APPENDIX B

Wetland Delineation Report

WETLAND DELINEATION REPORT

Carlisle Interconnect 5300 W. Franklin Blvd Franklin, Wisconsin

June 7, 2016

TRC Project No: 255682.0000

Prepared For:

JP Cullen 13040 West Lisbon Road, Suite 900 Brookfield, Wisconsin 53005

Prepared By:

Ron Londré, PWS
TRC Environmental Corporation
150 N. Patrick Blvd., Suite 150
Brookfield, Wisconsin 53045





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1.0 INTRODUCTION

On behalf of JP Cullen, TRC Environmental Corporation (TRC) conducted a wetland delineation within a designated Study Area at 5300 W. Franklin Blvd (Figure 1, Appendix A). The Study Area was approximately 14 acres and located in Section 26, Township 5 North, Range 21 East, in the City of Franklin, Milwaukee County, Wisconsin.

Landowner's Name and Contact Information:

Carlisle Interconnect Technologies, Inc. 5300 W Franklin Drive Franklin, Wisconsin 53132

The purpose of this wetland delineation was to determine the current location and extent of wetlands located within the designated Study Area for the proposed expansion of the Carslile Interconnect manufacturing facility. Our study is presented here in terms of methodology, results, and conclusions.

The wetland delineation field investigation was conducted by TRC scientists Ron Londré (WDNR Assured Delineator), and Amanda Larsen on May 11, 2016 and May 13, 2016. 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 and assessments across the United States. TRC's biologists and ecologists have been trained to properly and consistently apply the methods set forth in the 1987 Corps of Engineers Wetland Delineation Manual and applicable regional supplements. They have direct experience identifying and documenting indicators of hydrophytic vegetation, wetland hydrology, and hydric soil and are experienced in dealing with naturally problematic and disturbed conditions.

TRC's large natural resources staff have the capability to coordinate wetland survey teams to meet fast-track project schedules and satisfy the challenges of complex or controversial projects.

Mr. Ron Londré, PWS, WDNR Assured Wetland Ecologist, 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 an 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



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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.

Ms. Amanda Larsen is a biologist with TRC and has over five years of experience working on a variety of natural resource projects throughout the United States. She specializes in conducting wetland delineations and assessments, biological surveys, water monitoring, habitat restoration, and invasive species control. Ms. Larsen has a B.S. degree in Conservation and Environmental Science from UW-Milwaukee with a focus on water resources. She has taken the following technical trainings related to wetland delineation: Wetland Delineation Critical Methods Workshop (2016), Advanced Wetland Delineation (2014), Basic Wetland Delineation (2013), provided by UW-La Crosse; and Significant Nexus Determination (2014) provided by the Swamp School.

1.2 Agency Regulatory Authority

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

2.0 METHODS

This wetland delineation was conducted in accordance with the guidelines of the 1987 Corps of Engineers Wetland Delineation Manual (Environmental Laboratory, 1987) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0, 2010). National Wetland Indicator status and taxonomic nomenclature is referenced from The National Wetland Plant List (Lichvar, 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 7.0 (Vasilas, L. M. et. al. 2010). 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.



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2.1 Off-Site Review

Prior to conducting fieldwork, TRC scientists Ron Londré and Amanda Larsen reviewed several maps 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.

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.

2.2 On-Site Field Investigation

Areas having wetland indicators within the Study Area were evaluated in the field by TRC wetland scientists Ron Londré and Amanda Larsen on May 11, 2016 and May 13, 2016. Sample points were located in areas exhibiting wetland and upland characteristics to document the presence and/or absence of wetlands and to provide support for the delineated wetland boundaries. At each sample point, data were collected to document the vegetation and hydrophytic vegetation indicators, soil profiles and hydric soil indicators, and wetland hydrology indicators.

Plant species were identified at each sample point and their wetland indicator status; obligate wetland (OBL), facultative wetland (FACW), facultative (FAC), facultative upland (FACU), or upland (UPL); was determined by referencing The National Wetland Plant List (Lichvar 2014). Soil pits were dug to the depth needed to document the 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 the 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 2-Foot Contour Map (Appendix A, Figure 2) showed elevations ranging from 720 to 730 feet above sea level. Based on the contour map, water would be expected to drain from the southwest and western portions of the site towards the southeastern portion of the site.

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.

Map Unit **Map Unit Name** Drainage **Hydric Rating** % of Study Symbol Class Area AsA Ashkum silty clay loam, 0-2 **Poorly Drained** 97 28.2 percent slopes BIA Blount silt loam, 1 to 3 percent Somewhat Poorly 0 63.6 slopes Drained MzdB Morley silt loam, 2 to 6 percent Well Drained 0 8.2 slopes

Table 1 - Mapped Soils

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

Table 2 - Mapped WWI Wetland Types

Map Unit Symbol	Description
ТЗК	Forested, Broad leaved deciduous, Wet soil, Palustrine
E2K	Emergent/wet meadow, Narrow-leaved persistent, Wet soil, Palustrine

A review of aerial imagery from 2000, 2005, 2007, 2010, and 2015 (Appendix A, Figures 5-9) shows the Study Area as containing a building and associated parking lots and drives as well as having a forested area to the east of the building and emergent vegetation to the north of the building. There does not appear to be any observable land use change during this time period.

Prior to conducting the field visit, antecedent precipitation data were analyzed. Data were obtained from a nearby weather station (MILWAUKEE MITCHELL AP (WI) USW00014839) and compared to data from a nearby WETS station (MILWAUKEE MITCHELL AP (WI) USW00014839). The most recent rainfall event prior to the site visit was 1.12 inches, which occurred on May 10, 2016. Precipitation for the 14 days prior to the site visit was 2.04 inches. The precipitation data for the 90 day period prior to the field visit (Appendix B, Table 3) were entered into a WETS

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analysis worksheet (Appendix B, Table 4) to weight the information from each preceding month to analyze hydrologic conditions. Based on this analysis, the antecedent hydrologic conditions were considered to be within a normal range, suggesting that climatic/hydrologic conditions were normal for this time of year.

