE COUNTY
BEAVER DAM, WI**

0 500 1000 2000
FEET

PROJECT ID. #: 18A005.02

DATE: 8/1/2018

PREPARED BY: KRG

CHECKED BY: ESM



Foth

Foth Infrastructure & Environment, LLC

FIGURE NO.

7

Appendix A

Aerial Photographs

5/31/2005 Aerial

Beaver Dam Industrial Park

Kohlhoff Rd

Grace Rd

Google Earth

W

151
N

FIGURE 8 - May 2005





FIGURE 9A - June 2002

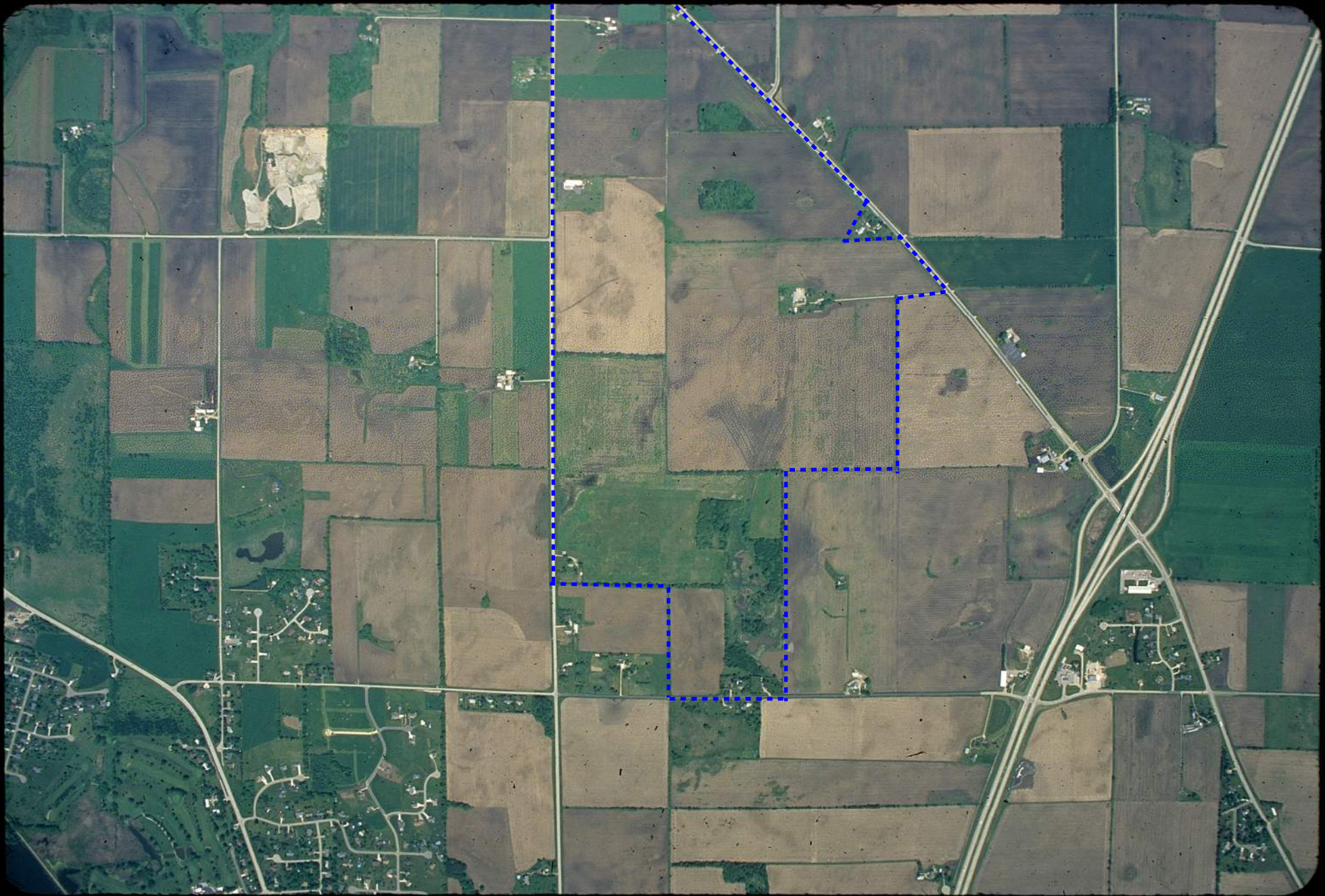


FIGURE 9B - June 2002



FIGURE 10A - June 1996

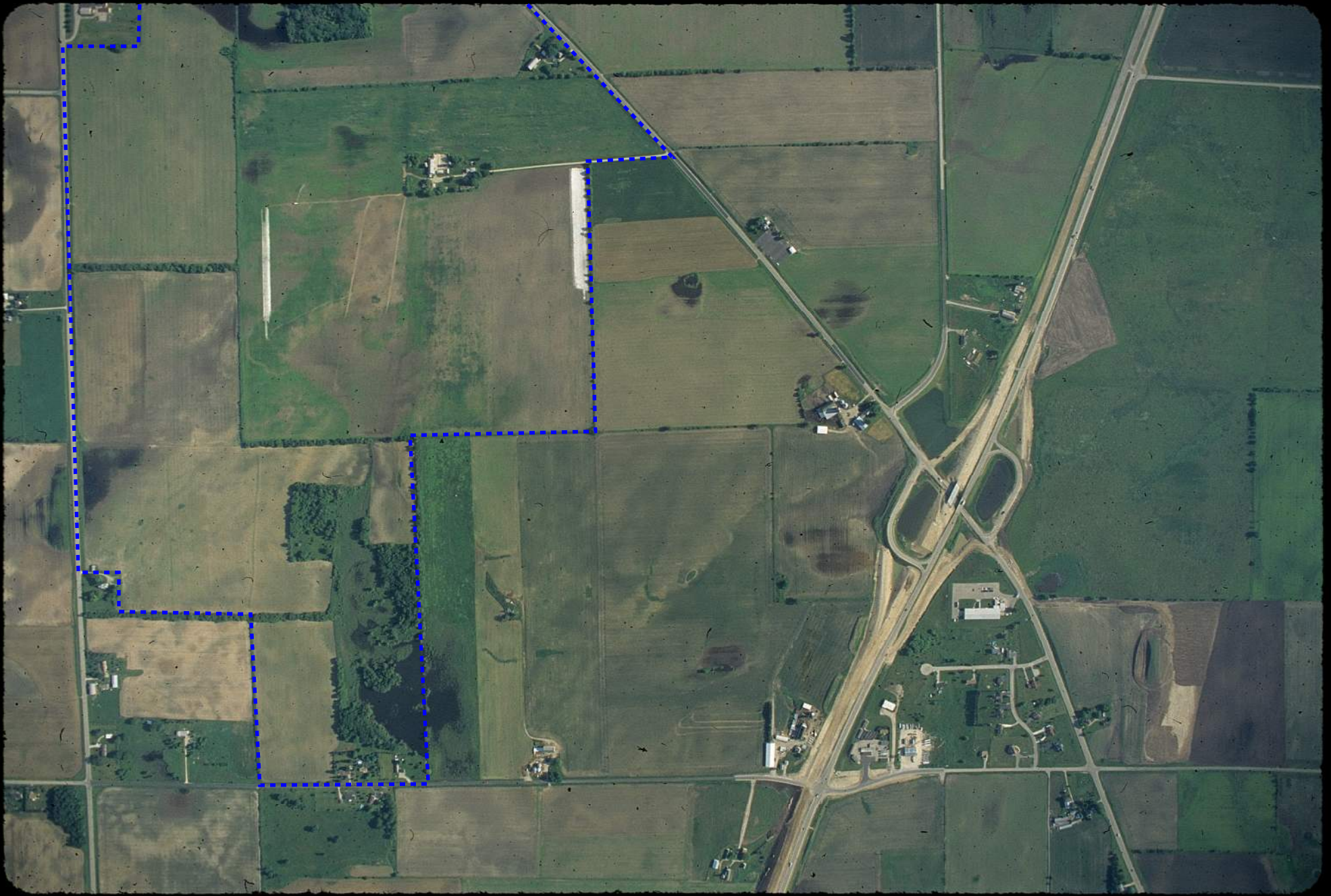


FIGURE 10B - June 1996



FIGURE 11A - August 1995

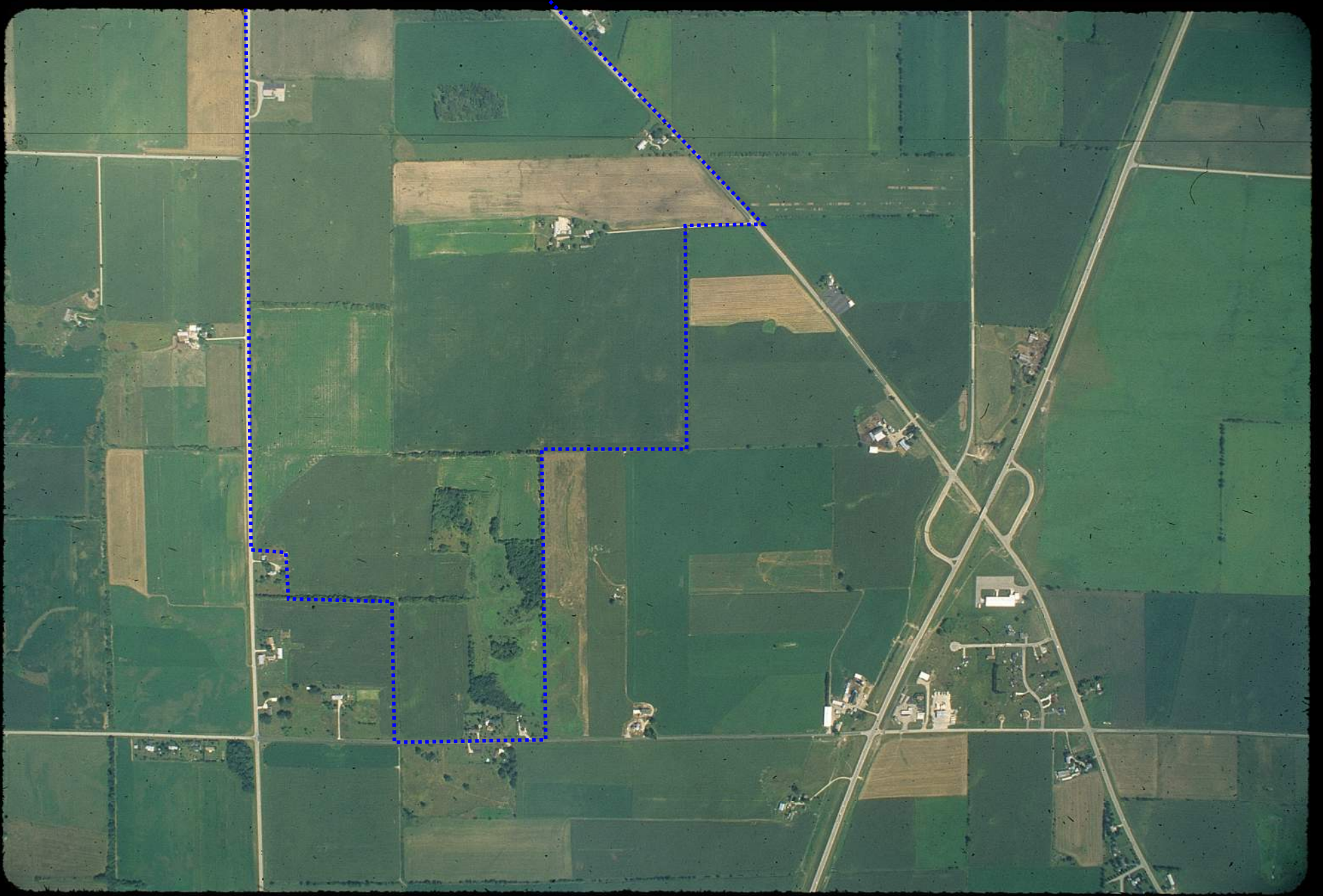


FIGURE 11B - August 1995





FIGURE 12A - August 1990

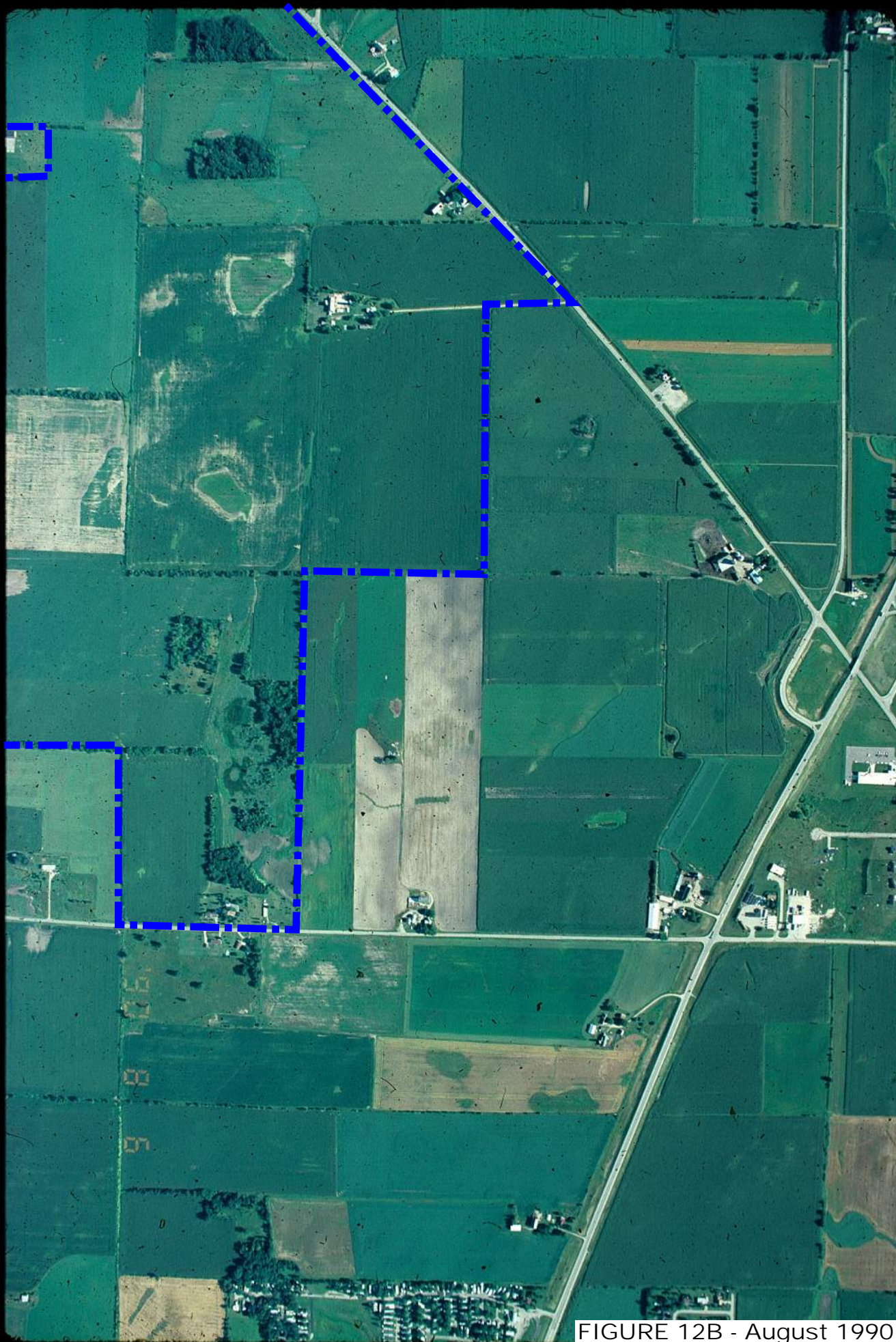


FIGURE 12B - August 1990



FIGURE 12C - August 1990



FIGURE 13A - August 1987

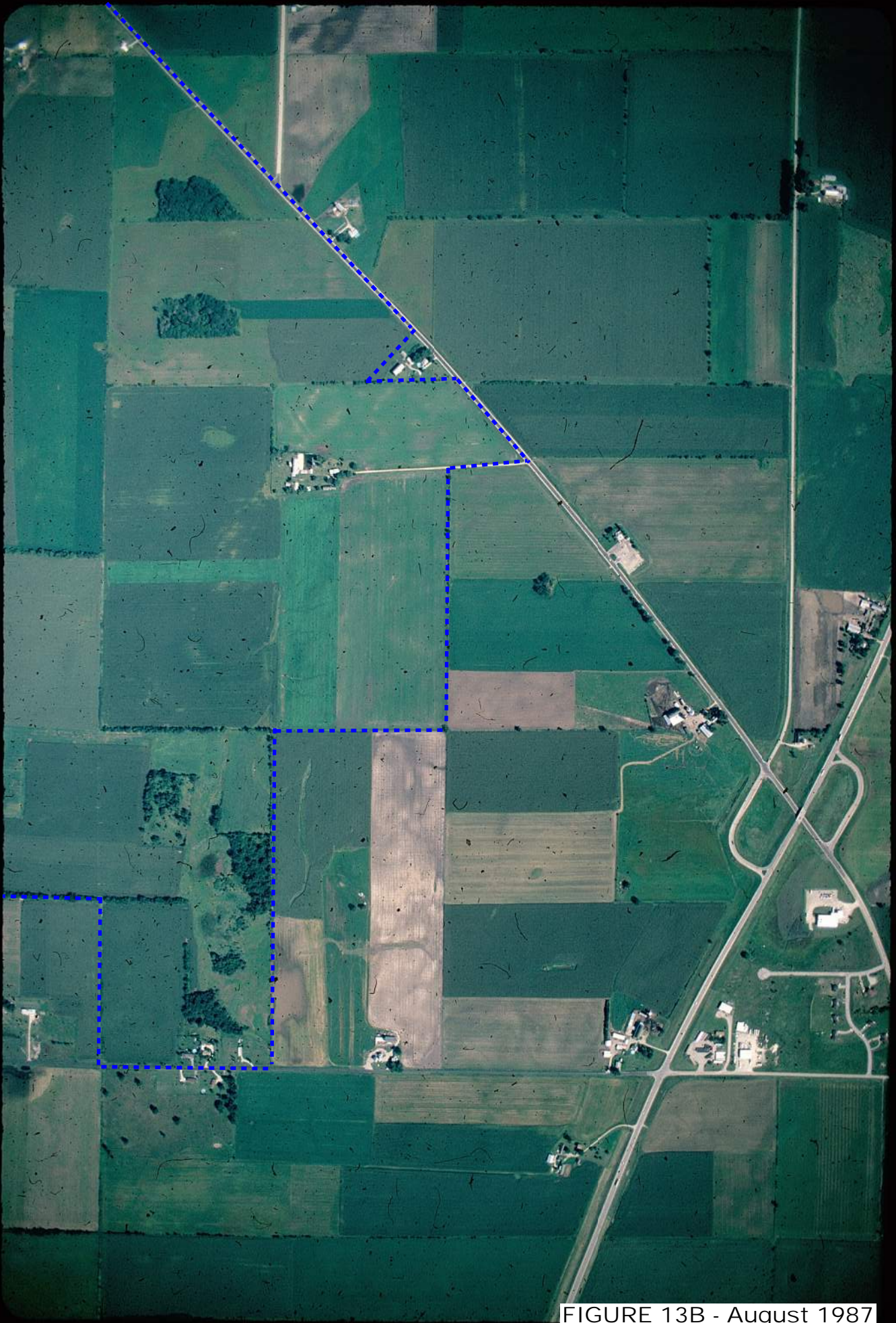


FIGURE 13B - August 1987





FIGURE 13C - August 1987



FIGURE 14A - August 1984



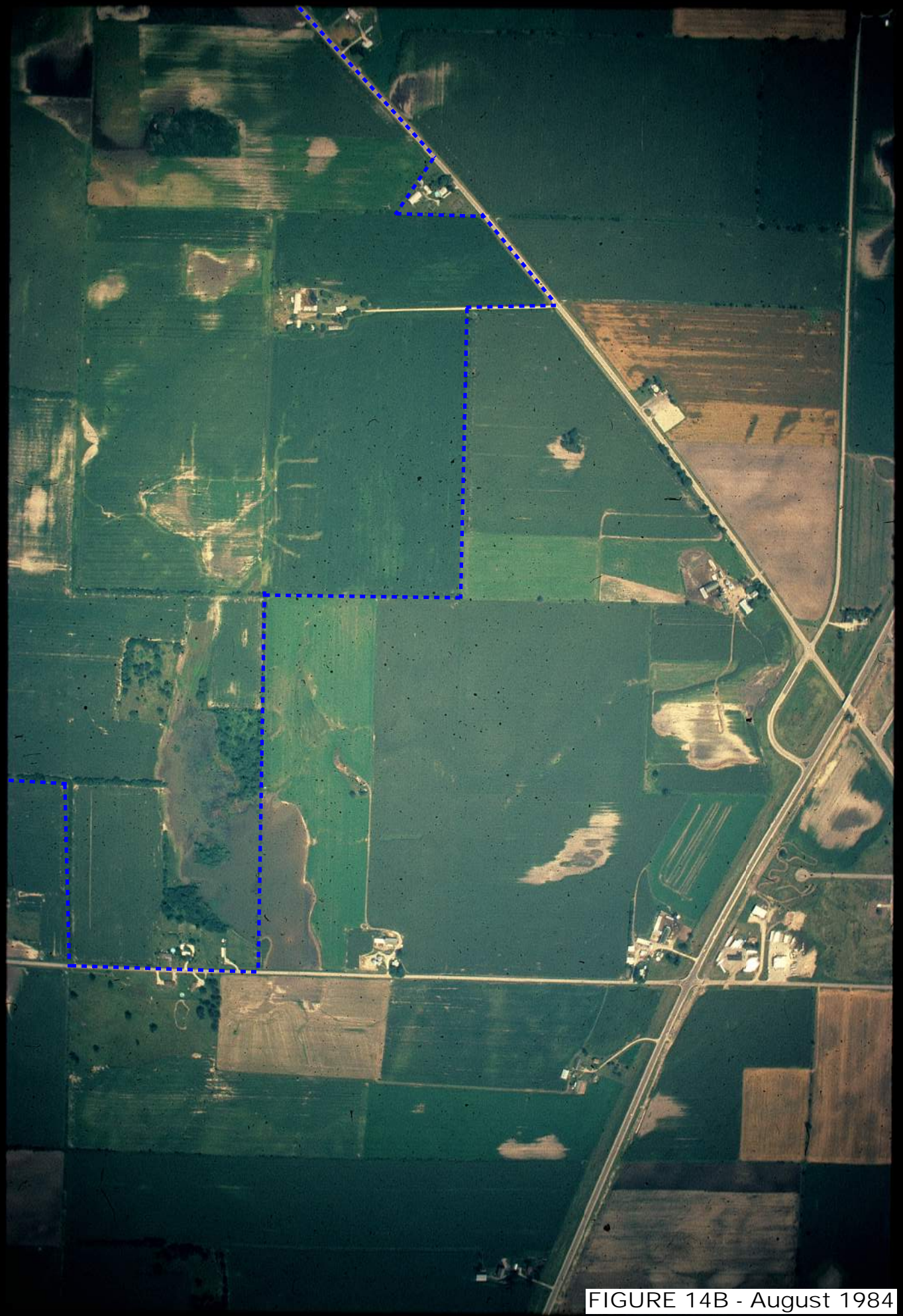


FIGURE 14B - August 1984





FIGURE 14C - August 1984



FIGURE 15A - July 1983



FIGURE 15B - July 1983

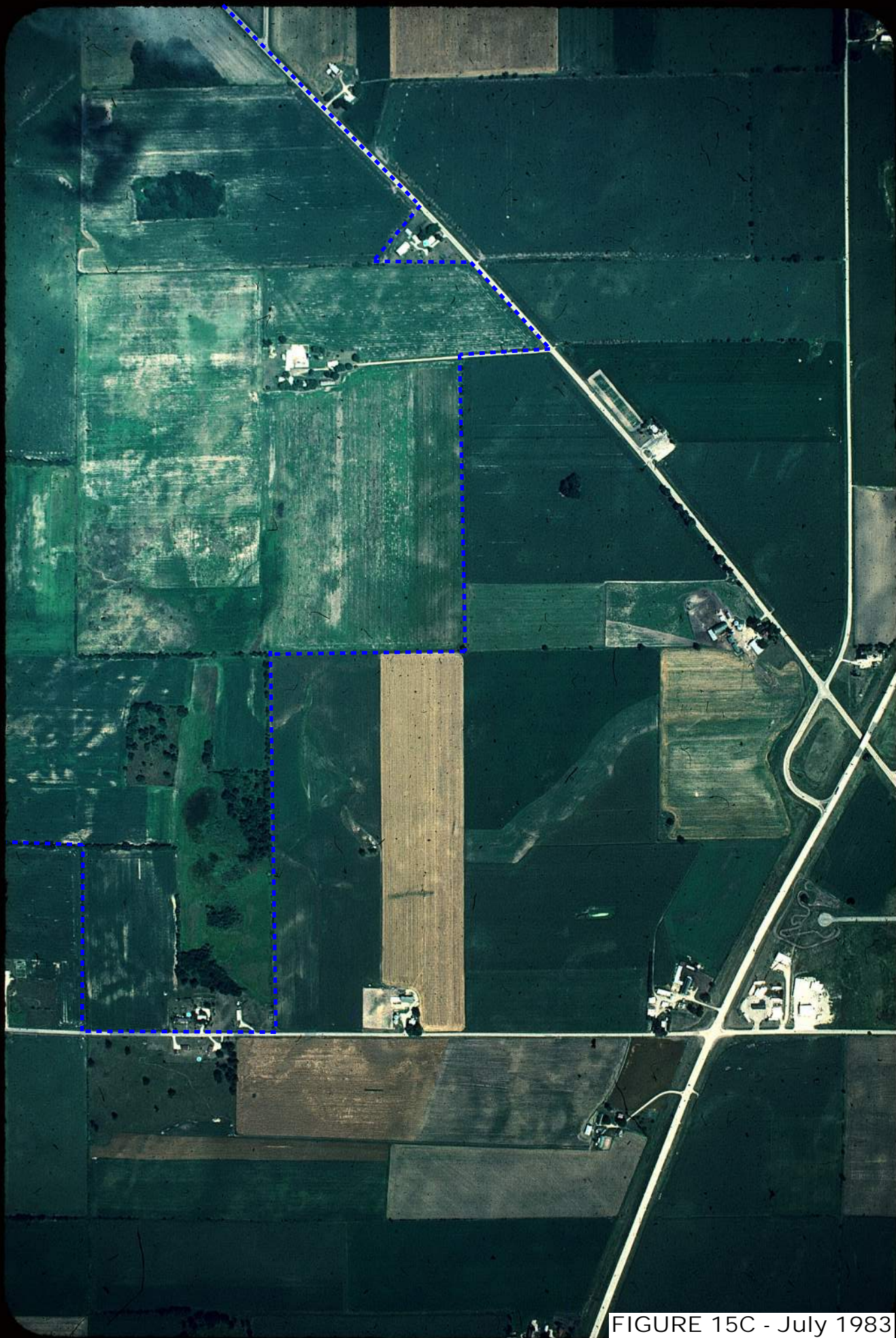


FIGURE 15C - July 1983



FIGURE 15D - July 1983



FIGURE 16A - July 1982



FIGURE 16B - July 1982





FIGURE 16C - July 1982



FIGURE 17A - July 1981

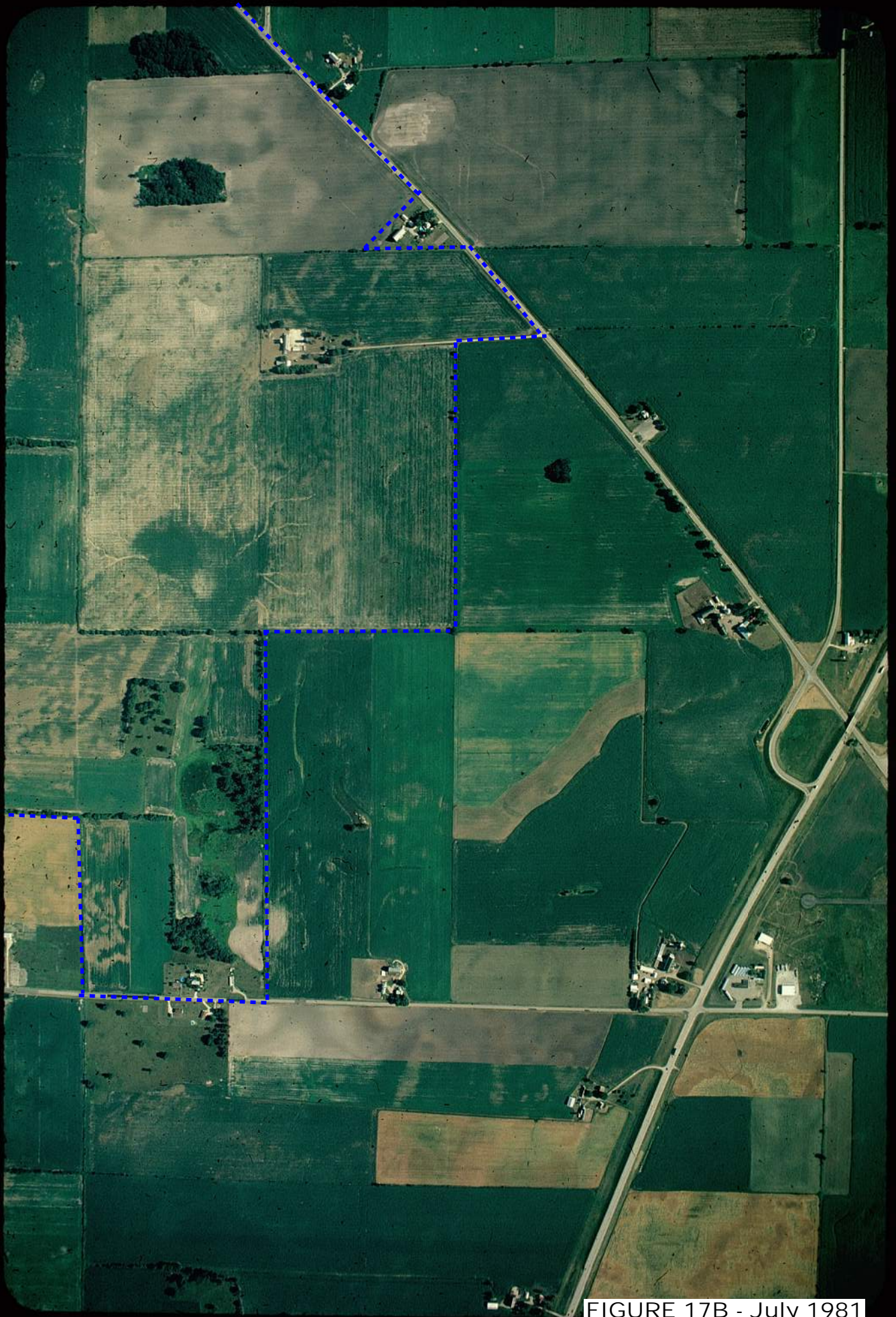


FIGURE 17B - July 1981

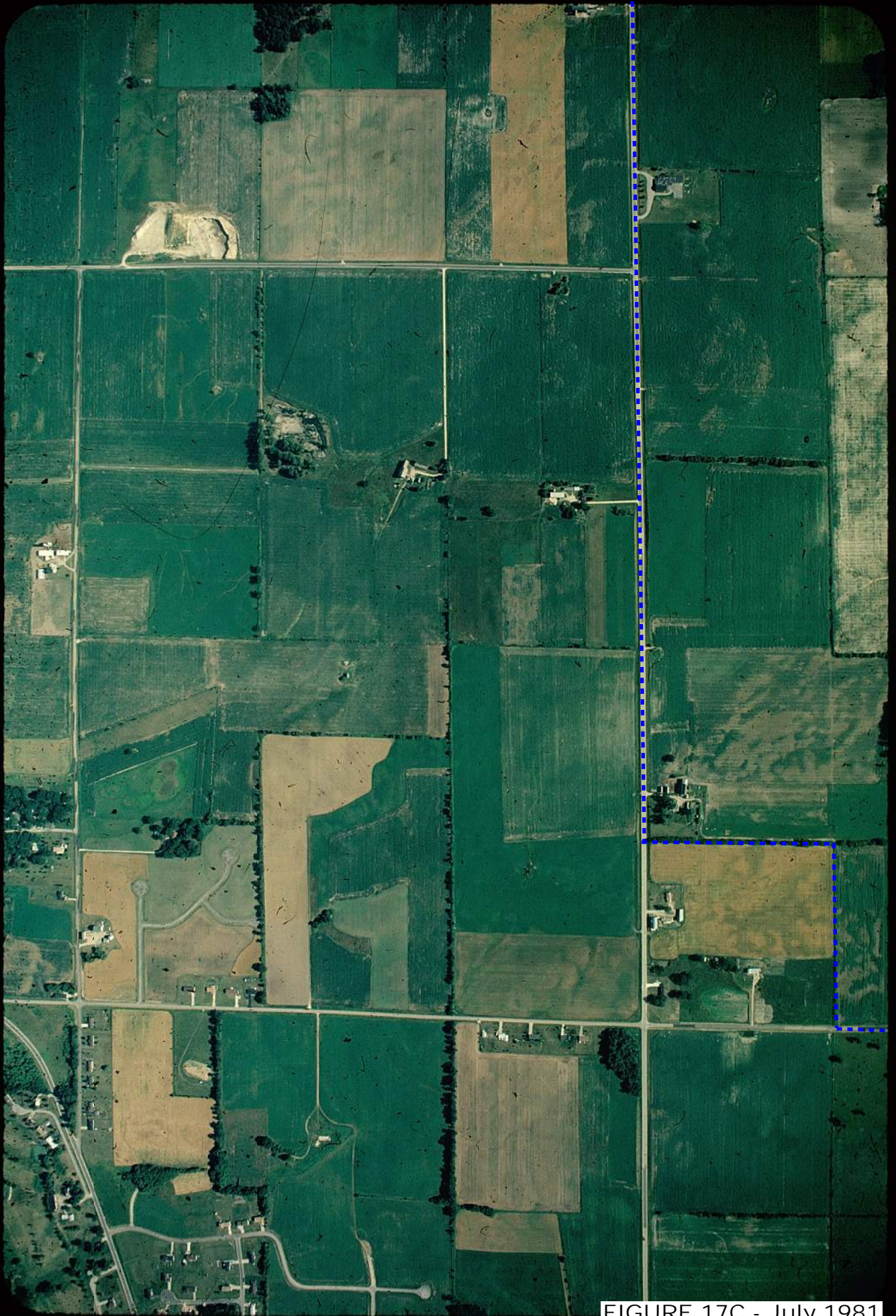


FIGURE 17C - July 1981



FIGURE 18A - August 1980





FIGURE 18B - August 1980





FIGURE 18C - August 1980

Appendix B
NRCS Wetland Documentation Record

WETLAND DOCUMENTATION RECORD
Remotely Sensed Data Summary

Owner/Operator: Alliant Energy County: Dodge State WI

Slide Reviewer: Eva Moritz, Foth Date: 7/12/18

Site Identification No. Multiple (Beaver Dam Industrial Park) (Tract No. + Site No.)

Farm Service Agency (or Other) Aerial Slide Data

Date (Mo/Yr)	Figure No.	NRCS Precipitation Evaluation	Interpretation- (codes listed in box below)
April 2017*		Not Evaluated	Not interpreted
October 2013*		Dry (3 months prior to August)	Not interpreted
June 2010*		Wet (3 month prior to June)	Not interpreted
June 2008*		Wet (April and June)	Not interpreted
June 2006*		Wet (3 month prior to June)	Not interpreted
May 2005*	8	Normal (3 month prior to June)	<ul style="list-style-type: none"> • WL-1 South Half: Yes -, South half NC, 1 (small pool) • WL-1 North Half: No, CR, 7b • WL-2: Yes -, NC, 3 (small area), 6d • WL-3: Yes -, CR, 3 (small area near DP-14), 7b • WL-4: Yes -, CR, 6d, 7b • DP-25: No, CR, 7b • DP-30: No, CR, 7b • DP-31: No, CR, 7b • DP-32: No, CR, 7b • DP-33: No, NC
June 2002	9	Normal (3 month prior to June)	<ul style="list-style-type: none"> • WL-1 South Half: Yes -, NC, 1 (several pools) • WL-1 North Half: No, CR, 6d, 7b • WL-2: Yes +, NC 1 • WL-3: No, CR, 6b, 6d, 7b • WL-4: Yes +, CR, 3, 4, 6c, 7b • DP-25: Yes -, CR, 6e, 7b, saturation • DP-30: No, CR, 7b • DP-31: Yes -, CR, 6b, 7b, saturation • DP-32: No, CR, 7b • DP-33: Yes -, CR, 6b, saturation
June 2001		Dry (March) and Wet (May)	Not interpreted
June 2000		Wet (3 month prior to June)	Not interpreted
July 1999		Wet (3 month prior to July)	Not interpreted
June 1998		Wet (3 month prior to July)	Not interpreted
June 1997		Dry (March to May)	Not interpreted

Date (Mo/Yr)	Figure No.	NRCS Precipitation Evaluation	Interpretation- (codes listed in box below)
June 1996	10	Normal (3 month prior to July)	<ul style="list-style-type: none"> • WL-1 South Half: Yes +, NC, 1 (large open water) • WL-1 North Half: Yes +, CR, 4, 6d, 7b • WL-2: Yes +, NC, 1 • WL-3: Yes +, CR, 1, 6a, 6b, 6e, 7b • WL-4: Yes+, CR, 1, 6e, 7b • DP-25: Yes -, CR, 6d, 7b, saturation • DP-30: Yes -, CR, 2, 3, 6d, 7b • DP-31: Yes -, CR, 2, 3, 6d, 7b • DP-32: Yes +, CR, 1, 6e, 7b • DP-33: Yes -, CR, 6d, 7b
August 1995	11	Normal (3 month prior to August)	<ul style="list-style-type: none"> • WL-1 South Half: No, NC, 6b • WL-1 North Half: No, CR, 6a, 7b • WL-2: No, NC • WL-3: No, CR, 7b • WL-4: No, CR, 7b • DP-25: No, CR, 7b • DP-30: No, CR, 7b • DP-31: No, CR, 7b • DP-32: No, CR, 7b • DP-33: Yes -, CR, 2, 6d, 7b
June 1994		Dry (3 month prior to June)	Not interpreted
1993		Wet	Not interpreted
July 1992		Dry (3 month prior to July)	Not interpreted
August 1991		Wet (3 month prior to August)	Not interpreted
