135 South 84th Street
Suite 400
Milwaukee, WI 53214T
+1.414.272.2426
www.jacobs.com

September 27, 2018

Mr. Josh Brown
Wisconsin Department of Natural Resources
101 S Webster Street
Madison, WI 53703

Subject: Wetland Compensatory Mitigation In Lieu Fee Purchase for the Wisconn Valley Science and Technology Park – Phase I Project, Parcels 409 and 413

Dear Mr. Brown:

On behalf of SIO International Wisconsin, Inc. (SIO), CH2M HILL Engineers, Inc. (now Jacobs), submits this proposal to purchase Wisconsin Wetland Conservation Trust In Lieu Fee (ILF) credits to satisfy wetland impacts for 0.25 acres of additional wetlands within the footprint of the Wisconn Valley Science and Technology Park – Phase I Project (the Project) located in the Village of Mount Pleasant, Wisconsin. This Project is located in a new electronics and information technology manufacturing zone as created by 2017 Wisconsin Act 58 (the Act).

When the previous ILF request was submitted on April 16, 2018, it was known that additional parcels would be acquired and need to be reviewed for wetland presence at a later date. Since that time, parcels 409 and 413 have come under ownership. Subsequently, two wetlands were identified on these parcels. This additional request and following payment will satisfy WDNR requirements for the impacts that will occur to these wetlands.

As indicated in the Act, wetland mitigation will be completed at a 2:1 ratio. Based on surveys completed on the site, we believe that Table 1 accurately summarizes the In Lieu Fee that is required.

Table 1. Parcels 409 & 413 Wetland Summary

ILF Watershed	Impact area (acres)	Price per credit	Ratio	Total Credits Required	Total fee
SW Lake Michigan	0.25	$62,000	2:1	0.5	$31,000

per 2017 fee schedule: https://dnr.wi.gov/topic/Wetlands/documents/mitigation/WWCTAnnualReportFY2017.pdf

This proposal and its accompanying documents have been the subject of several prior meetings with the Department. The Project area is currently largely in agricultural land use with some isolated wetlands as are shown in the following accompanying documents:

- Mitigation Summary Worksheet
- Exhibit A, Wetland Delineation Map – Foxconn – Parcels 409 & 413 Prairie View Drive Village of Mount Pleasant, Wisconsin
- The *Wetland and Waterway Delineation Report* prepared by TRC Environmental Corporation (dated September 19, 2018) is included in this submittal

Should you have any questions on this proposal, please feel free to contact me at 414-847-0209 or michelle.hackett@jacobs.com.

Respectfully Submitted,

Michelle Hackett

Permitting Specialist

Mitigation Summary Worksheet

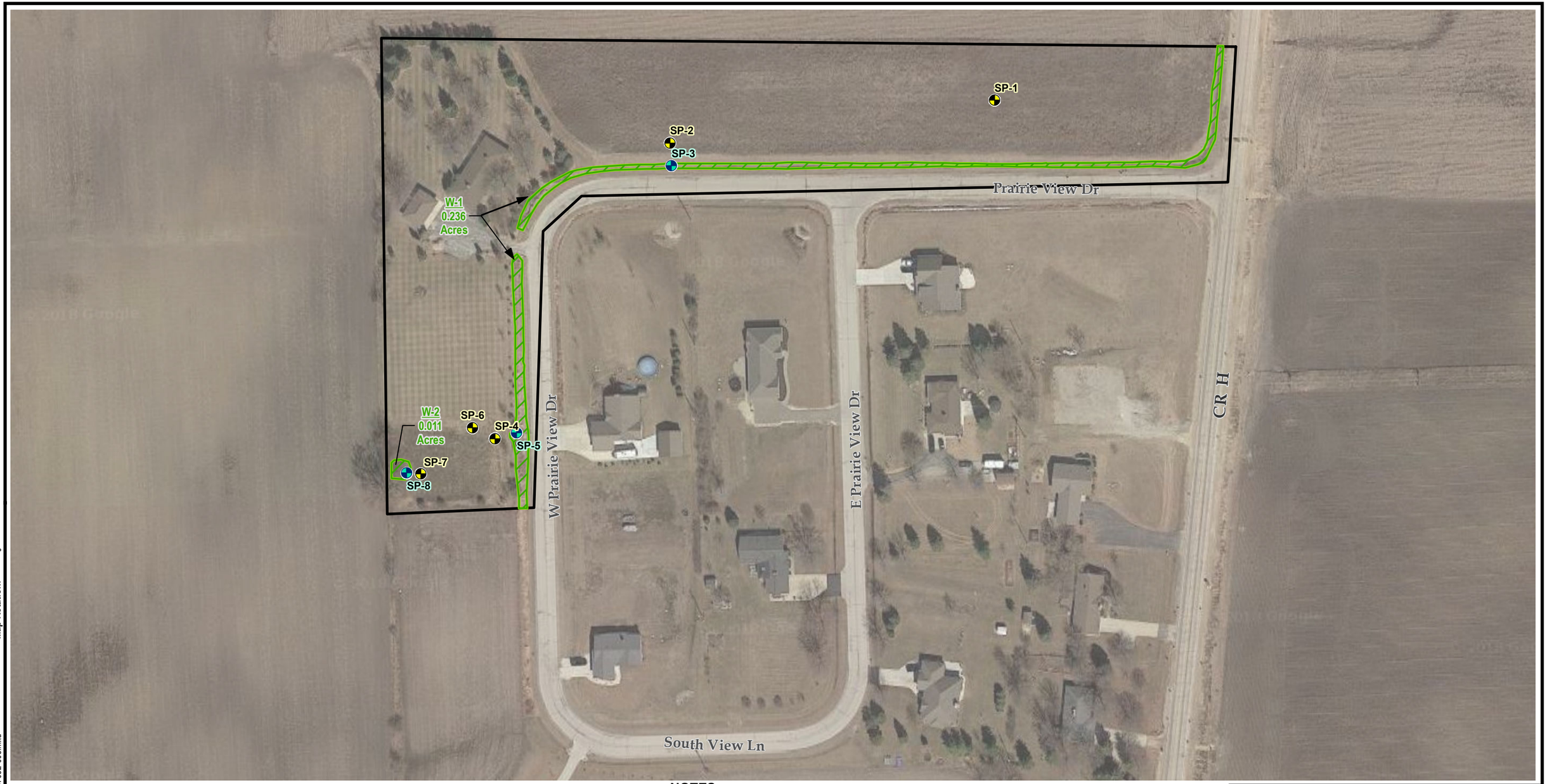
Preliminary mitigation summary sheet	X	Final mitigation summary sheet

CONTACT INFORMATION	APPLICANT	AUTHORIZED REPRESENTATIVE
Name (Last, First, Middle Initial)	Hong, Yong-Ching "Tiger"	Hackett, Michelle G.
Title	Senior Consultant	Permitting Specialist
Organization / Entity	SIO International Wisconsin, Inc.	Jacobs
Mailing Address	13315 Globe Drive,	135 South 84th Street Suite 400
City, State, Zip Code	Mount Pleasant, WI 53177	Milwaukee, WI 53214
Email Address	tiger.yq.hong@foxconn.com	Michelle.Hackett@jacobs.com
Phone Number (incl. Area Code)	949-231-7028	414-847-0209

PROJECT INFORMATION	
Project Name	Wisconn Valley Science and Technology Park – Phase I, Parcels 409 & 413
Mitigation Service Area	Southwestern Lake Michigan
Latitude Longitude Coordinates	42°40'25.17"N, 87°55'1.29"W
Municipality Location (City, Village, Town)	Mt. Pleasant
Township Range Section	T3N, R22E, S32
County Location	Racine
Project Description (including description of wetland impact)	Land development including site grading. See cover letter for more details.

PROPOSED UNAVOIDABLE WETLAND IMPACTS BY COVER TYPE AND DELINEATED ACREAGE	
Acreage (to nearest 0.01)	**Wetland Cover Type**
SW Lake Michigan total 0.25	
	Shallow, Open Water
0.11	Deep and Shallow Marshes
	Sedge Meadows
0.14	Fresh (Wet) Meadow
	Wet to Wet Mesic Prairie
	Calcareous Fens
	Bogs (Open or Coniferous)
	Shrub – Carr or Alder Thicket
	Hardwood or Coniferous Swamps
	Floodplain Forests
	Seasonally Flooded Basins
	Total per basin

CHECK SELECTION	PROPOSED COMPENSATORY MITIGATION	EXPLAIN WHY TYPE WAS CHOSEN / LIST CONTACTED PARTY	EXPLAIN WHETHER CREDITS ARE AVAILABLE
	Credit Purchase: Mitigation Bank		
X	Credit Purchase: WI Wetland Conservation Trust (In Lieu Fee)	SIO did not have access to all parcels at the time of initial submittal on April 16, 2018. Consistent with the prior submittal, the applicant has elected to use the ILF option. Contacts: Josh Brown, Eric Ebersberger	Credits are available.
	Permittee Responsible Mitigation		



LEGEND

- STUDY AREA
- UPLAND SAMPLE POINT
- WETLAND SAMPLE POINT
- TRC DELINEATED WETLAND

NOTES

1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO AND PARTNERS, APRIL 2017.

0 120 240 Feet

1 " = 120 '
1:1,440

PROJECT:
FOXCONN - PARCELS 409 & 413
PRAIRIE VIEW DRIVE
VILLAGE OF MOUNT PLEASANT, WISCONSIN

TITLE:
WETLAND DELINEATION MAP

DRAWN BY:	A. REIS	PROJ. NO.:	307032
CHECKED BY:	R. LONDRE		
APPROVED BY:	R. LONDRE		**EXHIBIT A**
DATE:	SEPTEMBER 2018		

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

FILE NO.: 307032-005.mxd

Plot Date: 9/19/2018, 10:12:41 AM by AREIS -- LAYOUT: ANSI B(11"x17")
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Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
Map Rotation: 0

TRC - GIS

Wetland and Waterway Delineation Report

August 3, 2018
Revised September 19, 2018

TRC Project No. 307032-0000-0000

Foxconn – Parcels 409 & 413

Prairie View Drive
Mount Pleasant, Wisconsin

Prepared For:

The Sigma Group, Inc.
1300 West Canal Street
Milwaukee, WI 53233

Prepared By:

Ron Londré, PWS
WDNR Assured Wetland Delineator
TRC Environmental Corporation
150 N. Patrick Blvd., Suite 180
Brookfield, WI 53045

TABLE OF CONTENTS

TABLES

APPENDICES

1.0 Introduction

On behalf of The Sigma Group and Foxconn, TRC Environmental Corporation (TRC) conducted a wetland and waterway delineation within a designated Study Area at Parcels 409 & 413 on Prairie View Drive in the Village of Mount Pleasant, Wisconsin (Figure 1, Appendix A). The Study Area is approximately 6.2 acres and located in part of Section 32, Township 3 North, Range 22 East.

Contact Information:
Ken Kaszubowski
The Sigma Group, Inc.
1300 West Canal Street
Milwaukee, WI 53233
kkaszubowski@thesigmagroup.com
414-940-3964

The purpose of this wetland and waterway delineation was to determine the current location and extent of wetlands and waterways within a designated Study Area for purposes of the Foxconn development. Our study is presented here in terms of methodology, results, and conclusions.

The wetland and waterway delineation field investigation was conducted by TRC scientist Ron Londré, PWS on July 25 and 26, 2018. Ron Londré was the lead investigator and is the author of this report.

1.1 Statement of Qualifications

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

Mr. Ron Londré, PWS, WDNR Assured Wetland Delineator, is a Senior Ecologist at TRC with over twelve years of professional experience in wetland ecology. He is certified by the Society of Wetland Scientists Professional Certification Program as a Professional Wetland Scientist (PWS # 2436) and is certified by the Ecological Society of America as a Senior Ecologist. His academic studies, from which he earned M.S. and B.S. Degrees in Biological Science, focused on plant community ecology and restoration ecology. Mr. Londré has completed the following wetland delineation technical training workshops provided by UW-La Crosse: Advanced Wetland Delineation; Basic Wetland Delineation; Critical Methods in Wetland Delineation; Hydric Soils; and Grasses, Sedges, and Rushes. Additionally, he has completed the Regional Supplement Seminar and Field Practicum training provided by the Wetland Training Institute and the Wetland Delineation Training Workshop provided by the University of Wisconsin-Milwaukee. Mr. Londré is a part of the Wetland Delineation Professional Assurance Initiative of the Wisconsin Department of Natural Resources (WDNR). This means his work is assured for purposes of State of Wisconsin wetland delineations.

1.2 Agency Regulatory Authority

The wetlands and/or waterways identified in this report may be subject to federal regulation under the jurisdiction of the U.S. Army Corps of Engineers (USACE), state regulation under the jurisdiction of Wisconsin Department of Natural Resources (WDNR), and local jurisdiction under county, town, city, or village.

2.0 Methods

This wetland and waterway delineation was conducted in accordance with the guidelines of the 1987 Corps of Engineers Wetland Delineation Manual (Environmental Laboratory, 1987) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0, 2010) and in general accordance with Wisconsin Department of Natural Resources guidelines. National Wetland Indicator status and taxonomic nomenclature is referenced from The National Wetland Plant List (Lichvar et al., 2016). National Wetland Indicator status is based on the Midwest Region. Indicators of hydric soil are based on the Field Indicators of Hydric Soils in the United States guide Version 8.1 (Vasilas et. al., 2017). This report has also been prepared in accordance with the guidelines set forth in the "Guidance for Submittal of Delineation Reports to the St. Paul District Corps of Engineers and the Wisconsin Department of Natural Resources" document issued March 4, 2015.

2.1 Off-Site Review

Prior to conducting fieldwork, several maps were reviewed including the United States Geological Survey (USGS) 7.5' Quadrangle maps, Natural Resource Conservation Service (NRCS) Soil Survey Map, Wisconsin Wetland Inventory (WWI) Map, and aerial photographs. These sources were used to identify areas likely to contain wetlands and waterways.