3.2 On-Site Field Investigation

3.2.1 Site Description

The Study Area was comprised of a manufacturing building and associated parking lots and drives with some ornamental landscaping and lawn areas surrounding the western and southern portions of the building. The eastern portion of the Study Area was predominantly forested mixed with areas dominated by shrubs. The north central portion of the Study Area contained predominantly herbaceous plant communities.

Naturally problematic conditions and disturbed (atypical) conditions were encountered within the Study Area. The naturally problematic conditions included relatively high abundances of FACU plant species in some areas of forested wetlands. The disturbed conditions included areas of mowed lawn and artificially planted vegetation.

3.2.2 Uplands

Upland plant communities observed in the Study Area included small portions of upland forest and areas of lawn with ornamental trees. All other areas of upland were built upon containing a building, parking lot, and drives. Sample points SP-2, SP-4, SP-6, SP-8, and SP-10 were located in upland areas.

3.2.3 Wetlands

One wetland was delineated. The delineated wetland boundaries and sample points are shown on a map (Exhibit A) in Appendix C. Photographs were taken at sample points and other notable locations (Appendix D). Data were collected and recorded on Wetland Determination Data Forms at 12 sample points to document wetland and upland locations (Appendix E).

Wetland (Shallow Marsh, Hardwood Swamp, Shrub Carr wetland complex)

The wetland was approximately 6.53 acres within the Study Area and consisted of shallow marsh, hardwood swamp, and shrub-carr plant communities. There were patches of sedge meadow within the shallow marsh area just to the north of wetland sample point SP-3. The boundary of the wetland extends beyond the Study Area offsite to the north and east. Seven wetland sample points (SP-1, SP-3, SP-5, SP-7, SP-9, SP-11, and SP-12) were taken within the wetland and five upland sample points (SP-2, SP-4, SP-6, SP-8, and SP-10) were taken in adjacent upland areas.

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The dominant vegetation at wetland Sample Point SP-1, which was taken in a shrub-carr plant community, included Ulmus americana (American elm) in the tree stratum, Rhamnus cathartica (common buckthorn) in the shrub stratum, and Phragmities australis (common reed grass) in the herb stratum. The dominant vegetation at wetland Sample Point SP-3, which was taken in a shallow marsh plant community, included Fraxinus pennsyvanica (green ash), Acer negundo (boxelder), and Salix bebbiana (Bebb's willow) in the shrub stratum; and Typha anfustifolia (narrow leaved cattail), and *Carex stricta* (tussock sedge) in the herb stratum. The dominant vegetation at wetland Sample Point SP-5, which was in a mixed hardwood swamp / shrub-carr plant community, included Fraxinus pennsylvanica and Quercus alba (white oak) in the tree stratum, Rhamnus cathartica in the shrub stratum; and Carex bromoides (brome-like sedge), Ribes cynosbati (prickly gooseberry), and Rhamnus cathartica in the herb stratum. The dominant vegetation at wetland Sample Point SP-7, which was taken in a mixed hardwood swamp / shrubcarr plant community, includes Carya ovata (shagbark hickory) and Fraxinus pennsylvanica in the tree stratum, Rhamnus cathartica and Ostrya virginiana (American hophornbeam) in the shrub stratum; and Carex bromoides, Ribes cynosbati, and Rhamnus cathartica in the shrub stratum. The dominant vegetation at wetland Sample Point SP-9, which was taken in a mixed hardwood swamp / shrub-carr plant community, included Quercus rubra (red oak) and Quercus bicolor (swamp white oak) in the tree stratum; Carpinus caroliniana (musclewood) and Rhamnus cathartica in the shrub stratum; and Ribes cynosbati, Carpinus caroliniana, Prunus virginiana, and Rhamnus cathartica in the herb stratum. The dominant vegetation at wetland Sample Point SP-11, which was taken in a hardwood swamp plant community, included Carya ovata and Tilia americana in the tree stratum, Carpinus caroliniana and Ostrya virginiana in the shrub stratum, and Carpinus caroliniana in the herb stratum. The dominant vegetation at wetland Sample Point SP-12, which was taken in a hardwood swamp plant community, included Quercus alba, Quercus bicolor, and Acer saccharinum (silver maple) in the tree stratum; Carpinus caroliniana and Ostrya virginiana in the shrub stratum; and Carex pensylvanica in the herb stratum. Species including Ostrya virginiana, Rhamnus cathartica, Carya ovata, and Tilia americana were frequently exhibiting morphological adaptation to saturated or inundated conditions including adventitious roots, shallow root systems, and/or buttressing. This suggests that there may have been an increase in hydrology in recent years that may not have been the historical condition.

Hydrology generally appeared to be sustained by surface water runoff from the adjacent impervious surfaces and a limited outlet for water from the site. Wetland hydrology indicators observed at the wetland Sample Points included High Water Table (A2), Saturation (A3), Water Marks (B1), Water-Stained Leaves (B9), Saturation Visible on Aerial Imagery (C9), Geomorphic Position (D2), and Positive FAC-neutral tests (D5). Saturation and possible inundation is visible in some wetland areas in a 2014 Google Earth image during spring leaf-off. Hydric soils indicators observed at the wetland Sample Points included Depleted Below Dark Surface (A11), Depleted Matrix (F3), and Redox Dark Surface (F6),

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



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areas, the wetland extended nearly to the edge of the parking lot in the northern portion of the Study Area.

3.2.4 Other Aquatic Resources

No other aquatic resources were identified within the Study Area.

3.2.5 Professional Opinion On Wetland Susceptibility Per NR 151

Table 5 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, one wetland was delineated totaling 6.53 acres of wetlands within the approximately 14 acre Study Area. No other aquatic resources were observed within the Study Area.

The results of this field study are based on site conditions at the time of the field study, which was conducted in accordance with current regulatory policy and methods.

Wetlands and other aquatic resources delineated and identified in this report are a professional finding based on current regulatory policy accepted by the USACE and WDNR methodology 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 including stormwater ponds and conveyance features. If the client proposes to modify a potentially exempt feature, a WDNR Artificial Determination Exemption and USACE Approved Jurisdictional Determination (AJD) requests would need to be submitted. 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 permits and WDNR Water Quality Certification, and local



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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.