August 1990	12	Normal (3 month prior to August)	<ul style="list-style-type: none"> • WL-1 South Half: Yes+, NC, 1, 2 • WL-1 North Half: Yes+, CR, 3, 4, 6b, 7b • WL-2: Yes +, CR, 4, 6d, 7b • WL-3: Yes -, CR, 3, 4 (several areas) 6a, 6d, 7b • WL-4: Yes +, CR, 4, 6b, 6d, 7b • DP-25: No, CR, 7b • DP-30: Yes -, CR, 3, 6d, 7b • DP-31: Yes -, CR, 3, 6d, 7b • DP-32: No, CR, 7b • DP-33: Yes -, CR, 3, 6a, 7b
August 1989		Wet (3 month prior to August)	Not interpreted
June 1988		Dry (3 month prior to June)	Not interpreted
August 1987	13	Normal (3 month prior to August)	<ul style="list-style-type: none"> • WL-1 South Half: Yes, NC, 1, 3, 6a • WL-1 North Half: No, CR, 7b • WL-2: Yes -, CR, 1 (small pool), 6e, 7b • WL-3: Yes -, CR, 6b (small area), 7b • WL-4: Yes -, CR, 6b, 7b • DP-25: No, CR, 7b • DP-30: Yes -, CR, 6a, 7b • DP-31: No, CR, 7b • DP-32: No, CR, 7b • DP-33: No, CR, 7b
August 1986		Wet (3 month prior to August)	Not interpreted
July 1985		Dry (3 month prior to July)	Not interpreted

Date (Mo/Yr)	Figure No.	NRCS Precipitation Evaluation	Interpretation- (codes listed in box below)
August 1984	14	Normal (3 month prior to August)	<ul style="list-style-type: none"> • WL-1 South Half: Yes +, NC, 1 (large open water) • WL-1 North Half: Yes +, CR, 3, 4, 6d, 7b • WL-2: Yes +, CR, 3, 4, 6d, 7b • WL-3: Yes +, CR, 2, 3, 4, 6a, 6b, 6d, 7b • WL-4: Yes +, CR, 3, 4, 6d, 7b • DP-25: Yes +, CR, 3, 4, 6c, 7b • DP-30: No, CR, 7b • DP-31: Yes +, CR, 3, 4, 6c, 7b • DP-32: No, CR, 7b • DP-33: Yes +, CR, 3, 4, 6c, 7b
July 1983	15	Normal (3 month prior to July)	<ul style="list-style-type: none"> • WL-1 South Half: Yes -, 1 (small pools), 6a • WL-1 North Half: Yes +, 6a, 7b • WL-2: Yes -, CR, 3, 6b • WL-3: No, CR, 7b • WL-4: Yes -, CR, 6b, 7b • DP-25: No, CR, 7b • DP-30: No, CR, 7b • DP-31: No, CR, 7b • DP-32: No, CR, 7b • DP-33: No, CR, 7b
July 1982	16	Normal (3 month prior to July)	<ul style="list-style-type: none"> • WL-1 South Half: Yes+, NC, 1 (small pools), 6b • WL-1 North Half: Yes+, CR, 3, 4, 6d, 7b • WL-2: Yes -, CR, 3, 6b, 6d, 7b • WL-3: No, CR, 7b • WL-4: No, CR, 7b • DP-25: No, CR, 7b • DP-30: Yes-, CR, 6d, 7b • DP-31: No, CR, 7b • DP-32: No, CR, 7b • DP-33: Yes-, CR, 6d, 7b
July 1981	17	Normal (3 month prior to July)	<ul style="list-style-type: none"> • WL-1 South: Yes+, NC/CR, 1, 2, 3 (small pools), 6a, 6b • WL-1 North Half: Yes +, CR, 6a, 7b • WL-2: Yes -, CR, 3, 6d, 7b • WL-3: No, CR, 7b • WL-4: No, CR, 7b • DP-25: No, CR, 7b • DP-30: No, CR, 7b • DP-31: No, CR, 7b • DP-32: No, CR, 7b • DP-33: Yes -, CR, 6d, 7b
August 1980	18	Normal (3 month prior to August)	<ul style="list-style-type: none"> • WL-1 South Half: Yes +, NC, 2, 6a, 6d • WL-1 North Half: Yes +, CR, 6a, 7b • WL-2: Yes -, CR, 3, 4, 6b, 7B • WL-3: Yes -, CR, 3, 4 (small area), 6d, 6b, 7b • WL-4: Yes -, CR, 3, 6a, 7b • DP-25: Yes +, CR, 4, 6a, 7b • DP-30: Yes -, CR, 6a, 7b • DP-31: Yes +, CR, 4, 6a, 6d, 7b • DP-32: No, CR, 7b • DP-33: Yes -, CR, 6a, 7b
July 1979		Dry (3 month prior to July)	Not interpreted
Air Photo			

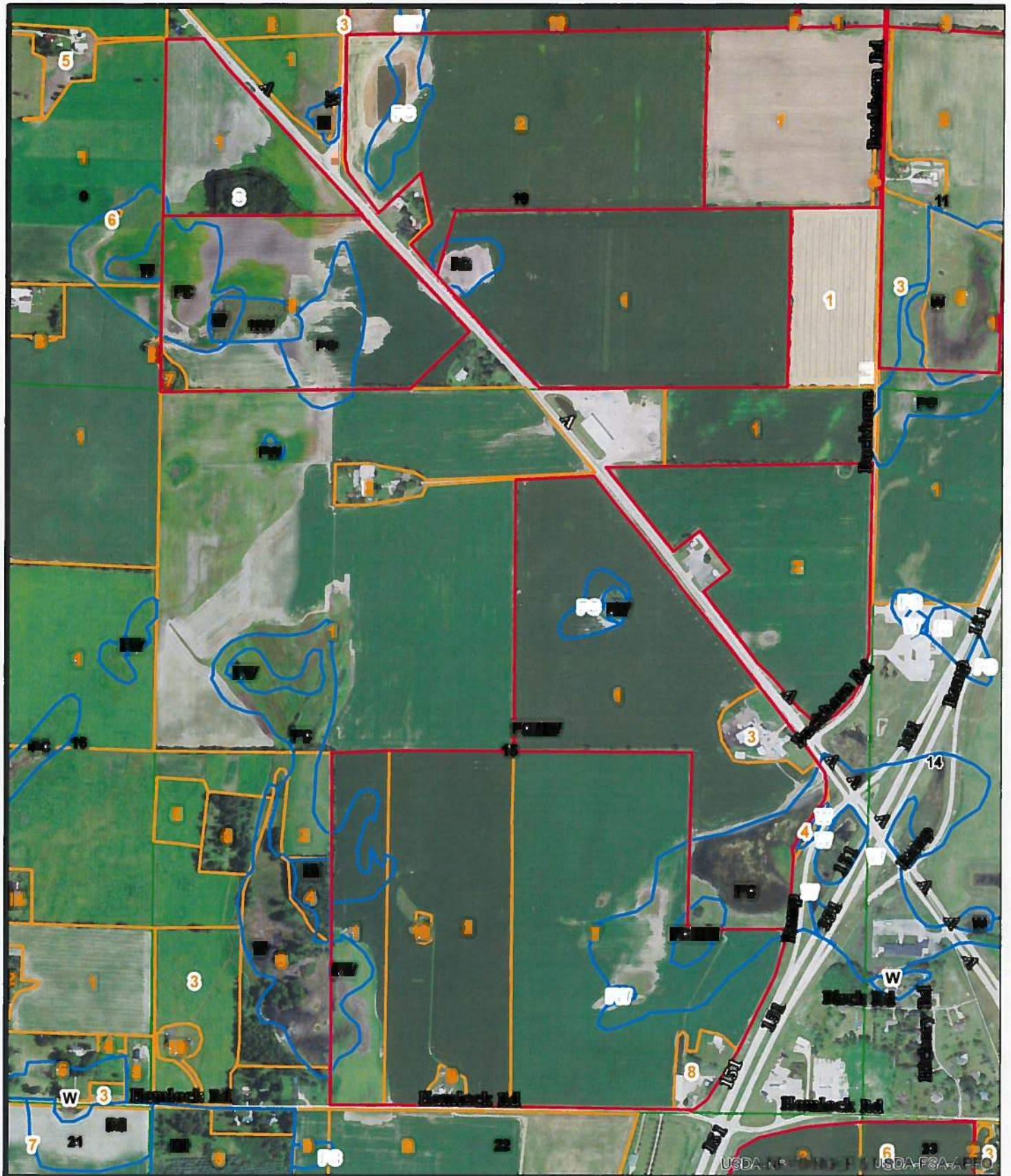
* GoogleEarth Aerial Photograph

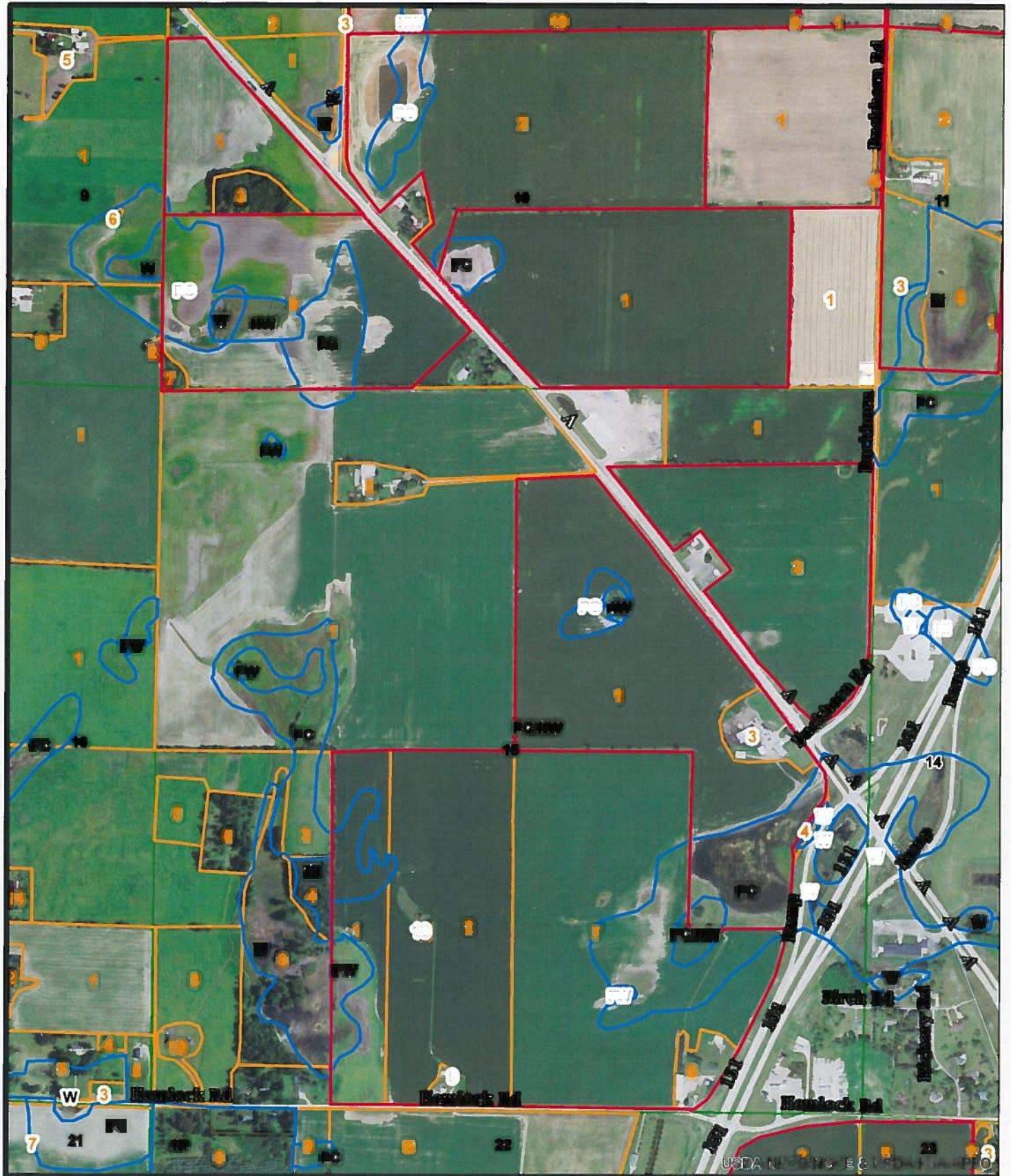
Y = Yes, signal indicates wetness (+ = strong, - = weak) N = No wetness signature			
CR = cropped (row crop or tilled)		NC = not cropped (hay, pasture, idle, etc.)	
<u>Feature</u>	<u>Color</u>	<u>Manipulation</u> (year of installation)	<u>Other</u>
1 = water	6a = dark green	7a = ditched	write explanation
2 = mud flat	6b = light green	7b = tiled	
3 = bare spot	6c = yellow	7c = filled	
4 = drowned crop	6d = brown	7d = tree/brush removal	
5 = planted late	6e = black	8 = plowed/tilled	

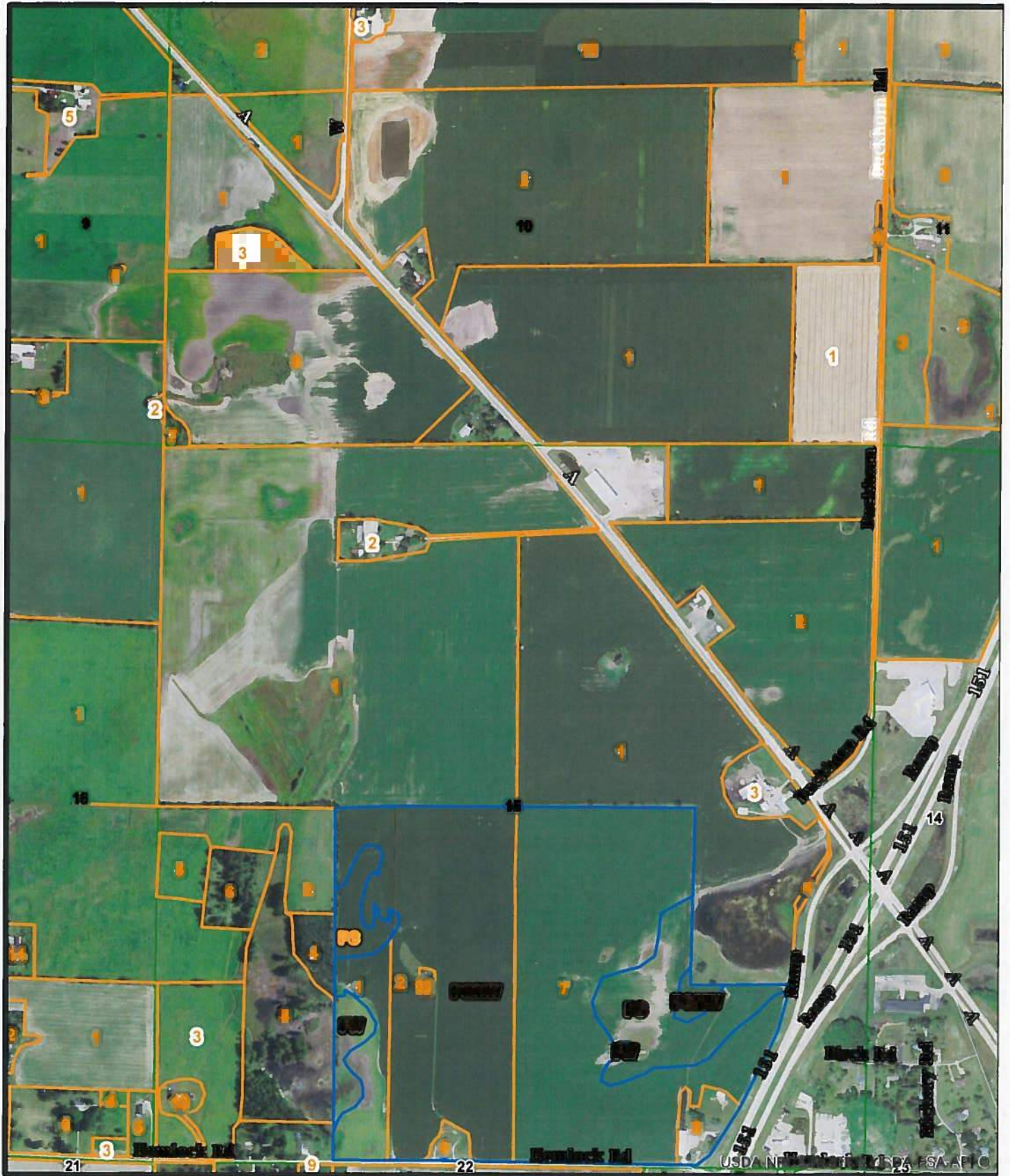
Does slide/air photo data indicate the site is a wetland? ☐Yes ☐No

WL-1 South Half 10 years out of # 11 years observed have wet (Y) signatures.
WL-1 North Half 7 years out of # 11 years observed have wet (Y) signatures.
WL-2 10 years out of # 11 years observed have wet (Y) signatures.
WL-3 6 years out of # 11 years observed have wet (Y) signatures.
WL-4 8 years out of # 11 years observed have wet (Y) signatures.
DP-25 4 years out of # 11 years observed have wet (Y) signatures.
DP-30 5 years out of # 11 years observed have wet (Y) signatures.
DP-31 5 years out of # 11 years observed have wet (Y) signatures.
DP-32 1 years out of # 11 years observed have wet (Y) signatures.
DP-33 8 years out of # 11 years observed have wet (Y) signatures.