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

An aerial imagery and Farm Service Agency (FSA) crop slide review was conducted for agricultural areas having been farmed within recent years (typically the last 3-5 years). The review was conducted using the guidelines described in the Hydrology Tools for Wetland Determination, Engineering Field Handbook, Chapter 19 (USDA Natural Resources Conservation Service, 1997). Interpretation of the aerial imagery and labels for signatures is also based in part on the guidance provided in the "Guidance for Offsite Hydrology/Wetland Determinations)" U.S. Army Corps of Engineers and Minnesota Board of Water & Soil Resources July 1, 2016 guidance document.

2.2 On-Site Field Investigation

Areas having wetland indicators within the Study Area were evaluated in the field by TRC wetland scientist Ron Londré on July 25 and 26, 2018. Sample points were located in areas exhibiting wetland and upland characteristics to document the presence and/or absence of wetlands and to provide support for the delineated wetland boundaries. At each sample point, data were collected to document

the vegetation and hydrophytic vegetation indicators, soil profile and hydric soil indicators, and wetland hydrology indicators.

Plant species were identified at each sample point and their wetland indicator status; obligate wetland (OBL), facultative wetland (FACW), facultative (FAC), facultative upland (FACU), or upland (UPL); was determined by referencing The National Wetland Plant List (Lichvar et al., 2016). Soil pits were dug to the depth needed to document a hydric soil indicator or confirm the absence of indicators. Soil color was determined using a Munsell soil color chart. The sample point plots and soil pits were evaluated for presence of wetland hydrology indicators.

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

3.0 Results

3.1 Off-Site Review

The County 2-Foot Contour Map (Appendix A, Figure 2) shows elevations ranging from 718 to 736 above sea level. Based on mapped topography runoff water would be expected to flow towards the east.

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

Table 1 Mapped Soils

Map Unit Symbol	Soil Series Name	Drainage Class	Hydric Rating	% of Study Area
VaB	Varna silt loam, 2 to 6 percent slopes	Well drained	0	16.16
EtB	Elliott silty clay loam, 2 to 6 percent slopes	Somewhat poorly drained	5	16.55
AtA	Ashkum silty clay loam, 0 to 2 percent slopes	Poorly drained	97	67.20

The Wisconsin Wetland Inventory (WWI) map (Appendix A, Figure 4) depicts no wetlands within the Study Area.

A review of aerial imagery from 2000, 2005, 2010, 2015, and 2017 (Appendix A, Figures 5-9) shows the Study Area as having a single family residential home, turf grass yard with ornamental tree and shrub plantings surrounding the home, and agricultural fields.

An aerial imagery and Farm Service Agency (FSA) crop slide review was conducted to evaluate areas within the Study Area that have recently been farmed. Aerial images and crop slides ranging from 1980-2017 were examined by Ron Londré on July 25, 2018. All images and slides reviewed, and review forms

are included in Appendix B. Based on a preliminary review, two locations (Area A and Area B) were selected for a more in-depth review.

Area A displayed wetness signatures on none of the years with normal climate conditions preceding the date of the imagery. Additionally, the wetness signature in this area is visible 9% (3 out of 32) of all of the years reviewed regardless of antecedent precipitation.

Area B displayed wetness signatures in 20% (3 of 15) of the years with normal climate conditions preceding the date of the imagery. Additionally, the wetness signature in this area is visible 13% (4 out of 32) of all of the years reviewed regardless of antecedent precipitation.

Prior to conducting the field visit, antecedent precipitation data were analyzed. Data were obtained from a nearby weather station (RACINE (WI) USC00476922) and compared to data from a nearby WETS station (RACINE (WI) USC00476922). The most recent measurable rainfall event prior to the site visit was 0.06 inches, which occurred on July 22, 2018. Precipitation for the 14 days prior to the site visit was 2.05 inches. The precipitation data for the 90 day period prior to the field visit (Appendix C, Table 2) were entered into a WETS analysis worksheet (Appendix C, Table 3) to weight the information from each preceding month to analyze hydrologic conditions. Based on this analysis, the antecedent hydrologic conditions were considered to be above a normal range, suggesting that climatic/hydrologic conditions were not normal for this time of year.

3.2 On-Site Field Investigation

3.2.1 Site Description

The Study Area is comprised of a residential home surrounded by turf grass and ornamental tree and shrub plantings. There are two fields that were historically farmed but appeared to have been allowed to go fallow in 2018, and were not cultivated this season. Ruderal forbs and grasses were established in these fields with 100 percent vegetated ground cover, the majority of which were non-hydrophytes.

There were areas of disturbed (atypical) conditions. The areas with planted turf grass was considered disturbed (atypical) and this was not considered to be a normal circumstance. There were no locations in the planted turf grass suspect of containing wetlands, and therefore no written data collected.

Contrary to the results of the WETS analysis, which suggested wetter than normal conditions, the soil was observed to be dry throughout the Study Area. Soils displayed desiccation cracks and needed to be moistened to determine color. There were no locations where saturation was observed within the upper 24” of the soil surface nor was a water table observed. The field investigation was conducted during the dry season and it was assumed the evaporation and evapotranspiration had occurred at a far greater rate than precipitation in the weeks prior to the site visit.

In general, most of the areas mapped as having Ashkum silty clay loam contained hydric soil indicators. The hydric soils are assumed to be drained hydric soils because the fallow fields and lawn did not contain sufficiently high abundances of hydrophytic vegetation nor were indicators of wetland hydrology present. Other observational evidence to support the hydric soils being drained are strong signatures of a drain tile system in adjacent fields on aerial imagery, a drain tile outlet in the roadside ditch within the Study Area, the general absence of redox features in the upper 10 inches of the soil surface

(agricultural till layer), and some locations that contained redox concretions, which exhibited sharp boundaries and smooth surfaces (indications of relict redox).

3.2.2 Uplands

Upland plant communities observed in the Study Area included lawn and fallow fields with ruderal plants. Sample point SP-1 is located in an area that corresponds with the crop slide review Area A and is also located in the WWI mapped (purple) wetland indicator soil. Data was conducted in this location to document wetland absence. Sample point SP-6 is located where a patch of *Hordeum jubatum* was observed in the fallow field to document wetland absence. The remaining upland sample points discussed below were paired with wetland sample points to document the delineated wetland boundaries.

3.2.3 Wetlands

Two wetlands (W-1 and W-2) were delineated. The delineated wetland boundaries and sample points are shown on a map (Exhibit A) in Appendix D. Data were collected and recorded on Wetland Determination Data Forms at eight sample points to document wetland and upland locations (Appendix E). Photographs were taken at sample points and are appended to each data form.

Wetland W-1 (Fresh (Wet) Meadow, Shallow Marsh)

Wetland W-1 is approximately 0.236 acres within the Study Area and consists of Fresh (Wet) Meadow and Shallow Marsh plant communities. Wetland W-1 was contained in a roadside ditch and extended beyond the Study Area in the ditches along Prairie View Drive. Two wetland sample points (SP-3 and SP-5) were taken within W-1 and two upland sample points (SP-2 and SP-4) were taken in adjacent upland areas.

Dominant vegetation at the wetland sample points included *Phalaris arundinacea* (reed canary grass) and *Typha X glauca* (hybrid cattail). Wetland hydrology indicators observed at the wetland sample points included Oxidized Rhizospheres on Living Roots (C3), Geomorphic Position (D1), and a positive FAC-Neutral Test (D5). Hydrology generally appeared to be sustained from runoff water from the surrounding landscape and from the adjacent roadway. Hydric soil indicators observed at the wetland sample points included Depleted Below Dark Surface (A11), Depleted Matrix (F3), and Redox Dark Surface (F6).

The boundary of wetland W-1 was based on the boundary between hydrophytic and non-hydrophytic vegetation and the boundary between the presence and absence of wetland hydrology indicators. Hydric soil indicators generally extended beyond the delineated wetland boundaries but were assumed to be drained hydric soil. Additionally, the distinct form of the ditch was used to help determine the wetland boundary.

Wetland W-2 (Fresh (Wet) Meadow)

Wetland W-2 is approximately 0.011 acres within the Study Area and consists of Fresh (Wet) Meadow but also contained a few trees and shrubs along the property line between the fallow field within the Study Area and the adjacent agricultural field. Wetland W-2 appears to have formed in a shallow

depression where water would drain from the adjacent field, be perched above a compact clay layer, and move slowly through the soil. One wetland sample point (SP-8) was taken within W-2 and one upland sample point (SP-7) was taken in an adjacent upland area.

Dominant vegetation at the wetland sample point included *Acer saccharinum* (silver maple), *Rhamnus cathartica* (common buckthorn), and *Poa compressa* (Canada bluegrass). Wetland hydrology indicators observed at the wetland sample point in included Geomorphic Position (D1) and a positive FAC-Neutral Test (D5). Hydrology generally appeared to be sustained from runoff water from the surrounding landscape. Hydric soil indicators observed at the wetland sample point included Redox Dark Surface (F6).

The boundary of wetland W-2 was based on the boundary between hydrophytic and non-hydrophytic vegetation and the boundary between the presence and absence of wetland hydrology indicators. Hydric soil indicators generally extended beyond the delineated wetland boundaries but were assumed to be drained hydric soil.

3.2.4 Other Aquatic Resources

No other aquatic resources were observed within the Study Area.

3.2.5 Professional Opinion on Wetland Susceptibility Per NR 151

Table 4 in Appendix F lists a professional opinion on wetland susceptibility, based on a request by the WDNR, to do so per revised NR 151 guidance (Guidance #3800-2015-02). Please note that the final determination of wetland susceptibility rests with the WDNR.

4.0 Conclusions

Based on the wetland delineation completed by TRC, two wetlands (W-1 and W-2) were delineated totaling 0.25 acres of wetlands within the 6.2-acre Study Area. No other aquatic resources were observed within the Study Area.

Wetlands and other aquatic resources delineated and identified in this report are a professional finding based on current regulatory guidelines published by the USACE and WDNR at the time the resources were delineated. Unknown and future conditions that affect observations of field indicators or change in interpretation of regulatory policy or methods may modify future findings.

The ultimate authority to determine the location of the wetland boundary and jurisdictional authority over the wetlands and other aquatic resources identified in this report resides with the USACE and WDNR. Decisions made by staff of these regulatory agencies may result in modifications to the location of the wetland or other aquatic resource boundaries shown in this report. In addition, the USACE and WDNR have jurisdictional authority to determine which features are exempt from regulation or non-jurisdictional. If the client proposes to modify a potentially exempt or non-jurisdictional feature, a WDNR Artificial Determination Exemption and USACE Approved Jurisdictional Determination (AJD) would be needed. Furthermore, municipalities, townships and counties may have local zoning authority over certain areas or types of wetlands and waterways. The determination that a wetland or waterway is subject to regulatory jurisdiction is made independently by the agencies.

Any activity in a delineated wetland or below the Ordinary High Water Mark of other aquatic resources may require USACE and WDNR permits, and local government permits. If the Client proceeds to change, modify or utilize the property in question without obtaining authorization from the appropriate regulatory agency, it will be done at the Client's own risk and TRC Environmental Corporation shall not be responsible or liable for any resulting damages.

5.0 References

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USDA Natural Resources Conservation Service Web Soil Survey (Web Address: http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx)

USDA NRCS Climate Analysis by County Web Site (WETS). (Web Address: http://www.wcc.nrcs.usda.gov/climate/wetlands.html)

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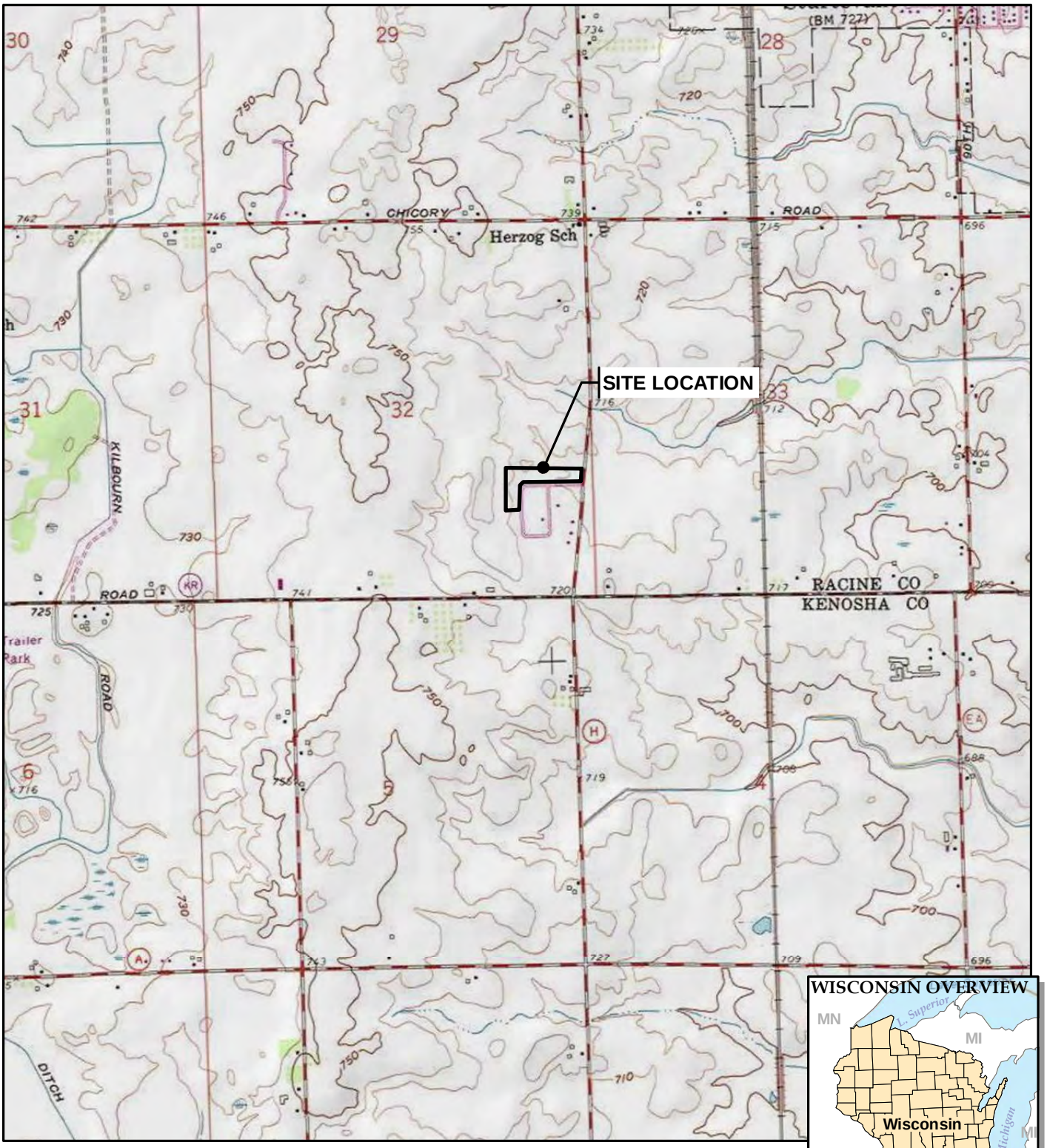
Appendix A: Figures



BASE MAP FROM USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE SERIES.