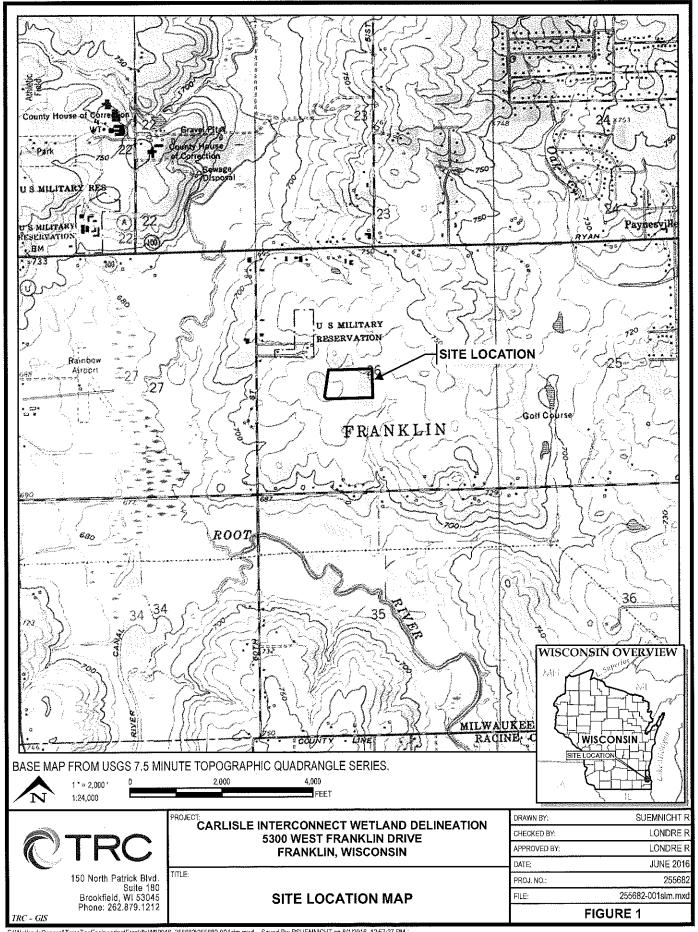
5.0 REFERENCES

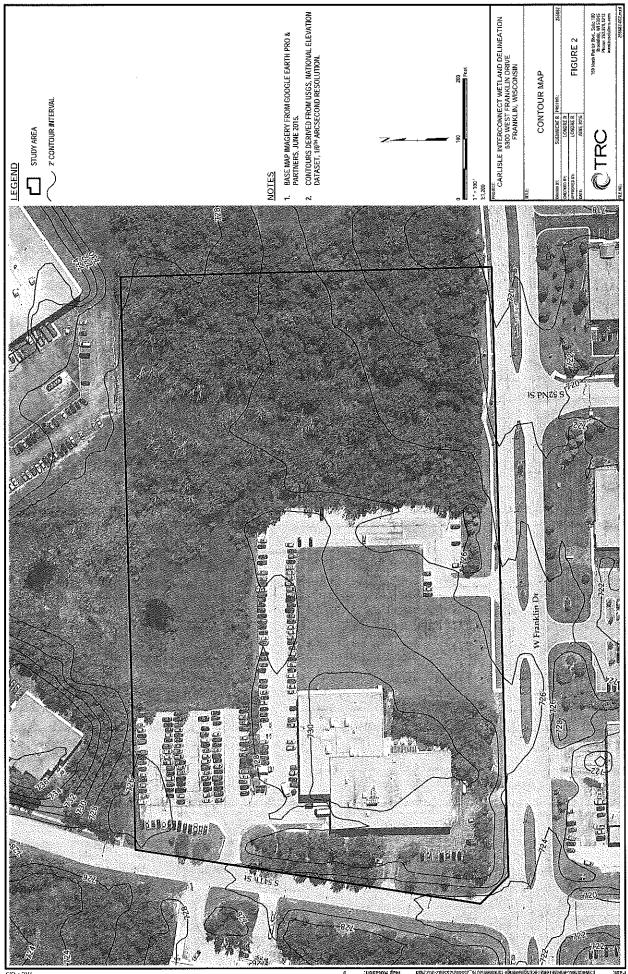
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- Midwestern Regional Climate Center cli-MATE Database (Web Address: http://mrcc.isws.illinois.edu/CLIMATE/)
- Southeastern Wisconsin Regional Planning Commission (SEWRPC) Southeastern Wisconsin Regional Land Information: Regional Map Server (Web Address: http://maps.sewrpc.org/regionallandinfo/regionalmapping/RegionalMaps/viewer.htm)
- Swink, Floyd, and Gerould Wilhelm. 1994. "Plants of the Chicago region." Indianapolis: Indiana Academy of Science.
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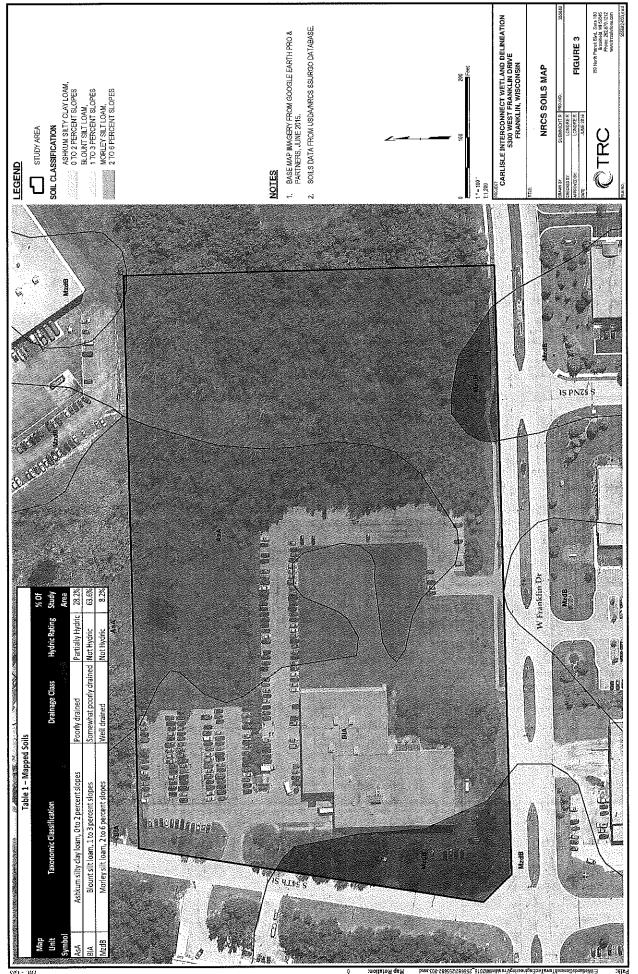