Appendix C
NRCS Wetland Determination Maps







Agency: NRCS
County: Dodge
Mapped by: Kristen LaBlanc.



Date: July 19, 2018
Customer(s) Name:
Legal Description: T12N R14E Sec 10, 15

Wetland Map
Farm #
Tract # *Certified Layer*

Agency: NRCS
County: Dodge
Mapped by: Kristen LaBlanc.



Wetland Delineation
FSA CLU

0 165 330 660 Feet



Appendix D
Wetland Determination Data Forms

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Beaver Dam Industrial Park City/County: Beaver Dam/ Dodge Sampling Date: 6/20/18
 Applicant/Owner: Alliant Energy State: WI Sampling Point: DP-1
 Investigator(s): Katie Goff Section, Township, Range: S 9, 10, 15, 16, T12N, R14E
 Landform (hillside, terrace, etc.): till plain/ toeslope Local relief (concave, convex, none): Concave Slope %: 2-6
 Subregion (LRR or MLRA): LRR K Lat: 43.509167690 Long: -88.821322259 Datum: WL-1
 Soil Map Unit Name: LmB Lamartine silt loam NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> No <u> </u> Hydric Soil Present? Yes <u>X</u> No <u> </u> Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u>WL-1</u>
Remarks: (Explain alternative procedures here or in a separate report.) Climate is wetter than normal (see Section 2.8)	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> ___ Surface Water (A1) ___ Water-Stained Leaves (B9) ___ High Water Table (A2) ___ Aquatic Fauna (B13) <u>X</u> Saturation (A3) ___ Marl Deposits (B15) ___ Water Marks (B1) ___ Hydrogen Sulfide Odor (C1) ___ Sediment Deposits (B2) ___ Oxidized Rhizospheres on Living Roots (C3) ___ Drift Deposits (B3) ___ Presence of Reduced Iron (C4) ___ Algal Mat or Crust (B4) ___ Recent Iron Reduction in Tilled Soils (C6) ___ Iron Deposits (B5) ___ Thin Muck Surface (C7) ___ Inundation Visible on Aerial Imagery (B7) ___ Other (Explain in Remarks) ___ Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> ___ Surface Soil Cracks (B6) ___ Drainage Patterns (B10) ___ Moss Trim Lines (B16) ___ Dry-Season Water Table (C2) ___ Crayfish Burrows (C8) ___ Saturation Visible on Aerial Imagery (C9) ___ Stunted or Stressed Plants (D1) <u>X</u> Geomorphic Position (D2) ___ Shallow Aquitard (D3) ___ Microtopographic Relief (D4) <u>X</u> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>0</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No <u> </u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION – Use scientific names of plants.

 Sampling Point: DP-1

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
=Total Cover				Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 40%;">Total % Cover of:</th> <th style="width: 60%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>40</u></td> <td>x 1 = <u>40</u></td> </tr> <tr> <td>FACW species <u>80</u></td> <td>x 2 = <u>160</u></td> </tr> <tr> <td>FAC species <u>10</u></td> <td>x 3 = <u>30</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>130</u> (A)</td> <td><u>230</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>1.77</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>40</u>	x 1 = <u>40</u>	FACW species <u>80</u>	x 2 = <u>160</u>	FAC species <u>10</u>	x 3 = <u>30</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>130</u> (A)	<u>230</u> (B)	Prevalence Index = B/A = <u>1.77</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>40</u>	x 1 = <u>40</u>																			
FACW species <u>80</u>	x 2 = <u>160</u>																			
FAC species <u>10</u>	x 3 = <u>30</u>																			
FACU species <u>0</u>	x 4 = <u>0</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>130</u> (A)	<u>230</u> (B)																			
Prevalence Index = B/A = <u>1.77</u>																				
=Total Cover																				
Sapling/Shrub Stratum (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
=Total Cover				Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u>X</u> 3 - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
=Total Cover																				
Herb Stratum (Plot size: _____)																				
1. <u>Common Spike-Rush (Eleocharis palustris)</u>	<u>30</u>	<u>Yes</u>	<u>OBL</u>																	
2. <u>Reed Canary Grass (Phalaris arundinacea)</u>	<u>80</u>	<u>Yes</u>	<u>FACW</u>																	
3. <u>Common Reed (Phragmites australis)</u>	<u>10</u>	<u>No</u>	<u>OBL</u>																	
4. <u>Wand panic grass (Panicum virgatum)</u>	<u>10</u>	<u>No</u>	<u>FAC</u>																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
<u>130</u> =Total Cover																				
Woody Vine Stratum (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
=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 or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
=Total Cover																				
Hydrophytic Vegetation Present? Yes <u>X</u> No _____																				

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

SOIL

Sampling Point: DP-1

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Beaver Dam Industrial Park City/County: Beaver Dam/ Dodge Sampling Date: 6/20/18
 Applicant/Owner: Alliant Energy State: WI Sampling Point: DP-2
 Investigator(s): Katie Goff Section, Township, Range: S 9, 10, 15, 16, T12N, R14E
 Landform (hillside, terrace, etc.): till plain/ backslope Local relief (concave, convex, none): Concave Slope %: 2-6
 Subregion (LRR or MLRA): LRR K Lat: 43.509594288 Long: -88.821078836 Datum: Upland
 Soil Map Unit Name: LmB Lamartine silt loam NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> No <u> </u> Hydric Soil Present? Yes <u>X</u> No <u> </u> Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u> If yes, optional Wetland Site ID: <u> </u>
Remarks: (Explain alternative procedures here or in a separate report.) Climate is wetter than normal (see Section 2.8)	

HYDROLOGY

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

VEGETATION – Use scientific names of plants.

 Sampling Point: DP-2

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																																																				
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.7%</u> (A/B)																																																			
2. _____	_____	_____	_____																																																				
3. _____	_____	_____	_____																																																				
4. _____	_____	_____	_____																																																				
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7. _____	_____	_____	_____																																																				
_____ =Total Cover				Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 40%;">Total % Cover of:</th> <th style="width: 60%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>25</u></td> <td>x 2 = <u>50</u></td> </tr> <tr> <td>FAC species <u>35</u></td> <td>x 3 = <u>105</u></td> </tr> <tr> <td>FACU species <u>35</u></td> <td>x 4 = <u>140</u></td> </tr> <tr> <td>UPL species <u>10</u></td> <td>x 5 = <u>50</u></td> </tr> <tr> <td>Column Totals: <u>105</u> (A)</td> <td><u>345</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>3.29</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>25</u>	x 2 = <u>50</u>	FAC species <u>35</u>	x 3 = <u>105</u>	FACU species <u>35</u>	x 4 = <u>140</u>	UPL species <u>10</u>	x 5 = <u>50</u>	Column Totals: <u>105</u> (A)	<u>345</u> (B)	Prevalence Index = B/A = <u>3.29</u>																																				
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Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: DP-2

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Beaver Dam Industrial Park City/County: Beaver Dam/ Dodge Sampling Date: 6/20/18
 Applicant/Owner: Alliant Energy State: WI Sampling Point: DP-3
 Investigator(s): Katie Goff Section, Township, Range: S 9, 10, 15, 16, T12N, R14E
 Landform (hillside, terrace, etc.): till plain/ toeslope Local relief (concave, convex, none): Concave Slope %: 0-2
 Subregion (LRR or MLRA): LRR K Lat: 43.50602017 Long: -88.820740196 Datum: WL-1
 Soil Map Unit Name: Ph Pella silty clay loam, cool NWI classification: PEM1C

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u>WL-1</u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>	
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.) Climate is wetter than normal (see Section 2.8)			

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <u> </u> Surface Water (A1) <u>X</u> Water-Stained Leaves (B9) <u>X</u> High Water Table (A2) <u> </u> Aquatic Fauna (B13) <u>X</u> Saturation (A3) <u> </u> Marl Deposits (B15) <u> </u> Water Marks (B1) <u> </u> Hydrogen Sulfide Odor (C1) <u> </u> Sediment Deposits (B2) <u> </u> Oxidized Rhizospheres on Living Roots (C3) <u> </u> Drift Deposits (B3) <u> </u> Presence of Reduced Iron (C4) <u> </u> Algal Mat or Crust (B4) <u> </u> Recent Iron Reduction in Tilled Soils (C6) <u> </u> Iron Deposits (B5) <u> </u> Thin Muck Surface (C7) <u>X</u> Inundation Visible on Aerial Imagery (B7) <u> </u> Other (Explain in Remarks) <u> </u> Sparsely Vegetated Concave Surface (B8)		<u>Secondary Indicators (minimum of two required)</u> <u> </u> Surface Soil Cracks (B6) <u> </u> Drainage Patterns (B10) <u> </u> Moss Trim Lines (B16) <u> </u> Dry-Season Water Table (C2) <u> </u> Crayfish Burrows (C8) <u>X</u> Saturation Visible on Aerial Imagery (C9) <u> </u> Stunted or Stressed Plants (D1) <u> </u> Geomorphic Position (D2) <u> </u> Shallow Aquitard (D3) <u> </u> Microtopographic Relief (D4) <u>X</u> FAC-Neutral Test (D5)	
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>5</u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>0</u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Saturation visible on aerial imagery in 2013, 2006, 1992, 1990, 1987, 1982, 1981, and 1980. Inundation visible on aerial imagery in 2008, 2017, 1996, and 1984.			
Remarks:			

VEGETATION – Use scientific names of plants.

Sampling Point: DP-3

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																																	
1. <u>Black Willow (<i>Salix nigra</i>)</u>	30	Yes	OBL	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>6</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>100.0%</u> (A/B) Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;">Total % Cover of:</th> <th style="width: 20%;"></th> <th style="width: 20%;">Multiply by:</th> <th style="width: 20%;"></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;">110</td> <td>x 1 =</td> <td style="text-align: center;">110</td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;">10</td> <td>x 2 =</td> <td style="text-align: center;">20</td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;">30</td> <td>x 3 =</td> <td style="text-align: center;">90</td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;">0</td> <td>x 4 =</td> <td style="text-align: center;">0</td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;">0</td> <td>x 5 =</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Column Totals:</td> <td style="text-align: center;">150</td> <td>(A)</td> <td style="text-align: center;">220 (B)</td> </tr> <tr> <td colspan="3">Prevalence Index = B/A =</td> <td style="text-align: center;"><u>1.47</u></td> </tr> </tbody> </table>	Total % Cover of:		Multiply by:		OBL species	110	x 1 =	110	FACW species	10	x 2 =	20	FAC species	30	x 3 =	90	FACU species	0	x 4 =	0	UPL species	0	x 5 =	0	Column Totals:	150	(A)	220 (B)	Prevalence Index = B/A =			<u>1.47</u>
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Column Totals:	150	(A)	220 (B)																																	
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2. <u>Eastern Cottonwood (<i>Populus deltoides</i>)</u>	20	Yes	FAC																																	
3. <u>Common Hackberry (<i>Celtis occidentalis</i>)</u>	10	No	FAC																																	
4. _____	_____	_____	_____																																	
5. _____	_____	_____	_____																																	
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Herb Stratum (Plot size: _____)																																				
1. <u>Marsh Marigold (<i>Caltha palustris</i>)</u>	20	Yes	OBL	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 or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u>X</u> No _____																																
2. <u>Broadleaf arrowhead (<i>Sagittaria latifolia</i>)</u>	20	Yes	OBL																																	
3. <u>Cattail sp. (<i>Typha</i> sp.)</u>	20	Yes	OBL																																	
4. <u>Reed Canary Grass (<i>Phalaris arundinacea</i>)</u>	10	No	FACW																																	
5. <u>Water Plantain (<i>Alisma subcordatum</i>)</u>	20	Yes	OBL																																	
6. _____	_____	_____	_____																																	
7. _____	_____	_____	_____																																	
8. _____	_____	_____	_____																																	
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	_____	=Total Cover																																		

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

SOIL

Sampling Point: DP-3

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Beaver Dam Industrial Park City/County: Beaver Dam/ Dodge Sampling Date: 6/20/18
 Applicant/Owner: Alliant Energy State: WI Sampling Point: DP-4
 Investigator(s): Katie Goff Section, Township, Range: S 9, 10, 15, 16, T12N, R14E
 Landform (hillside, terrace, etc.): till plain/ toeslope Local relief (concave, convex, none): Concave Slope %: 0-2
 Subregion (LRR or MLRA): LRR K Lat: 43.506027493 Long: -88.822480465 Datum: WL-1
 Soil Map Unit Name: Ph Pella silty clay loam, cool NWI classification: PEM1C

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u>WL-1</u>
Hydric Soil Present?	Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present?	Yes <u>X</u> No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.) Climate is wetter than normal (see Section 2.8)		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <u> </u> Surface Water (A1) <u>X</u> Water-Stained Leaves (B9) <u>X</u> High Water Table (A2) <u> </u> Aquatic Fauna (B13) <u>X</u> Saturation (A3) <u> </u> Marl Deposits (B15) <u> </u> Water Marks (B1) <u> </u> Hydrogen Sulfide Odor (C1) <u> </u> Sediment Deposits (B2) <u> </u> Oxidized Rhizospheres on Living Roots (C3) <u> </u> Drift Deposits (B3) <u> </u> Presence of Reduced Iron (C4) <u> </u> Algal Mat or Crust (B4) <u> </u> Recent Iron Reduction in Tilled Soils (C6) <u> </u> Iron Deposits (B5) <u> </u> Thin Muck Surface (C7) <u>X</u> Inundation Visible on Aerial Imagery (B7) <u> </u> Other (Explain in Remarks) <u> </u> Sparsely Vegetated Concave Surface (B8)		<u>Secondary Indicators (minimum of two required)</u> <u> </u> Surface Soil Cracks (B6) <u> </u> Drainage Patterns (B10) <u> </u> Moss Trim Lines (B16) <u> </u> Dry-Season Water Table (C2) <u> </u> Crayfish Burrows (C8) <u>X</u> Saturation Visible on Aerial Imagery (C9) <u> </u> Stunted or Stressed Plants (D1) <u>X</u> Geomorphic Position (D2) <u> </u> Shallow Aquitard (D3) <u> </u> Microtopographic Relief (D4) <u>X</u> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>3</u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>0</u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u>X</u> No <u> </u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Saturation visible on aerial imagery in 2013, 1987, 1982, 1981, and 1980. Inundation visible on aerial imagery in 2017, 2008, 2005, 2004, 1996, 1992, 1990, and 1984.		
Remarks: Inundation visible on aerial imagery in 2008, 2017, 2018		

VEGETATION – Use scientific names of plants.

 Sampling Point: DP-4

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Black Willow (<i>Salix nigra</i>)</u>	10	Yes	OBL	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>8</u> (A) Total Number of Dominant Species Across All Strata: <u>8</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
	10	=Total Cover																		
Sapling/Shrub Stratum (Plot size: _____)																				
1. _____	_____	_____	_____	Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>110</u></td> <td>x 1 = <u>110</u></td> </tr> <tr> <td>FACW species <u>20</u></td> <td>x 2 = <u>40</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>130</u> (A)</td> <td><u>150</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>1.15</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>110</u>	x 1 = <u>110</u>	FACW species <u>20</u>	x 2 = <u>40</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>130</u> (A)	<u>150</u> (B)	Prevalence Index = B/A = <u>1.15</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>110</u>	x 1 = <u>110</u>																			
FACW species <u>20</u>	x 2 = <u>40</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>0</u>	x 4 = <u>0</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>130</u> (A)	<u>150</u> (B)																			
Prevalence Index = B/A = <u>1.15</u>																				
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
	=Total Cover																			
Herb Stratum (Plot size: _____)																				
1. <u>Spikerush (<i>Eleocharis</i>)</u>	35	Yes	OBL	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u>X</u> 3 - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Water Plantain (<i>Alisma subchordatum</i>)</u>	25	Yes	OBL																	
3. <u>Smartweed (<i>Persicaria pensylvanica</i>)</u>	10	Yes	FACW																	
4. <u>Arrowhead (<i>Sagittaria latifolia</i>)</u>	10	Yes	OBL																	
5. <u>Cattail sp. (<i>Typha</i> sp.)</u>	10	Yes	OBL																	
6. <u>Reed Canary Grass (<i>Phalaris arundinacea</i>)</u>	10	Yes	FACW																	
7. <u>Dark Green Bulrush (<i>Scirpus atrovirens</i>)</u>	5	No	OBL																	
8. <u>Big Bur Reed (<i>Sparganium eurycarpum</i>)</u>	10	Yes	OBL																	
9. <u>Marsh Marigold (<i>Caltha palustris</i>)</u>	5	No	OBL																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
	120	=Total Cover																		
Woody Vine Stratum (Plot size: _____)																				
1. _____	_____	_____	_____	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 or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
	=Total Cover																			

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

SOIL

Sampling Point DP-4**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-18	10YR 4/1	90	5YR 3/4	10	C	M	Loamy/Clayey	Prominent redox concentrations
18-24	10YR 5/1	80	10YR 5/8	20	C	M	Loamy/Clayey	Prominent redox concentrations

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked 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"/> High Chroma Sands (S11) (LRR K, L)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input checked="" type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input checked="" type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Marl (F10) (LRR K, L)
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Dark Surface (S7)	

Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B)
<input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R)
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L)
<input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L)
<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R)
<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B)
<input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
<input type="checkbox"/> Red Parent Material (F21)
<input type="checkbox"/> Very Shallow Dark Surface (F22)
<input type="checkbox"/> 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:**

This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, Version 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

The Redox Depression indicator applies based on the data point location within a depressional landform. The Coast Prairie Redox indicator is not applicable based on the site's location in LRR K.

Project/Site: Beaver Dam Industrial Park City/County: Beaver Dam/ Dodge Sampling Date: 6/20/18
Applicant/Owner: Alliant Energy State: WI Sampling Point: DP-5
Investigator(s): Katie Goff Section, Township, Range: S 9, 10, 15, 16, T12N, R14E
Landform (hillside, terrace, etc.): till plain/ backslope Local relief (concave, convex, none): Convex Slope %: 0-2
Subregion (LRR or MLRA): LRR K Lat: 43.505787870 Long: -88.823100833 Datum: Upland
Soil Map Unit Name: SdA St. Charles silt loam, moderately well drained 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.)

Hydrophytic Vegetation Present?	Yes _____	No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Hydric Soil Present?	Yes <u>X</u>	No _____	
Wetland Hydrology Present?	Yes _____	No <u>X</u>	
Remarks: (Explain alternative procedures here or in a separate report.) Climate is wetter than normal (see Section 2.8)			

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

VEGETATION – Use scientific names of plants.

 Sampling Point: DP-5

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
=Total Cover				Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>50</u></td> <td>x 2 = <u>100</u></td> </tr> <tr> <td>FAC species <u>30</u></td> <td>x 3 = <u>90</u></td> </tr> <tr> <td>FACU species <u>20</u></td> <td>x 4 = <u>80</u></td> </tr> <tr> <td>UPL species <u>10</u></td> <td>x 5 = <u>50</u></td> </tr> <tr> <td>Column Totals: <u>110</u> (A)</td> <td><u>320</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.91</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>50</u>	x 2 = <u>100</u>	FAC species <u>30</u>	x 3 = <u>90</u>	FACU species <u>20</u>	x 4 = <u>80</u>	UPL species <u>10</u>	x 5 = <u>50</u>	Column Totals: <u>110</u> (A)	<u>320</u> (B)	Prevalence Index = B/A = <u>2.91</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>50</u>	x 2 = <u>100</u>																			
FAC species <u>30</u>	x 3 = <u>90</u>																			
FACU species <u>20</u>	x 4 = <u>80</u>																			
UPL species <u>10</u>	x 5 = <u>50</u>																			
Column Totals: <u>110</u> (A)	<u>320</u> (B)																			
Prevalence Index = B/A = <u>2.91</u>																				
=Total Cover																				
Sapling/Shrub Stratum (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
=Total Cover				Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
=Total Cover																				
Herb Stratum (Plot size: _____)																				
1. <u>Tall Fescue (Festuca arundinacea)</u>	<u>30</u>	<u>Yes</u>	<u>FAC</u>																	
2. <u>Reed Canary Grass (Phalaris arundinacea)</u>	<u>20</u>	<u>No</u>	<u>FACW</u>																	
3. <u>sawtooth sunflower (Helianthus grosseserratus)</u>	<u>30</u>	<u>Yes</u>	<u>FACW</u>																	
4. <u>Queen anne's lace (Daucus carota)</u>	<u>10</u>	<u>No</u>	<u>UPL</u>																	
5. <u>Field thistle (Cirsium discolor)</u>	<u>20</u>	<u>No</u>	<u>FACU</u>																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
<u>110</u> =Total Cover																				
Woody Vine Stratum (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
=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 or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
=Total Cover																				
Hydrophytic Vegetation Present? Yes <u>X</u> No _____																				

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

SOIL

Sampling Point: DP-5

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-1	10YR 2/1	100						
1-12	10YR 4/2	90	10YR 5/8	10	C	M	Loamy/Clayey	Prominent redox concentrations
12-24	10YR 5/4	90	10YR 5/8	10	C	M	Loamy/Clayey	Prominent redox concentrations

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:			Indicators for Problematic Hydric Soils³:		
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/>	Polyvalue Below Surface (S8) (LRR R, MLRA 149B)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2 cm Muck (A10) (LRR K, L, MLRA 149B)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/>	MLRA 149B)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Coast Prairie Redox (A16) (LRR K, L, R)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/>	Thin Dark Surface (S9) (LRR R, MLRA 149B)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/>	High Chroma Sands (S11) (LRR K, L)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Polyvalue Below Surface (S8) (LRR K, L)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/>	Loamy Mucky Mineral (F1) (LRR K, L)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Thin Dark Surface (S9) (LRR K, L)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/>	Loamy Gleyed Matrix (F2)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Iron-Manganese Masses (F12) (LRR K, L, R)
<input type="checkbox"/> Thick Dark Surface (A12)	<input checked="" type="checkbox"/>	X Depleted Matrix (F3)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Piedmont Floodplain Soils (F19) (MLRA 149B)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/>	Redox Dark Surface (F6)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/>	Depleted Dark Surface (F7)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Red Parent Material (F21)
<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/>	Redox Depressions (F8)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Very Shallow Dark Surface (F22)
<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/>	Marl (F10) (LRR K, L)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other (Explain in Remarks)
<input type="checkbox"/> Dark Surface (S7)	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	

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 <input checked="" type="checkbox"/> No <input type="checkbox"/>

Remarks:
This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, Version 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)
The Redox Depressions indicator does not apply based on the data points position in the landscape.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Beaver Dam Industrial Park City/County: Beaver Dam/ Dodge Sampling Date: 6/20/18
 Applicant/Owner: Alliant Energy State: WI Sampling Point: DP-6
 Investigator(s): Katie Goff Section, Township, Range: S 9, 10, 15, 16, T12N, R14E
 Landform (hillside, terrace, etc.): till plain/ toeslope Local relief (concave, convex, none): convex Slope %: 0-2
 Subregion (LRR or MLRA): LRR K Lat: 43.503746767 Long: -88.821291290 Datum: WL-1
 Soil Map Unit Name: SdA St. Charles silt loam, moderately well drained NWI classification: PEM1Fx
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u>WL-1</u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>	
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.) Climate is wetter than normal (see Section 2.8)			

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
<u> </u> Surface Water (A1)	<u>X</u> Water-Stained Leaves (B9)	<u> </u> Surface Soil Cracks (B6)	
<u>X</u> High Water Table (A2)	<u>X</u> Aquatic Fauna (B13)	<u> </u> Drainage Patterns (B10)	
<u>X</u> Saturation (A3)	<u> </u> Marl Deposits (B15)	<u> </u> Moss Trim Lines (B16)	
<u> </u> Water Marks (B1)	<u> </u> Hydrogen Sulfide Odor (C1)	<u> </u> Dry-Season Water Table (C2)	
<u> </u> Sediment Deposits (B2)	<u> </u> Oxidized Rhizospheres on Living Roots (C3)	<u>X</u> Crayfish Burrows (C8)	
<u> </u> Drift Deposits (B3)	<u> </u> Presence of Reduced Iron (C4)	<u>X</u> Saturation Visible on Aerial Imagery (C9)	
<u> </u> Algal Mat or Crust (B4)	<u> </u> Recent Iron Reduction in Tilled Soils (C6)	<u> </u> Stunted or Stressed Plants (D1)	
<u> </u> Iron Deposits (B5)	<u> </u> Thin Muck Surface (C7)	<u>X</u> Geomorphic Position (D2)	
<u>X</u> Inundation Visible on Aerial Imagery (B7)	<u> </u> Other (Explain in Remarks)	<u> </u> Shallow Aquitard (D3)	
<u> </u> Sparsely Vegetated Concave Surface (B8)		<u> </u> Microtopographic Relief (D4)	
		<u>X</u> FAC-Neutral Test (D5)	
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>0</u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>0</u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Saturation visible on aerial imagery in 2013, 1990 1982, 1980. Inundation visible on aerial imagery in 2017, 2008, 1996, 1992, 1984.			
Remarks:			

VEGETATION – Use scientific names of plants.