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FEET

TRC

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

TRC - GIS

PROJECT:

FOXCONN -- PARCELS 409 & 413
PRAIRIE VIEW DRIVE
VILLAGE OF MOUNT PLEASANT, WISCONSIN

TITLE:

SITE LOCATION MAP

DRAWN BY:	A. REIS
CHECKED BY:	R. LONDRE
APPROVED BY:	R. LONDRE
DATE:	AUGUST 2018
PROJ. NO.:	307032
FILE:	307032-001-SLM.mxd

FIGURE 1

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LEGEND

- STUDY AREA
- 2' CONTOUR INTERVAL

NOTES

1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO AND PARTNERS, APRIL 2017.
2. CONTOURS DERIVED FROM RACINE COUNTY, 2010 LIDAR DERIVED 2' CONTOURS.

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1 " = 120 '

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PROJECT:

FOXCONN - PARCELS 409 & 413
PRAIRIE VIEW DRIVE
VILLAGE OF MOUNT PLEASANT, WISCONSIN

TITLE:

CONTOUR MAP

DRAWN BY:	A. REIS	PROJ. NO.:	307032
CHECKED BY:	R. LONDRE		
APPROVED BY:	R. LONDRE		**FIGURE 2**
DATE:	AUGUST 2018		

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

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TRC - GIS

TRC - GIS

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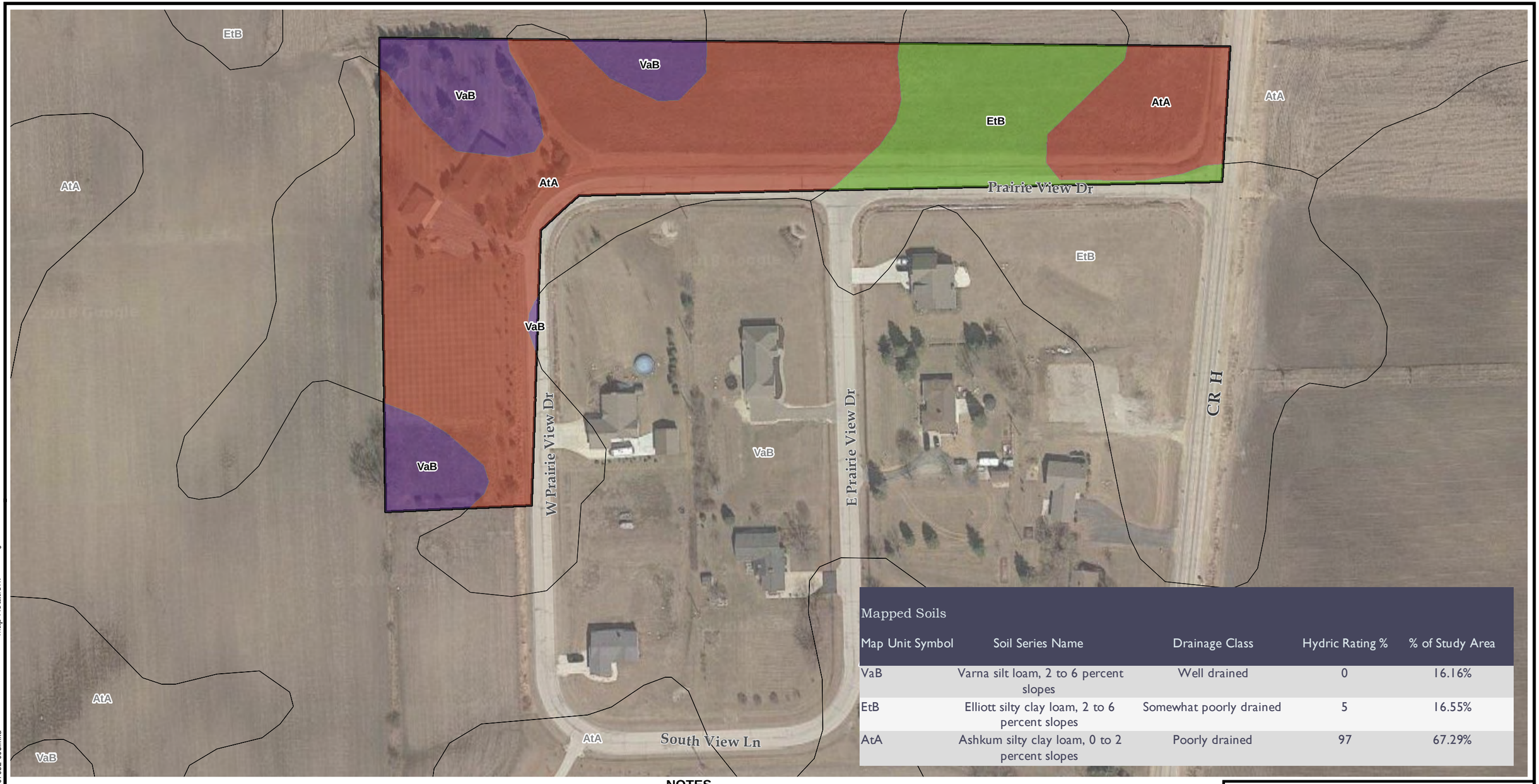

Mapped Soils

Map Unit Symbol	Soil Series Name	Drainage Class	Hydric Rating %	% of Study Area
VaB	Varna silt loam, 2 to 6 percent slopes	Well drained	0	16.16%
EtB	Elliott silty clay loam, 2 to 6 percent slopes	Somewhat poorly drained	5	16.55%
AtA	Ashkum silty clay loam, 0 to 2 percent slopes	Poorly drained	97	67.29%

LEGEND

- STUDY AREA
- ATA - ASHKUM SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES
- ETB - ELLIOTT SILTY CLAY LOAM, 2 TO 6 PERCENT SLOPES
- VAB - VARNA SILT LOAM, 2 TO 6 PERCENT SLOPES

NOTES

1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO AND PARTNERS, APRIL 2017.
2. SOILS FROM USDA/NRCS SSURGO SOILS DATABASE .

N

0 120 240 Feet

1 " = 120 '
1:1,440

PROJECT:
FOXCONN - PARCELS 409 & 413
PRAIRIE VIEW DRIVE
VILLAGE OF MOUNT PLEASANT, WISCONSIN

TITLE:
NRCS SOILS MAP

DRAWN BY:	A. REIS	PROJ. NO.:	307032
CHECKED BY:	R. LONDRE		
APPROVED BY:	R. LONDRE		**FIGURE 3**
DATE:	AUGUST 2018		

TRC
150 North Patrick Blvd., Suite 180
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Phone: 262.879.1212
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FILE NO.: 307032-003.mxd

LEGEND

- STUDY AREA
- WISCONSIN WETLAND INVENTORY (WWI) WETLANDS

NOTES

1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO AND PARTNERS, APRIL 2017.
2. WISCONSIN WETLANDS INVENTORY (WWI) DATA ACQUIRED FROM WISCONSIN DNR, WETLANDS MAPPER.
3. NO WWI WITHIN MAP EXTENT.

N

0 120 240 Feet

1 " = 120 '

1:1,440

PROJECT:

FOXCONN - PARCELS 409 & 413
PRAIRIE VIEW DRIVE
VILLAGE OF MOUNT PLEASANT, WISCONSIN

TITLE:

WISCONSIN WETLAND INVENTORY

DRAWN BY:	A. REIS	PROJ. NO.:	307032
CHECKED BY:	R. LONDRE		
APPROVED BY:	R. LONDRE		**FIGURE 4**
DATE:	AUGUST 2018		

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FILE NO.: 307032-004.mxd

Plot Date: 8/1/2018, 13:06:32 PM by AREIS -- LAYOUT: ANSI B(11"x17")
Path: E:\WetlandsGeneralFlyingEagle\2018_307032\307032\307032-004.mxd
Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
Map Rotation: 0
TRC - GIS

LEGEND

STUDY AREA

NOTES

1. BASE MAP IMAGERY FROM RACINE COUNTY GIS, 2000.

N

0 120 240 Feet

1 " = 120 '

1:1,440

PROJECT:

FOXCONN - PARCELS 409 & 413
PRAIRIE VIEW DRIVE
VILLAGE OF MOUNT PLEASANT, WISCONSIN

TITLE:

2000 AERIAL

DRAWN BY:	A. REIS	PROJ. NO.:	307032
CHECKED BY:	R. LONDRE		
APPROVED BY:	R. LONDRE		**FIGURE 5**
DATE:	AUGUST 2018		

TRC
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FILE NO.: 307032-006-AERIAL.mxd

Plot Date: 8/1/2018, 12:52:15 PM by AREIS -- LAYOUT: ANSI B (11"x17")
Path: E:\WetlandsGeneral\FlyingEagle\2018_307032\307032-006-AERIAL.mxd
Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
Map Rotation: 0
TRC - GIS

LEGEND

STUDY AREA

NOTES

1. BASE MAP IMAGERY FROM RACINE COUNTY GIS, 2005 .

N

0 120 240 Feet

1 " = 120 '

1:1,440

PROJECT:

FOXCONN - PARCELS 409 & 413
PRAIRIE VIEW DRIVE
VILLAGE OF MOUNT PLEASANT, WISCONSIN

TITLE:

2005 AERIAL

DRAWN BY:	A. REIS	PROJ. NO.:	307032
CHECKED BY:	R. LONDRE		
APPROVED BY:	R. LONDRE		**FIGURE 6**
DATE:	AUGUST 2018		

TRC

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FILE NO.: 307032-007-AERIAL.mxd

Plot Date: 8/1/2018, 12:53:25 PM by AREIS -- LAYOUT: ANSI B (11"x17")
Path: E:\WetlandsGeneral\FlyingEagle\2018_307032\307032-007-AERIAL.mxd
Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
Map Rotation: 0
TRC - GIS

LEGEND

STUDY AREA

NOTES

1. BASE MAP IMAGERY FROM RACINE COUNTY GIS, 2010 .

0 120 240 Feet

1 " = 120 '

1:1,440

PROJECT:

FOXCONN - PARCELS 409 & 413
PRAIRIE VIEW DRIVE
VILLAGE OF MOUNT PLEASANT, WISCONSIN

TITLE:

2010 AERIAL

DRAWN BY:	A. REIS	PROJ. NO.:	307032
CHECKED BY:	R. LONDRE		
APPROVED BY:	R. LONDRE		**FIGURE 7**
DATE:	AUGUST 2018		

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Phone: 262.879.1212
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FILE NO.: 307032-008-AERIAL.mxd

Plot Date: 8/1/2018, 12:55:07 PM by AREIS - - LAYOUT: ANSI B(11"x17")
Path: E:\Wetlands\General\FlyingEagle\2018_307032\307032-008-AERIAL.mxd

Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
Map Rotation: 0

TRC - GIS

LEGEND

STUDY AREA

NOTES

1. BASE MAP IMAGERY FROM RACINE COUNTY GIS, 2015 .

0 120 240 Feet

1 " = 120 '

1:1,440

PROJECT:

FOXCONN - PARCELS 409 & 413
PRAIRIE VIEW DRIVE
VILLAGE OF MOUNT PLEASANT, WISCONSIN

TITLE:

2015 AERIAL

DRAWN BY:	A. REIS	PROJ. NO.:	307032
CHECKED BY:	R. LONDRE		
APPROVED BY:	R. LONDRE		**FIGURE 8**
DATE:	AUGUST 2018		

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FILE NO.: 307032-009-AERIAL.mxd

Plot Date: 8/1/2018, 12:56:24 PM by AREIS -- LAYOUT: ANSI B(11"x17")
Path: E:\WetlandsGeneral\FlyingEagle\2018_307032\307032-009-AERIAL.mxd

Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
Map Rotation: 0

TRC - GIS

LEGEND

STUDY AREA

NOTES

1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO AND PARTNERS, APRIL 2017.