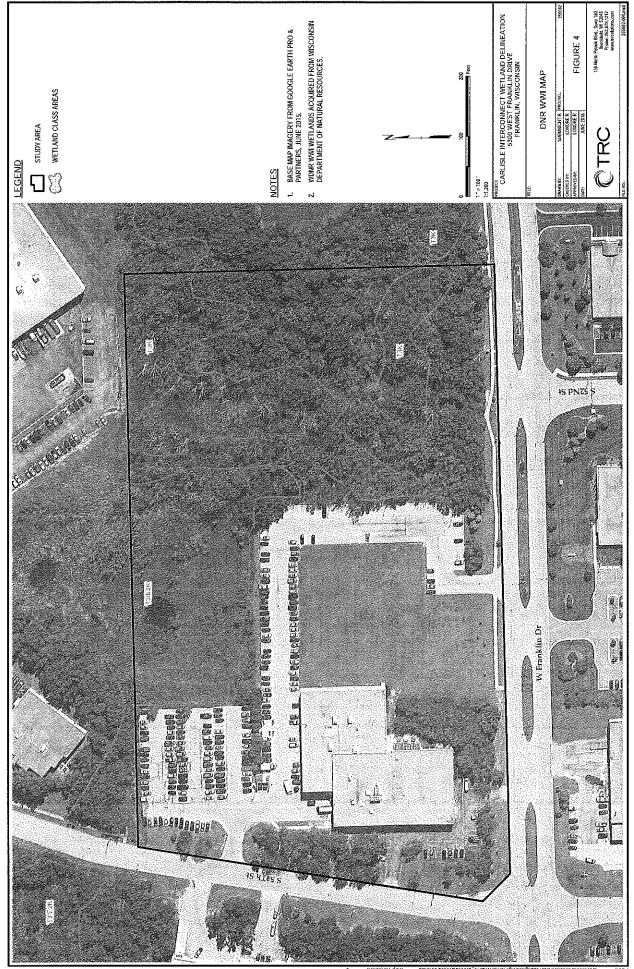
APPENDIX A: FIGURES

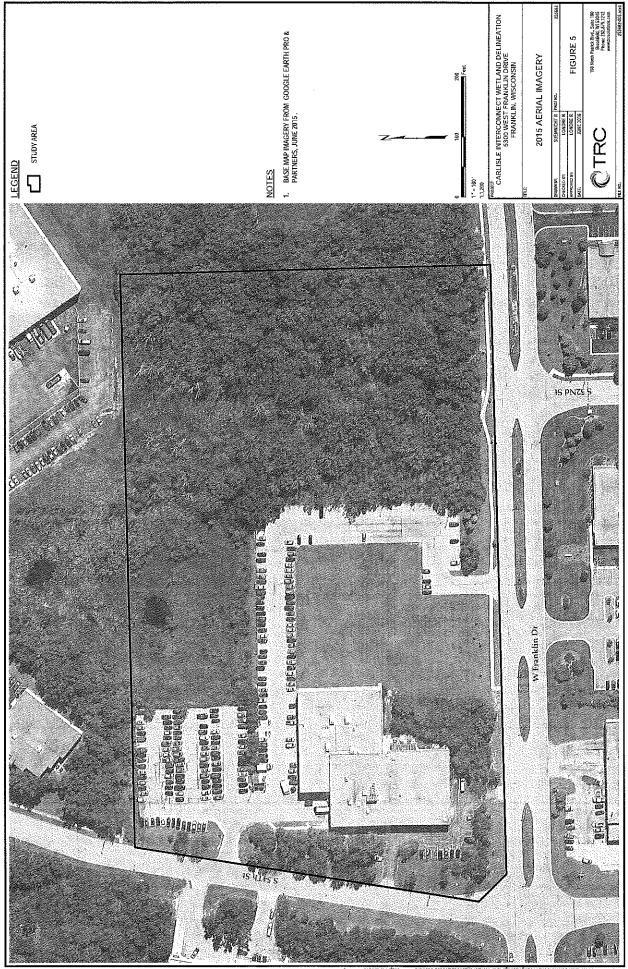


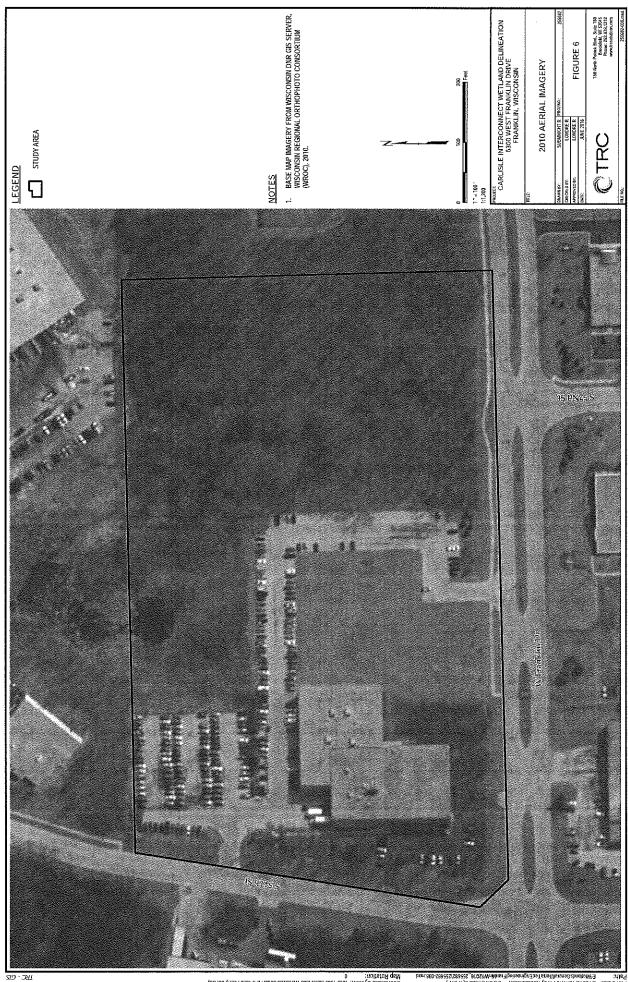


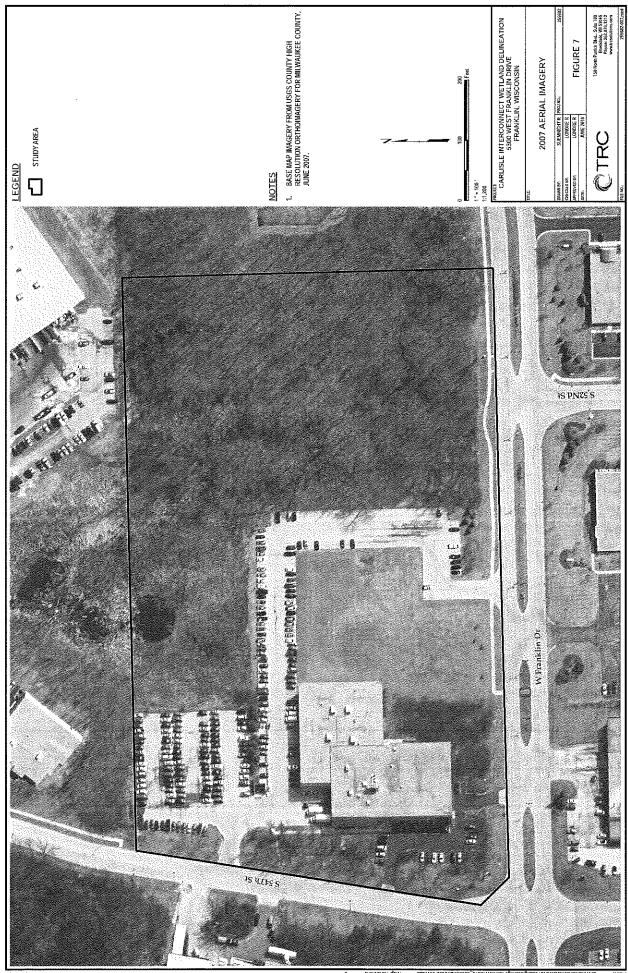


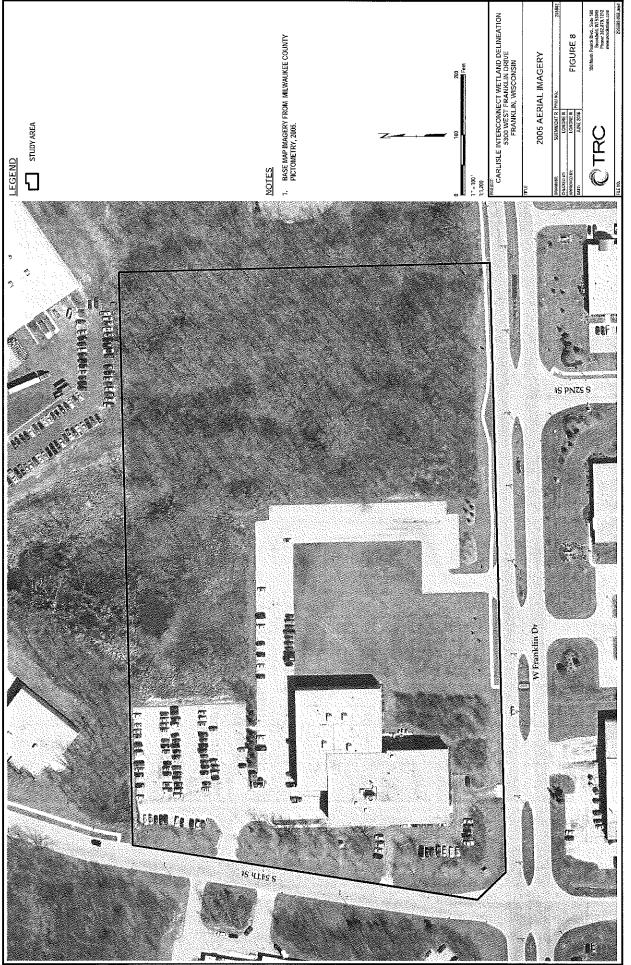


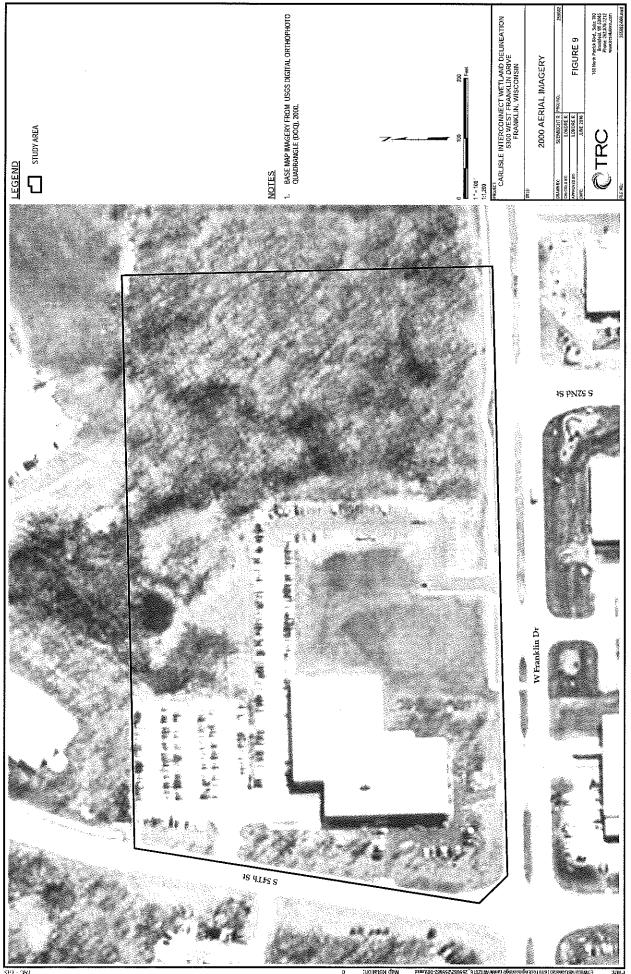












APPENDIX B: ANTECEDENT PRECIPITATION DATA / WETS ANALYSIS



Table 3. Antecedent Precipitation Data

February 11, 2016 - May 10, 2016

Precipitation Data Source Location

MILWAUKEE MITCHELL AP (WI) USW00014839

3rd Mor	nth Prior	2nd Mo	nth Prior	1st Mor	nth Prior
Date	PPT	Date	PPT	Date	PPT
2/11/2016	0	3/12/2016	0	4/11/2016	0
2/12/2016	0	3/13/2016	0.41	4/12/2016	0
2/13/2016	0	3/14/2016	0.02	4/13/2016	Т
2/14/2016	0.05	3/15/2016	0.43	4/14/2016	0
2/15/2016	0.02	3/16/2016	0.08	4/15/2016	0
2/16/2016	0.03	3/17/2016	0	4/16/2016	0
2/17/2016	0	3/18/2016	0.08	4/17/2016	0
2/18/2016	Т	3/19/2016	Т	4/18/2016	0
2/19/2016	0	3/20/2016	0	4/19/2016	Т
2/20/2016	0	3/21/2016	0	4/20/2016	0.12
2/21/2016	0	3/22/2016	0	4/21/2016	0.07