 Sampling Point: DP-6

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																																									
1. <u>Black willow (<i>Salix nigra</i>)</u>	20	Yes	OBL	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>6</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>100.0%</u> (A/B) Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;">Total % Cover of:</th> <th style="width: 10%;"></th> <th style="width: 10%;">Multiply by:</th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;">115</td> <td>x 1 =</td> <td style="text-align: center;">115</td> <td></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;">30</td> <td>x 2 =</td> <td style="text-align: center;">60</td> <td></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;">30</td> <td>x 3 =</td> <td style="text-align: center;">90</td> <td></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;">0</td> <td>x 4 =</td> <td style="text-align: center;">0</td> <td></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;">0</td> <td>x 5 =</td> <td style="text-align: center;">0</td> <td></td> </tr> <tr> <td>Column Totals:</td> <td style="text-align: center;">175</td> <td>(A)</td> <td style="text-align: center;">265</td> <td>(B)</td> </tr> <tr> <td colspan="5">Prevalence Index = B/A = <u>1.51</u></td> </tr> </tbody> </table>	Total % Cover of:		Multiply by:			OBL species	115	x 1 =	115		FACW species	30	x 2 =	60		FAC species	30	x 3 =	90		FACU species	0	x 4 =	0		UPL species	0	x 5 =	0		Column Totals:	175	(A)	265	(B)	Prevalence Index = B/A = <u>1.51</u>				
Total % Cover of:		Multiply by:																																										
OBL species	115	x 1 =	115																																									
FACW species	30	x 2 =	60																																									
FAC species	30	x 3 =	90																																									
FACU species	0	x 4 =	0																																									
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Column Totals:	175	(A)	265	(B)																																								
Prevalence Index = B/A = <u>1.51</u>																																												
2. <u>Eastern cottonwood (<i>Populus deltoides</i>)</u>	30	Yes	FAC																																									
3. <u>Green ash (<i>Fraxinus pennsylvanica</i>)</u>	30	Yes	FACW																																									
4. _____																																												
5. _____																																												
6. _____																																												
7. _____																																												
	80	=Total Cover																																										
Sapling/Shrub Stratum (Plot size: _____)																																												
1. _____				Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u>X</u> 3 - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																																								
2. _____																																												
3. _____																																												
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7. _____																																												
				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 or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																																								
Herb Stratum (Plot size: _____)																																												
1. <u>Arrowhead (<i>Sagittaria latifolia</i>)</u>	20	Yes	OBL																																									
2. <u>Duckweed (<i>Lemna minor</i>)</u>	40	Yes	OBL																																									
3. <u>Cattail sp. (<i>Typha</i> sp.)</u>	20	Yes	OBL																																									
4. <u>Dark-green bulrush (<i>Scirpus atrovirens</i>)</u>	15	No	OBL																																									
5. _____																																												
6. _____																																												
7. _____				Hydrophytic Vegetation Present? Yes <u>X</u> No _____																																								
8. _____																																												
9. _____																																												
10. _____																																												
11. _____																																												
12. _____																																												
	95	=Total Cover																																										
Woody Vine Stratum (Plot size: _____)																																												
1. _____																																												
2. _____																																												
3. _____																																												
4. _____																																												
				=Total Cover																																								

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

SOIL

Sampling Point: DP-6

[illegible]

Project/Site: Beaver Dam Industrial Park City/County: Beaver Dam/ Dodge Sampling Date: 6/20/18
Applicant/Owner: Alliant Energy State: WI Sampling Point: DP-7
Investigator(s): Katie Goff Section, Township, Range: S 9, 10, 15, 16, T12N, R14E
Landform (hillside, terrace, etc.): till plain/ backslope Local relief (concave, convex, none): Convex Slope %: 12-18
Subregion (LRR or MLRA): LRR K Lat: 43.503416518 Long: -88.821357003 Datum: Upland
Soil Map Unit Name: LrD2 LeRoy silt loam, eroded NWI classification: None

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

HYDROLOGY

Northcentral and Northeast Region – Version 2.0

VEGETATION – Use scientific names of plants.

 Sampling Point: DP-7

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Black willow (<i>Salix nigra</i>)</u>	20	Yes	OBL	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.7%</u> (A/B)																
2. <u>Eastern cottonwood (<i>Populus deltoides</i>)</u>	30	Yes	FAC																	
3. <u>Green ash (<i>Fraxinus pennsylvanica</i>)</u>	20	Yes	FACW																	
4. <u>Ohio buckeye (<i>Aesculus glabra</i>)</u>	10	No	FAC																	
5. _____																				
6. _____																				
7. _____																				
	80	=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 40%;">Total % Cover of:</th> <th style="width: 60%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>20</u></td> <td>x 1 = <u>20</u></td> </tr> <tr> <td>FACW species <u>60</u></td> <td>x 2 = <u>120</u></td> </tr> <tr> <td>FAC species <u>40</u></td> <td>x 3 = <u>120</u></td> </tr> <tr> <td>FACU species <u>50</u></td> <td>x 4 = <u>200</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>170</u></td> <td>(A) <u>460</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.71</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>20</u>	x 1 = <u>20</u>	FACW species <u>60</u>	x 2 = <u>120</u>	FAC species <u>40</u>	x 3 = <u>120</u>	FACU species <u>50</u>	x 4 = <u>200</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>170</u>	(A) <u>460</u> (B)	Prevalence Index = B/A = <u>2.71</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>20</u>	x 1 = <u>20</u>																			
FACW species <u>60</u>	x 2 = <u>120</u>																			
FAC species <u>40</u>	x 3 = <u>120</u>																			
FACU species <u>50</u>	x 4 = <u>200</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>170</u>	(A) <u>460</u> (B)																			
Prevalence Index = B/A = <u>2.71</u>																				
Sapling/Shrub Stratum (Plot size: _____)																				
1. <u>Twinsisters honeysuckle (<i>Lonicera tatarica</i>)</u>	20	Yes	FACU																	
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	20	=Total Cover																		
Herb Stratum (Plot size: _____)																				
1. <u>Jewelweed (<i>Impatiens pallida</i>)</u>	40	Yes	FACW	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Blackberry (<i>Rubus allegheniensis</i>)</u>	10	No	FACU																	
3. <u>White snakeroot (<i>Ageratina altissima</i>)</u>	20	Yes	FACU																	
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
12. _____																				
	70	=Total Cover																		
Woody Vine Stratum (Plot size: _____)																				
1. _____				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 or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
2. _____																				
3. _____																				
4. _____																				
		=Total Cover		Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>																

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

SOIL

Sampling Point: DP-7

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Beaver Dam Industrial Park City/County: Beaver Dam/ Dodge Sampling Date: 6/20/18
 Applicant/Owner: Alliant Energy State: WI Sampling Point: DP-8
 Investigator(s): Katie Goff Section, Township, Range: S 9, 10, 15, 16, T12N, R14E
 Landform (hillside, terrace, etc.): till plain/ toeslope Local relief (concave, convex, none): Concave Slope %: 2-6
 Subregion (LRR or MLRA): LRR K Lat: 43.509897328 Long: -88.820782427 Datum: WL-1
 Soil Map Unit Name: LmB Lamartine silt loam NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> No <u> </u> Hydric Soil Present? Yes <u>X</u> No <u> </u> Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u>WL-1</u>
Remarks: (Explain alternative procedures here or in a separate report.) Climate is wetter than normal (see Section 2.8)	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <u> </u> Surface Water (A1) <u> </u> Water-Stained Leaves (B9) <u> </u> High Water Table (A2) <u> </u> Aquatic Fauna (B13) <u>X</u> Saturation (A3) <u> </u> Marl Deposits (B15) <u> </u> Water Marks (B1) <u> </u> Hydrogen Sulfide Odor (C1) <u> </u> Sediment Deposits (B2) <u> </u> Oxidized Rhizospheres on Living Roots (C3) <u> </u> Drift Deposits (B3) <u> </u> Presence of Reduced Iron (C4) <u> </u> Algal Mat or Crust (B4) <u> </u> Recent Iron Reduction in Tilled Soils (C6) <u> </u> Iron Deposits (B5) <u> </u> Thin Muck Surface (C7) <u> </u> Inundation Visible on Aerial Imagery (B7) <u> </u> Other (Explain in Remarks) <u> </u> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> <u> </u> Surface Soil Cracks (B6) <u> </u> Drainage Patterns (B10) <u> </u> Moss Trim Lines (B16) <u> </u> Dry-Season Water Table (C2) <u> </u> Crayfish Burrows (C8) <u>X</u> Saturation Visible on Aerial Imagery (C9) <u> </u> Stunted or Stressed Plants (D1) <u>X</u> Geomorphic Position (D2) <u> </u> Shallow Aquitard (D3) <u> </u> Microtopographic Relief (D4) <u>X</u> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>10</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No <u> </u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Saturation visible on aerial imagery in 2017, 2010, 2008, 1992, 1984, 1982.	
Remarks:	

VEGETATION – Use scientific names of plants.

 Sampling Point: DP-8

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																																									
1. <u>Black willow (<i>Salix nigra</i>)</u>	20	Yes	OBL	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>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																																								
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
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Sapling/Shrub Stratum (Plot size: _____)																																												
1. <u>Black willow (<i>Salix nigra</i>)</u>	10	Yes	OBL	Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 40%;">Total % Cover of:</th> <th style="width: 10%;"></th> <th style="width: 10%;">Multiply by:</th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> <tr> <td>OBL species</td> <td style="text-align: center;">50</td> <td>x 1 =</td> <td style="text-align: center;">50</td> <td></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;">0</td> <td>x 2 =</td> <td style="text-align: center;">0</td> <td></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;">85</td> <td>x 3 =</td> <td style="text-align: center;">255</td> <td></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;">15</td> <td>x 4 =</td> <td style="text-align: center;">60</td> <td></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;">0</td> <td>x 5 =</td> <td style="text-align: center;">0</td> <td></td> </tr> <tr> <td>Column Totals:</td> <td style="text-align: center;">150</td> <td>(A)</td> <td style="text-align: center;">365</td> <td>(B)</td> </tr> <tr> <td colspan="5" style="text-align: center;">Prevalence Index = B/A = <u>2.43</u></td> </tr> </table>	Total % Cover of:		Multiply by:			OBL species	50	x 1 =	50		FACW species	0	x 2 =	0		FAC species	85	x 3 =	255		FACU species	15	x 4 =	60		UPL species	0	x 5 =	0		Column Totals:	150	(A)	365	(B)	Prevalence Index = B/A = <u>2.43</u>				
Total % Cover of:		Multiply by:																																										
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Prevalence Index = B/A = <u>2.43</u>																																												
2. _____	_____	_____	_____																																									
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5. _____	_____	_____	_____																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
	10	=Total Cover																																										
Herb Stratum (Plot size: _____)																																												
1. <u>Field horsetail (<i>Equisetum arvense</i>)</u>	20	Yes	FAC	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u>X</u> 3 - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																																								
2. <u>Annual ragweed (<i>Ambrosia artemisiifolia</i>)</u>	15	No	FACU																																									
3. <u>Common Ragweed (<i>Ambrosia trifida</i>)</u>	15	No	FAC																																									
4. <u>Slender rush (<i>Juncus tenuis</i>)</u>	50	Yes	FAC																																									
5. <u>Common spikerush (<i>Eleocharis palustris</i>)</u>	20	Yes	OBL																																									
6. _____	_____	_____	_____																																									
7. _____	_____	_____	_____																																									
8. _____	_____	_____	_____																																									
9. _____	_____	_____	_____																																									
10. _____	_____	_____	_____																																									
11. _____	_____	_____	_____																																									
12. _____	_____	_____	_____																																									
	120	=Total Cover																																										
Woody Vine Stratum (Plot size: _____)																																												
1. _____	_____	_____	_____	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 or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																																								
2. _____	_____	_____	_____																																									
3. _____	_____	_____	_____																																									
4. _____	_____	_____	_____																																									
	=Total Cover																																											

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

SOIL

Sampling Point: DP-8

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Beaver Dam Industrial Park City/County: Beaver Dam/ Dodge Sampling Date: 6/20/18
 Applicant/Owner: Alliant Energy State: WI Sampling Point: DP-9
 Investigator(s): Katie Goff Section, Township, Range: S 9, 10, 15, 16, T12N, R14E
 Landform (hillside, terrace, etc.): till plain/ backslope Local relief (concave, convex, none): Concave Slope %: 2-6
 Subregion (LRR or MLRA): LRR K Lat: 43.509835566 Long: -88.820603314 Datum: Upland
 Soil Map Unit Name: LmB Lamartine silt loam NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> No <u> </u> Hydric Soil Present? Yes <u>X</u> No <u> </u> Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u> If yes, optional Wetland Site ID: <u> </u>
Remarks: (Explain alternative procedures here or in a separate report.) Climate is wetter than normal (see Section 2.8)	

HYDROLOGY

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

VEGETATION – Use scientific names of plants.

 Sampling Point: DP-9

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																																	
1. <u>Red maple (<i>Acer rubrum</i>)</u>	20	Yes	FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.7%</u> (A/B) Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;">Total % Cover of:</th> <th style="width: 20%;"></th> <th style="width: 20%;">Multiply by:</th> <th style="width: 20%;"></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;">0</td> <td>x 1 =</td> <td style="text-align: center;">0</td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;">30</td> <td>x 2 =</td> <td style="text-align: center;">60</td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;">50</td> <td>x 3 =</td> <td style="text-align: center;">150</td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;">70</td> <td>x 4 =</td> <td style="text-align: center;">280</td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;">0</td> <td>x 5 =</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Column Totals:</td> <td style="text-align: center;">150</td> <td>(A)</td> <td style="text-align: center;">490 (B)</td> </tr> <tr> <td colspan="3">Prevalence Index = B/A =</td> <td style="text-align: center;"><u>3.27</u></td> </tr> </tbody> </table>	Total % Cover of:		Multiply by:		OBL species	0	x 1 =	0	FACW species	30	x 2 =	60	FAC species	50	x 3 =	150	FACU species	70	x 4 =	280	UPL species	0	x 5 =	0	Column Totals:	150	(A)	490 (B)	Prevalence Index = B/A =			<u>3.27</u>
Total % Cover of:		Multiply by:																																		
OBL species	0	x 1 =	0																																	
FACW species	30	x 2 =	60																																	
FAC species	50	x 3 =	150																																	
FACU species	70	x 4 =	280																																	
UPL species	0	x 5 =	0																																	
Column Totals:	150	(A)	490 (B)																																	
Prevalence Index = B/A =			<u>3.27</u>																																	
2. <u>Ohio buckeye (<i>Aesculus glabra</i>)</u>	20	Yes	FAC																																	
3. <u>Common hackberry (<i>Celtis occidentalis</i>)</u>	10	Yes	FAC																																	
4. _____	_____	_____	_____																																	
5. _____	_____	_____	_____																																	
6. _____	_____	_____	_____																																	
7. _____	_____	_____	_____																																	
	50	=Total Cover																																		
Sapling/Shrub Stratum (Plot size: _____)																																				
1. _____	_____	_____	_____	Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> X </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																																
2. _____	_____	_____	_____																																	
3. _____	_____	_____	_____																																	
4. _____	_____	_____	_____																																	
5. _____	_____	_____	_____																																	
6. _____	_____	_____	_____																																	
7. _____	_____	_____	_____																																	
	_____	=Total Cover																																		
Herb Stratum (Plot size: _____)																																				
1. <u>Sawtooth sunflower (<i>Helianthus grosseserratus</i>)</u>	30	Yes	FACW	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 or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u> X </u> No <u> </u>																																
2. <u>Wild parsnip (<i>Pastinaca sativa</i>)</u>	20	Yes	FACU																																	
3. <u>Tall Fescue (<i>Festuca arundinacea</i>)</u>	50	Yes	FACU																																	
4. _____	_____	_____	_____																																	
5. _____	_____	_____	_____																																	
6. _____	_____	_____	_____																																	
7. _____	_____	_____	_____																																	
8. _____	_____	_____	_____																																	
9. _____	_____	_____	_____																																	
10. _____	_____	_____	_____																																	
11. _____	_____	_____	_____																																	
12. _____	_____	_____	_____																																	
	100	=Total Cover																																		
Woody Vine Stratum (Plot size: _____)																																				
1. _____	_____	_____	_____																																	
2. _____	_____	_____	_____																																	
3. _____	_____	_____	_____																																	
4. _____	_____	_____	_____																																	
	_____	=Total Cover																																		

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

SOIL

Sampling Point: DP-9

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Beaver Dam Industrial Park City/County: Beaver Dam/ Dodge Sampling Date: 6/20/18
 Applicant/Owner: Alliant Energy State: WI Sampling Point: DP-10
 Investigator(s): Katie Goff Section, Township, Range: S 9, 10, 15, 16, T12N, R14E
 Landform (hillside, terrace, etc.): till plain/ toe slope Local relief (concave, convex, none): Concave Slope %: 0-2
 Subregion (LRR or MLRA): LRR K Lat: 43.511193286 Long: -88.822904216 Datum: WL-1
 Soil Map Unit Name: Ph Pella silty clay loam, cool NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u>WL-1</u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>	
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.) Climate is wetter than normal (see Section 2.8)			

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input checked="" type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input checked="" 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 checked="" type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations: Surface Water Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>2</u> Water Table Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>0</u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>0</u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Saturation visible on aerial imagery in 2017, 2013, 2010, 2005, 1992, 1984, 1982.			
Remarks:			

Sampling Point: DP-10

Tree Stratum (Plot size: _____)		Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Black willow (Salix nigra)</i>	20	Yes	OBL
2.				
3.				
4.				
5.				
6.				
7.				
		20	=Total Cover	
Sapling/Shrub Stratum (Plot size: _____)				
1.	<i>Black willow (Salix nigra)</i>	10	Yes	OBL
2.				
3.				
4.				
5.				
6.				
7.				
		10	=Total Cover	
Herb Stratum (Plot size: _____)				
1.	<i>Field horsetail (Equisetum arvense)</i>	30	Yes	FAC
2.	<i>Common spikerush (Eleocharis palutris)</i>	40	Yes	OBL
3.	<i>Annual ragweed (Ambrosia artemisiifolia)</i>	15	No	FACU
4.	<i>White clover (Trifolium repens)</i>	15	No	FACU
5.	<i>Curly dock (Rumex crispus)</i>	20	No	FAC
6.				
7.				
8.				
9.				
10.				
11.				
12.				
		120	=Total Cover	
Woody Vine Stratum (Plot size: _____)				
1.				
2.				
3.				
4.				
			=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)

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

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

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	70	x 1 =	70
FACW species	0	x 2 =	0
FAC species	50	x 3 =	150
FACU species	30	x 4 =	120
UPL species	0	x 5 =	0
Column Totals:	150 (A)		340 (B)
Prevalence Index = B/A =		2.27	

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

X 3 - Prevalence Index is ≤3.0¹

4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators 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 or equal to 3.28 ft (1 m) tall.

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

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No

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

SOIL

Sampling Point: DP-10

[illegible]

Project/Site: Beaver Dam Industrial Park City/County: Beaver Dam/ Dodge Sampling Date: 6/20/18
Applicant/Owner: Alliant Energy State: WI Sampling Point: DP-11
Investigator(s): Katie Goff Section, Township, Range: S 9, 10, 15, 16, T12N, R14E
Landform (hillside, terrace, etc.): till plain/ toe slope Local relief (concave, convex, none): Concave Slope %: 2-6
Subregion (LRR or MLRA): LRR K Lat: 43.509969418 Long: -88.821954610 Datum: Upland
Soil Map Unit Name: LmB Lamartine silt loam 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.)

Hydrophytic Vegetation Present? Yes _____ No <u> X </u> Hydric Soil Present? Yes _____ No <u> X </u> Wetland Hydrology Present? Yes _____ No <u> X </u>	Is the Sampled Area within a Wetland? Yes _____ No <u> X </u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Climate is wetter than normal (see Section 2.8)	

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>			<u>Secondary Indicators (minimum of two required)</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <input type="text"/> Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <input type="text"/> Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <input type="text"/> (includes capillary fringe)			Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Saturation or inundation were not apparent on more than 50% of the "normal" historic aerals.					
Remarks:					

VEGETATION – Use scientific names of plants.

 Sampling Point: DP-11

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Black willow (<i>Salix nigra</i>)</u>	10	Yes	OBL	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)																
2. <u>Red maple (<i>Acer rubrus</i>)</u>	5	Yes	FAC																	
3. <u>Black walnut (<i>Juglans nigra</i>)</u>	10	Yes	FACU																	
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	25	=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="text-align: left;">Total % Cover of:</th> <th style="text-align: right;">Multiply by:</th> </tr> <tr> <td>OBL species <u>10</u></td> <td style="text-align: right;">x 1 = <u>10</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td style="text-align: right;">x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>5</u></td> <td style="text-align: right;">x 3 = <u>15</u></td> </tr> <tr> <td>FACU species <u>50</u></td> <td style="text-align: right;">x 4 = <u>200</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td style="text-align: right;">x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>65</u></td> <td style="text-align: right;">(A) <u>225</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>3.46</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>10</u>	x 1 = <u>10</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>5</u>	x 3 = <u>15</u>	FACU species <u>50</u>	x 4 = <u>200</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>65</u>	(A) <u>225</u> (B)	Prevalence Index = B/A = <u>3.46</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>10</u>	x 1 = <u>10</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>5</u>	x 3 = <u>15</u>																			
FACU species <u>50</u>	x 4 = <u>200</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>65</u>	(A) <u>225</u> (B)																			
Prevalence Index = B/A = <u>3.46</u>																				
Sapling/Shrub Stratum (Plot size: _____)																				
1. _____																				
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
		=Total Cover																		
Herb Stratum (Plot size: _____)																				
1. <u>Corn (<i>Zea mays</i>)</u>	40	Yes	FACU	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
12. _____																				
	40	=Total Cover																		
Woody Vine Stratum (Plot size: _____)																				
1. _____				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 or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
2. _____																				
3. _____																				
4. _____																				
		=Total Cover		Hydrophytic Vegetation Present? Yes <u> </u> No <u> X </u>																

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

SOIL

Sampling Point: DP-11

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Beaver Dam Industrial Park City/County: Beaver Dam/ Dodge Sampling Date: 6/20/18
 Applicant/Owner: Alliant Energy State: WI Sampling Point: DP-12
 Investigator(s): Katie Goff Section, Township, Range: S 9, 10, 15, 16, T12N, R14E
 Landform (hillside, terrace, etc.): till plain/ toeslope Local relief (concave, convex, none): Concave Slope %: 0-2
 Subregion (LRR or MLRA): LRR K Lat: 43.509431327 Long: -88.826142770 Datum: WL-2
 Soil Map Unit Name: SdA St. Charles silt loam, moderately well drained NWI classification: PEM1C

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u>WL-2</u>
Hydric Soil Present? Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.) Climate is wetter than normal (see Section 2.8)	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<u> </u> Surface Water (A1)	<u> </u> Water-Stained Leaves (B9)	<u> </u> Surface Soil Cracks (B6)	
<u> </u> High Water Table (A2)	<u> </u> Aquatic Fauna (B13)	<u> </u> Drainage Patterns (B10)	
<u>X</u> Saturation (A3)	<u> </u> Marl Deposits (B15)	<u> </u> Moss Trim Lines (B16)	
<u> </u> Water Marks (B1)	<u> </u> Hydrogen Sulfide Odor (C1)	<u> </u> Dry-Season Water Table (C2)	
<u> </u> Sediment Deposits (B2)	<u> </u> Oxidized Rhizospheres on Living Roots (C3)	<u>X</u> Saturation Visible on Aerial Imagery (C9)	
<u> </u> Drift Deposits (B3)	<u> </u> Presence of Reduced Iron (C4)	<u> </u> Stunted or Stressed Plants (D1)	
<u>X</u> Algal Mat or Crust (B4)	<u> </u> Recent Iron Reduction in Tilled Soils (C6)	<u>X</u> Geomorphic Position (D2)	
<u> </u> Iron Deposits (B5)	<u> </u> Thin Muck Surface (C7)	<u> </u> Shallow Aquitard (D3)	
<u> </u> Inundation Visible on Aerial Imagery (B7)	<u> </u> Other (Explain in Remarks)	<u> </u> Microtopographic Relief (D4)	
<u> </u> Sparsely Vegetated Concave Surface (B8)		<u>X</u> FAC-Neutral Test (D5)	
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>10</u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Saturation visible on aerial imagery in 2017, 2008, 1996, 1984.			
Remarks:			

VEGETATION – Use scientific names of plants.

 Sampling Point: DP-12

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
_____ = Total Cover				Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>110</u></td> <td>x 2 = <u>220</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>110</u> (A)</td> <td><u>220</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.00</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>110</u>	x 2 = <u>220</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>110</u> (A)	<u>220</u> (B)	Prevalence Index = B/A = <u>2.00</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>110</u>	x 2 = <u>220</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>0</u>	x 4 = <u>0</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>110</u> (A)	<u>220</u> (B)																			
Prevalence Index = B/A = <u>2.00</u>																				
_____ = Total Cover																				
Sapling/Shrub Stratum (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
_____ = Total Cover				Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> X </u> 2 - Dominance Test is >50% <u> X </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
Herb Stratum (Plot size: _____)																				
1. <u>Reed Canary Grass (Phalaris arundinacea)</u>	<u>110</u>	<u>Yes</u>	<u>FACW</u>																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
<u>110</u> = Total Cover																				
Woody Vine Stratum (Plot size: _____)				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 or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
_____ = Total Cover																				
Remarks: (Include photo numbers here or on a separate sheet.)																				

SOIL

Sampling Point: DP-12

[illegible]

Project/Site: Beaver Dam Industrial Park City/County: Beaver Dam/ Dodge Sampling Date: 6/20/18
Applicant/Owner: Alliant Energy State: WI Sampling Point: DP-13
Investigator(s): Katie Goff Section, Township, Range: S 9, 10, 15, 16, T12N, R14E
Landform (hillside, terrace, etc.): till plain/ toeslope Local relief (concave, convex, none): Concave Slope %: 0-3
Subregion (LRR or MLRA): LRR K Lat: 43.509602005 Long: -88.828556888 Datum: Upland
Soil Map Unit Name: EbA Elburn silt loam NWI classification: PEM1C

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Hydric Soil Present?	Yes _____	No <u>X</u>	
Wetland Hydrology Present?	Yes _____	No <u>X</u>	
Remarks: (Explain alternative procedures here or in a separate report.) Climate is wetter than normal (see Section 2.8)			

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

VEGETATION – Use scientific names of plants.