0 120 240 Feet

1 " = 120 '

1:1,440

PROJECT:

FOXCONN - PARCELS 409 & 413
PRAIRIE VIEW DRIVE
VILLAGE OF MOUNT PLEASANT, WISCONSIN

TITLE:

2017 AERIAL

DRAWN BY:	A. REIS	PROJ. NO.:	307032
CHECKED BY:	R. LONDRE		
APPROVED BY:	R. LONDRE		**FIGURE 9**
DATE:	AUGUST 2018		

TRC
150 North Patrick Blvd., Suite 180
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Phone: 262.879.1212
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FILE NO.: 307032-010-AERIAL.mxd

Plot Date: 8/1/2018, 12:57:41 PM by AREIS -- LAYOUT: ANSI B(11"x17")
Path: E:\WetlandsGeneralFlyingEagle\2018_307032\307032-010-AERIAL.mxd

Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
Map Rotation: 0

TRC - GIS

Appendix B:
Antecedent Precipitation Data / WETS Analysis

Table 2. Antecedent Precipitation Data					
April 27, 2018 -July 25, 2018					
Precipitation Data Source Location RACINE (WI) USC00476922					
3rd Month Prior		**2nd Month Prior**		**1st Month Prior**	
Date	**PPT**	**Date**	**PPT**	**Date**	**PPT**
4/27/2018	0.01	5/27/2018	0	6/26/2018	0
4/28/2018	0.32	5/28/2018	0	6/27/2018	2.27
4/29/2018	0	5/29/2018	0	6/28/2018	0.01
4/30/2018	0	5/30/2018	T	6/29/2018	0
5/1/2018	0	5/31/2018	0.15	6/30/2018	0
5/2/2018	0	6/1/2018	0	7/1/2018	0
5/3/2018	0.64	6/2/2018	0	7/2/2018	0.06
5/4/2018	0.2	6/3/2018	0.29	7/3/2018	0
5/5/2018	0.01	6/4/2018	0	7/4/2018	0
5/6/2018	T	6/5/2018	0.02	7/5/2018	0.29
5/7/2018	0	6/6/2018	0	7/6/2018	0
5/8/2018	0	6/7/2018	0	7/7/2018	0
5/9/2018	0.1	6/8/2018	0	7/8/2018	0
5/10/2018	0.2	6/9/2018	0.27	7/9/2018	0
5/11/2018	0.19	6/10/2018	0.31	7/10/2018	0
5/12/2018	0.46	6/11/2018	0.34	7/11/2018	0
5/13/2018	0.75	6/12/2018	T	7/12/2018	0
5/14/2018	1.76	6/13/2018	0	7/13/2018	0
5/15/2018	0.36	6/14/2018	T	7/14/2018	0.06
5/16/2018	0	6/15/2018	0	7/15/2018	0.02
5/17/2018	0	6/16/2018	0.93	7/16/2018	0
5/18/2018	0	6/17/2018	0.02	7/17/2018	0.02
5/19/2018	0.27	6/18/2018	0	7/18/2018	0
5/20/2018	0.06	6/19/2018	1.75	7/19/2018	0
5/21/2018	0.64	6/20/2018	0.55	7/20/2018	0.32
5/22/2018	0.82	6/21/2018	0.02	7/21/2018	1.57
5/23/2018	0	6/22/2018	0.15	7/22/2018	0.06
5/24/2018	0	6/23/2018	0.13	7/23/2018	T
5/25/2018	0	6/24/2018	0	7/24/2018	0
5/26/2018	0	6/25/2018	0	7/25/2018	0
Total =	**6.79**	**Total =**	**4.93**	**Total =**	**4.68**

PPT - Precipitation in inches

T - Trace

M - Missing

Table 3. WETS Analysis

Project Site: Parcels 409 & 413
Period of interest: May - July
County: Racine

Long-term rainfall records (from WETS table)

	Month	3 years in 10 less than	Normal	3 years in 10 greater than
1st month prior:	July	2.63	3.57	4.20
2nd month prior:	June	2.24	3.68	4.40
3rd month prior:	May	1.92	3.23	3.92
		Sum =	**10.48**	

Site determination

	Site Rainfall (in)	Condition Dry/Normal*/Wet	Condition** Value	Month Weight	Product
	4.68	Wet	3	3	9
	4.93	Wet	3	2	6
	6.79	Wet	2	1	2
Sum =	**16.40**			Sum*** =	**17**

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

Determinatio

X Wet
Dry
Normal

**Condition value:

Dry = 1
Normal = 2
Wet = 3

***If sum is:

6 to 9	then period has been drier than normal
10 to 14	then period has been normal
15 to 18	then period has been wetter than normal

Precipitation data source: RACINE (WI) USC00476922

WETS Station: RACINE (WI) USC00476922

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

Appendix C:
Aerial Imagery and FSA Crop Slide Review

Hydrology Assessment with Aerial Imagery - Recording Form

Project Name: Parcels 409 & 413	Date: 07/25/2018	County: Racine
Investigator: Ron Londre		

Month / Year	Image Source	Climate Condition (wet, dry, normal)	Image Interpretation (s)			
			Area A	Area B		
04/2017	Google Earth	W	NSS	NV		
06/2015	Google Earth	N	NSS	WS		
04/2014	Google Earth	N	NSS	NSS		
07/2011	Google Earth	D	NV	NSS		
06/2010	Google Earth	N	NV	CS		
06/2008	Google Earth	N	NV	CS		
07/2007	Google Earth	N	NSS	NV		
06/2006	Google Earth	W	SS	NV		
05/2005	Google Earth	D	SS	CS		
07/2002	FSA/USDA	W	SS	NSS		
06/2001	FSA/USDA	N	NSS	NSS		
06/2000	FSA/USDA	W	NSS	NV		
06/1999	FSA/USDA	N	NSS	NSS		
06/1998	FSA/USDA	N	NSS	NSS		
06/1997	FSA/USDA	D	NSS	NV		
08/1996	FSA/USDA	N	NV	NSS		
07/1995	FSA/USDA	N	NV	NV		
07/1994	FSA/USDA	D	NSS	NV		
05/1993	FSA/USDA	W	NV	NSS		
07/1992	FSA/USDA	D	NV	NV		
06/1991	FSA/USDA	W	NSS	NSS		
06/1990	FSA/USDA	W	NSS	NSS		
07/1989	FSA/USDA	D	NSS	NV		
07/1988	FSA/USDA	D	NSS	NV		
07/1987	FSA/USDA	N	NSS	NSS		
07/1986	FSA/USDA	W	NSS	NSS		
07/1985	FSA/USDA	D	NSS	NSS		
07/1984	FSA/USDA	W	NSS	NSS		
08/1983	FSA/USDA	N	NV	NV		
09/1982	FSA/USDA	N	NV	NV		
08/1981	FSA/USDA	N	NV	NV		
07/1980	FSA/USDA	N	NV	NV		

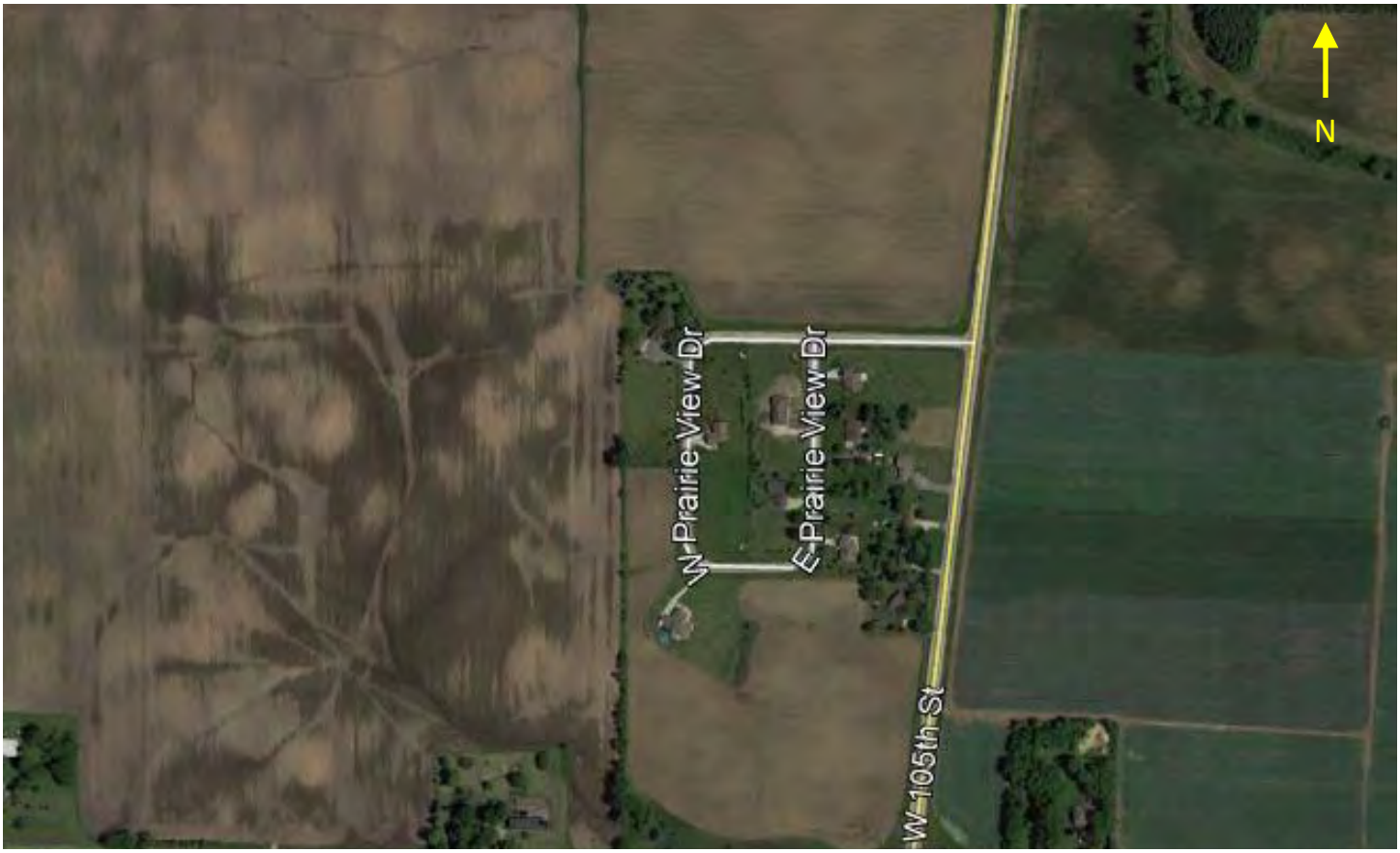
Summary Table	Area A	Area B		
# of Years of imagery reviewed	32	32		
# of years with normal normal PPT	15	15		
# of Normal years with wet signatures	0	3		
% Normal years with wet signatures	0%	20%		
# of All years with wet signatures	3	4		
% of All years with wet signatures	9%	13%		

Use key below to label photo interpretations. It is imperative that the reviewer read and understand the guidance associated with the use of these labels. If alternate labels are used indicate in the box below

WS - wetland signature	AP - altered pattern	Comments:
NC - not cropped	SW - standing water	
DO - drowned out	CS - crop stress	
SS - soil wetness signature	NV - normal healthy crop	
NSS - no soil wetness signature	VV- volunteer vegetation (not planted, naturally establishing, e.g. smartweeds, cattail, wild millet)	

Year: 2017 (wet year)

Year: 2015 (normal year)

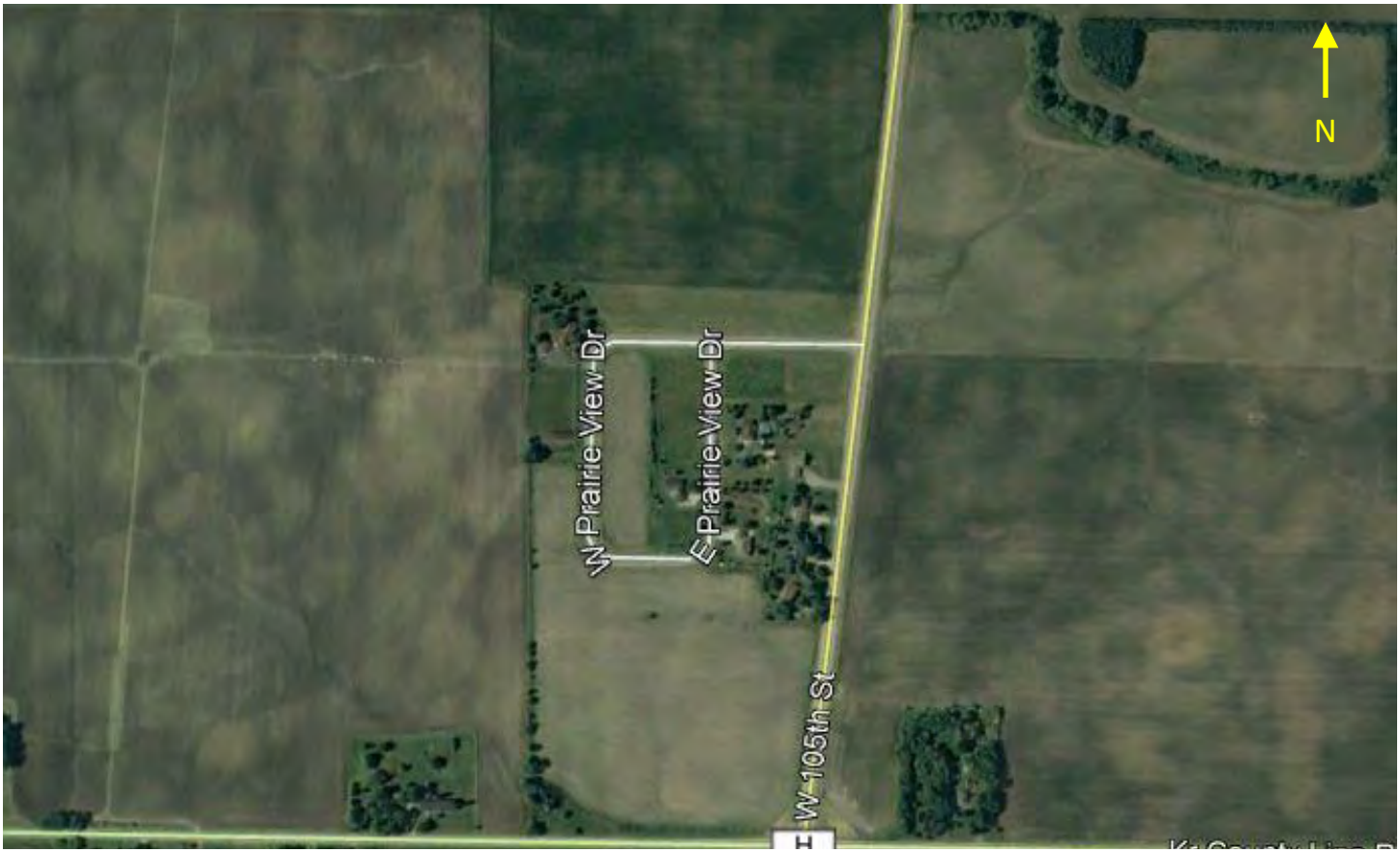


Year: 2014 (normal year)