2/22/2016	0	3/23/2016	0.35	4/22/2016	0
2/23/2016	0	3/24/2016	0.95	4/23/2016	0
2/24/2016	0	3/25/2016	0	4/24/2016	0
2/25/2016	T	3/26/2016	0	4/25/2016	0.07
2/26/2016	0	3/27/2016	0.1	4/26/2016	T
2/27/2016	0	3/28/2016	Т	4/27/2016	0.08
2/28/2016	0.01	3/29/2016	0	4/28/2016	0.03
2/29/2016	T	3/30/2016	0.02	4/29/2016	0.02
3/1/2016	0.15	3/31/2016	0.56	4/30/2016	0.4
3/2/2016		4/1/2016	0.03	5/1/2016	0.13
3/3/2016	T	4/2/2016	0.12	5/2/2016	0
3/4/2016	0.1	4/3/2016	T	5/3/2016	0.04
3/5/2016	T	4/4/2016	T	5/4/2016	Т
3/6/2016		4/5/2016	0.03	5/5/2016	
3/7/2016		4/6/2016	0.6	5/6/2016	T
3/8/2016	Т	4/7/2016	0.01	5/7/2016	Т
3/9/2016	0.09	4/8/2016	0.15	5/8/2016	0
3/10/2016		4/9/2016		5/9/2016	
3/11/2016	·	4/10/2016	0.07	5/10/2016	1.12
Total =	0.45	Total =	4.01	Total =	2.3

PPT - Precipitation in inches

T - Trace

M - Missing



Table 4. WETS Analysis

Project Site: Carslile Interconnect

Period of interest: February 11, 2016 - May 10, 2016

Milwaukee

County:

Long-term rainfall records (from WETS table)

			•		