 Sampling Point: DP-13

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
		=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>80</u></td> <td>x 2 = <u>160</u></td> </tr> <tr> <td>FAC species <u>25</u></td> <td>x 3 = <u>75</u></td> </tr> <tr> <td>FACU species <u>15</u></td> <td>x 4 = <u>60</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>120</u> (A)</td> <td><u>295</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.46</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>80</u>	x 2 = <u>160</u>	FAC species <u>25</u>	x 3 = <u>75</u>	FACU species <u>15</u>	x 4 = <u>60</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>120</u> (A)	<u>295</u> (B)	Prevalence Index = B/A = <u>2.46</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
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Column Totals: <u>120</u> (A)	<u>295</u> (B)																			
Prevalence Index = B/A = <u>2.46</u>																				
Sapling/Shrub Stratum (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
		=Total Cover																		
Herb Stratum (Plot size: _____)																				
1. <u>Reed Canary Grass (Phalaris arundinacea)</u>	<u>80</u>	<u>Yes</u>	<u>FACW</u>	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Tall fescue (Festuca arundinacea)</u>	<u>20</u>	<u>No</u>	<u>FAC</u>																	
3. <u>English plantain (Plantago lanceolata)</u>	<u>10</u>	<u>No</u>	<u>FACU</u>																	
4. <u>White clover (Trifolium repens)</u>	<u>5</u>	<u>No</u>	<u>FACU</u>																	
5. <u>Curly dock (Rumex crispus)</u>	<u>5</u>	<u>No</u>	<u>FAC</u>																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
		=Total Cover																		
Woody Vine Stratum (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
		=Total Cover																		

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

SOIL

Sampling Point: DP-13

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Beaver Dam Industrial Park City/County: Beaver Dam/ Dodge Sampling Date: 6/20/18
 Applicant/Owner: Alliant Energy State: WI Sampling Point: DP-14
 Investigator(s): Katie Goff Section, Township, Range: S 9, 10, 15, 16, T12N, R14E
 Landform (hillside, terrace, etc.): Low-lying area Local relief (concave, convex, none): Concave Slope %: 0-3
 Subregion (LRR or MLRA): LRR K Lat: 43.509449638 Long: -88.828477458 Datum: WL-2
 Soil Map Unit Name: EbA Elburn silt loam NWI classification: PEM1C

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u>WL-2</u>
Hydric Soil Present?	Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present?	Yes <u>X</u> No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.) Climate is wetter than normal (see Section 2.8)		

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<u> </u> Surface Water (A1)	<u> </u> Water-Stained Leaves (B9)	<u> </u> Surface Soil Cracks (B6)	
<u>X</u> High Water Table (A2)	<u> </u> Aquatic Fauna (B13)	<u> </u> Drainage Patterns (B10)	
<u>X</u> Saturation (A3)	<u> </u> Marl Deposits (B15)	<u> </u> Moss Trim Lines (B16)	
<u> </u> Water Marks (B1)	<u> </u> Hydrogen Sulfide Odor (C1)	<u> </u> Dry-Season Water Table (C2)	
<u> </u> Sediment Deposits (B2)	<u> </u> Oxidized Rhizospheres on Living Roots (C3)	<u>X</u> Saturation Visible on Aerial Imagery (C9)	
<u> </u> Drift Deposits (B3)	<u> </u> Presence of Reduced Iron (C4)	<u> </u> Stunted or Stressed Plants (D1)	
<u>X</u> Algal Mat or Crust (B4)	<u> </u> Recent Iron Reduction in Tilled Soils (C6)	<u> </u> Geomorphic Position (D2)	
<u> </u> Iron Deposits (B5)	<u> </u> Thin Muck Surface (C7)	<u> </u> Shallow Aquitard (D3)	
<u>X</u> Inundation Visible on Aerial Imagery (B7)	<u> </u> Other (Explain in Remarks)	<u> </u> Microtopographic Relief (D4)	
<u> </u> Sparsely Vegetated Concave Surface (B8)		<u>X</u> FAC-Neutral Test (D5)	
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>3</u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>0</u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Saturation visible on aerial imagery in 2005, 2004, 1992, 1990, 1984. Inundation visible on aerial imagery in 2017, 2010, 2008, 1996.			
Remarks:			

VEGETATION – Use scientific names of plants.

 Sampling Point: DP-14

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Black willow (<i>Salix nigra</i>)</u>	10	Yes	OBL	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	10	=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>70</u></td> <td>x 1 = <u>70</u></td> </tr> <tr> <td>FACW species <u>50</u></td> <td>x 2 = <u>100</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>120</u></td> <td>(A) <u>170</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>1.42</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>70</u>	x 1 = <u>70</u>	FACW species <u>50</u>	x 2 = <u>100</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>120</u>	(A) <u>170</u> (B)	Prevalence Index = B/A = <u>1.42</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>70</u>	x 1 = <u>70</u>																			
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UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>120</u>	(A) <u>170</u> (B)																			
Prevalence Index = B/A = <u>1.42</u>																				
Sapling/Shrub Stratum (Plot size: _____)																				
1. _____																				
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
		=Total Cover																		
Herb Stratum (Plot size: _____)																				
1. <u>American water plantain (<i>Alisma subcordatum</i>)</u>	10	No	OBL	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> - Dominance Test is >50% <u>X</u> <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Reed Canary Grass (<i>Phalaris arundinacea</i>)</u>	50	Yes	FACW																	
3. <u>Duckweed (<i>Lemna minor</i>)</u>	20	No	OBL																	
4. <u>Common spikerush (<i>Eleocharis palustris</i>)</u>	30	Yes	OBL																	
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
12. _____																				
	110	=Total Cover																		
Woody Vine Stratum (Plot size: _____)																				
1. _____																				
2. _____																				
3. _____																				
4. _____																				
		=Total Cover																		

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

SOIL

Sampling Point: DP-14

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Beaver Dam Industrial Park City/County: Beaver Dam/ Dodge Sampling Date: 6/21/18
 Applicant/Owner: Alliant Energy State: WI Sampling Point: DP-15
 Investigator(s): Katie Goff Section, Township, Range: S 9, 10, 15, 16, T12N, R14E
 Landform (hillside, terrace, etc.): till plain/ toeslope Local relief (concave, convex, none): Concave Slope %: 2-6
 Subregion (LRR or MLRA): LRR K Lat: 43.521827842 Long: -88.821738802 Datum: WL-3
 Soil Map Unit Name: PuB Puchyan loamy fine sand NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation X, Soil X, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No X
 Are Vegetation X, 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 <u>*</u>	No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u> </u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>	
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.) Climate is wetter than normal (see Section 2.8) Soil and vegetation were disturbed by farming. *Vegetation was problematic and wetland vegetation was assumed to be dominant based on soil and hydrology observations.			

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) <u>X</u> Surface Water (A1) <u> </u> Water-Stained Leaves (B9) <u>X</u> High Water Table (A2) <u> </u> Aquatic Fauna (B13) <u>X</u> Saturation (A3) <u> </u> Marl Deposits (B15) <u> </u> Water Marks (B1) <u> </u> Hydrogen Sulfide Odor (C1) <u> </u> Sediment Deposits (B2) <u> </u> Oxidized Rhizospheres on Living Roots (C3) <u> </u> Drift Deposits (B3) <u> </u> Presence of Reduced Iron (C4) <u> </u> Algal Mat or Crust (B4) <u> </u> Recent Iron Reduction in Tilled Soils (C6) <u> </u> Iron Deposits (B5) <u> </u> Thin Muck Surface (C7) <u>X</u> Inundation Visible on Aerial Imagery (B7) <u> </u> Other (Explain in Remarks) <u> </u> Sparsely Vegetated Concave Surface (B8)		Secondary Indicators (minimum of two required) <u> </u> Surface Soil Cracks (B6) <u> </u> Drainage Patterns (B10) <u> </u> Moss Trim Lines (B16) <u> </u> Dry-Season Water Table (C2) <u> </u> Crayfish Burrows (C8) <u>X</u> Saturation Visible on Aerial Imagery (C9) <u> </u> Stunted or Stressed Plants (D1) <u>X</u> Geomorphic Position (D2) <u> </u> Shallow Aquitard (D3) <u> </u> Microtopographic Relief (D4) <u> </u> FAC-Neutral Test (D5)	
Field Observations: Surface Water Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>2</u> Water Table Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>6</u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>0</u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Saturation visible on aerial imagery in 2017, 1992, 1984. Inundation visible on aerial imagery in 2008, 1996.			
Remarks:			

VEGETATION – Use scientific names of plants.

 Sampling Point: DP-15

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
_____ = Total Cover				Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>20</u></td> <td>x 2 = <u>40</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>30</u></td> <td>x 5 = <u>150</u></td> </tr> <tr> <td>Column Totals: <u>50</u> (A)</td> <td><u>190</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>3.80</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>20</u>	x 2 = <u>40</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>30</u>	x 5 = <u>150</u>	Column Totals: <u>50</u> (A)	<u>190</u> (B)	Prevalence Index = B/A = <u>3.80</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>20</u>	x 2 = <u>40</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>0</u>	x 4 = <u>0</u>																			
UPL species <u>30</u>	x 5 = <u>150</u>																			
Column Totals: <u>50</u> (A)	<u>190</u> (B)																			
Prevalence Index = B/A = <u>3.80</u>																				
_____ = Total Cover																				
Sapling/Shrub Stratum (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
_____ = Total Cover				Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
Herb Stratum (Plot size: _____)																				
1. <u>Soybean (Glycine max)</u>	<u>30</u>	<u>Yes</u>	<u>UPL</u>																	
2. <u>Reed Canary Grass (Phalaris arundinacea)</u>	<u>20</u>	<u>Yes</u>	<u>FACW</u>																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
_____ = Total Cover																				
Woody Vine Stratum (Plot size: _____)				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 or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
_____ = Total Cover																				

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

SOIL

Sampling Point: DP-15

[illegible]

Project/Site: Beaver Dam Industrial Park City/County: Beaver Dam/ Dodge Sampling Date: 6/21/18
Applicant/Owner: Alliant Energy State: WI Sampling Point: DP-16
Investigator(s): Katie Goff Section, Township, Range: S 9, 10, 15, 16, T12N, R14E
Landform (hillside, terrace, etc.): till plain/ toeslope Local relief (concave, convex, none): None Slope %: 2-6
Subregion (LRR or MLRA): LRR K Lat: 43.522321384 Long: -88.822868419 Datum: Upland
Soil Map Unit Name: PuB Puchyan loamy fine sand NWI classification: None

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

HYDROLOGY

Northcentral and Northeast Region – Version 2.0

Sampling Point: DP-16

Tree Stratum (Plot size: _____)		Absolute % Cover	Dominant Species?	Indicator Status
1.	_____	_____	_____	_____
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____
6.	_____	_____	_____	_____
7.	_____	_____	_____	_____
		_____	=Total Cover	
Sapling/Shrub Stratum (Plot size: _____)				
1.	_____	_____	_____	_____
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____
6.	_____	_____	_____	_____
7.	_____	_____	_____	_____
		_____	=Total Cover	
Herb Stratum (Plot size: _____)				
1.	<u>Soybean (Glycine max)</u>	30	Yes	UPL
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____
6.	_____	_____	_____	_____
7.	_____	_____	_____	_____
8.	_____	_____	_____	_____
9.	_____	_____	_____	_____
10.	_____	_____	_____	_____
11.	_____	_____	_____	_____
12.	_____	_____	_____	_____
		30	=Total Cover	
Woody Vine Stratum (Plot size: _____)				
1.	_____	_____	_____	_____
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
		_____	=Total Cover	

Dominance Test worksheet:

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

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

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

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____ 0 _____	x 1 = _____ 0 _____
FACW species _____ 0 _____	x 2 = _____ 0 _____
FAC species _____ 0 _____	x 3 = _____ 0 _____
FACU species _____ 0 _____	x 4 = _____ 0 _____
UPL species _____ 30 _____	x 5 = _____ 150 _____
Column Totals: _____ 30 _____ (A)	_____ 150 _____ (B)
Prevalence Index = B/A = _____ 5.00 _____	

Hydrophytic Vegetation Indicators:

_____ 1 - Rapid Test for Hydrophytic Vegetation

_____ 2 - Dominance Test is >50%

_____ 3 - Prevalence Index is ≤3.0¹

_____ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

_____ Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators 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 or equal to 3.28 ft (1 m) tall.

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

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes _____ No _____

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

SOIL

Sampling Point: DP-16

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Beaver Dam Industrial Park City/County: Beaver Dam/ Dodge Sampling Date: 6/21/18
 Applicant/Owner: Alliant Energy State: WI Sampling Point: DP-17
 Investigator(s): Katie Goff Section, Township, Range: S 9, 10, 15, 16, T12N, R14E
 Landform (hillside, terrace, etc.): Low-lying area Local relief (concave, convex, none): Concave Slope %: 0-3
 Subregion (LRR or MLRA): LRR K Lat: 43.519076881 Long: -88.826411603 Datum: WL-3
 Soil Map Unit Name: EbA Elburn silt loam NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u>WL-3</u>
Hydric Soil Present?	Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present?	Yes <u>X</u> No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.) Climate is wetter than normal (see Section 2.8)		

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) <u> </u> Surface Water (A1) <u>X</u> Water-Stained Leaves (B9) <u>X</u> High Water Table (A2) <u> </u> Aquatic Fauna (B13) <u>X</u> Saturation (A3) <u> </u> Marl Deposits (B15) <u> </u> Water Marks (B1) <u> </u> Hydrogen Sulfide Odor (C1) <u> </u> Sediment Deposits (B2) <u> </u> Oxidized Rhizospheres on Living Roots (C3) <u> </u> Drift Deposits (B3) <u> </u> Presence of Reduced Iron (C4) <u>X</u> Algal Mat or Crust (B4) <u> </u> Recent Iron Reduction in Tilled Soils (C6) <u> </u> Iron Deposits (B5) <u> </u> Thin Muck Surface (C7) <u>X</u> Inundation Visible on Aerial Imagery (B7) <u> </u> Other (Explain in Remarks) <u> </u> Sparsely Vegetated Concave Surface (B8)		Secondary Indicators (minimum of two required) <u> </u> Surface Soil Cracks (B6) <u> </u> Drainage Patterns (B10) <u> </u> Moss Trim Lines (B16) <u> </u> Dry-Season Water Table (C2) <u> </u> Crayfish Burrows (C8) <u>X</u> Saturation Visible on Aerial Imagery (C9) <u> </u> Stunted or Stressed Plants (D1) <u>X</u> Geomorphic Position (D2) <u> </u> Shallow Aquitard (D3) <u> </u> Microtopographic Relief (D4) <u>X</u> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>12</u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>12</u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u>X</u> No <u> </u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Inundation visible on aerial imagery in 2017, 2008, 1996, 1984. Saturation visible on aerial imagery in 2013, 1992.		
Remarks:		

VEGETATION – Use scientific names of plants.

 Sampling Point: DP-17

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
_____ = Total Cover				Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>80</u></td> <td>x 1 = <u>80</u></td> </tr> <tr> <td>FACW species <u>20</u></td> <td>x 2 = <u>40</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>100</u></td> <td>(A) <u>120</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>1.20</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>80</u>	x 1 = <u>80</u>	FACW species <u>20</u>	x 2 = <u>40</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>100</u>	(A) <u>120</u> (B)	Prevalence Index = B/A = <u>1.20</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>80</u>	x 1 = <u>80</u>																			
FACW species <u>20</u>	x 2 = <u>40</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>0</u>	x 4 = <u>0</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>100</u>	(A) <u>120</u> (B)																			
Prevalence Index = B/A = <u>1.20</u>																				
_____ = Total Cover																				
Sapling/Shrub Stratum (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
_____ = Total Cover				Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> X</u> 2 - Dominance Test is >50% <u> X</u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
Herb Stratum (Plot size: _____)																				
1. <u>American Water-Plantain (<i>Alisma subcordatum</i>)</u>	<u>50</u>	<u>Yes</u>	<u>OBL</u>																	
2. <u>Reed Canary Grass (<i>Phalaris arundinacea</i>)</u>	<u>20</u>	<u>Yes</u>	<u>FACW</u>																	
3. <u>Marsh Marigold (<i>Caltha palustris</i>)</u>	<u>10</u>	<u>No</u>	<u>OBL</u>																	
4. <u>Rice Cut Grass (<i>Leersia oryzoides</i>)</u>	<u>20</u>	<u>Yes</u>	<u>OBL</u>																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
_____ = Total Cover																				
Woody Vine Stratum (Plot size: _____)				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 or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
_____ = Total Cover																				
Remarks: (Include photo numbers here or on a separate sheet.)																				

SOIL

Sampling Point: DP-17

[illegible]

Project/Site: Beaver Dam Industrial Park City/County: Beaver Dam/ Dodge Sampling Date: 6/21/18
Applicant/Owner: Alliant Energy State: WI Sampling Point: DP-18
Investigator(s): Katie Goff Section, Township, Range: S 9, 10, 15, 16, T12N, R14E
Landform (hillside, terrace, etc.): till plain/ toeslope Local relief (concave, convex, none): concave Slope %: 0-3
Subregion (LRR or MLRA): LRR K Lat: 43.519151760 Long: -88.827088841 Datum: Upland
Soil Map Unit Name: EbA Elburn silt loam NWI classification: None

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Hydric Soil Present?	Yes <u>X</u>	No _____	
Wetland Hydrology Present?	Yes _____	No <u>X</u>	
Remarks: (Explain alternative procedures here or in a separate report.) Climate is wetter than normal (see Section 2.8) Soil and vegetation were disturbed by farming.			

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)				Secondary Indicators (minimum of two 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 on 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 checked="" 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="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <input type="text"/> Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <input type="text"/> Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <input type="text"/> (includes capillary fringe)				Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Inundation visible on aerial imagery in 2008*. Saturation visible on aerial imagery in 2013, 1996, 1992, 1984.							
Remarks: *Due to 2008 being an extremely wet year, this indicator was not applied for this data point.							

VEGETATION – Use scientific names of plants.

 Sampling Point: DP-18

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
		=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>15</u></td> <td>x 2 = <u>30</u></td> </tr> <tr> <td>FAC species <u>15</u></td> <td>x 3 = <u>45</u></td> </tr> <tr> <td>FACU species <u>30</u></td> <td>x 4 = <u>120</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>60</u> (A)</td> <td><u>195</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>3.25</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>15</u>	x 2 = <u>30</u>	FAC species <u>15</u>	x 3 = <u>45</u>	FACU species <u>30</u>	x 4 = <u>120</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>60</u> (A)	<u>195</u> (B)	Prevalence Index = B/A = <u>3.25</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>15</u>	x 2 = <u>30</u>																			
FAC species <u>15</u>	x 3 = <u>45</u>																			
FACU species <u>30</u>	x 4 = <u>120</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>60</u> (A)	<u>195</u> (B)																			
Prevalence Index = B/A = <u>3.25</u>																				
Sapling/Shrub Stratum (Plot size: _____)																				
1. <u>Corn (Zea mays)</u>	<u>30</u>	<u>Yes</u>	_____																	
2. <u>Velvet leaf (Abutilon theophrasti)</u>	<u>30</u>	<u>Yes</u>	<u>FACU</u>																	
3. <u>Pennsylvania smartweed (Persicaria pensylvanica)</u>	<u>15</u>	<u>No</u>	<u>FACW</u>																	
4. <u>Grass sp.</u>	<u>15</u>	<u>No</u>	<u>FAC</u>																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
		=Total Cover																		
Herb Stratum (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
		=Total Cover																		
Woody Vine Stratum (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
		=Total Cover																		

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

SOIL

Sampling Point: DP-18

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Beaver Dam Industrial Park City/County: Beaver Dam/ Dodge Sampling Date: 6/21/18
 Applicant/Owner: Alliant Energy State: WI Sampling Point: DP-19
 Investigator(s): Katie Goff Section, Township, Range: S 9, 10, 15, 16, T12N, R14E
 Landform (hillside, terrace, etc.): Low-lying area Local relief (concave, convex, none): Concave Slope %: 2-6
 Subregion (LRR or MLRA): LRR K Lat: 43.520776223 Long: -88.823576104 Datum: WL-3
 Soil Map Unit Name: PuB Puchyan loamy fine sand NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u>WL-3</u>
Hydric Soil Present?	Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present?	Yes <u>X</u> No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.) Climate is wetter than normal (see Section 2.8)		

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<u> </u> Surface Water (A1)	<u>X</u> Water-Stained Leaves (B9)	<u> </u> Surface Soil Cracks (B6)	
<u> </u> High Water Table (A2)	<u> </u> Aquatic Fauna (B13)	<u> </u> Drainage Patterns (B10)	
<u>X</u> Saturation (A3)	<u> </u> Marl Deposits (B15)	<u> </u> Moss Trim Lines (B16)	
<u> </u> Water Marks (B1)	<u> </u> Hydrogen Sulfide Odor (C1)	<u> </u> Dry-Season Water Table (C2)	
<u> </u> Sediment Deposits (B2)	<u> </u> Oxidized Rhizospheres on Living Roots (C3)	<u>X</u> Saturation Visible on Aerial Imagery (C9)	
<u> </u> Drift Deposits (B3)	<u> </u> Presence of Reduced Iron (C4)	<u> </u> Stunted or Stressed Plants (D1)	
<u> </u> Algal Mat or Crust (B4)	<u> </u> Recent Iron Reduction in Tilled Soils (C6)	<u>X</u> Geomorphic Position (D2)	
<u> </u> Iron Deposits (B5)	<u> </u> Thin Muck Surface (C7)	<u> </u> Shallow Aquitard (D3)	
<u> </u> Inundation Visible on Aerial Imagery (B7)	<u> </u> Other (Explain in Remarks)	<u> </u> Microtopographic Relief (D4)	
<u>X</u> Sparsely Vegetated Concave Surface (B8)		<u>X</u> FAC-Neutral Test (D5)	
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>10</u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Saturation visible on aerial imagery in 2017, 2008, 1996, 1992, 1984.			
Remarks:			

VEGETATION – Use scientific names of plants.

 Sampling Point: DP-19

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Swamp white oak (<i>Quercus bicolor</i>)</u>	<u>70</u>	<u>Yes</u>	<u>FACW</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>83.3%</u> (A/B)																
2. <u>Eastern cottonwood (<i>Populus deltoides</i>)</u>	<u>20</u>	<u>Yes</u>	<u>FAC</u>																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
	<u>90</u>	<u>=Total Cover</u>		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>10</u></td> <td>x 1 = <u>10</u></td> </tr> <tr> <td>FACW species <u>90</u></td> <td>x 2 = <u>180</u></td> </tr> <tr> <td>FAC species <u>40</u></td> <td>x 3 = <u>120</u></td> </tr> <tr> <td>FACU species <u>30</u></td> <td>x 4 = <u>120</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>170</u> (A)</td> <td><u>430</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>2.53</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>10</u>	x 1 = <u>10</u>	FACW species <u>90</u>	x 2 = <u>180</u>	FAC species <u>40</u>	x 3 = <u>120</u>	FACU species <u>30</u>	x 4 = <u>120</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>170</u> (A)	<u>430</u> (B)	Prevalence Index = B/A = <u>2.53</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>10</u>	x 1 = <u>10</u>																			
FACW species <u>90</u>	x 2 = <u>180</u>																			
FAC species <u>40</u>	x 3 = <u>120</u>																			
FACU species <u>30</u>	x 4 = <u>120</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>170</u> (A)	<u>430</u> (B)																			
Prevalence Index = B/A = <u>2.53</u>																				
Sapling/Shrub Stratum (Plot size: _____)																				
1. <u>Twinsisters (<i>Lonicera tatarica</i>)</u>	<u>30</u>	<u>Yes</u>	<u>FACU</u>																	
2. <u>Eastern Cottonwood (<i>Populus deltoides</i>)</u>	<u>20</u>	<u>Yes</u>	<u>FAC</u>																	
3. <u>Silky Dogwood (<i>Cornus amomum</i>)</u>	<u>20</u>	<u>Yes</u>	<u>FACW</u>																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
	<u>70</u>	<u>=Total Cover</u>																		
Herb Stratum (Plot size: _____)																				
1. <u>Common spikerush (<i>Eleocharis palustris</i>)</u>	<u>10</u>	<u>Yes</u>	<u>OBL</u>	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> - Dominance Test is >50% <u>X</u> <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
	<u>10</u>	<u>=Total Cover</u>																		
Woody Vine Stratum (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
	_____	<u>=Total Cover</u>																		

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

Hydrophytic Vegetation Present? Yes X No _____

SOIL

Sampling Point: DP-19

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Beaver Dam Industrial Park City/County: Beaver Dam/ Dodge Sampling Date: 6/21/18
 Applicant/Owner: Alliant Energy State: WI Sampling Point: DP-20
 Investigator(s): Katie Goff Section, Township, Range: S 9, 10, 15, 16, T12N, R14E
 Landform (hillside, terrace, etc.): till plain/ toeslope Local relief (concave, convex, none): Concave Slope %: 2-6
 Subregion (LRR or MLRA): LRR K Lat: 43.52049836 Long: -88.821163586 Datum: WL-3
 Soil Map Unit Name: PuB Puchyan loamy fine sand NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u>WL-3</u>
Hydric Soil Present?	Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present?	Yes <u>X</u> No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.) Climate is wetter than normal (see Section 2.8) Data point located near the excavated pond area in WL-3		

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<u> </u> Surface Water (A1)	<u> </u> Water-Stained Leaves (B9)	<u> </u> Surface Soil Cracks (B6)	
<u> </u> High Water Table (A2)	<u> </u> Aquatic Fauna (B13)	<u> </u> Drainage Patterns (B10)	
<u>X</u> Saturation (A3)	<u> </u> Marl Deposits (B15)	<u> </u> Moss Trim Lines (B16)	
<u> </u> Water Marks (B1)	<u> </u> Hydrogen Sulfide Odor (C1)	<u> </u> Dry-Season Water Table (C2)	
<u> </u> Sediment Deposits (B2)	<u> </u> Oxidized Rhizospheres on Living Roots (C3)	<u>X</u> Saturation Visible on Aerial Imagery (C9)	
<u> </u> Drift Deposits (B3)	<u> </u> Presence of Reduced Iron (C4)	<u> </u> Stunted or Stressed Plants (D1)	
<u> </u> Algal Mat or Crust (B4)	<u> </u> Recent Iron Reduction in Tilled Soils (C6)	<u> </u> Geomorphic Position (D2)	
<u> </u> Iron Deposits (B5)	<u> </u> Thin Muck Surface (C7)	<u> </u> Shallow Aquitard (D3)	
<u> </u> Inundation Visible on Aerial Imagery (B7)	<u> </u> Other (Explain in Remarks)	<u> </u> Microtopographic Relief (D4)	
<u> </u> Sparsely Vegetated Concave Surface (B8)		<u>X</u> FAC-Neutral Test (D5)	
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>3</u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Saturation visible on aerial imagery in 2017,			
Remarks:			

VEGETATION – Use scientific names of plants.

 Sampling Point: DP-20

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Box Elder (<i>Acer negundo</i>)</u>	20	Yes	FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B) Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>30</u></td> <td>x 1 = <u>30</u></td> </tr> <tr> <td>FACW species <u>20</u></td> <td>x 2 = <u>40</u></td> </tr> <tr> <td>FAC species <u>20</u></td> <td>x 3 = <u>60</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>70</u> (A)</td> <td><u>130</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>1.86</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>30</u>	x 1 = <u>30</u>	FACW species <u>20</u>	x 2 = <u>40</u>	FAC species <u>20</u>	x 3 = <u>60</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>70</u> (A)	<u>130</u> (B)	Prevalence Index = B/A = <u>1.86</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>30</u>	x 1 = <u>30</u>																			
FACW species <u>20</u>	x 2 = <u>40</u>																			
FAC species <u>20</u>	x 3 = <u>60</u>																			
FACU species <u>0</u>	x 4 = <u>0</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>70</u> (A)	<u>130</u> (B)																			
Prevalence Index = B/A = <u>1.86</u>																				
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	20	=Total Cover																		
Sapling/Shrub Stratum (Plot size: _____)																				
1. _____																				
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
		=Total Cover																		
Herb Stratum (Plot size: _____)																				
1. <u>Reed Canary Grass (<i>Phalaris arundinacea</i>)</u>	20	Yes	FACW	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> - Dominance Test is >50% <u>X</u> <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> 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 or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>																
2. <u>American Water-Plantain (<i>Alisma subcordatum</i>)</u>	30	Yes	OBL																	
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
12. _____																				
	50	=Total Cover																		
Woody Vine Stratum (Plot size: _____)																				
1. _____																				
2. _____																				
3. _____																				
4. _____																				
		=Total Cover																		

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

SOIL

Sampling Point: DP-20

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Beaver Dam Industrial Park City/County: Beaver Dam/ Dodge Sampling Date: 6/21/18
 Applicant/Owner: Alliant Energy State: WI Sampling Point: DP-21
 Investigator(s): Katie Goff Section, Township, Range: S 9, 10, 15, 16, T12N, R14E
 Landform (hillside, terrace, etc.): Low-lying area Local relief (concave, convex, none): Concave Slope %: 2-6
 Subregion (LRR or MLRA): LRR K Lat: 43.519535270 Long: -88.823167085 Datum: WL-3
 Soil Map Unit Name: PuB Puchyan loamy fine sand NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation X, Soil X, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No X
 Are Vegetation X, 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 <u>*</u>	No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u> </u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>	
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.) Climate is wetter than normal (see Section 2.8) Vegetation and soil disturbed by farming. *Vegetation was problematic and wetland vegetation was assumed to be dominant based on soil and hydrology observations.			