Year: 2011 (dry year)

Year: 2010 (normal year)

Year: 2008 (normal year)



Year: 2007 (normal year)

Year: 2006 (wet year)

Year: 2005 (dry year)

Year: 2002 (wet year)

Year: 2001 (normal year)

Year: 2000 (wet year)

Year: 1999 (normal year)

Year: 1998 (normal year)

Year: 1997 (dry year)

Year: 1996 (normal year)

Year: 1995 (normal year)

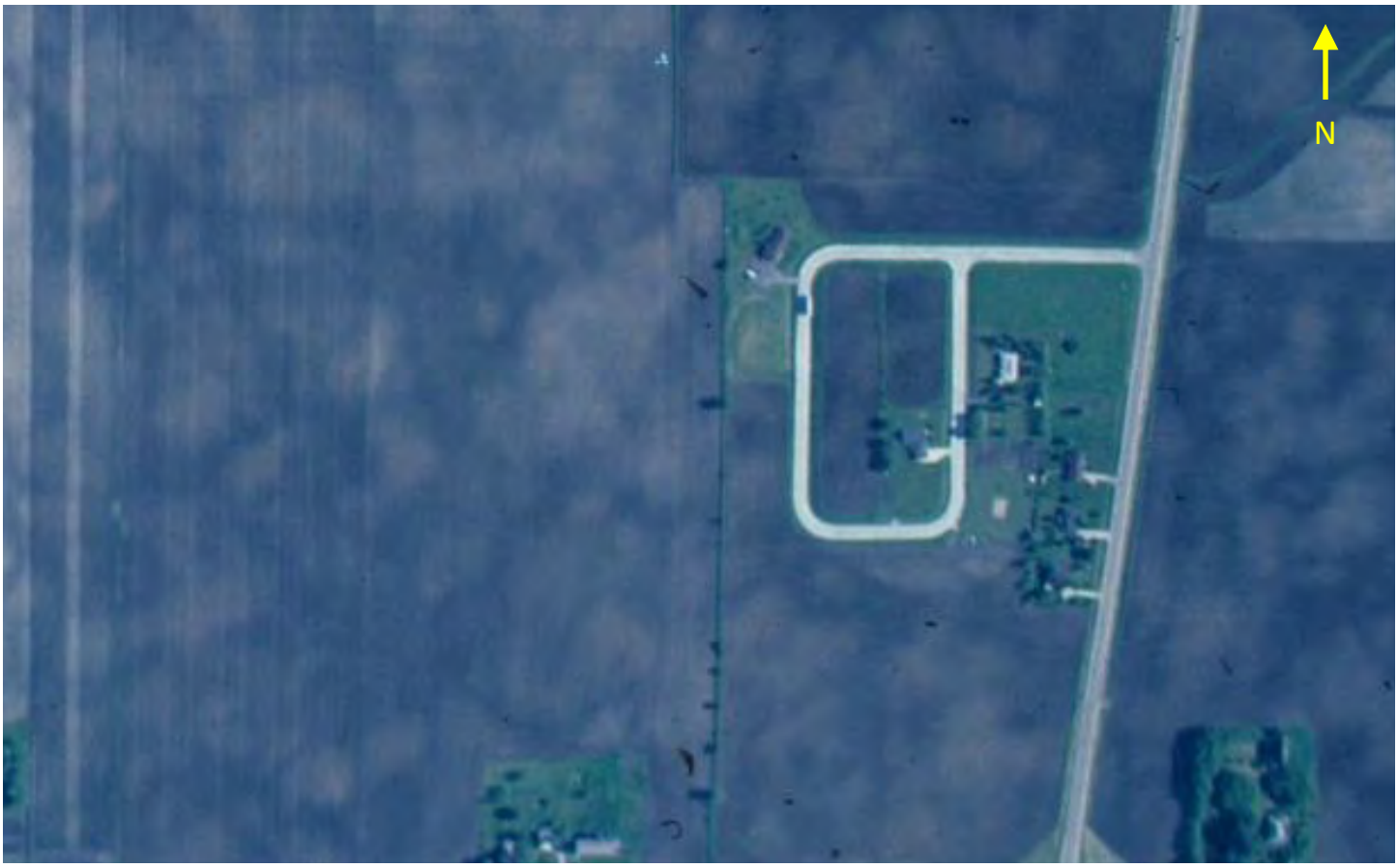
Year: 1994 (dry year)

Year: 1993 (wet year)

Year: 1992 (dry year)

Year: 1991 (wet year)

Year: 1990 (wet year)



Year: 1989 (dry year)

Year: 1988 (dry year)

Year: 1987 (normal year)

Year: 1986 (wet year)

Year: 1985 (dry year)

Year: 1984 (wet year)

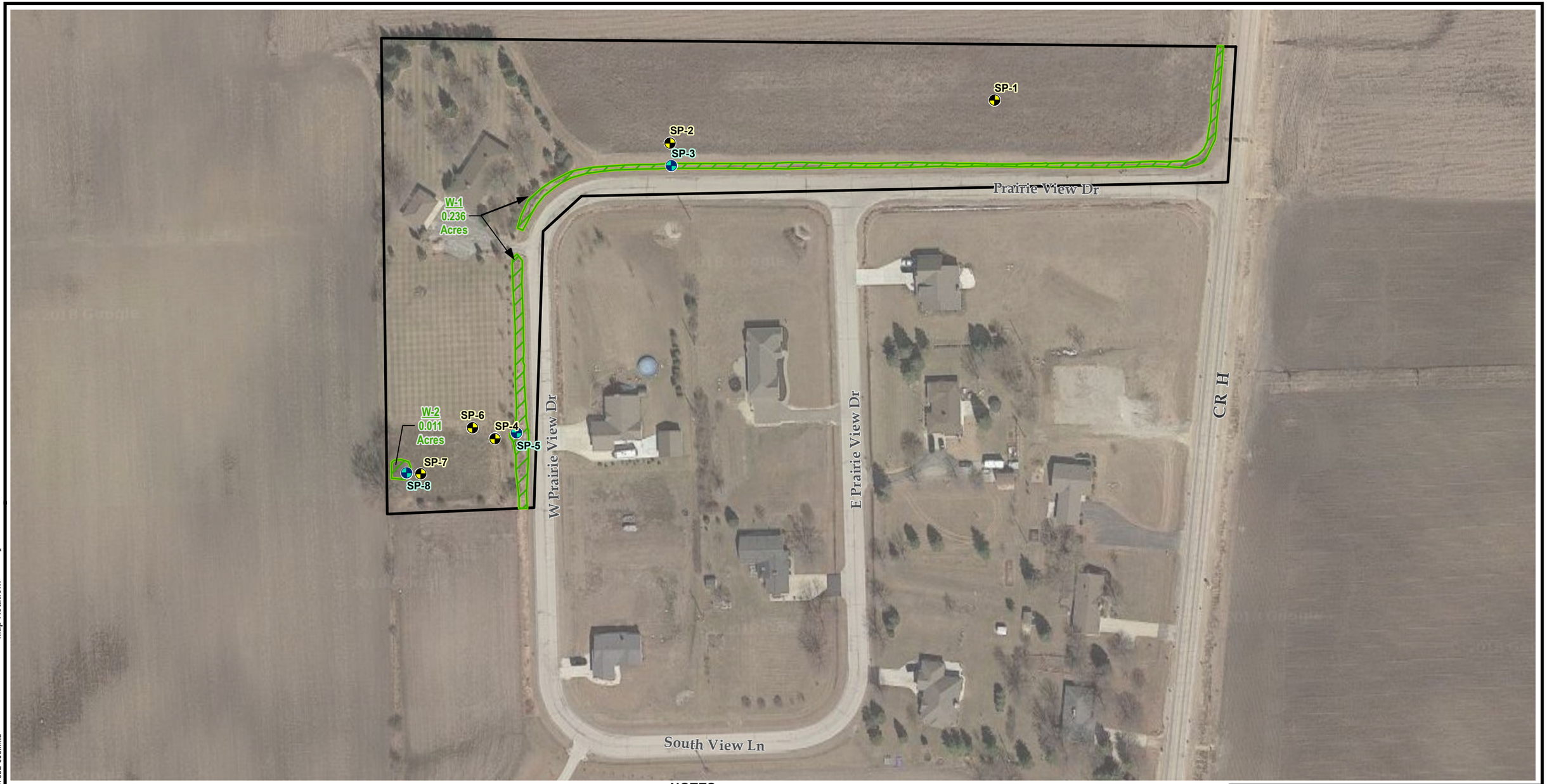
Year: 1983 (normal year)

Year: 1982 (normal year)

Year: 1981 (normal year)

Year: 1980 (normal year)

Appendix D:
Wetland Delineation Map



LEGEND

- STUDY AREA
- UPLAND SAMPLE POINT
- WETLAND SAMPLE POINT
- TRC DELINEATED WETLAND

NOTES

1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO AND PARTNERS, APRIL 2017.

0 120 240 Feet

1 " = 120 '
1:1,440

PROJECT:
FOXCONN - PARCELS 409 & 413
PRAIRIE VIEW DRIVE
VILLAGE OF MOUNT PLEASANT, WISCONSIN

TITLE:
WETLAND DELINEATION MAP

DRAWN BY:	A. REIS	PROJ. NO.:	307032
CHECKED BY:	R. LONDRE		
APPROVED BY:	R. LONDRE		**EXHIBIT A**
DATE:	SEPTEMBER 2018		

TRC
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Phone: 262.879.1212
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FILE NO.: 307032-005.mxd

Plot Date: 9/19/2018, 10:12:41 AM by AREIS -- LAYOUT: ANSI B(11"x17")
Path: E:\WetlandsGeneral\FlyingEagle\2018_307032\307032-005.mxd
Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
Map Rotation: 0

TRC - GIS

Appendix E:
Wetland Determination Data Forms and Site Photographs

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Parcels 409 & 413 **City/County:** Mt. Pleasant , Racine **Sampling Date:** 2018-07-26
Applicant/Owner: Foxconn **State:** **Sampling Point:** SP-01
Investigator(s): Ron Londre **Section, Township, Range:** S32-T03N-R22E
Landform (hillslope, terrace, etc.): Flat plain **Local relief (concave, convex, none):** Flat
Slope (%): 0-1 **Lat:** 42.67391 **Long:** -87.91614 **Datum:** WGS84
Soil Map Unit Name: Elliott silty clay loam, 2 to 6 percent slopes **WWI 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 ____ No ✓	
Hydric Soil Present?	Yes ____ No ✓	
Wetland Hydrology Present?	Yes ____ No ✓	**Is the Sampled Area within a Wetland?** **Yes ____ No ✓**

Remarks:
Based on the absence of all three parameters, this area is an upland. Sample point located in crop slide Area A. Also located in WWI mapped indicator soil (pink & purple layer) to document wetland absence.

VEGETATION -- Use scientific names of plants.

Tree Stratum (Plot size: 30' r)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15' r)			
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Herb Stratum (Plot size: 5' r)			
1. *Trifolium hybridum*	60	Yes	FACU
2. *Symphyotrichum pilosum*	30	Yes	FACU
3. *Trifolium pratense*	25	No	FACU
4. *Ambrosia artemisiifolia*	15	No	FACU
5. *Daucus carota*	15	No	UPL
6. *Erigeron annuus*	5	No	FACU
7. *Solidago canadensis*	5	No	FACU
8. *Symphyotrichum puniceum*	3	No	OBL
9.			
10.			
	158	= Total Cover	

Woody Vine Stratum (Plot size: 30' r)			
1.			
2.			
	0	= 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:	2	(B)
Percent of Dominant Species That Are OBL, FACW, or FAC:	0	(A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply By:	
OBL species	3	x 1 =	3
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	140	x 4 =	560
UPL species	15	x 5 =	75
Column Totals	158	(A)	638 (B)

Prevalence Index = B/A = 4

Hydrophytic Vegetation Indicators:

____ 1- Rapid Test for Hydrophytic Vegetation

____ 2 - Dominance Test is > 50%

____ 3 - Prevalence Index is ≤ 3.0[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? Yes ____ No ✓

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

The criterion for hydrophytic vegetation is not met. Fallow field.

Sampling Point: SP-01

SOIL

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0 - 7	10YR 2/1	100					Clay Loam	
7 - 9	10YR 5/3	68	10YR 5/6	2	C	M		
7 - 9	10YR 2/1	30						Mixed
9 - 13	10YR 4/3	95	10YR 5/6	5	C	M	Clay	
13 - 24	10YR 5/2	90	10YR 5/6	10	C	M		

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]Location: PL = Pore Lining, M = Matrix.