S		8.02	= wns		
	2.01	1.65	0.93	February	3rd month prior: February
	3.14	2.59	1.58	March	2nd month prior:
	4.45	3.78	2.78	April	1st month prior:
	greater than	NOTHIA	less than	Month	
	3 years in 10	lemnoN	3 years in 10		
	•				

_						
	13	Sum***=			92'9	Sum =
	1	1	Τ	Dry	0.45	
	9	2	3	Wet	4.01	
	9	3	2	Normal	2.30	
	Product	Weight	Value	Rainfall (in) Dry/Normal*/Wet	Rainfall (in)	
		Month	Condition**	Condition	Site	

Site determination

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

***If sum is:

**Condition value:

Normal = 2Wet = 3

Dry = 1

Normal

×

Wet Dry

Determination:

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: MILWAUKEE MITCHELL AP (WI) USW00014839

WETS Station: MILWAUKEE MITCHELL AP (WI) USW00014839

Reference:

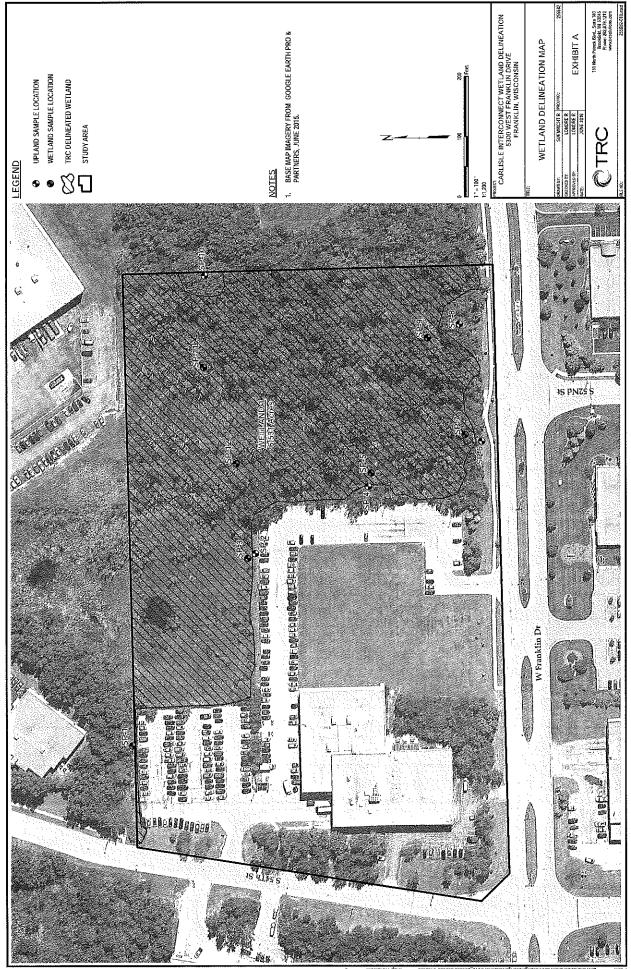
Donald E. Woodward, ed. 1997. Hydrology Tools for Wetland Determination, Chapter 19. Engineering Field

Handbook. U.S. Department of Agriculture, Natural Resources Conservation Service, Fort Worth, TX.