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<u> </u> Surface Water (A1)	<u> </u> Water-Stained Leaves (B9)	<u> </u> Surface Soil Cracks (B6)	
<u> </u> High Water Table (A2)	<u> </u> Aquatic Fauna (B13)	<u> </u> Drainage Patterns (B10)	
<u>X</u> Saturation (A3)	<u> </u> Marl Deposits (B15)	<u> </u> Moss Trim Lines (B16)	
<u> </u> Water Marks (B1)	<u> </u> Hydrogen Sulfide Odor (C1)	<u> </u> Dry-Season Water Table (C2)	
<u> </u> Sediment Deposits (B2)	<u> </u> Oxidized Rhizospheres on Living Roots (C3)	<u>X</u> Saturation Visible on Aerial Imagery (C9)	
<u> </u> Drift Deposits (B3)	<u> </u> Presence of Reduced Iron (C4)	<u> </u> Stunted or Stressed Plants (D1)	
<u> </u> Algal Mat or Crust (B4)	<u> </u> Recent Iron Reduction in Tilled Soils (C6)	<u>X</u> Geomorphic Position (D2)	
<u> </u> Iron Deposits (B5)	<u> </u> Thin Muck Surface (C7)	<u> </u> Shallow Aquitard (D3)	
<u>X</u> Inundation Visible on Aerial Imagery (B7)	<u> </u> Other (Explain in Remarks)	<u> </u> Microtopographic Relief (D4)	
<u> </u> Sparsely Vegetated Concave Surface (B8)		<u> </u> FAC-Neutral Test (D5)	
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>0</u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Inundation visible on aerial imagery in 2017, 2008. Saturation visible on aerial imagery in 1996, 1992, 1984.			
Remarks:			

VEGETATION – Use scientific names of plants.

 Sampling Point: DP-21

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
		=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>10</u></td> <td>x 1 = <u>10</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>10</u></td> <td>(A) <u>10</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>1.00</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>10</u>	x 1 = <u>10</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>10</u>	(A) <u>10</u> (B)	Prevalence Index = B/A = <u>1.00</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>10</u>	x 1 = <u>10</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>0</u>	x 4 = <u>0</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>10</u>	(A) <u>10</u> (B)																			
Prevalence Index = B/A = <u>1.00</u>																				
Sapling/Shrub Stratum (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
		=Total Cover																		
Herb Stratum (Plot size: _____)																				
1. <u>Soybean (Glycine max)</u>	<u>30</u>	<u>Yes</u>	_____																	
2. <u>Rice cut grass (Leersia oryzoides)</u>	<u>10</u>	<u>Yes</u>	<u>OBL</u>																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
		=Total Cover																		
Woody Vine Stratum (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
		=Total Cover																		

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

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

X 3 - Prevalence Index is ≤3.0¹

___ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators 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 or equal to 3.28 ft (1 m) tall.

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

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes * No

SOIL

Sampling Point: DP-21

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Beaver Dam Industrial Park City/County: Beaver Dam/ Dodge Sampling Date: 6/21/18
 Applicant/Owner: Alliant Energy State: WI Sampling Point: DP-22
 Investigator(s): Katie Goff Section, Township, Range: S 9, 10, 15, 16, T12N, R14E
 Landform (hillside, terrace, etc.): Low-lying area Local relief (concave, convex, none): Concave Slope %: 2-6
 Subregion (LRR or MLRA): LRR K Lat: 43.520740363 Long: -88.822404851 Datum: WL-3
 Soil Map Unit Name: PuB Puchyan loamy fine sand NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u>WL-3</u>
Hydric Soil Present?	Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present?	Yes <u>X</u> No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.) Climate is wetter than normal (see Section 2.8)		

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<u> </u> Surface Water (A1)	<u>X</u> Water-Stained Leaves (B9)	<u> </u> Surface Soil Cracks (B6)	
<u>X</u> High Water Table (A2)	<u> </u> Aquatic Fauna (B13)	<u> </u> Drainage Patterns (B10)	
<u>X</u> Saturation (A3)	<u> </u> Marl Deposits (B15)	<u> </u> Moss Trim Lines (B16)	
<u> </u> Water Marks (B1)	<u> </u> Hydrogen Sulfide Odor (C1)	<u> </u> Dry-Season Water Table (C2)	
<u> </u> Sediment Deposits (B2)	<u> </u> Oxidized Rhizospheres on Living Roots (C3)	<u> </u> Crayfish Burrows (C8)	
<u> </u> Drift Deposits (B3)	<u> </u> Presence of Reduced Iron (C4)	<u> </u> Saturation Visible on Aerial Imagery (C9)	
<u> </u> Algal Mat or Crust (B4)	<u> </u> Recent Iron Reduction in Tilled Soils (C6)	<u> </u> Stunted or Stressed Plants (D1)	
<u> </u> Iron Deposits (B5)	<u> </u> Thin Muck Surface (C7)	<u>X</u> Geomorphic Position (D2)	
<u> </u> Inundation Visible on Aerial Imagery (B7)	<u> </u> Other (Explain in Remarks)	<u> </u> Shallow Aquitard (D3)	
<u> </u> Sparsely Vegetated Concave Surface (B8)		<u> </u> Microtopographic Relief (D4)	
		<u>X</u> FAC-Neutral Test (D5)	
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>0</u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>0</u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

VEGETATION – Use scientific names of plants.

 Sampling Point: DP-22

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Swamp White Oak (<i>Quercus bicolor</i>)</u>	50	Yes	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>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2. <u>Eastern Cottonwood (<i>Populus deltoids</i>)</u>	20	Yes	FAC																	
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	70	=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 40%;">Total % Cover of:</th> <th style="width: 60%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>10</u></td> <td>x 1 = <u>10</u></td> </tr> <tr> <td>FACW species <u>150</u></td> <td>x 2 = <u>300</u></td> </tr> <tr> <td>FAC species <u>40</u></td> <td>x 3 = <u>120</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>200</u></td> <td>(A) <u>430</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.15</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>10</u>	x 1 = <u>10</u>	FACW species <u>150</u>	x 2 = <u>300</u>	FAC species <u>40</u>	x 3 = <u>120</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>200</u>	(A) <u>430</u> (B)	Prevalence Index = B/A = <u>2.15</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>10</u>	x 1 = <u>10</u>																			
FACW species <u>150</u>	x 2 = <u>300</u>																			
FAC species <u>40</u>	x 3 = <u>120</u>																			
FACU species <u>0</u>	x 4 = <u>0</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>200</u>	(A) <u>430</u> (B)																			
Prevalence Index = B/A = <u>2.15</u>																				
Sapling/Shrub Stratum (Plot size: _____)																				
1. <u>Box Elder/Ash-Leaf Maple (<i>Acer negundo</i>)</u>	20	Yes	FAC																	
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	20	=Total Cover																		
Herb Stratum (Plot size: _____)																				
1. <u>Reed Canary Grass (<i>Phalaris arundinacea</i>)</u>	70	Yes	FACW	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> - Dominance Test is >50% <u>X</u> <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Jewelweed (<i>Impatiens pallida</i>)</u>	30	Yes	FACW																	
3. <u>Common Spike-Rush (<i>Eleocharis palustris</i>)</u>	10	No	OBL																	
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
12. _____																				
	110	=Total Cover																		
Woody Vine Stratum (Plot size: _____)																				
1. _____				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 or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
2. _____																				
3. _____																				
4. _____																				
				Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>																
Remarks: (Include photo numbers here or on a separate sheet.)																				

SOIL

Sampling Point: DP-22

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Beaver Dam Industrial Park City/County: Beaver Dam/ Dodge Sampling Date: 6/21/18
 Applicant/Owner: Alliant Energy State: WI Sampling Point: DP-23
 Investigator(s): Katie Goff Section, Township, Range: S 9, 10, 15, 16, T12N, R14E
 Landform (hillside, terrace, etc.): low-lying area Local relief (concave, convex, none): Concave Slope %: 0-2
 Subregion (LRR or MLRA): LRR K Lat: 43.518588565 Long: -88.823705287 Datum: WL-3
 Soil Map Unit Name: KIA Kibbie loam NWI classification: PFO1Bg

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u>WL-3</u>
Hydric Soil Present?	Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present?	Yes <u>X</u> No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.) Climate is wetter than normal (see Section 2.8)		

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) <u> </u> Surface Water (A1) <u> </u> Water-Stained Leaves (B9) <u>X</u> High Water Table (A2) <u> </u> Aquatic Fauna (B13) <u>X</u> Saturation (A3) <u> </u> Marl Deposits (B15) <u> </u> Water Marks (B1) <u> </u> Hydrogen Sulfide Odor (C1) <u> </u> Sediment Deposits (B2) <u> </u> Oxidized Rhizospheres on Living Roots (C3) <u> </u> Drift Deposits (B3) <u> </u> Presence of Reduced Iron (C4) <u> </u> Algal Mat or Crust (B4) <u> </u> Recent Iron Reduction in Tilled Soils (C6) <u> </u> Iron Deposits (B5) <u> </u> Thin Muck Surface (C7) <u>X</u> Inundation Visible on Aerial Imagery (B7) <u> </u> Other (Explain in Remarks) <u> </u> Sparsely Vegetated Concave Surface (B8)		Secondary Indicators (minimum of two required) <u> </u> Surface Soil Cracks (B6) <u> </u> Drainage Patterns (B10) <u> </u> Moss Trim Lines (B16) <u> </u> Dry-Season Water Table (C2) <u> </u> Crayfish Burrows (C8) <u>X</u> Saturation Visible on Aerial Imagery (C9) <u> </u> Stunted or Stressed Plants (D1) <u>X</u> Geomorphic Position (D2) <u> </u> Shallow Aquitard (D3) <u> </u> Microtopographic Relief (D4) <u>X</u> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>0</u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>0</u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u>X</u> No <u> </u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Inundation visible on aerial imagery on 2017, 2008, 1996, 1992. Saturation visible on aerial imagery in 1984, 1980.		
Remarks:		

VEGETATION – Use scientific names of plants.

 Sampling Point: DP-23

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Black willow (<i>Salix nigra</i>)</u>	20	Yes	OBL	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B) Prevalence Index worksheet: <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>50</u></td> <td>x 1 = <u>50</u></td> </tr> <tr> <td>FACW species <u>90</u></td> <td>x 2 = <u>180</u></td> </tr> <tr> <td>FAC species <u>10</u></td> <td>x 3 = <u>30</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>150</u> (A)</td> <td><u>260</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>1.73</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>50</u>	x 1 = <u>50</u>	FACW species <u>90</u>	x 2 = <u>180</u>	FAC species <u>10</u>	x 3 = <u>30</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>150</u> (A)	<u>260</u> (B)	Prevalence Index = B/A = <u>1.73</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>50</u>	x 1 = <u>50</u>																			
FACW species <u>90</u>	x 2 = <u>180</u>																			
FAC species <u>10</u>	x 3 = <u>30</u>																			
FACU species <u>0</u>	x 4 = <u>0</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>150</u> (A)	<u>260</u> (B)																			
Prevalence Index = B/A = <u>1.73</u>																				
2. <u>Box Elder/Ash-Leaf Maple (<i>Acer negundo</i>)</u>	10	Yes	FAC																	
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	30	=Total Cover																		
Sapling/Shrub Stratum (Plot size: _____)				Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> X</u> 2 - Dominance Test is >50% <u> X</u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
1. _____																				
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
		=Total Cover																		
Herb Stratum (Plot size: _____)				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 or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u> X </u> No <u> </u>																
1. <u>Pennsylvania smartweed (<i>Persicaria pensylvanica</i>)</u>	80	Yes	FACW																	
2. <u>Reed Canary Grass (<i>Phalaris arundinacea</i>)</u>	10	No	FACW																	
3. <u>Rice cutgrass (<i>Leersia oryzoides</i>)</u>	30	Yes	OBL																	
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
12. _____																				
	120	=Total Cover																		
Woody Vine Stratum (Plot size: _____)																				
1. _____																				
2. _____																				
3. _____																				
4. _____																				
		=Total Cover																		

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

SOIL

Sampling Point: DP-23

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Beaver Dam Industrial Park City/County: Beaver Dam/ Dodge Sampling Date: 6/21/18
 Applicant/Owner: Alliant Energy State: WI Sampling Point: DP-24
 Investigator(s): Katie Goff Section, Township, Range: S 9, 10, 15, 16, T12N, R14E
 Landform (hillside, terrace, etc.): till plain/ toeslope Local relief (concave, convex, none): None Slope %: 2-6
 Subregion (LRR or MLRA): LRR K Lat: 43.518748291 Long: -88.822485221 Datum: WL-3
 Soil Map Unit Name: PuB Puchyan loamy fine sand NWI classification: Pf

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u>WL-3</u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>	
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.) Climate is wetter than normal (see Section 2.8)			

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<u> </u> Surface Water (A1)	<u>X</u> Water-Stained Leaves (B9)	<u> </u> Surface Soil Cracks (B6)	
<u> </u> High Water Table (A2)	<u> </u> Aquatic Fauna (B13)	<u> </u> Drainage Patterns (B10)	
<u>X</u> Saturation (A3)	<u> </u> Marl Deposits (B15)	<u> </u> Moss Trim Lines (B16)	
<u> </u> Water Marks (B1)	<u> </u> Hydrogen Sulfide Odor (C1)	<u> </u> Dry-Season Water Table (C2)	
<u> </u> Sediment Deposits (B2)	<u> </u> Oxidized Rhizospheres on Living Roots (C3)	<u>X</u> Saturation Visible on Aerial Imagery (C9)	
<u> </u> Drift Deposits (B3)	<u> </u> Presence of Reduced Iron (C4)	<u> </u> Stunted or Stressed Plants (D1)	
<u> </u> Algal Mat or Crust (B4)	<u> </u> Recent Iron Reduction in Tilled Soils (C6)	<u> </u> Geomorphic Position (D2)	
<u> </u> Iron Deposits (B5)	<u> </u> Thin Muck Surface (C7)	<u> </u> Shallow Aquitard (D3)	
<u>X</u> Inundation Visible on Aerial Imagery (B7)	<u> </u> Other (Explain in Remarks)	<u> </u> Microtopographic Relief (D4)	
<u> </u> Sparsely Vegetated Concave Surface (B8)		<u>X</u> FAC-Neutral Test (D5)	
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>5</u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Inundation visible on aerial imagery in 2017, 2008. Saturation visible in aerial imagery in 1996, 1992, 1984, 1980.			
Remarks:			

VEGETATION – Use scientific names of plants.

 Sampling Point: DP-24

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Box Elder/Ash-Leaf Maple (<i>Acer negundo</i>)</u>	20	Yes	FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	20	=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 40%;">Total % Cover of:</th> <th style="width: 60%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>110</u></td> <td>x 2 = <u>220</u></td> </tr> <tr> <td>FAC species <u>20</u></td> <td>x 3 = <u>60</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>130</u></td> <td>(A) <u>280</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.15</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>110</u>	x 2 = <u>220</u>	FAC species <u>20</u>	x 3 = <u>60</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>130</u>	(A) <u>280</u> (B)	Prevalence Index = B/A = <u>2.15</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>110</u>	x 2 = <u>220</u>																			
FAC species <u>20</u>	x 3 = <u>60</u>																			
FACU species <u>0</u>	x 4 = <u>0</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>130</u>	(A) <u>280</u> (B)																			
Prevalence Index = B/A = <u>2.15</u>																				
Sapling/Shrub Stratum (Plot size: _____)																				
1. _____																				
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
		=Total Cover																		
Herb Stratum (Plot size: _____)																				
1. <u>Reed Canary Grass (<i>Phalaris arundinacea</i>)</u>	110	Yes	FACW	Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u>X</u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
12. _____																				
	110	=Total Cover																		
Woody Vine Stratum (Plot size: _____)																				
1. _____																				
2. _____																				
3. _____																				
4. _____																				
		=Total Cover																		

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

SOIL

Sampling Point: DP-24

[illegible]

Project/Site: Beaver Dam Industrial Park City/County: Beaver Dam/ Dodge Sampling Date: 6/21/18
Applicant/Owner: Alliant Energy State: WI Sampling Point: DP-25
Investigator(s): Katie Goff Section, Township, Range: S 9, 10, 15, 16, T12N, R14E
Landform (hillside, terrace, etc.): till plain/ toeslope Local relief (concave, convex, none): Concave Slope %: 0-3
Subregion (LRR or MLRA): LRR K Lat: 43.518825400 Long: -88.820416090 Datum: Upland
Soil Map Unit Name: EbA Elbum silt loam 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.)

Hydrophytic Vegetation Present?	Yes _____	No <u>X</u>	Is the Sampled Area within a Wetland? If yes, optional Wetland Site ID: _____
Hydric Soil Present?	Yes <u>X</u>	No _____	
Wetland Hydrology Present?	Yes _____	No <u>X</u>	
Remarks: (Explain alternative procedures here or in a separate report.) Climate is wetter than normal (see Section 2.8) Soil and vegetation were disturbed by farming.			

Wetland Hydrology Indicators:				Secondary Indicators (minimum of two required)	
Primary Indicators (minimum of one is required; check all that apply)					
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <input type="text"/> Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <input type="text"/> Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <input type="text"/> (includes capillary fringe)				Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Saturation, inundation, or other wetland signatures were not apparent on more than 50% of the "normal" historic aerals.					
Remarks: The geomorphic position hydrology indicator does not apply because the data point was taken in a functioning drainage system.					

VEGETATION – Use scientific names of plants.

 Sampling Point: DP-25

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
=Total Cover				Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>10</u></td> <td>x 4 = <u>40</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>10</u> (A)</td> <td><u>40</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>4.00</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>10</u>	x 4 = <u>40</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>10</u> (A)	<u>40</u> (B)	Prevalence Index = B/A = <u>4.00</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>10</u>	x 4 = <u>40</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>10</u> (A)	<u>40</u> (B)																			
Prevalence Index = B/A = <u>4.00</u>																				
=Total Cover																				
Sapling/Shrub Stratum (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
=Total Cover				Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
=Total Cover																				
Herb Stratum (Plot size: _____)																				
1. <u>Soybeans (Glycine max)</u>	<u>30</u>	<u>Yes</u>	_____																	
2. <u>Lamb's Quarter (Chenopodium album)</u>	<u>10</u>	<u>Yes</u>	<u>FACU</u>																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
=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 or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
=Total Cover																				
Woody Vine Stratum (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
=Total Cover																				
=Total Cover				Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>																

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

SOIL

Sampling Point: DP-25

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Beaver Dam Industrial Park City/County: Beaver Dam/ Dodge Sampling Date: 6/21/18
 Applicant/Owner: Alliant Energy State: WI Sampling Point: DP-26
 Investigator(s): Katie Goff Section, Township, Range: S 9, 10, 15, 16, T12N, R14E
 Landform (hillside, terrace, etc.): till plain/ toeslope Local relief (concave, convex, none): Concave Slope %: 0-2
 Subregion (LRR or MLRA): LRR K Lat: 43.517773442 Long: -88.823853790 Datum: WL-3
 Soil Map Unit Name: Ph Pella silty clay loam, cool NWI classification: Pf

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation X, Soil X, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No X
 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 <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u>WL-3</u>
Hydric Soil Present?	Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present?	Yes <u>X</u> No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.) Climate is wetter than normal (see Section 2.8) Vegetation and soil were disturbed by farming.		

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<u> </u> Surface Water (A1)	<u> </u> Water-Stained Leaves (B9)	<u> </u> Surface Soil Cracks (B6)	
<u> </u> High Water Table (A2)	<u> </u> Aquatic Fauna (B13)	<u> </u> Drainage Patterns (B10)	
<u>X</u> Saturation (A3)	<u> </u> Marl Deposits (B15)	<u> </u> Moss Trim Lines (B16)	
<u> </u> Water Marks (B1)	<u> </u> Hydrogen Sulfide Odor (C1)	<u> </u> Dry-Season Water Table (C2)	
<u> </u> Sediment Deposits (B2)	<u> </u> Oxidized Rhizospheres on Living Roots (C3)	<u>X</u> Saturation Visible on Aerial Imagery (C9)	
<u> </u> Drift Deposits (B3)	<u> </u> Presence of Reduced Iron (C4)	<u> </u> Stunted or Stressed Plants (D1)	
<u> </u> Algal Mat or Crust (B4)	<u> </u> Recent Iron Reduction in Tilled Soils (C6)	<u>X</u> Geomorphic Position (D2)	
<u> </u> Iron Deposits (B5)	<u> </u> Thin Muck Surface (C7)	<u> </u> Shallow Aquitard (D3)	
<u>X</u> Inundation Visible on Aerial Imagery (B7)	<u> </u> Other (Explain in Remarks)	<u> </u> Microtopographic Relief (D4)	
<u> </u> Sparsely Vegetated Concave Surface (B8)		<u>X</u> FAC-Neutral Test (D5)	
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>8</u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Inundation visible on aerial imagery in 2017, 2008, 1996, 1992. Saturation visible on aerial imagery in 1984, 1980.			
Remarks:			

VEGETATION – Use scientific names of plants.

Sampling Point: DP-26

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Black willow (<i>Salix nigra</i>)</u>	10	Yes	OBL	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.7%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
	10	=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>30</u></td> <td>x 1 = <u>30</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>30</u></td> <td>(A) <u>30</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>1.00</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>30</u>	x 1 = <u>30</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>30</u>	(A) <u>30</u> (B)	Prevalence Index = B/A = <u>1.00</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>30</u>	x 1 = <u>30</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>0</u>	x 4 = <u>0</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>30</u>	(A) <u>30</u> (B)																			
Prevalence Index = B/A = <u>1.00</u>																				
Sapling/Shrub Stratum (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
		=Total Cover																		
Herb Stratum (Plot size: _____)																				
1. <u>Soybeans (<i>Glycine max</i>)</u>	10	Yes		Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> - Dominance Test is >50% <u>X</u> <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Rice cutgrass (<i>Leersia oryzoides</i>)</u>	20	Yes	OBL																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
	30	=Total Cover																		
Woody Vine Stratum (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
		=Total Cover																		

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

SOIL

Sampling Point: DP-26

[illegible]

Project/Site: Beaver Dam Industrial Park City/County: Beaver Dam/ Dodge Sampling Date: 6/21/18
Applicant/Owner: Alliant Energy State: WI Sampling Point: DP-27
Investigator(s): Katie Goff Section, Township, Range: S 9, 10, 15, 16, T12N, R14E
Landform (hillside, terrace, etc.): till plain/ backslope Local relief (concave, convex, none): Convex Slope %: 2-6
Subregion (LRR or MLRA): LRR K Lat: 43.518038192 Long: -88.825538475 Datum: Upland
Soil Map Unit Name: LvB Lomira silt loam NWI classification: None

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Hydric Soil Present?	Yes <u>X</u>	No _____	
Wetland Hydrology Present?	Yes _____	No <u>X</u>	
Remarks: (Explain alternative procedures here or in a separate report.) Climate is wetter than normal (see Section 2.8). Vegetation and soil were disturbed by farming.			

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)				Secondary Indicators (minimum of two 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 on 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="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <input type="text"/> Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <input type="text"/> Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <input type="text"/> (includes capillary fringe)				Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
Remarks:							

VEGETATION – Use scientific names of plants.

 Sampling Point: DP-27

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
		=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>5</u></td> <td>x 4 = <u>20</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>5</u> (A)</td> <td><u>20</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>4.00</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>5</u>	x 4 = <u>20</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>5</u> (A)	<u>20</u> (B)	Prevalence Index = B/A = <u>4.00</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>5</u>	x 4 = <u>20</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>5</u> (A)	<u>20</u> (B)																			
Prevalence Index = B/A = <u>4.00</u>																				
		=Total Cover																		
Sapling/Shrub Stratum (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
		=Total Cover																		
Herb Stratum (Plot size: _____)																				
1. <u>Corn (Zea mays)</u>	<u>40</u>	<u>Yes</u>	_____																	
2. <u>Pigweed (Amaranthus retroflexus)</u>	<u>3</u>	<u>No</u>	<u>FACU</u>																	
3. <u>Lamb's Quarter (Chenopodium album)</u>	<u>2</u>	<u>No</u>	<u>FACU</u>																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
		=Total Cover																		
Woody Vine Stratum (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
		=Total Cover																		

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

Hydrophytic Vegetation Indicators:
 _____ 1 - Rapid Test for Hydrophytic Vegetation
 _____ 2 - Dominance Test is >50%
 _____ 3 - Prevalence Index is ≤3.0¹
 _____ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 _____ Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators 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 or equal to 3.28 ft (1 m) tall.

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

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes _____ No _____

SOIL

Sampling Point: DP-27

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Beaver Dam Industrial Park City/County: Beaver Dam/ Dodge Sampling Date: 6/21/18
 Applicant/Owner: Alliant Energy State: WI Sampling Point: DP-28
 Investigator(s): Katie Goff Section, Township, Range: S 9, 10, 15, 16, T12N, R14E
 Landform (hillside, terrace, etc.): till plain/ toeslope Local relief (concave, convex, none): Concave Slope %: 0-2
 Subregion (LRR or MLRA): LRR K Lat: 43.515800687 Long: -88.822437026 Datum: WL-4
 Soil Map Unit Name: SdA St. Charles silt loam, moderately well drained NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation X, Soil X, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No X
 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 <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u>WL-4</u>
Hydric Soil Present?	Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present?	Yes <u>X</u> No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.) Climate is wetter than normal (see Section 2.8). Soil and vegetation were disturbed by farming.		

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<u> </u> Surface Water (A1)	<u>X</u> Water-Stained Leaves (B9)	<u> </u> Surface Soil Cracks (B6)	
<u> </u> High Water Table (A2)	<u> </u> Aquatic Fauna (B13)	<u> </u> Drainage Patterns (B10)	
<u> </u> Saturation (A3)	<u> </u> Marl Deposits (B15)	<u> </u> Moss Trim Lines (B16)	
<u> </u> Water Marks (B1)	<u> </u> Hydrogen Sulfide Odor (C1)	<u> </u> Dry-Season Water Table (C2)	
<u> </u> Sediment Deposits (B2)	<u> </u> Oxidized Rhizospheres on Living Roots (C3)	<u>X</u> Saturation Visible on Aerial Imagery (C9)	
<u> </u> Drift Deposits (B3)	<u> </u> Presence of Reduced Iron (C4)	<u> </u> Stunted or Stressed Plants (D1)	
<u>X</u> Algal Mat or Crust (B4)	<u> </u> Recent Iron Reduction in Tilled Soils (C6)	<u>X</u> Geomorphic Position (D2)	
<u> </u> Iron Deposits (B5)	<u> </u> Thin Muck Surface (C7)	<u> </u> Shallow Aquitard (D3)	
<u>X</u> Inundation Visible on Aerial Imagery (B7)	<u> </u> Other (Explain in Remarks)	<u> </u> Microtopographic Relief (D4)	
<u> </u> Sparsely Vegetated Concave Surface (B8)		<u>X</u> FAC-Neutral Test (D5)	
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>20</u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Inundation visible on aerial imagery in 2017, 1996. Saturation visible on aerial imagery in 2010, 2006, 1992, 1984, 1980.			
Remarks:			

VEGETATION – Use scientific names of plants.