Hydric Soil Indicators:

____ Histosol (A1)
____ Histic Epipedon (A2)
____ Black Histic (A3)
____ Hydrogen Sulfide (A4)
____ Stratified Layers (A5)
____ 2 cm Muck (A10)
____ Depleted Below Dark Surface (A11)
____ Thick Dark Surface (A12)
____ Sandy Mucky Mineral (S1)
____ 5 cm Mucky Peat or Peat (S3)
____ Sandy Gleyed Matrix (S4)
____ Sandy Redox (S5)
____ Stripped Matrix (S6)
____ Loamy Mucky Mineral (F1)
____ Loamy Gleyed Matrix (F2)
____ Depleted Matrix (F3)
____ Redox Dark Surface (F6)
____ Depleted Dark Surface (F7)
____ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

____ Coast Prairie Redox (A16)
____ Dark Surface (S7)
____ Iron-Manganese Masses (F12)
____ Very Shallow Dark Surface (TF12)
____ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: None
Depth (inches):

Hydric Soil Present? Yes ____ No __✓

Remarks:

The criterion for hydric soil is not met. Some soil mixing potentially from historical agricultural activities.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

____ Surface Water (A1)
____ High Water Table (A2)
____ Saturation (A3)
____ Water Marks (B1)
____ Sediment Deposits (B2)
____ Drift Deposits (B3)
____ Algal Mat or Crust (B4)
____ Iron Deposits (B5)
____ Inundation Visible on Aerial Imagery (B7)
____ Sparsely Vegetated Concave Surface (B8)
____ Water-Stained Leaves (B9)
____ Aquatic Fauna (B13)
____ True Aquatic Plants (B14)
____ Hydrogen Sulfide Odor (C1)
____ Oxidized Rhizospheres on Living Roots (C3)
____ Presence of Reduced Iron (C4)
____ Recent Iron Reduction in Tilled Soils (C6)
____ Thin Muck Surface (C7)
____ Gauge or Well Data (D9)
____ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

____ Surface Soil Cracks (B6)
____ Drainage Patterns (B10)
____ Dry-Season Water Table (C2)
____ Crayfish Burrows (C8)
____ Saturation Visible on Aerial Imagery (C9)
____ Stunted or Stressed Plants (D1)
____ Geomorphic Position (D2)
____ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ____ No __✓ Depth (inches):
Water Table Present? Yes ____ No __✓ Depth (inches):
Saturation Present? Depth (inches):
(includes capillary fringe) Yes ____ No __✓

Wetland Hydrology Present? Yes ____ No __✓

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

USGS topo map, contour map, NRCS soils map, WWI map, aerial imagery, WETS Analysis

Remarks:

The criterion for wetland hydrology is not met. Based on WETS analysis, antecedent hydrologic conditions are wetter than normal.

Photo of Sample Plot

North

East

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Parcels 409 & 413 **City/County:** Mt. Pleasant, Racine **Sampling Date:** 2018-07-26
Applicant/Owner: Foxconn **State:** **Sampling Point:** SP-02
Investigator(s): Ron Londre **Section, Township, Range:** S32-T03N-R22E
Landform (hillslope, terrace, etc.): Flat plain **Local relief (concave, convex, none):** Flat
Slope (%): 0-1 **Lat:** 42.67372 **Long:** -87.91752 **Datum:** WGS84
Soil Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes **WWI 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 ____ No ✓		
Hydric Soil Present?	Yes ✓ No ____		
Wetland Hydrology Present?	Yes ____ No ✓	**Is the Sampled Area within a Wetland?**	**Yes ____ No ✓**

RReemmaarrkkss::

Based on the absence of two of three parameters, this area is an upland.

VEGETATION -- Use scientific names of plants.

Tree Stratum (Plot size: 30' r)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15' r)			
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Herb Stratum (Plot size: 5' r)			
1. *Daucus carota*	50	Yes	UPL
2. *Trifolium pratense*	40	Yes	FACU
3. *Bromus inermis*	30	No	FACU
4. *Asclepias syriaca*	5	No	FACU
5. *Ambrosia artemisiifolia*	5	No	FACU
6. *Cirsium arvense*	5	No	FACU
7. *Melilotus officinalis*	5	No	FACU
8. *Phalaris arundinacea*	5	No	FACW
9. *Vitis riparia*	5	No	FACW
10. *Erigeron annuus*	3	No	FACU
	153	= Total Cover	

Woody Vine Stratum (Plot size: 30' r)			
1.			
2.			
	0	= 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:	2	(B)
Percent of Dominant Species That Are OBL, FACW, or FAC:	0	(A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply By:	
OBL species	0	x 1 =	0
FACW species	10	x 2 =	20
FAC species	0	x 3 =	0
FACU species	93	x 4 =	372
UPL species	50	x 5 =	250
Column Totals	153	(A)	642 (B)

Prevalence Index = B/A = 4.2

Hydrophytic Vegetation Indicators:

____ 1- Rapid Test for Hydrophytic Vegetation

____ 2 - Dominance Test is > 50%

____ 3 - Prevalence Index is ≤ 3.0[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? Yes ____ No ✓

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

The criterion for hydrophytic vegetation is not met. Fallow field.

Sampling Point: SP-02

SOIL

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0 - 11	10YR 2/1	100					Clay Loam	
11 - 14	10YR 2/1	98	10YR 5/8	2	C	M	Clay Loam	
14 - 24	10YR 5/2	95	10YR 5/6	5	C	M	Clay	

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]Location: PL = Pore Lining, M = Matrix.

Hydric Soil Indicators:

____ Histosol (A1)
____ Histic Epipedon (A2)
____ Black Histic (A3)
____ Hydrogen Sulfide (A4)
____ Stratified Layers (A5)
____ 2 cm Muck (A10)
____ Depleted Below Dark Surface (A11)
__✓__ Thick Dark Surface (A12)
____ Sandy Mucky Mineral (S1)
____ 5 cm Mucky Peat or Peat (S3)
____ Sandy Gleyed Matrix (S4)
____ Sandy Redox (S5)
____ Stripped Matrix (S6)
____ Loamy Mucky Mineral (F1)
____ Loamy Gleyed Matrix (F2)
____ Depleted Matrix (F3)
____ Redox Dark Surface (F6)
____ Depleted Dark Surface (F7)
____ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

____ Coast Prairie Redox (A16)
____ Dark Surface (S7)
____ Iron-Manganese Masses (F12)
____ Very Shallow Dark Surface (TF12)
____ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: None
Depth (inches):

Hydric Soil Present? Yes __✓__ No ____

Remarks:

The criterion for hydric soil is met.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

____ Surface Water (A1)
____ High Water Table (A2)
____ Saturation (A3)
____ Water Marks (B1)
____ Sediment Deposits (B2)
____ Drift Deposits (B3)
____ Algal Mat or Crust (B4)
____ Iron Deposits (B5)
____ Inundation Visible on Aerial Imagery (B7)
____ Sparsely Vegetated Concave Surface (B8)
____ Water-Stained Leaves (B9)
____ Aquatic Fauna (B13)
____ True Aquatic Plants (B14)
____ Hydrogen Sulfide Odor (C1)
____ Oxidized Rhizospheres on Living Roots (C3)
____ Presence of Reduced Iron (C4)
____ Recent Iron Reduction in Tilled Soils (C6)
____ Thin Muck Surface (C7)
____ Gauge or Well Data (D9)
____ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

____ Surface Soil Cracks (B6)
____ Drainage Patterns (B10)
____ Dry-Season Water Table (C2)
____ Crayfish Burrows (C8)
____ Saturation Visible on Aerial Imagery (C9)
____ Stunted or Stressed Plants (D1)
____ Geomorphic Position (D2)
____ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ____ No __✓__ Depth (inches):
Water Table Present? Yes ____ No __✓__ Depth (inches):
Saturation Present? Depth (inches):
(includes capillary fringe) Yes ____ No __✓__

Wetland Hydrology Present? Yes ____ No __✓__

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

USGS topo map, contour map, NRCS soils map, WWI map, aerial imagery, WETS Analysis

Remarks:

The criterion for wetland hydrology is not met. Based on WETS analysis, antecedent hydrologic conditions are wetter than normal.

Photo of Sample Plot

West

South

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Parcels 409 & 413 **City/County:** Mt. Pleasant, Racine **Sampling Date:** 2018-07-26
Applicant/Owner: Foxconn **State:** **Sampling Point:** SP-03
Investigator(s): Ron Londre **Section, Township, Range:** S32-T03N-R22E
Landform (hillslope, terrace, etc.): Toe slope, ditch **Local relief (concave, convex, none):** Concave
Slope (%): 1-3 **Lat:** 42.67366 **Long:** -87.91749 **Datum:** WGS84
Soil Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes **WWI 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 ✓ No ____		
Hydric Soil Present?	Yes ✓ No ____		
Wetland Hydrology Present?	Yes ✓ No ____	**Is the Sampled Area within a Wetland?**	**Yes ✓ No ____**

RReemmaarrkkss::

Based on the presence of all three parameters, this area is a wetland. Sample point is located in a roadside ditch. Wetland ID: W-1

VEGETATION -- Use scientific names of plants.

Tree Stratum (Plot size: 4' x 700')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Sapling/Shrub Stratum (Plot size: 4' x 175')			
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Herb Stratum (Plot size: 4' x 20')			
1. *Phalaris arundinacea*	100	Yes	FACW
2. *Poa pratensis*	20	No	FAC
3. *Festuca rubra*	5	No	FACU
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	125	= Total Cover	

Woody Vine Stratum (Plot size: 4' x 700')			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC:	1	(A)
Total Number of Dominant Species Across All Strata:	1	(B)
Percent of Dominant Species That Are OBL, FACW, or FAC:	100	(A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply By:	
OBL species	0	x 1 =	0
FACW species	100	x 2 =	200
FAC species	20	x 3 =	60
FACU species	5	x 4 =	20
UPL species	0	x 5 =	0
Column Totals	125	(A)	280 (B)

Prevalence Index = B/A = 2.2

Hydrophytic Vegetation Indicators:

✓ 1- Rapid Test for Hydrophytic Vegetation

✓ 2 - Dominance Test is >50%

✓ 3 - Prevalence Index is ≤ 3.0[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? Yes ✓ No ____

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

The criterion for hydrophytic vegetation is met. Fresh (Wet) Meadow plant community.

Sampling Point: SP-03

SOIL

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0 - 7	10YR 2/1	95	7.5YR 5/6	5	C	M/PL	Clay Loam	
7 - 13	10YR 5/2	80	10YR 5/6	20	C	M	Clay	
13 - 21	10YR 5/1	75	7.5YR 4/6	25	C	M	Silty Clay	

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]Location: PL = Pore Lining, M = Matrix.

Hydric Soil Indicators:

____ Histosol (A1)
____ Histic Epipedon (A2)
____ Black Histic (A3)
____ Hydrogen Sulfide (A4)
____ Stratified Layers (A5)
____ 2 cm Muck (A10)
__✓__ Depleted Below Dark Surface (A11)
____ Thick Dark Surface (A12)
____ Sandy Mucky Mineral (S1)
____ 5 cm Mucky Peat or Peat (S3)
____ Sandy Gleyed Matrix (S4)
____ Sandy Redox (S5)
____ Stripped Matrix (S6)
____ Loamy Mucky Mineral (F1)
____ Loamy Gleyed Matrix (F2)
__✓__ Depleted Matrix (F3)
__✓__ Redox Dark Surface (F6)
____ Depleted Dark Surface (F7)
____ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

____ Coast Prairie Redox (A16)
____ Dark Surface (S7)
____ Iron-Manganese Masses (F12)
____ Very Shallow Dark Surface (TF12)
____ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: None
Depth (inches):

Hydric Soil Present? Yes __✓__ No ____

Remarks:

The criterion for hydric soil is met.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

____ Surface Water (A1)
____ High Water Table (A2)
____ Saturation (A3)
____ Water Marks (B1)
____ Sediment Deposits (B2)
____ Drift Deposits (B3)
____ Algal Mat or Crust (B4)
____ Iron Deposits (B5)
____ Inundation Visible on Aerial Imagery (B7)
____ Sparsely Vegetated Concave Surface (B8)
____ Water-Stained Leaves (B9)
____ Aquatic Fauna (B13)
____ True Aquatic Plants (B14)
____ Hydrogen Sulfide Odor (C1)
__✓__ Oxidized Rhizospheres on Living Roots (C3)
____ Presence of Reduced Iron (C4)
____ Recent Iron Reduction in Tilled Soils (C6)
____ Thin Muck Surface (C7)
____ Gauge or Well Data (D9)
____ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

____ Surface Soil Cracks (B6)
____ Drainage Patterns (B10)
____ Dry-Season Water Table (C2)
____ Crayfish Burrows (C8)
____ Saturation Visible on Aerial Imagery (C9)
____ Stunted or Stressed Plants (D1)
__✓__ Geomorphic Position (D2)
__✓__ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ____ No ____ Depth (inches): ____
Water Table Present? Yes ____ No ____ Depth (inches): ____
Saturation Present? (includes capillary fringe) Yes ____ No ____ Depth (inches): ____

Wetland Hydrology Present? Yes __✓__ No ____

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

USGS topo map, contour map, NRCS soils map, WWI map, aerial imagery, WETS Analysis

Remarks:

The criterion for wetland hydrology is met. Based on WETS analysis, antecedent hydrologic conditions are wetter than normal.

Photo of Sample Plot

South

East

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Parcels 409 & 413 **City/County:** Mt. Pleasant , Racine **Sampling Date:** 2018-07-26
Applicant/Owner: Foxconn **State:** **Sampling Point:** SP-04
Investigator(s): Ron Londre **Section, Township, Range:** S32-T03N-R22E
Landform (hillslope, terrace, etc.): Back slope **Local relief (concave, convex, none):** Convex
Slope (%): 3-6 **Lat:** 42.67277 **Long:** -87.91833 **Datum:** WGS84
Soil Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes **WWI 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 ____ No ✓		
Hydric Soil Present?	Yes ✓ No ____		
Wetland Hydrology Present?	Yes ____ No ✓	**Is the Sampled Area within a Wetland?**	**Yes ____ No ✓**

RReemmaarrkkss::

Based on the absence of two of three parameters, this area is an upland.

VEGETATION -- Use scientific names of plants.