APPENDIX C: WETLAND DELINEATION MAP





APPENDIX D: SITE PHOTOGRAPHS





Project Name Site Location Project No.

Carlisle Interconnect 5300 W. Franklin Dr., Franklin, WI 255682

Photo No.

Date

1

5/11/16

Description

Wetland sample point SP-1, facing west.



Photo No. Date

2

5/11/16

Description

Upland sample point SP-2, facing west





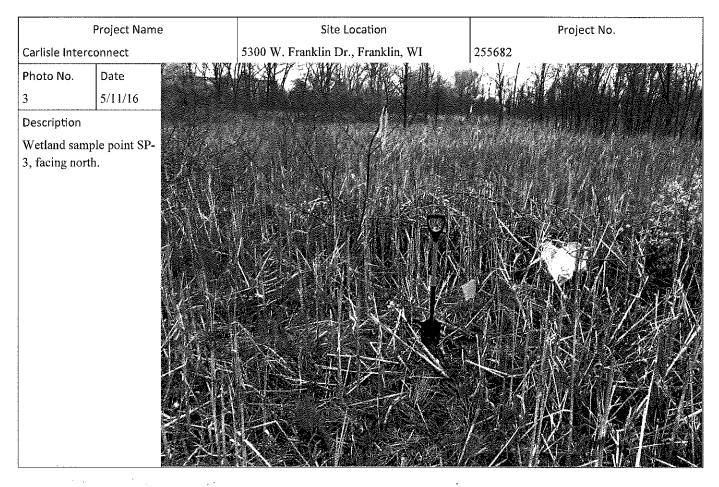


Photo No. Date 4 5/11/16

Description

Upland sample point SP-4, facing west.





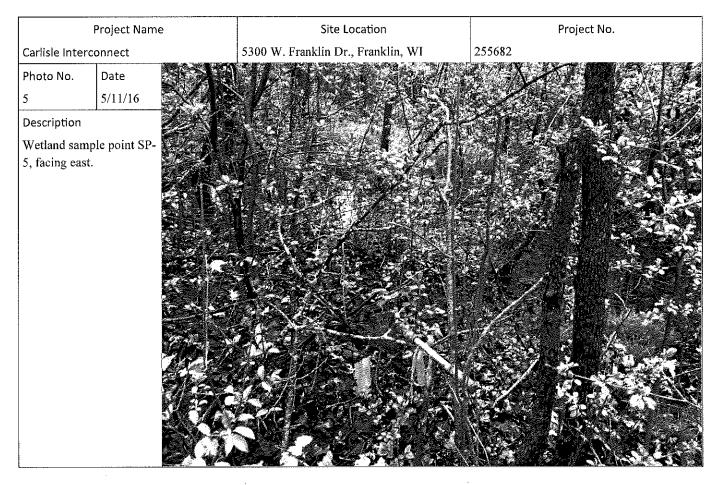


Photo No. Date 5/13/16

Description

Upland sample point SP-6, facing north.





Project Name
Carlisle Interconnect
Site Location
Franklin, WI
Site Location
Project No.

Project No.

Project No.

Project No.

Project No.

255682

Photo No.
Date
7
5/13/16

Description
Wetland sample point SP7, facing north.

Photo No. Date 5/13/16

Description

Upland sample point SP-8, facing south-southeast.





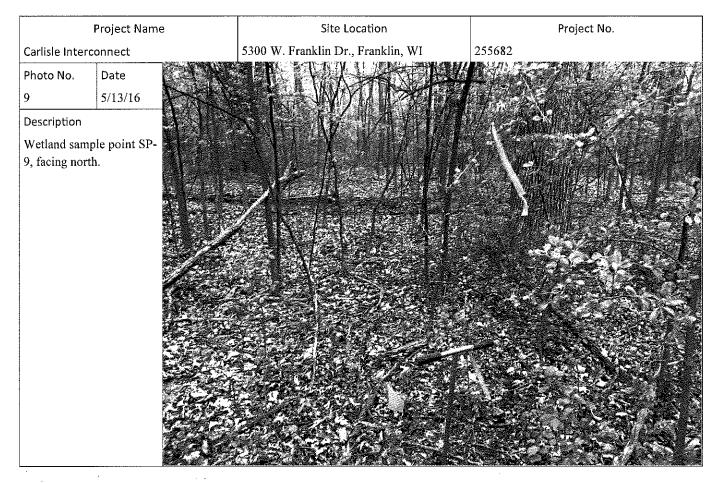


Photo No. Date 10 5/13/16

Description

Upland sample point SP-10, facing northwest.





Project Name
Carlisle Interconnect

Photo No.
Date
S/13/16

Description

Wetland sample point SP11, facing northwest.

Project No.
Site Location
Site Location
Project No.
255682

Project No.
Project No.
Project No.
Site Location
Site Location
Project No.
Site Location
Site Location
Site Location
Site Location
Project No.
Site Location
S

Photo No.

12

5/13/16

Date

Description

Wetland sample point SP-12, facing west.





Project Name Site Location Project No.

Carlisle Interconnect 5300 W. Franklin Dr., Franklin, WI 255682

Photo No. Date

Description

12

Representative photo of shallow roots on *Ostrya virginiana* in hardwood swamp.

5/13/16



Photo No. Date

13 5/13/16

Description

Representative photo of adventitious/shallow roots on *Rhamnus cathartica* in hardwood swamp.





Project Name Site Location Project No.

Carlisle Interconnect 5300 W. Franklin Dr., Franklin, WI 255682

Photo No.

Date

14

5/13/16

Description

Representative photo of adventitious/shallow roots on *Ostrya virginiana*.