 Sampling Point: DP-28

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
		=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>40</u></td> <td>x 1 = <u>40</u></td> </tr> <tr> <td>FACW species <u>40</u></td> <td>x 2 = <u>80</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>80</u></td> <td>(A) <u>120</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>1.50</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>40</u>	x 1 = <u>40</u>	FACW species <u>40</u>	x 2 = <u>80</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>80</u>	(A) <u>120</u> (B)	Prevalence Index = B/A = <u>1.50</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>40</u>	x 1 = <u>40</u>																			
FACW species <u>40</u>	x 2 = <u>80</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>0</u>	x 4 = <u>0</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>80</u>	(A) <u>120</u> (B)																			
Prevalence Index = B/A = <u>1.50</u>																				
		=Total Cover																		
Sapling/Shrub Stratum (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
		=Total Cover																		
Herb Stratum (Plot size: _____)																				
1. <u>Corn (Zea mays)</u>	<u>10</u>	<u>No</u>	_____																	
2. <u>Moss sp.</u>	<u>30</u>	<u>Yes</u>	<u>FACW</u>																	
3. <u>Pennsylvania Smartweed (Persicaria pensylvanica)</u>	<u>10</u>	<u>No</u>	<u>FACW</u>																	
4. <u>Common Spike-Rush (Eleocharis palustris)</u>	<u>40</u>	<u>Yes</u>	<u>OBL</u>																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
		90 =Total Cover																		
Woody Vine Stratum (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
		=Total Cover																		

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

Hydrophytic Vegetation Indicators:

 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

X 3 - Prevalence Index is ≤3.0¹

 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators 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 or equal to 3.28 ft (1 m) tall.

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

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No

SOIL

Sampling Point: DP-28

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Beaver Dam Industrial Park City/County: Beaver Dam/ Dodge Sampling Date: 6/21/18
 Applicant/Owner: Alliant Energy State: WI Sampling Point: DP-29
 Investigator(s): Katie Goff Section, Township, Range: S 9, 10, 15, 16, T12N, R14E
 Landform (hillside, terrace, etc.): till plain/ backslope Local relief (concave, convex, none): Concave Slope %: 0-2
 Subregion (LRR or MLRA): LRR K Lat: 43.515209734 Long: -88.822995209 Datum: Upland
 Soil Map Unit Name: SdA St. Charles silt loam, moderately well drained 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="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Remarks: (Explain alternative procedures here or in a separate report.) Climate is wetter than normal (see Section 2.8) Soil and vegetation were disturbed by farming.		

HYDROLOGY

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

Sampling Point: DP-29

Tree Stratum (Plot size: _____)		Absolute % Cover	Dominant Species?	Indicator Status
1.	_____	_____	_____	_____
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____
6.	_____	_____	_____	_____
7.	_____	_____	_____	_____
		_____	=Total Cover	
Sapling/Shrub Stratum (Plot size: _____)				
1.	_____	_____	_____	_____
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____
6.	_____	_____	_____	_____
7.	_____	_____	_____	_____
		_____	=Total Cover	
Herb Stratum (Plot size: _____)				
1.	<u>Corn (Zea mays)</u>	40	Yes	
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____
6.	_____	_____	_____	_____
7.	_____	_____	_____	_____
8.	_____	_____	_____	_____
9.	_____	_____	_____	_____
10.	_____	_____	_____	_____
11.	_____	_____	_____	_____
12.	_____	_____	_____	_____
		40	=Total Cover	
Woody Vine Stratum (Plot size: _____)				
1.	_____	_____	_____	_____
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
		_____	=Total Cover	

Dominance Test worksheet:

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

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

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

Prevalence Index worksheet:

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

Hydrophytic Vegetation Indicators:

_____ 1 - Rapid Test for Hydrophytic Vegetation

_____ 2 - Dominance Test is >50%

_____ 3 - Prevalence Index is ≤3.0¹

_____ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

_____ Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators 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 or equal to 3.28 ft (1 m) tall.

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

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes _____ No X

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

SOIL

Sampling Point: DP-29

[illegible]

Project/Site: Beaver Dam Industrial Park City/County: Beaver Dam/ Dodge Sampling Date: 6/21/18
Applicant/Owner: Alliant Energy State: WI Sampling Point: DP-30
Investigator(s): Katie Goff Section, Township, Range: S 9, 10, 15, 16, T12N, R14E
Landform (hillside, terrace, etc.): Toe slope Local relief (concave, convex, none): Concave Slope %: 0-2
Subregion (LRR or MLRA): LRR K Lat: 43.513757942 Long: -88.823391051 Datum: Upland
Soil Map Unit Name: SdA St. Charles silt loam, moderately well drained NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
Are Vegetation X , Soil X , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No X
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

Hydrophytic Vegetation Present?	Yes _____	No <u> X </u>	Is the Sampled Area within a Wetland? Yes _____ No <u> X </u> If yes, optional Wetland Site ID: _____
Hydric Soil Present?	Yes _____	No <u> X </u>	
Wetland Hydrology Present?	Yes <u> X </u>	No _____	
Remarks: (Explain alternative procedures here or in a separate report.) Climate is wetter than normal (see Section 2.8) Soil and vegetaion were disturbed by farming.			

Wetland Hydrology Indicators:				Secondary Indicators (minimum of two required)	
Primary Indicators (minimum of one is required; check all that apply)					
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <input type="text"/> Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <input type="text"/> Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <input type="text" value="8"/> (includes capillary fringe)				Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Saturation, inundation, or other wetland signatures were not apparent on more than 50% of the "normal" historic aerals.					
Remarks:					

VEGETATION – Use scientific names of plants.

 Sampling Point: DP-30

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
=Total Cover				Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>10</u></td> <td>x 1 = <u>10</u></td> </tr> <tr> <td>FACW species <u>10</u></td> <td>x 2 = <u>20</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>20</u> (A)</td> <td><u>30</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>1.50</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>10</u>	x 1 = <u>10</u>	FACW species <u>10</u>	x 2 = <u>20</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>20</u> (A)	<u>30</u> (B)	Prevalence Index = B/A = <u>1.50</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>10</u>	x 1 = <u>10</u>																			
FACW species <u>10</u>	x 2 = <u>20</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>0</u>	x 4 = <u>0</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>20</u> (A)	<u>30</u> (B)																			
Prevalence Index = B/A = <u>1.50</u>																				
=Total Cover																				
Sapling/Shrub Stratum (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
=Total Cover																				
Herb Stratum (Plot size: _____)																				
1. <u>Corn (Zea mays)</u>	<u>40</u>	<u>Yes</u>	_____																	
2. <u>Common Spike-Rush (Eleocharis palustris)</u>	<u>10</u>	<u>No</u>	<u>OBL</u>																	
3. <u>Pennsylvania Smartweed (Persicaria pensylvanica)</u>	<u>10</u>	<u>No</u>	<u>FACW</u>																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
60 =Total Cover																				
Woody Vine Stratum (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
=Total Cover																				

Hydrophytic Vegetation Indicators:
1 - Rapid Test for Hydrophytic Vegetation
2 - Dominance Test is >50%
X 3 - Prevalence Index is ≤3.0¹
4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators 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 or equal to 3.28 ft (1 m) tall.

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

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No X

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

SOIL

Sampling Point: DP-30

[illegible]

Project/Site: Beaver Dam Industrial Park City/County: Beaver Dam/ Dodge Sampling Date: 6/21/18
Applicant/Owner: Alliant Energy State: WI Sampling Point: DP-31
Investigator(s): Katie Goff Section, Township, Range: S 9, 10, 15, 16, T12N, R14E
Landform (hillside, terrace, etc.): till plain/ toeslope Local relief (concave, convex, none): Concave Slope %: 0-2
Subregion (LRR or MLRA): LRR K Lat: 43.515077170 Long: -88.824737517 Datum: Upland
Soil Map Unit Name: SdA St. Charles silt loam, moderately well drained 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.)

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland? If yes, optional Wetland Site ID: _____	Yes _____	No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>X</u>	No _____			
Remarks: (Explain alternative procedures here or in a separate report.) Climate is wetter than normal (see Section 2.8) Soil and vegetation were disturbed by farming.					

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

Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <input type="text"/> Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <input type="text"/> Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <input type="text" value="8"/> (includes capillary fringe)				Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Saturation, inundation, or other wetland signatures were not apparent on more than 50% of the "normal" historic aerals.					
Remarks:					

Sampling Point: DP-31

Tree Stratum (Plot size: _____)		Absolute % Cover	Dominant Species?	Indicator Status
1.	_____	_____	_____	_____
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____
6.	_____	_____	_____	_____
7.	_____	_____	_____	_____
		_____	=Total Cover	
Sapling/Shrub Stratum (Plot size: _____)				
1.	_____	_____	_____	_____
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____
6.	_____	_____	_____	_____
7.	_____	_____	_____	_____
		_____	=Total Cover	
Herb Stratum (Plot size: _____)				
1.	<u>Common Spike-Rush (Eleocharis palustris)</u>	60	Yes	OBL
2.	<u>Sedge sp. (Carex sp.)</u>	30	Yes	FACW
3.	<u>Pennsylvania Smartweed (Persicaria pensylvanica)</u>	10	No	FACW
4.	<u>Corn (Zea mays)</u>	20	No	
5.	_____	_____	_____	_____
6.	_____	_____	_____	_____
7.	_____	_____	_____	_____
8.	_____	_____	_____	_____
9.	_____	_____	_____	_____
10.	_____	_____	_____	_____
11.	_____	_____	_____	_____
12.	_____	_____	_____	_____
		120	=Total Cover	
Woody Vine Stratum (Plot size: _____)				
1.	_____	_____	_____	_____
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
		_____	=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>60</u>	x 1 =	<u>60</u>
FACW species	<u>40</u>	x 2 =	<u>80</u>
FAC species	<u>0</u>	x 3 =	<u>0</u>
FACU species	<u>0</u>	x 4 =	<u>0</u>
UPL species	<u>0</u>	x 5 =	<u>0</u>
Column Totals:	<u>100</u> (A)		<u>140</u> (B)
Prevalence Index = B/A =		<u>1.40</u>	

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

X 3 - Prevalence Index is ≤3.0¹

4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators 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 or equal to 3.28 ft (1 m) tall.

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

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No

SOIL

Sampling Point: DP-31

[illegible]

Project/Site: Beaver Dam Industrial Park City/County: Beaver Dam/ Dodge Sampling Date: 6/21/18
Applicant/Owner: Alliant Energy State: WI Sampling Point: DP-32
Investigator(s): Katie Goff Section, Township, Range: S 9, 10, 15, 16, T12N, R14E
Landform (hillside, terrace, etc.): till plain/ toeslope Local relief (concave, convex, none): Concave Slope %: 2-6
Subregion (LRR or MLRA): LRR K Lat: 43.518865259 Long: -88.817604509 Datum: Upland
Soil Map Unit Name: PsB Plano silt loam, till substratum 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.)

Hydrophytic Vegetation Present?	Yes _____	No <u> X </u>	Is the Sampled Area within a Wetland? Yes _____ No <u> X </u> If yes, optional Wetland Site ID: _____
Hydric Soil Present?	Yes _____	No <u> X </u>	
Wetland Hydrology Present?	Yes _____	No <u> X </u>	
Remarks: (Explain alternative procedures here or in a separate report.) Climate is wetter than normal (see Section 2.8) Soil and vegetation were disturbed by farming.			

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)			Secondary Indicators (minimum of two required)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <input type="text"/> Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <input type="text"/> Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <input type="text"/> (includes capillary fringe)			Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Saturation, inundation, or other wetland signatures were not apparent on more than 50% of the "normal" historic aerals.					
Remarks:					

VEGETATION – Use scientific names of plants.

 Sampling Point: DP-32

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33.3%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
=Total Cover				Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>20</u></td> <td>x 2 = <u>40</u></td> </tr> <tr> <td>FAC species <u>10</u></td> <td>x 3 = <u>30</u></td> </tr> <tr> <td>FACU species <u>20</u></td> <td>x 4 = <u>80</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>50</u> (A)</td> <td><u>150</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>3.00</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>20</u>	x 2 = <u>40</u>	FAC species <u>10</u>	x 3 = <u>30</u>	FACU species <u>20</u>	x 4 = <u>80</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>50</u> (A)	<u>150</u> (B)	Prevalence Index = B/A = <u>3.00</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>20</u>	x 2 = <u>40</u>																			
FAC species <u>10</u>	x 3 = <u>30</u>																			
FACU species <u>20</u>	x 4 = <u>80</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>50</u> (A)	<u>150</u> (B)																			
Prevalence Index = B/A = <u>3.00</u>																				
=Total Cover																				
Sapling/Shrub Stratum (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
=Total Cover				Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
=Total Cover																				
Herb Stratum (Plot size: _____)																				
1. <u>Soybeans (Glycine max)</u>	<u>30</u>	<u>Yes</u>	_____																	
2. <u>Lamb's Quarter (Chenopodium album)</u>	<u>20</u>	<u>Yes</u>	<u>FACU</u>																	
3. <u>Reed Canary Grass (Phalaris arundinacea)</u>	<u>20</u>	<u>Yes</u>	<u>FACW</u>																	
4. <u>Grass sp.</u>	<u>10</u>	<u>No</u>	<u>FAC</u>																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
80 =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 or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
=Total Cover																				
Woody Vine Stratum (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
=Total Cover																				

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

SOIL

Sampling Point: DP-32

[illegible]

Project/Site: Beaver Dam Industrial Park City/County: Beaver Dam/ Dodge Sampling Date: 6/21/18
Applicant/Owner: Alliant Energy State: WI Sampling Point: DP-33
Investigator(s): Katie Goff Section, Township, Range: S 9, 10, 15, 16, T12N, R14E
Landform (hillside, terrace, etc.): till plain/ toeslope Local relief (concave, convex, none): concave Slope %: 0-2
Subregion (LRR or MLRA): LRR K Lat: 43.511467318 Long: -88.825755802 Datum: Upland
Soil Map Unit Name: SdA St. Charles silt loam, moderately well drained NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No X (If no, explain in Remarks.)
Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Hydric Soil Present?	Yes <u>X</u>	No _____	
Wetland Hydrology Present?	Yes _____	No <u>X</u>	
Remarks: (Explain alternative procedures here or in a separate report.) Climate is wetter/drier than normal (see Section 2.8)			

Wetland Hydrology Indicators:				Secondary Indicators (minimum of two required)	
Primary Indicators (minimum of one is required; check all that apply)					
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <input type="text"/> Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <input type="text"/> Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <input type="text"/> (includes capillary fringe)				Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks: The geomorphic position hydrology indicator does not apply because the data point was taken in a functioning drainage system.					

VEGETATION – Use scientific names of plants.

 Sampling Point: DP-33

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
		=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>25</u></td> <td>x 1 = <u>25</u></td> </tr> <tr> <td>FACW species <u>25</u></td> <td>x 2 = <u>50</u></td> </tr> <tr> <td>FAC species <u>70</u></td> <td>x 3 = <u>210</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>120</u></td> <td>(A) <u>285</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.38</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>25</u>	x 1 = <u>25</u>	FACW species <u>25</u>	x 2 = <u>50</u>	FAC species <u>70</u>	x 3 = <u>210</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>120</u>	(A) <u>285</u> (B)	Prevalence Index = B/A = <u>2.38</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>25</u>	x 1 = <u>25</u>																			
FACW species <u>25</u>	x 2 = <u>50</u>																			
FAC species <u>70</u>	x 3 = <u>210</u>																			
FACU species <u>0</u>	x 4 = <u>0</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>120</u>	(A) <u>285</u> (B)																			
Prevalence Index = B/A = <u>2.38</u>																				
Sapling/Shrub Stratum (Plot size: _____)																				
1. <u>Black willow (Salix nigra)</u>	<u>25</u>	<u>Yes</u>	<u>OBL</u>																	
2. <u>Silky Dogwood (Cornus amomum)</u>	<u>5</u>	<u>No</u>	<u>FACW</u>																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
		=Total Cover																		
Herb Stratum (Plot size: _____)																				
1. <u>Foxglove beardtongue (Penstemon digitalis)</u>	<u>40</u>	<u>Yes</u>	<u>FAC</u>																	
2. <u>Reed Canary Grass (Phalaris arundinacea)</u>	<u>20</u>	<u>Yes</u>	<u>FACW</u>																	
3. <u>Switchgrass (Panicum virgatum)</u>	<u>25</u>	<u>Yes</u>	<u>FAC</u>																	
4. <u>Eastern cottonwood (Populus deltoides)</u>	<u>5</u>	<u>No</u>	<u>FAC</u>																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
		=Total Cover																		
Woody Vine Stratum (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
		=Total Cover																		

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

Hydrophytic Vegetation Indicators:
1 - Rapid Test for Hydrophytic Vegetation
X 2 - Dominance Test is >50%
3 - Prevalence Index is ≤3.0¹
4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators 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 or equal to 3.28 ft (1 m) tall.

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

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No

SOIL

Sampling Point: DP-33

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Beaver Dam Industrial Park City/County: Beaver Dam/ Dodge Sampling Date: 6/22/18
 Applicant/Owner: Alliant Energy State: WI Sampling Point: DP-34
 Investigator(s): Katie Goff Section, Township, Range: S 9, 10, 15, 16, T12N, R14E
 Landform (hillside, terrace, etc.): till plain/ toeslope Local relief (concave, convex, none): Concave Slope %: 0-3
 Subregion (LRR or MLRA): LRR K Lat: 43.509097273 Long: -88.829829920 Datum: WL-2
 Soil Map Unit Name: EbA Elburn silt loam NWI classification: PEM1C

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u>WL-2</u>
Hydric Soil Present?	Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present?	Yes <u>X</u> No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.) Climate is wetter than normal (see Section 2.8)		

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<u> </u> Surface Water (A1)	<u>X</u> Water-Stained Leaves (B9)	<u> </u> Surface Soil Cracks (B6)	
<u> </u> High Water Table (A2)	<u> </u> Aquatic Fauna (B13)	<u> </u> Drainage Patterns (B10)	
<u>X</u> Saturation (A3)	<u> </u> Marl Deposits (B15)	<u> </u> Moss Trim Lines (B16)	
<u> </u> Water Marks (B1)	<u> </u> Hydrogen Sulfide Odor (C1)	<u> </u> Dry-Season Water Table (C2)	
<u> </u> Sediment Deposits (B2)	<u> </u> Oxidized Rhizospheres on Living Roots (C3)	<u>X</u> Saturation Visible on Aerial Imagery (C9)	
<u> </u> Drift Deposits (B3)	<u> </u> Presence of Reduced Iron (C4)	<u> </u> Stunted or Stressed Plants (D1)	
<u> </u> Algal Mat or Crust (B4)	<u> </u> Recent Iron Reduction in Tilled Soils (C6)	<u>X</u> Geomorphic Position (D2)	
<u> </u> Iron Deposits (B5)	<u> </u> Thin Muck Surface (C7)	<u> </u> Shallow Aquitard (D3)	
<u> </u> Inundation Visible on Aerial Imagery (B7)	<u> </u> Other (Explain in Remarks)	<u> </u> Microtopographic Relief (D4)	
<u> </u> Sparsely Vegetated Concave Surface (B8)		<u>X</u> FAC-Neutral Test (D5)	
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>0</u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Saturation visible on aerial imagery in 2017, 2002, 1996, 1992, 1984.			
Remarks:			

VEGETATION – Use scientific names of plants.

 Sampling Point: DP-34

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
_____ = Total Cover				Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>30</u></td> <td>x 1 = <u>30</u></td> </tr> <tr> <td>FACW species <u>50</u></td> <td>x 2 = <u>100</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>80</u></td> <td>(A) <u>130</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>1.63</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>30</u>	x 1 = <u>30</u>	FACW species <u>50</u>	x 2 = <u>100</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>80</u>	(A) <u>130</u> (B)	Prevalence Index = B/A = <u>1.63</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>30</u>	x 1 = <u>30</u>																			
FACW species <u>50</u>	x 2 = <u>100</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>0</u>	x 4 = <u>0</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>80</u>	(A) <u>130</u> (B)																			
Prevalence Index = B/A = <u>1.63</u>																				
_____ = Total Cover																				
Sapling/Shrub Stratum (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
_____ = Total Cover				Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> X </u> 2 - Dominance Test is >50% <u> X </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
Herb Stratum (Plot size: _____)																				
1. <u>Dark-Green Bulrush (Scirpus atrovirens)</u>	<u>30</u>	<u>Yes</u>	<u>OBL</u>																	
2. <u>Reed Canary Grass (Phalaris arundinacea)</u>	<u>50</u>	<u>Yes</u>	<u>FACW</u>																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
<u>80</u> = Total Cover																				
Woody Vine Stratum (Plot size: _____)				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 or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
_____ = Total Cover																				

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

SOIL

Sampling Point: DP-34

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Beaver Dam Industrial Park City/County: Beaver Dam/ Dodge Sampling Date: 6/22/18
 Applicant/Owner: Alliant Energy State: WI Sampling Point: DP-35
 Investigator(s): Katie Goff Section, Township, Range: S 9, 10, 15, 16, T12N, R14E
 Landform (hillside, terrace, etc.): till plain/ toeslope Local relief (concave, convex, none): Concave Slope %: 0-2
 Subregion (LRR or MLRA): LRR K Lat: 43.508283238 Long: -88.8296363311 Datum: WL-2
 Soil Map Unit Name: SdA St. Charles silt loam, moderately well drained NWI classification: PEM1C

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u>WL-2</u>
Hydric Soil Present?	Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present?	Yes <u>X</u> No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.) Climate is wetter than normal (see Section 2.8)		

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<u> </u> Surface Water (A1)	<u> </u> Water-Stained Leaves (B9)	<u> </u> Surface Soil Cracks (B6)	
<u> </u> High Water Table (A2)	<u> </u> Aquatic Fauna (B13)	<u> </u> Drainage Patterns (B10)	
<u> </u> Saturation (A3)	<u> </u> Marl Deposits (B15)	<u> </u> Moss Trim Lines (B16)	
<u> </u> Water Marks (B1)	<u> </u> Hydrogen Sulfide Odor (C1)	<u> </u> Dry-Season Water Table (C2)	
<u> </u> Sediment Deposits (B2)	<u> </u> Oxidized Rhizospheres on Living Roots (C3)	<u>X</u> Saturation Visible on Aerial Imagery (C9)	
<u> </u> Drift Deposits (B3)	<u> </u> Presence of Reduced Iron (C4)	<u> </u> Stunted or Stressed Plants (D1)	
<u> </u> Algal Mat or Crust (B4)	<u> </u> Recent Iron Reduction in Tilled Soils (C6)	<u> </u> Geomorphic Position (D2)	
<u> </u> Iron Deposits (B5)	<u> </u> Thin Muck Surface (C7)	<u> </u> Shallow Aquitard (D3)	
<u> </u> Inundation Visible on Aerial Imagery (B7)	<u> </u> Other (Explain in Remarks)	<u> </u> Microtopographic Relief (D4)	
<u> </u> Sparsely Vegetated Concave Surface (B8)		<u>X</u> FAC-Neutral Test (D5)	
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Saturation Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Saturation visible on aerial imagery in 2017, 1996, 1992, 1984.			
Remarks:			

VEGETATION – Use scientific names of plants.

 Sampling Point: DP-35

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
		=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>30</u></td> <td>x 1 = <u>30</u></td> </tr> <tr> <td>FACW species <u>50</u></td> <td>x 2 = <u>100</u></td> </tr> <tr> <td>FAC species <u>25</u></td> <td>x 3 = <u>75</u></td> </tr> <tr> <td>FACU species <u>10</u></td> <td>x 4 = <u>40</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>115</u></td> <td>(A) <u>245</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.13</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>30</u>	x 1 = <u>30</u>	FACW species <u>50</u>	x 2 = <u>100</u>	FAC species <u>25</u>	x 3 = <u>75</u>	FACU species <u>10</u>	x 4 = <u>40</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>115</u>	(A) <u>245</u> (B)	Prevalence Index = B/A = <u>2.13</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>30</u>	x 1 = <u>30</u>																			
FACW species <u>50</u>	x 2 = <u>100</u>																			
FAC species <u>25</u>	x 3 = <u>75</u>																			
FACU species <u>10</u>	x 4 = <u>40</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>115</u>	(A) <u>245</u> (B)																			
Prevalence Index = B/A = <u>2.13</u>																				
Sapling/Shrub Stratum (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
		=Total Cover																		
Herb Stratum (Plot size: _____)																				
1. <u>Sawtooth Sunflower (Helianthus grosseserratus)</u>	<u>30</u>	<u>Yes</u>	<u>FACW</u>	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> - Dominance Test is >50% <u>X</u> <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Little bluestem (Schizachyrium scoparium)</u>	<u>10</u>	<u>No</u>	<u>FACU</u>																	
3. <u>Reed Canary Grass (Phalaris arundinacea)</u>	<u>20</u>	<u>No</u>	<u>FACW</u>																	
4. <u>Common Spike-Rush (Eleocharis palustris)</u>	<u>30</u>	<u>Yes</u>	<u>OBL</u>																	
5. <u>Switchgrass (Panicum virgatum)</u>	<u>25</u>	<u>Yes</u>	<u>FAC</u>																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
		=Total Cover																		
Woody Vine Stratum (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
		=Total Cover																		

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

SOIL

Sampling Point: DP-35

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Beaver Dam Industrial Park City/County: Beaver Dam/ Dodge Sampling Date: 6/22/18
 Applicant/Owner: Alliant Energy State: WI Sampling Point: DP-36
 Investigator(s): Katie Goff Section, Township, Range: S 9, 10, 15, 16, T12N, R14E
 Landform (hillside, terrace, etc.): till plain/ toeslope Local relief (concave, convex, none): Concave Slope %: 2-6
 Subregion (LRR or MLRA): LRR K Lat: 43.521746181 Long: -88.823239503 Datum: WL-3
 Soil Map Unit Name: PuB Puchyan loamy fine sand NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation X, Soil X, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No X
 Are Vegetation X, 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 <u>*</u>	No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u> </u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>	
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.) Climate is wetter than normal (see Section 2.8). Soil and vegetation were disturbed by farming. *Vegetation was problematic and wetland vegetation was assumed to be dominant based on soil and hydrology observations.			

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<u> </u> Surface Water (A1)	<u> </u> Water-Stained Leaves (B9)	<u> </u> Surface Soil Cracks (B6)	
<u>X</u> High Water Table (A2)	<u> </u> Aquatic Fauna (B13)	<u> </u> Drainage Patterns (B10)	
<u>X</u> Saturation (A3)	<u> </u> Marl Deposits (B15)	<u> </u> Moss Trim Lines (B16)	
<u> </u> Water Marks (B1)	<u> </u> Hydrogen Sulfide Odor (C1)	<u> </u> Dry-Season Water Table (C2)	
<u> </u> Sediment Deposits (B2)	<u> </u> Oxidized Rhizospheres on Living Roots (C3)	<u>X</u> Saturation Visible on Aerial Imagery (C9)	
<u> </u> Drift Deposits (B3)	<u> </u> Presence of Reduced Iron (C4)	<u> </u> Stunted or Stressed Plants (D1)	
<u> </u> Algal Mat or Crust (B4)	<u> </u> Recent Iron Reduction in Tilled Soils (C6)	<u>X</u> Geomorphic Position (D2)	
<u> </u> Iron Deposits (B5)	<u> </u> Thin Muck Surface (C7)	<u> </u> Shallow Aquitard (D3)	
<u>X</u> Inundation Visible on Aerial Imagery (B7)	<u> </u> Other (Explain in Remarks)	<u> </u> Microtopographic Relief (D4)	
<u> </u> Sparsely Vegetated Concave Surface (B8)		<u> </u> FAC-Neutral Test (D5)	
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>0</u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>0</u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Inundation visible on aerial imagery in 2008. Saturation visible on aerial imagery in 2017, 1996, 1992, 1984.			
Remarks:			

VEGETATION – Use scientific names of plants.