Tree Stratum (Plot size: 30' r)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Picea pungens*	5	Yes	UPL
2. *Malus pumilia*	3	Yes	UPL
3.			
4.			
5.			
	8	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15' r)			
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Herb Stratum (Plot size: 5' r)			
1. *Cirsium arvense*	40	Yes	FACU
2. *Elymus repens*	40	Yes	FACU
3. *Hordeum jubatum*	30	Yes	FAC
4. *Ambrosia artemisiifolia*	25	No	FACU
5. *Poa pratensis*	10	No	FAC
6. *Rumex crispus*		No	FAC
7.			
8.			
9.			
10.			
	145	= Total Cover	

Woody Vine Stratum (Plot size: 30' r)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC:	1	(A)
Total Number of Dominant Species Across All Strata:	5	(B)
Percent of Dominant Species That Are OBL, FACW, or FAC:	20	(A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply By:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species		x 3 =	
FACU species	105	x 4 =	420
UPL species	8	x 5 =	40
Column Totals		(A)	(B)
Prevalence Index = B/A =			

Hydrophytic Vegetation Indicators:

____ 1- Rapid Test for Hydrophytic Vegetation

____ 2 - Dominance Test is > 50%

____ 3 - Prevalence Index is ≤ 3.0[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? Yes ____ No ✓

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

The criterion for hydrophytic vegetation is not met. Fallow field. Tree species appear to be planted.

Sampling Point: SP-04

SOIL

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0 - 11	10YR 2/1	100					Clay Loam	
11 - 16	10YR 2/1	95	10YR 5/6	5	C	M	Clay Loam	
16 - 24	10YR 5/2	70	10YR 5/8	30	C	M	Clay	

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]Location: PL = Pore Lining, M = Matrix.

Hydric Soil Indicators:

____ Histosol (A1)
____ Histic Epipedon (A2)
____ Black Histic (A3)
____ Hydrogen Sulfide (A4)
____ Stratified Layers (A5)
____ 2 cm Muck (A10)
____ Depleted Below Dark Surface (A11)
__✓__ Thick Dark Surface (A12)
____ Sandy Mucky Mineral (S1)
____ 5 cm Mucky Peat or Peat (S3)
____ Sandy Gleyed Matrix (S4)
____ Sandy Redox (S5)
____ Stripped Matrix (S6)
____ Loamy Mucky Mineral (F1)
____ Loamy Gleyed Matrix (F2)
____ Depleted Matrix (F3)
____ Redox Dark Surface (F6)
____ Depleted Dark Surface (F7)
____ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

____ Coast Prairie Redox (A16)
____ Dark Surface (S7)
____ Iron-Manganese Masses (F12)
____ Very Shallow Dark Surface (TF12)
____ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: None
Depth (inches):

Hydric Soil Present? Yes __✓__ No ____

Remarks:

The criterion for hydric soil is met. Potentially relict hydric soil.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

____ Surface Water (A1)
____ High Water Table (A2)
____ Saturation (A3)
____ Water Marks (B1)
____ Sediment Deposits (B2)
____ Drift Deposits (B3)
____ Algal Mat or Crust (B4)
____ Iron Deposits (B5)
____ Inundation Visible on Aerial Imagery (B7)
____ Sparsely Vegetated Concave Surface (B8)
____ Water-Stained Leaves (B9)
____ Aquatic Fauna (B13)
____ True Aquatic Plants (B14)
____ Hydrogen Sulfide Odor (C1)
____ Oxidized Rhizospheres on Living Roots (C3)
____ Presence of Reduced Iron (C4)
____ Recent Iron Reduction in Tilled Soils (C6)
____ Thin Muck Surface (C7)
____ Gauge or Well Data (D9)
____ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

____ Surface Soil Cracks (B6)
____ Drainage Patterns (B10)
____ Dry-Season Water Table (C2)
____ Crayfish Burrows (C8)
____ Saturation Visible on Aerial Imagery (C9)
____ Stunted or Stressed Plants (D1)
____ Geomorphic Position (D2)
____ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ____ No __✓__ Depth (inches):
Water Table Present? Yes ____ No __✓__ Depth (inches):
Saturation Present? Depth (inches):
(includes capillary fringe) Yes ____ No __✓__

Wetland Hydrology Present? Yes ____ No __✓__

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

USGS topo map, contour map, NRCS soils map, WWI map, aerial imagery, WETS Analysis

Remarks:

The criterion for wetland hydrology is not met. Based on WETS analysis, antecedent hydrologic conditions are wetter than normal.

Photo of Sample Plot

North

Southeast

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Parcels 409 & 413 **City/County:** Mt. Pleasant, Racine **Sampling Date:** 2018-07-26
Applicant/Owner: Foxconn **State:** **Sampling Point:** SP-05
Investigator(s): Ron Londre **Section, Township, Range:** S32_T03N-R22E
Landform (hillslope, terrace, etc.): Toe slope, ditch **Local relief (concave, convex, none):** Concave
Slope (%): 1-3 **Lat:** 42.67277 **Long:** -87.91827 **Datum:** WGS84
Soil Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes **WWI 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 ✓ No ____		
Hydric Soil Present?	Yes ✓ No ____		
Wetland Hydrology Present?	Yes ✓ No ____	**Is the Sampled Area within a Wetland?**	**Yes ✓ No ____**

RReemmaarrkkss::

Based on the presence of all three parameters, this area is a wetland. Wetland ID: W-1

VEGETATION -- Use scientific names of plants.

Tree Stratum (Plot size: 10' x 280')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Sapling/Shrub Stratum (Plot size: 10' x 70')			
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Herb Stratum (Plot size: 5' r)			
1. *Typha X glauca*	80	Yes	OBL
2. *Phalaris arundinacea*	40	Yes	FACW
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	120	= Total Cover	

Woody Vine Stratum (Plot size: 10' x 280')			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC:	2	(A)
Total Number of Dominant Species Across All Strata:	2	(B)
Percent of Dominant Species That Are OBL, FACW, or FAC:	100	(A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply By:	
OBL species	80	x 1 =	80
FACW species	40	x 2 =	80
FAC species	0	x 3 =	0
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals	120	(A)	160 (B)

Prevalence Index = B/A = 1.3

Hydrophytic Vegetation Indicators:

✓ 1- Rapid Test for Hydrophytic Vegetation
✓ 2 - Dominance Test is >50%
✓ 3 - Prevalence Index is ≤ 3.0[1]
____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? Yes ✓ No ____

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

The criterion for hydrophytic vegetation is met. Shallow Marsh plant community.

Sampling Point: SP-05

SOIL

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0 - 8	10YR 2/1	95	7.5YR 5/6	5	C	M	Clay Loam	
8 - 14	10YR 5/2	50	7.5YR 5/6	10	C	M	Clay	
8 - 14	10YR 5/3	40						Mixed
14 - 24	10YR 5/1	60	7.5YR 5/6	20	C	M	Clay	
14 - 24	10YR 5/3	20						Mixed

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]Location: PL = Pore Lining, M = Matrix.

Hydric Soil Indicators:

____ Histosol (A1)
____ Histic Epipedon (A2)
____ Black Histic (A3)
____ Hydrogen Sulfide (A4)
____ Stratified Layers (A5)
____ 2 cm Muck (A10)
____ Depleted Below Dark Surface (A11)
____ Thick Dark Surface (A12)
____ Sandy Mucky Mineral (S1)
____ 5 cm Mucky Peat or Peat (S3)
____ Sandy Gleyed Matrix (S4)
____ Sandy Redox (S5)
____ Stripped Matrix (S6)
____ Loamy Mucky Mineral (F1)
____ Loamy Gleyed Matrix (F2)
____ Depleted Matrix (F3)
__✓__ Redox Dark Surface (F6)
____ Depleted Dark Surface (F7)
____ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

____ Coast Prairie Redox (A16)
____ Dark Surface (S7)
____ Iron-Manganese Masses (F12)
____ Very Shallow Dark Surface (TF12)
____ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: None
Depth (inches):

Hydric Soil Present? Yes __✓__ No ____

Remarks:

The criterion for hydric soil is met.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

____ Surface Water (A1)
____ High Water Table (A2)
____ Saturation (A3)
____ Water Marks (B1)
____ Sediment Deposits (B2)
____ Drift Deposits (B3)
____ Algal Mat or Crust (B4)
____ Iron Deposits (B5)
____ Inundation Visible on Aerial Imagery (B7)
____ Sparsely Vegetated Concave Surface (B8)
____ Water-Stained Leaves (B9)
____ Aquatic Fauna (B13)
____ True Aquatic Plants (B14)
____ Hydrogen Sulfide Odor (C1)
____ Oxidized Rhizospheres on Living Roots (C3)
____ Presence of Reduced Iron (C4)
____ Recent Iron Reduction in Tilled Soils (C6)
____ Thin Muck Surface (C7)
____ Gauge or Well Data (D9)
____ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

____ Surface Soil Cracks (B6)
____ Drainage Patterns (B10)
____ Dry-Season Water Table (C2)
____ Crayfish Burrows (C8)
____ Saturation Visible on Aerial Imagery (C9)
____ Stunted or Stressed Plants (D1)
__✓__ Geomorphic Position (D2)
__✓__ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ____ No __✓__ Depth (inches):
Water Table Present? Yes ____ No __✓__ Depth (inches):
Saturation Present? Depth (inches):
(includes capillary fringe) Yes ____ No __✓__

Wetland Hydrology Present? Yes __✓__ No ____

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

USGS topo map, contour map, NRCS soils map, WWI map, aerial imagery, WETS Analysis

Remarks:

The criterion for wetland hydrology is met. Based on WETS analysis, antecedent hydrologic conditions are wetter than normal.

Photo of Sample Plot

East

East

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Parcels 409 & 413 **City/County:** Mt. Pleasant , Racine **Sampling Date:** 2018-07-27
Applicant/Owner: Foxconn **State:** **Sampling Point:** SP-06
Investigator(s): Ron Londre **Section, Township, Range:** S32-T03N-R22E
Landform (hillslope, terrace, etc.): Flat plain **Local relief (concave, convex, none):** Flat
Slope (%): 1-3 **Lat:** 42.67276 **Long:** -87.91844 **Datum:** WGS84
Soil Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes **WWI 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 ____ No ✓	
Hydric Soil Present?	Yes ✓ No ____	
Wetland Hydrology Present?	Yes ____ No ✓	**Is the Sampled Area within a Wetland?** **Yes ____ No ✓**

Remarks:
Based on the absence of two of three parameters, this area is an upland. Sample point taken where there was a patch of Hordeum jubatum to document wetland absence.

VEGETATION -- Use scientific names of plants.

Tree Stratum (Plot size: 30' r)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15' r)			
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Herb Stratum (Plot size: 5' r)			
1. *Hordeum jubatum*	60	Yes	FAC
2. *Ambrosia artemisiifolia*	50	Yes	FACU
3. *Symphyotrichum pilosum*	15	No	FACU
4. *Trifolium hybridum*	15	No	FACU
5. *Cirsium arvense*	10	No	FACU
6. *Daucus carota*	10	No	UPL
7. *Elymus repens*	10	No	FACU
8. *Asclepias syriaca*	3	No	FACU
9. *Convolvulus arvensis*	3	No	UPL
10. *Rumex crispus*	3	No	FAC
	179	= Total Cover	

Woody Vine Stratum (Plot size: 30' r)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC:	1	(A)
Total Number of Dominant Species Across All Strata:	2	(B)
Percent of Dominant Species That Are OBL, FACW, or FAC:	50	(A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply By:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	63	x 3 =	189
FACU species	103	x 4 =	412
UPL species	13	x 5 =	65
Column Totals	179	(A)	666 (B)

Prevalence Index = B/A = 3.7

Hydrophytic Vegetation Indicators:

____ 1- Rapid Test for Hydrophytic Vegetation
____ 2 - Dominance Test is > 50%
____ 3 - Prevalence Index is ≤ 3.0[1]
____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? Yes ____ No ✓

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

The criterion for hydrophytic vegetation is not met. Fallow field.

Sampling Point: SP-06

SOIL

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0 - 7	10YR 2/1	100					Clay Loam	
7 - 12	10YR 2/1	95	7.5YR 4/6	5	C	M	Clay Loam	Redox concretions
12 - 19	2.5Y 5/2	90	10YR 5/6	10	C	M	Clay	
19 - 24	2.5Y 5/1	80	10YR 5/6	20	C	M	Clay	

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]Location: PL = Pore Lining, M = Matrix.

Hydric Soil Indicators:

____ Histosol (A1)
____ Histic Epipedon (A2)
____ Black Histic (A3)
____ Hydrogen Sulfide (A4)
____ Stratified Layers (A5)
____ 2 cm Muck (A10)
____ Depleted Below Dark Surface (A11)
__✓__ Thick Dark Surface (A12)
____ Sandy Mucky Mineral (S1)
____ 5 cm Mucky Peat or Peat (S3)
____ Sandy Gleyed Matrix (S4)
____ Sandy Redox (S5)
____ Stripped Matrix (S6)
____ Loamy Mucky Mineral (F1)
____ Loamy Gleyed Matrix (F2)
____ Depleted Matrix (F3)
__✓__ Redox Dark Surface (F6)
____ Depleted Dark Surface (F7)
____ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

____ Coast Prairie Redox (A16)
____ Dark Surface (S7)
____ Iron-Manganese Masses (F12)
____ Very Shallow Dark Surface (TF12)
____ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: None
Depth (inches):

Hydric Soil Present? Yes __✓__ No ____

Remarks:

The criterion for hydric soil is met. Potentially relict hydric soil.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

____ Surface Water (A1)
____ High Water Table (A2)
____ Saturation (A3)
____ Water Marks (B1)
____ Sediment Deposits (B2)
____ Drift Deposits (B3)
____ Algal Mat or Crust (B4)
____ Iron Deposits (B5)
____ Inundation Visible on Aerial Imagery (B7)
____ Sparsely Vegetated Concave Surface (B8)
____ Water-Stained Leaves (B9)
____ Aquatic Fauna (B13)
____ True Aquatic Plants (B14)
____ Hydrogen Sulfide Odor (C1)
____ Oxidized Rhizospheres on Living Roots (C3)
____ Presence of Reduced Iron (C4)
____ Recent Iron Reduction in Tilled Soils (C6)
____ Thin Muck Surface (C7)
____ Gauge or Well Data (D9)
____ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

____ Surface Soil Cracks (B6)
____ Drainage Patterns (B10)
____ Dry-Season Water Table (C2)
____ Crayfish Burrows (C8)
____ Saturation Visible on Aerial Imagery (C9)
____ Stunted or Stressed Plants (D1)
____ Geomorphic Position (D2)
____ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ____ No __✓__ Depth (inches):
Water Table Present? Yes ____ No __✓__ Depth (inches):
Saturation Present? Depth (inches):
(includes capillary fringe) Yes ____ No __✓__

Wetland Hydrology Present? Yes ____ No __✓__

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

USGS topo map, contour map, NRCS soils map, WWI map, aerial imagery, WETS Analysis

Remarks:

The criterion for wetland hydrology is not met. Based on WETS analysis, antecedent hydrologic conditions are wetter than normal.

Photo of Sample Plot

West

South

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Parcels 409 & 413 **City/County:** Mt. Pleasant , Racine **Sampling Date:** 2018-07-27
Applicant/Owner: Foxconn **State:** **Sampling Point:** SP-07
Investigator(s): Ron Londre **Section, Township, Range:** S32-T03N-R22E
Landform (hillslope, terrace, etc.): Flat plain **Local relief (concave, convex, none):** Flat
Slope (%): 1-3 **Lat:** 42.67266 **Long:** -87.91868 **Datum:** WGS84
Soil Map Unit Name: Varna silt loam, 2 to 6 percent slopes **WWI 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 ____ No ✓		
Hydric Soil Present?	Yes ✓ No ____		
Wetland Hydrology Present?	Yes ____ No ✓	**Is the Sampled Area within a Wetland?**	**Yes ____ No ✓**

RReemmaarrkkss::

Based on the absence of two of three parameters, this area is an upland.

VEGETATION -- Use scientific names of plants.

Tree Stratum (Plot size: 30' r)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15' r)			
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	

Herb Stratum (Plot size: 5' r)			
1. *Trifolium hybridum*	40	Yes	FACU
2. *Daucus carota*	27	Yes	UPL
3. *Poa pratensis*	20	Yes	FAC
4. *Symphyotrichum pilosum*	20	Yes	FACU
5. *Sonchus arvensis*	15	No	FACU
6. *Taraxacum officinale*	15	No	FACU
7. *Rumex crispus*	8	No	FAC
8. *Ambrosia trifida*	5	No	FAC
9. *Convolvulus arvensis*	5	No	UPL
10. *Circaea canadensis*	5	No	FACU
	160	= Total Cover	

Woody Vine Stratum (Plot size: 30' r)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC:	1	(A)
Total Number of Dominant Species Across All Strata:	4	(B)
Percent of Dominant Species That Are OBL, FACW, or FAC:	25	(A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply By:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	33	x 3 =	99
FACU species	95	x 4 =	380
UPL species	32	x 5 =	160
Column Totals	160	(A)	639 (B)

Prevalence Index = B/A = 4

Hydrophytic Vegetation Indicators:

____ 1- Rapid Test for Hydrophytic Vegetation

____ 2 - Dominance Test is > 50%

____ 3 - Prevalence Index is ≤ 3.0[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? Yes ____ No ✓

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

The criterion for hydrophytic vegetation is not met. Fallow field.

Sampling Point: SP-07

SOIL

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0 - 6	10YR 3/2	100					Clay Loam	
6 - 10	10YR 3/1	98	7.5YR 5/6	2	C	M	Clay Loam	Redox concretions
10 - 24	10YR 5/3	88	10YR 5/6	10	C	M	Clay	
10 - 24			10YR 5/2	2	D	M		

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]Location: PL = Pore Lining, M = Matrix.

Hydric Soil Indicators:

____ Histosol (A1)
____ Histic Epipedon (A2)
____ Black Histic (A3)
____ Hydrogen Sulfide (A4)
____ Stratified Layers (A5)
____ 2 cm Muck (A10)
____ Depleted Below Dark Surface (A11)
____ Thick Dark Surface (A12)
____ Sandy Mucky Mineral (S1)
____ 5 cm Mucky Peat or Peat (S3)
____ Sandy Gleyed Matrix (S4)
____ Sandy Redox (S5)
____ Stripped Matrix (S6)
____ Loamy Mucky Mineral (F1)
____ Loamy Gleyed Matrix (F2)
____ Depleted Matrix (F3)
__✓__ Redox Dark Surface (F6)
____ Depleted Dark Surface (F7)
____ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

____ Coast Prairie Redox (A16)
____ Dark Surface (S7)
____ Iron-Manganese Masses (F12)
____ Very Shallow Dark Surface (TF12)
____ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: None
Depth (inches): ____

Hydric Soil Present? Yes __✓__ No ____

Remarks:

The criterion for hydric soil is met. Potentially a relict hydric soil.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

____ Surface Water (A1)
____ High Water Table (A2)
____ Saturation (A3)
____ Water Marks (B1)
____ Sediment Deposits (B2)
____ Drift Deposits (B3)
____ Algal Mat or Crust (B4)
____ Iron Deposits (B5)
____ Inundation Visible on Aerial Imagery (B7)
____ Sparsely Vegetated Concave Surface (B8)
____ Water-Stained Leaves (B9)
____ Aquatic Fauna (B13)
____ True Aquatic Plants (B14)
____ Hydrogen Sulfide Odor (C1)
____ Oxidized Rhizospheres on Living Roots (C3)
____ Presence of Reduced Iron (C4)
____ Recent Iron Reduction in Tilled Soils (C6)
____ Thin Muck Surface (C7)
____ Gauge or Well Data (D9)
____ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

____ Surface Soil Cracks (B6)
____ Drainage Patterns (B10)
____ Dry-Season Water Table (C2)
____ Crayfish Burrows (C8)
____ Saturation Visible on Aerial Imagery (C9)
____ Stunted or Stressed Plants (D1)
____ Geomorphic Position (D2)
____ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ____ No ____ Depth (inches): ____
Water Table Present? Yes ____ No ____ Depth (inches): ____
Saturation Present? (includes capillary fringe) Yes ____ No ____ Depth (inches): ____

Wetland Hydrology Present? Yes ____ No __✓__

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

USGS topo map, contour map, NRCS soils map, WWI map, aerial imagery, WETS Analysis

Remarks:

The criterion for wetland hydrology is not met. Based on WETS analysis, antecedent hydrologic conditions are wetter than normal.

Photo of Sample Plot

East

North

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Parcels 409 & 413 **City/County:** Mt. Pleasant, Racine **Sampling Date:** 2018-07-27
Applicant/Owner: Foxconn **State:** **Sampling Point:** SP-08
Investigator(s): Ron Londre **Section, Township, Range:** S32-T03N-R22E
Landform (hillslope, terrace, etc.): Shallow depression **Local relief (concave, convex, none):** Concave
Slope (%): 0-1 **Lat:** 42.67266 **Long:** -87.91875 **Datum:** WGS84
Soil Map Unit Name: Varna silt loam, 2 to 6 percent slopes **WWI 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 ✓ No ____		
Hydric Soil Present?	Yes ✓ No ____		
Wetland Hydrology Present?	Yes ✓ No ____	**Is the Sampled Area within a Wetland?**	**Yes ✓ No ____**

Remarks:

Based on the presence of all three parameters, this area is a wetland. Sample point located in crop slide review Area B. Fieldwork was conducted during the dry season and primary indicators of wetland hydrology are not observable. Wetland ID: W-2

VEGETATION -- Use scientific names of plants.

Tree Stratum (Plot size: 30' r)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Acer saccharinum*	40	Yes	FACW
2.			
3.			
4.			
5.			
	40	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15' r)			
1. *Rhamnus cathartica*	15	Yes	FAC
2. *Acer saccharinum*	5	Yes	FACW
3. *Cornus amomum*	3	No	FACW
4.			
5.			
	23	= Total Cover	
Herb Stratum (Plot size: 5' r)			
1. *Poa compressa*	40	Yes	FACU
2. *Poa pratensis*	40	Yes	FAC
3. *Symphyotrichum pilosum*	10	No	FACU
4. *Daucus carota*	10	No	UPL
5. *Ambrosia trifida*	5	No	FAC
6. *Arctium minus*	3	No	FACU
7. *Circaea canadensis*	3	No	FACU
8. *Taraxacum officinale*	3	No	FACU
9.			
10.			
	114	= Total Cover	
Woody Vine Stratum (Plot size: 30' r)			
1.			
2.			
	0	= 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:	**5**	(B)
Percent of Dominant Species That Are OBL, FACW, or FAC:	**80**	(A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply By:	
OBL species	0	x 1 =	0
FACW species	48	x 2 =	96
FAC species	60	x 3 =	180
FACU species	59	x 4 =	236
UPL species	10	x 5 =	50
Column Totals	177	(A)	562 (B)

Prevalence Index = B/A = 3.2

Hydrophytic Vegetation Indicators:

____ 1- Rapid Test for Hydrophytic Vegetation
✓ 2 - Dominance Test is >50%
____ 3 - Prevalence Index is ≤ 3.0[1]
____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? Yes ✓ No ____

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

The criterion for hydrophytic vegetation is met. Fresh (Wet) Meadow plant community. Wetland is part in agricultural field edge tree line.

Sampling Point: SP-08

SOIL

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0 - 6	10YR 3/1	95	7.5YR 5/6	5	C	M	Sandy Clay Loam	
6 - 8	10YR 3/1	85	7.5YR 5/6	10	C	M	Sandy Clay	
6 - 8			2.5YR 5/2	5	D	M		
8 - 20	10YR 5/3	90	10YR 5/6	5	C	M	Clay	
8 - 20			10YR 5/2	5	D	M		

[1]Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. [2]Location: PL = Pore Lining, M = Matrix.

Hydric Soil Indicators:

____ Histosol (A1)
____ Histic Epipedon (A2)
____ Black Histic (A3)
____ Hydrogen Sulfide (A4)
____ Stratified Layers (A5)
____ 2 cm Muck (A10)
____ Depleted Below Dark Surface (A11)
____ Thick Dark Surface (A12)
____ Sandy Mucky Mineral (S1)
____ 5 cm Mucky Peat or Peat (S3)
____ Sandy Gleyed Matrix (S4)
____ Sandy Redox (S5)
____ Stripped Matrix (S6)
____ Loamy Mucky Mineral (F1)
____ Loamy Gleyed Matrix (F2)
____ Depleted Matrix (F3)
__✓__ Redox Dark Surface (F6)
____ Depleted Dark Surface (F7)
____ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

____ Coast Prairie Redox (A16)
____ Dark Surface (S7)
____ Iron-Manganese Masses (F12)
____ Very Shallow Dark Surface (TF12)
____ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: Compact clay
Depth (inches): 8

Hydric Soil Present? Yes __✓__ No ____

Remarks:

The criterion for hydric soil is met.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

____ Surface Water (A1)
____ High Water Table (A2)
____ Saturation (A3)
____ Water Marks (B1)
____ Sediment Deposits (B2)
____ Drift Deposits (B3)
____ Algal Mat or Crust (B4)
____ Iron Deposits (B5)
____ Inundation Visible on Aerial Imagery (B7)
____ Sparsely Vegetated Concave Surface (B8)
____ Water-Stained Leaves (B9)
____ Aquatic Fauna (B13)
____ True Aquatic Plants (B14)
____ Hydrogen Sulfide Odor (C1)
____ Oxidized Rhizospheres on Living Roots (C3)
____ Presence of Reduced Iron (C4)
____ Recent Iron Reduction in Tilled Soils (C6)
____ Thin Muck Surface (C7)
____ Gauge or Well Data (D9)
__✓__ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

____ Surface Soil Cracks (B6)
____ Drainage Patterns (B10)
____ Dry-Season Water Table (C2)
____ Crayfish Burrows (C8)
____ Saturation Visible on Aerial Imagery (C9)
____ Stunted or Stressed Plants (D1)
__✓__ Geomorphic Position (D2)
__✓__ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ____ No __✓__ Depth (inches): ____
Water Table Present? Yes ____ No __✓__ Depth (inches): ____
Saturation Present? (includes capillary fringe) Yes ____ No __✓__ Depth (inches): ____

Wetland Hydrology Present? Yes __✓__ No ____

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

USGS topo map, contour map, NRCS soils map, WWI map, aerial imagery, WETS Analysis

Remarks:

The criterion for wetland hydrology is met. Dense clay layer starting at 8" likely functions as a shallow aquitard.

Photo of Sample Plot

West

North

Appendix F:
Professional Opinion on Wetland Susceptibility

Table 4: Opinion of Susceptibility for NR 151 Setback Purposes

Note: Final authority on NR 151 protective areas rests with WDNR, but the following is TRC's opinion of each wetland's NR 151 protective area category.

Wetland #	Least Susceptible	Moderately Susceptible	Highly Susceptible
W-1	X		
W-2	X[1]		

Definitions of Susceptibility Per WDNR Administrative Code:

Least Susceptible: Degraded wetlands dominated by invasive species (≥ 90%) such as reed canary grass. Protective area = 10% of avg wetland width, but no less than 10' or more than 30'.

Moderately Susceptible: Fens, sedge meadows, bogs, low prairies, conifer swamps, shrub swamps, other forested wetlands, fresh wet meadows, shallow marshes, deep marshes and seasonally flooded basins. Protective area = 50'.

Highly Susceptible: Outstanding/exceptional resource waters, wetlands in areas of special natural resource interest as specificed in s. NR 103.04. Protective area = 75'.

[1] W-1 is a wetland located in a roadside ditch, which is intended to convey stormwater. Consultation with WDNR Stormwater Program staff is recommended to evaluate wether setback requirements apply.