 Sampling Point: DP-36

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
_____ = Total Cover				Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>0</u> (A)</td> <td><u>0</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = _____</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>0</u> (A)	<u>0</u> (B)	Prevalence Index = B/A = _____	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>0</u>	x 4 = <u>0</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>0</u> (A)	<u>0</u> (B)																			
Prevalence Index = B/A = _____																				
_____ = Total Cover																				
Sapling/Shrub Stratum (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
_____ = Total Cover																				
Herb Stratum (Plot size: _____)																				
1. <u>Soybeans (Glycine max)</u>	<u>20</u>	<u>Yes</u>	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
_____ = Total Cover																				
Woody Vine Stratum (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
_____ = Total Cover																				

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

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0¹

___ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators 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 or equal to 3.28 ft (1 m) tall.

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

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes * No

SOIL

Sampling Point: DP-36

Project/Site: Beaver Dam Industrial Park City/County: Beaver Dam/ Dodge Sampling Date: 6/22/18
Applicant/Owner: Alliant Energy State: WI Sampling Point: DP-37
Investigator(s): Katie Goff Section, Township, Range: S 9, 10, 15, 16, T12N, R14E
Landform (hillside, terrace, etc.): till plain/ toeslope Local relief (concave, convex, none): None Slope %: 2-6
Subregion (LRR or MLRA): LRR K Lat: 43.521721170 Long: -88.823732039 Datum: Upland
Soil Map Unit Name: PuB Puchyan loamy fine sand 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.)

Hydrophytic Vegetation Present?	Yes _____	No <u>X</u>	Is the Sampled Area within a Wetland? If yes, optional Wetland Site ID: _____
Hydric Soil Present?	Yes <u>X</u>	No _____	
Wetland Hydrology Present?	Yes _____	No <u>X</u>	
Remarks: (Explain alternative procedures here or in a separate report.) Climate is wetter than normal (see Section 2.8). Soil and vegetation were disturbed by farming.			

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>			<u>Secondary Indicators (minimum of two required)</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <input type="text"/> Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <input type="text"/> Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <input type="text"/> (includes capillary fringe)			Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Saturation, inundation, or other wetland signatures were not apparent on more than 50% of the "normal" historic aerals.					
Remarks:					

VEGETATION – Use scientific names of plants.

 Sampling Point: DP-37

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
=Total Cover				Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>0</u> (A)</td> <td><u>0</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = _____</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>0</u> (A)	<u>0</u> (B)	Prevalence Index = B/A = _____	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>0</u>	x 4 = <u>0</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>0</u> (A)	<u>0</u> (B)																			
Prevalence Index = B/A = _____																				
=Total Cover																				
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=Total Cover				Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
=Total Cover																				
=Total Cover																				
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=Total Cover																				
=Total Cover																				
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=Total Cover																				
=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 or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
=Total Cover																				
=Total Cover																				
=Total Cover																				
=Total Cover				Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>																
=Total Cover																				
=Total Cover																				
=Total Cover																				

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

SOIL

Sampling Point: DP-37

Appendix E

Ground Photographs



Photographic Log

Client's Name: Alliant Energy	Site Location: Beaver Dam Industrial Park	Project No. 18A005.02
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Data Point Photo Documentation

Data Point	Photo Number
DP-1	1
DP-2	2
DP-3	3
DP-4	5
DP-5	North of Photo 9
DP-6	6
DP-7	Southeast of Photo 6
DP-8	12
DP-9	13
DP-10	East of Photo 46
DP-11	South of Photo 15
DP-12	East of Photo 16
DP-13	16
DP-14	North of Photo 16
DP-15	25
DP-16	West of Photo 25
DP-17	27
DP-18	28
DP-19	31

Data Point	Photo Number
DP-20	35
DP-21	36
DP-22	32
DP-23	37
DP-24	39
DP-25	56
DP-26	40
DP-27	41
DP-28	55
DP-29	Southwest of Photo 55
DP-30	South of Photo 43
DP-31	44
DP-32	45
DP-33	48
DP-34	North of Photo 18
DP-35	18
DP-36	26
DP-37	Northeast of Photo 26

Client's Name: Alliant Energy	Site Location: Beaver Dam Industrial Park	Project No. 18A005.02
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Photo No. 1	Date: 6/20/18	
Direction Photo Taken: Southwest		
Photo Taken By: Katie Goff		
Description: DP-1, WL-1		

Photo No. 2	Date: 6/20/18
Direction Photo Taken: South	
Photo Taken By: Katie Goff	
Description: DP-2	



Client's Name: Alliant Energy	Site Location: Beaver Dam Industrial Park	Project No. 18A005.02
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Photo No. 3	Date: 6/20/18
Direction Photo Taken: West	
Photo Taken By: Katie Goff	
Description: DP-3, WL-1	

A photograph of a wetland area. In the foreground, there is a small, shallow pool of water surrounded by dense, tall green grass and other vegetation. A surveying instrument, possibly a level or a theodolite, is positioned in the water. The background shows a line of trees and a clear sky.

Photo No. 4	Date: 6/20/18
Direction Photo Taken: South	
Photo Taken By: Katie Goff	
Description: Open water in WL-1	


A photograph of a wetland area. In the foreground, there is a patch of ground with dry, brownish grass and some green weeds. To the left and right, there are dense stands of tall green grass. In the center, a small body of water is visible, reflecting the sky and the surrounding trees. The water is bordered by a line of trees and shrubs, some of which have branches hanging over the water. The overall scene is a natural, somewhat overgrown wetland environment.

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Photo No. 5	Date: 6/20/18
Direction Photo Taken: East	
Photo Taken By: Katie Goff	
Description: DP-4, WL-1	

A photograph of a wetland area. In the foreground, there is a muddy, brownish stream or path cutting through a field of tall, green grass. A small, pink flag is attached to a stick or pole, standing in the water. The background shows more grass and a line of trees under a bright sky.

Photo No. 6	Date: 6/20/18
Direction Photo Taken: Northeast	
Photo Taken By: Katie Goff	
Description: Open water in WL-1, near DP-6	



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Photo No. 7	Date: 6/20/18
Direction Photo Taken: East	
Photo Taken By: Katie Goff	
Description: WL-1	


A photograph of a wetland area. In the foreground, there is a dense patch of tall green grasses and some small white flowers. A small stream or pond is visible in the middle ground, reflecting the sky. Several large trees with thick trunks and green foliage are in the background. The overall scene is a natural, wooded wetland environment.

Photo No. 8	Date: 6/20/18
Direction Photo Taken: Northwest	
Photo Taken By: Katie Goff	
Description: Open water portion of WL-1	

A photograph of a calm body of water, likely a pond or lake, surrounded by green grass and trees. The water reflects the sky and the surrounding vegetation. In the foreground, there are tall green reeds or grasses. The background shows a line of trees under a cloudy sky.

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Photo No. 9	Date: 6/20/18	
Direction Photo Taken: South		
Photo Taken By: Katie Goff		
Description: Upland prairie on the south side of the property near WL-1		

Photo No. 10	Date: 6/20/18	
Direction Photo Taken: North		
Photo Taken By: Katie Goff		
Description: Upland prairie on the south side of the property near WL-2		

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Photo No. 11	Date: 6/20/18
Direction Photo Taken: Southwest	
Photo Taken By: Katie Goff	
Description: Looking toward middle portion of WL-1	

A wide-angle photograph of a lush green field. The foreground is filled with tall, dense green grass. In the middle ground, there is a line of trees and shrubs. The background shows a flat landscape under a cloudy sky. The overall scene is a natural, open area.

Photo No. 12	Date: 6/20/18
Direction Photo Taken: West	
Photo Taken By: Katie Goff	
Description: DP-8, WL-1	

A photograph of a field with dense green vegetation in the foreground. A survey marker with a red flag is visible in the center. A line of trees is in the background.

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Photo No. 13	Date: 6/20/18
Direction Photo Taken: West	
Photo Taken By: Katie Goff	
Description: Northern portion of WL-1 near a stand of willows, DP-9	

A landscape photograph showing a green field with a line of trees in the background under a cloudy sky. The foreground has dark, tilled soil. The field is lush green, and the trees are dense and green. The sky is overcast with grey clouds. The foreground shows dark brown soil, possibly from a recent excavation or tilling, with some green plants starting to grow.

Photo No. 14	Date: 6/20/18	
Direction Photo Taken: North		
Photo Taken By: Katie Goff		
Description: WL-1		




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Photo No. 15	Date: 6/20/18
Direction Photo Taken: East	
Photo Taken By: Katie Goff	
Description: WL-1	

A photograph of a field under a cloudy sky. The foreground is a dark, tilled area with rows of young green corn plants. Behind this is a lush green field, and in the background, there is a line of trees and a small building.

Photo No. 16	Date: 6/20/18
Direction Photo Taken: West	
Photo Taken By: Katie Goff	
Description: WL-2, near DP-13	

A photograph of a wetland area. In the foreground, there is a body of water reflecting the sky, surrounded by tall green grasses and reeds. In the background, there is a line of trees and a cloudy sky. A small structure or marker is visible in the middle ground near the water's edge.



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Photo No. 17	Date: 6/20/18
Direction Photo Taken: Southeast	
Photo Taken By: Katie Goff	
Description: WL-2	

A photograph showing a grassy field with a utility pole in the foreground. The field is covered in tall grass and some weeds. In the background, there are trees and a cloudy sky.

Photo No. 18	Date: 6/20/18
Direction Photo Taken: North	
Photo Taken By: Katie Goff	
Description: DP-35, WL-2	

A photograph of a field of tall green grass. In the foreground, there is a survey marker consisting of a wooden stake with a pink ribbon tied around it. The field is covered in tall grass and some weeds. In the background, there are trees and a cloudy sky.

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Photo No. 19	Date: 6/22/18
Direction Photo Taken: South	
Photo Taken By: Katie Goff	
Description: WL-2, open water	

A photograph of a grassy field with a small pond or wet area in the foreground. The water is murky and reflects the sky. There are trees in the background under a cloudy sky.

Photo No. 20	Date: 6/20/18
Direction Photo Taken: North	
Photo Taken By: Katie Goff	
Description: Roadside ditch and farm field	

A photograph showing a rural landscape. In the foreground, there is a lush green field filled with numerous dandelions. To the left, a paved road stretches into the distance. A utility pole stands prominently on the right side of the frame. The background features a line of trees and a few distant buildings under a cloudy sky.



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Photo No. 21	Date: 6/20/18
Direction Photo Taken: South	
Photo Taken By: Katie Goff	
Description: Roadside ditch and farm field near the boundary of church property	

A photograph showing a grassy roadside area with a utility pole in the foreground. A dirt path or ditch runs alongside a paved road on the right, leading into a green farm field under an overcast sky.

Photo No. 22	Date: 6/20/18	
Direction Photo Taken: East		
Photo Taken By: Katie Goff		
Description: Cow pasture		

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Photo No. 23	Date: 6/20/18
Direction Photo Taken: South	
Photo Taken By: Katie Goff	
Description: Roadside ditch near cow pasture	

A photograph showing a roadside ditch filled with tall green grass and weeds. A large, dark, cylindrical object, possibly a culvert or pipe, is visible in the ditch. The ditch runs alongside a paved road that curves to the right. In the background, there is a grassy field, a line of trees, and a cloudy sky. A utility pole is visible on the right side of the road.

Photo No. 24	Date: 6/20/18
Direction Photo Taken: Northeast	
Photo Taken By: Katie Goff	
Description: Pasture area near the north side of the property	



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Photo No. 25	Date: 6/20/18
Direction Photo Taken: Southwest	
Photo Taken By: Katie Goff	
Description: WL-3, DP-15	

A photograph of a muddy, rutted field. In the foreground, there's a line of water reflecting the sky, with dark, muddy tracks running through it. To the left, there's a patch of green grass. In the background, there's a dense line of trees under a cloudy sky.

Photo No. 26	Date: 6/20/18
Direction Photo Taken: Southwest	
Photo Taken By: Katie Goff	
Description: WL-3, DP-36	

A photograph of a dark, muddy field, likely a construction or agricultural site. The soil is dark brown/black and shows numerous tire tracks and ruts. In the foreground, a white pipe or rod is stuck into the ground, secured with a red tie. The background features a line of green trees and a small white building under a cloudy sky.

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Photo No. 27	Date: 6/20/18	
Direction Photo Taken: Northeast		
Photo Taken By: Katie Goff		
Description: WL-3, DP-17		


Photo No. 28	Date: 6/20/18
Direction Photo Taken: East	
Photo Taken By: Katie Goff	
Description: DP-18	

A photograph of a field with a survey marker. The field is covered in green vegetation, likely corn plants. In the foreground, a black survey pole with a red flag is visible. The background shows a line of trees and utility poles under a cloudy sky.

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Photo No. 29	Date: 6/20/18
Direction Photo Taken: North	
Photo Taken By: Katie Goff	
Description: Rock pile in cow pasture	


A photograph of a rock pile in a cow pasture. The rock pile is a low, circular structure made of large, flat stones, situated in the middle ground. It is surrounded by a dense line of trees with green foliage. The foreground is a grassy field with some yellow wildflowers. The background shows a clear sky and a distant horizon.

Photo No. 30	Date: 6/20/18	
Direction Photo Taken: Northeast		
Photo Taken By: Katie Goff		
Description: WL-3		

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Photo No. 31	Date: 6/20/18
Direction Photo Taken: East	
Photo Taken By: Katie Goff	
Description: DP-19, WL-3	

A photograph of a wooded area with many trees and a ground covered in fallen leaves. A small pink flag is visible in the foreground. The forest floor is densely covered with brown, fallen leaves. Several thin tree trunks are visible, some standing upright and others leaning. A small pink flag is attached to a thin stick in the foreground, pointing towards the left. The background is filled with more trees and foliage, creating a dense forest scene.

Photo No. 32	Date: 6/20/18	
Direction Photo Taken: East		
Photo Taken By: Katie Goff		
Description: DP-22, WL-3		

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Photo No. 33	Date: 6/20/18
Direction Photo Taken: Northeast	
Photo Taken By: Katie Goff	
Description: WL-3	


A photograph showing a large, flat, muddy area, possibly a wetland or a construction site. The foreground is dominated by dark, silty water and exposed mudflats. In the background, there are green fields, trees, and a small building. The sky is overcast.

Photo No. 34	Date: 6/20/18
Direction Photo Taken: West	
Photo Taken By: Katie Goff	
Description: Excavated area within WL-3	


A photograph showing a narrow, man-made ditch or canal. The water is dark and still, reflecting the overcast sky and the surrounding greenery. The ditch is bordered on the left by a flat, green field with some patches of brown soil. On the right, there is a dense line of trees and bushes, with some bare branches visible in the foreground. The overall scene is a rural or agricultural landscape.

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Photo No. 35	Date: 6/20/18
Direction Photo Taken: North	
Photo Taken By: Katie Goff	
Description: DP-20, WL-3	

A photograph showing a grassy bank next to a body of water. The bank is covered in tall, green grass and some weeds. A pink survey flag is visible in the grass. The water is dark and still. In the background, there are trees and a cloudy sky. The foreground shows some dry grass and soil.

Photo No. 36	Date: 6/20/18
Direction Photo Taken: East	
Photo Taken By: Katie Goff	
Description: DP-21, WL-3	

A photograph of a large field of young green plants in rows. A pink survey flag is visible in the middle ground. The plants are arranged in long, straight rows that recede into the distance. The soil is dark brown. In the background, there are trees and a building under a cloudy sky. A black bag is visible in the foreground.

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Photo No. 37	Date: 6/20/18
Direction Photo Taken: East	
Photo Taken By: Katie Goff	
Description: WL-3, open water area, DP-23	

A photograph of a wetland area. In the foreground, there is a small, calm pond reflecting the sky and surrounding greenery. The pond is surrounded by dense, lush green vegetation, including tall grasses and shrubs. In the background, there are more trees and a cloudy sky. The overall scene is a natural, open water area with a lot of greenery.

Photo No. 38	Date: 6/20/18
Direction Photo Taken: East	
Photo Taken By: Katie Goff	
Description: WL-3, open water area	

A photograph of a wetland area. In the foreground, there is a small, calm pond reflecting the sky and surrounding vegetation. Several large, fallen tree trunks and branches are partially submerged in the water. The pond is surrounded by dense green grass and other wetland plants. In the background, there is a line of trees under a cloudy sky.



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Photo No. 39	Date: 6/20/18
Direction Photo Taken: Northeast	
Photo Taken By: Katie Goff	
Description: DP-24, WL-3	

A photograph of a field of tall green grass with yellow seed heads. A survey marker, consisting of a metal rod with a red ribbon tied around it, is visible in the foreground. The background shows a line of trees under a cloudy sky.

Photo No. 40	Date: 6/20/18	
Direction Photo Taken: Northeast		
Photo Taken By: Katie Goff		
Description: DP-26, WL-3		

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Photo No. 41	Date: 6/20/18	
Direction Photo Taken: Northeast		
Photo Taken By: Katie Goff		
Description: DP-27		

Photo No. 42	Date: 6/20/18	
Direction Photo Taken: Southeast		
Photo Taken By: Katie Goff		
Description: View of WL-4, from a distance		

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Photo No. 43	Date: 6/20/18	
Direction Photo Taken: South		
Photo Taken By: Katie Goff		
Description: View of in-field drainage swale		

Photo No. 44	Date: 6/20/18
Direction Photo Taken: Northeast	
Photo Taken By: Katie Goff	
Description: DP-31	

A photograph of a large, open field with green grass and some bare soil. In the background, there are trees and a small building. The field appears to be a mix of grass and bare earth, possibly a field being prepared for planting or a field with sparse vegetation. The sky is overcast.

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Photo No. 45	Date: 6/20/18
Direction Photo Taken: Northwest	
Photo Taken By: Katie Goff	
Description: DP-32	

A photograph of a field with rows of young green plants in a field. A small red flag is visible in the middle of the rows. The background shows a line of trees and a cloudy sky.

Photo No. 46	Date: 6/20/18
Direction Photo Taken: Southeast	
Photo Taken By: Katie Goff	
Description: EF-1 northwest of WL-1	

A photograph showing a field of young green plants in rows, likely corn, under a cloudy sky. The plants are in the foreground, and the background shows a line of trees and a cloudy sky. The field is divided into sections by rows of plants, with some areas appearing more overgrown or weedy than others. The overall scene is a rural landscape.

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Photo No. 47	Date: 6/20/18	
Direction Photo Taken: Southeast		
Photo Taken By: Katie Goff		
Description: Upland prairie on the west side of the property looking toward WL-1		

Photo No. 48	Date: 6/20/18
Direction Photo Taken: East	
Photo Taken By: Katie Goff	
Description: DP-33	

A photograph of a field of tall green grass with white flowers. A surveying tool with a pink ribbon is visible in the foreground. The field is dense with tall green grass and small white flowers. In the foreground, a surveying tool with a pink ribbon is visible. The background shows a line of trees under a cloudy sky.



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Photo No. 49	Date: 6/20/18
Direction Photo Taken: South	
Photo Taken By: Katie Goff	
Description: Culvert outlet area near County Road A	


A photograph showing a dirt road on the left, a grassy area in the middle, and a large green field on the right. In the background, there are trees, utility poles, and a water tower under a cloudy sky.

Photo No. 50	Date: 6/20/18
Direction Photo Taken: Southeast	
Photo Taken By: Katie Goff	
Description: Culvert on northeast side of property beneath County Road A	

A photograph showing a corrugated metal culvert pipe that has been installed at an angle, discharging into a small, dark pond. The area is overgrown with tall green grass. In the background, there is a gravel lot, a large white industrial building with a white door, and a smaller building with a grey roof. The sky is overcast.

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Photo No. 51	Date: 6/20/18
Direction Photo Taken: Northeast	
Photo Taken By: Katie Goff	
Description: Corn field on the east side of the property	

A wide-angle photograph of a lush green cornfield. The corn plants are in the foreground, showing their characteristic long, pointed leaves. The field extends to a distant horizon line where a line of trees is visible. The sky is overcast with soft, grey clouds, suggesting a late afternoon or early morning setting. The overall color palette is dominated by the vibrant green of the corn and the muted tones of the sky and distant trees.

Photo No. 52	Date: 6/20/18
Direction Photo Taken: North	
Photo Taken By: Katie Goff	
Description: East property boundary	

A photograph showing the edge of a cornfield. The corn plants are on the left, and a dense line of trees and bushes forms the boundary on the right. The sky is overcast.

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Photo No. 53	Date: 6/20/18	
Direction Photo Taken: North		
Photo Taken By: Katie Goff		
Description: Wooded upland area west of WL-1		

Photo No. 54	Date: 6/20/18	
Direction Photo Taken: South		
Photo Taken By: Katie Goff		
Description: Northern portion of WL-1		

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Photo No. 55	Date: 6/20/18	
Direction Photo Taken: Southeast		
Photo Taken By: Katie Goff		
Description: WL-4, DP-28		

Photo No. 56	Date: 6/20/18
Direction Photo Taken: East	
Photo Taken By: Katie Goff	
Description: DP-25	

A photograph of a large agricultural field with numerous rows of young green plants, likely soybeans, planted in dark brown soil. The rows are straight and extend far into the distance, creating a strong sense of perspective. In the middle ground, a small metal marker with a red ribbon is stuck in the soil between two rows. The background shows a flat horizon with some trees and utility poles under a cloudy sky.

Appendix F
Request for Corps JD

Appendix 1 - REQUEST FOR CORPS JURISDICTIONAL DETERMINATION (JD)

To: St. Paul District

- I am requesting a JD on property located at: US Highway 151, County Highway A, County Highway W, and Hemlock Road
(Street Address)
City/Township/Parish: Beaver Dam County: Dodge State: WI
Acreage of Parcel/Review Area for JD: _____
Section: 9, 10, 15, 16 Township: 12 N Range: 14 E
Latitude (decimal degrees): 43.5023619 Longitude (decimal degrees): -88.8255038
(For linear projects, please include the center point of the proposed alignment.)
- Please attach a survey/plat map and vicinity map identifying location and review area for the JD.
- ☐ I currently own this property. ☐ I plan to purchase this property.
☒ I am an agent/consultant acting on behalf of the requestor.
☐ Other (please explain): _____
- Reason for request: (check as many as applicable)
☐ I intend to construct/develop a project or perform activities on this parcel which would be designed to avoid all aquatic resources.
☐ I intend to construct/develop a project or perform activities on this parcel which would be designed to avoid all jurisdictional aquatic resources under Corps authority.
☒ I intend to construct/develop a project or perform activities on this parcel which may require authorization from the Corps, and the JD would be used to avoid and minimize impacts to jurisdictional aquatic resources and as an initial step in a future permitting process.
☐ I intend to construct/develop a project or perform activities on this parcel which may require authorization from the Corps; this request is accompanied by my permit application and the JD is to be used in the permitting process.
☐ I intend to construct/develop a project or perform activities in a navigable water of the U.S. which is included on the district Section 10 list and/or is subject to the ebb and flow of the tide.
☒ A Corps JD is required in order to obtain my local/state authorization.
☒ I intend to contest jurisdiction over a particular aquatic resource and request the Corps confirm that jurisdiction does/does not exist over the aquatic resource on the parcel.
☐ I believe that the site may be comprised entirely of dry land.
☐ Other: _____
- Type of determination being requested:
☒ I am requesting an approved JD.
☐ I am requesting a preliminary JD.
☐ I am requesting a "no permit required" letter as I believe my proposed activity is not regulated.
☐ I am unclear as to which JD I would like to request and require additional information to inform my decision.

By signing below, you are indicating that you have the authority, or are acting as the duly authorized agent of a person or entity with such authority, to and do hereby grant Corps personnel right of entry to legally access the site if needed to perform the JD. Your signature shall be an affirmation that you possess the requisite property rights to request a JD on the subject property.

*Signature:  Date: 8/2/18

- Typed or printed name: Eva Moritz
Company name: Foth Infrastructure & Environment
Address: 8191 Birchwood Court, Suite L
Johnston, IA 50131
Daytime phone no.: 515-251-2524
Email address: eva.moritz@foth.com

***Authorities:** Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Marine Protection, Research, and Sanctuaries Act, Section 103, 33 USC 1413; Regulatory Program of the U.S. Army Corps of Engineers; Final Rule for 33 CFR Parts 320-332.

Principal Purpose: The information that you provide will be used in evaluating your request to determine whether there are any aquatic resources within the project area subject to federal jurisdiction under the regulatory authorities referenced above.

Routine Uses: This information may be shared with the Department of Justice and other federal, state, and local government agencies, and the public, and may be made available as part of a public notice as required by federal law. Your name and property location where federal jurisdiction is to be determined will be included in the approved jurisdictional determination (AJD), which will be made available to the public on the District's website and on the Headquarters USACE website.

Disclosure: Submission of requested information is voluntary; however, if information is not provided, the request for an AJD cannot be evaluated nor can an AJD be issued.

Appendix G
WDNR Wetland Delineation Confirmation Request Checklist

WETLAND DELINEATION CONFIRMATION REQUEST CHECK LIST

WDNR WETLAND IDENTIFICATION PROGRAM

The following is the preferred order for all information provided in wetland delineation reports submitted for wetland confirmation. All of the following must be included with all wetland delineation reports that are submitted for confirmation:

- X Introductory Section
 - Why the delineation was undertaken
 - Date the field work was completed
 - Who conducted field work
 - Qualifications

- X Methods used during the wetland delineation
 - Description of methods
 - Sources Reviewed (WWI mapping, Soil Survey, etc.)
 - Description of any site specific agency guidance (site meetings, etc.)

- X Results and Discussion
 - Antecedent hydrologic condition analysis
 - Previous wetland delineation mapping
 - Existing environmental mapping (WWI mapping, Soil survey, etc.)
 - Amount and types of wetland located within the project area
 - Discussion explaining how the wetland/upland boundary was differentiated
 - Disturbed and problematic areas encountered during the delineation
 - Other water resources located in the project area (navigable streams, etc.)

- X Topographic mapping
 - Map scale
 - Clearly identified project area
 - A north arrow

- X WWI mapping
 - Map scale
 - Clearly identified project area
 - A north arrow

- X Soil Survey mapping
 - Map scale
 - Clearly identified project area
 - A north arrow

- X Wetland Delineation Map
 - Map scale
 - Clearly identified project area
 - A north arrow
 - Accurate depiction of wetland boundaries and data points identified during the field investigation

- X Complete, legible wetland delineation data forms from the appropriate regional supplement
- X Site photos
- X Any previous delineation information
- X Areas that are currently, or were recently (less than three years prior to the delineation) under agricultural production must include a Farm Service Agency Slide Review. All FSA Slide Reviews should include the following:
- Copies or photos of slides if available
 - A completed wetland documentation form (NRCS form NRCS-CPA-32W)
 - A copy of the draft NRCS Wetland Inventory map if available
- X Literature Cited

Please include this completed checklist with all wetland delineation report submittals.