Photo No.

15

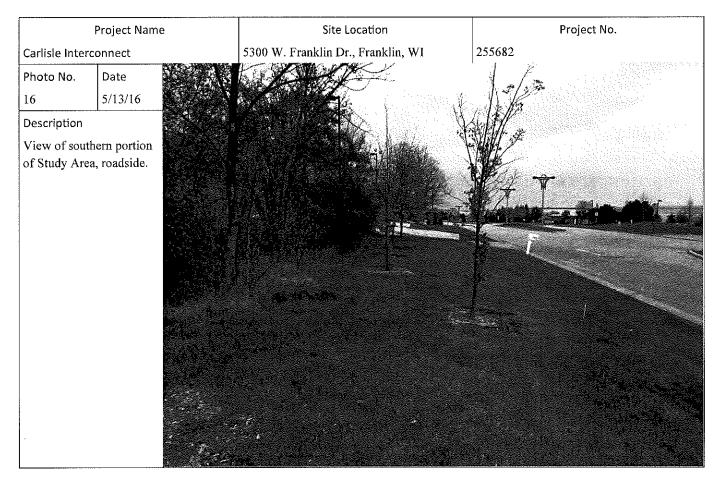
Date 5/13/16

Description

View of western portion of Study Area, roadside.







APPENDIX E: WETLAND DETERMINATION DATA FORMS



Project/Site: Carlisle Interconnect	City/County: Franklin / M	ilwaukee Sampling Date: 11-May-16
		WI Sampling Point: SP-1
Investigator(s): Ron Londré, Amanda Larsen		
		concave, convex, none): Convex
Slope: <u>3,0%</u> <u>1.7</u> ° Lat.:		Datum:
Soil Map Unit Name: Blount silt loam (BIA)		NWI classification: T3/E2K
Are climatic/hydrologic conditions on the site typical for this time of		xplain in Remarks.)
Are Vegetation , Soil , or Hydrology		ormal Circumstances" present? Yes No
Are Vegetation , Soil , or Hydrology	naturally problematic? (If nee	ded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map sho	owing sampling point locatio	ns, transects, important features, etc.
Hydrophytic Vegetation Present? Yes • No •		
Hydric Soil Present? Yes No	Is the Sampled / within a Wetland	
Wetland Hydrology Present? Yes ● No ○	1 212 4 212	- les o No o
Remarks: Based on the presence of all three parameters, this point VEGETATION - Use scientific names of pla	ants. Dominant	
	Absolute Rel.Strat, Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 15' x 150'	% Cover Cover Status	Number of Dominant Species
1. Ulmus americana	10 100.0% FACW	That are OBL, FACW, or FAC: 3 (A)
2.	0.0%	Total Number of Dominant
3.	0.0%	Species Across All Strata: 3 (B)
4.	0.0%	Percent of dominant Species
5,		That Are OBL, FACW, or FAC: 100.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15' x 50')	10 = Total Cover	Provolence Yaday weekshook
1 51	50 ☑ 86.2% FAC	Prevalence Index worksheet: Total % Cover of: Multiply by:
2 Contraction and a series of the series of	E O COV EAC	OBL species $0 \times 1 = 0$
3. Prunus virginiana	2 F 20/ FACIL	FACW species 85 x 2 = 170
4.	0.000	FAC species 75 x 3 = 225
5.	0 0004	FACU species 14 x 4 = 56
Herb Stratum (Plot size: 5' r)	58 = Total Cover	UPL species $0 \times 5 = 0$
1 Phragmites australis	60 ☑ 56.6% FACW	Column Totals: 174 (A) 451 (B)
7. 0	(and	magaranan (pansarananan)
C No. 1. de accessitation de la constant de la cons	14.204 54.004	Prevalence Index = B/A = 2.592
A Poca multiflora	F 704 FACIL	Hydrophytic Vegetation Indicators:
5. Solidago canadensis	2 7 200 5101	1 - Rapid Test for Hydrophytic Vegetation
6. Sonchus arvensis	3 7 3 997 54611	2 - Dominance Test is > 50%
7	protection and the second	3 - Prevalence Index is ≤3.0 ¹
8.	0.0%	4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
9.	0.0%	Problematic Hydrophytic Vegetation ¹ (Explain)
10.	0 0.0%	1 Indicators of hydric soil and wetland hydrology must
Woody Vine Stratu (Plot size: 15' x 150')	106 = Total Cover	be present, unless disturbed or problematic.
1.	0 0.0%	
2-		Hydrophytic
VARIABLE MARKET AND	0 = Total Cover	Present? Yes No No
Remarks: (Include photo numbers here or on a separate The criterion for hydrophytic vegetation is met. Plot size complex.	,	wetland. Shrub carr / fresh (wet) meadow wetland

Sampling Point: SP-1 SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Depth Color (moist) Color (moist) Type 1 Loc2 Texture % % (inches) Sandy Clay Loam 10YR 100 0-4 3/1 4-11 10YR 88 Sandy Clay 4/1 10YR 5/8 10 М 2 C 10YR 5/6 М 11-20 10YR 80 10YR 5/6 20 C Sandy Clay ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils 3 : __ Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) ☐ Iron Manganese Masses (F12) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) ☐ Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) 2 cm Muck (A10) Other (Explain in Remarks) ✓ Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) ☐ Thick Dark Surface (A12) Depleted Dark Surface (F7) ³ Indicators of hydrophytic vegetation and Sandy Muck Mineral (S1) wetland hydrology must be present, Redox Depressions (F8) 5 cm Mucky Peat or Peat (S3) unless disturbed or problematic. Restrictive Layer (if observed): Type: None No O **Hydric Soil Present?** Yes 💿 Depth (inches): NA Remarks: The criterion for hydric soil is met. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) ✓ High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) ✓ Saturation (A3) True Aquatic Plants (B14) Dry Season Water Table (C2) Crayfish Burrows (C8) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) FAC-Neutral Test (D5) Thin Muck Surface (C7) ☐ Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Yes 🔾 No 💿 Depth (inches): Surface Water Present? Yes 💿 No O Water Table Present? Depth (inches): Yes 💿 No O Wetland Hydrology Present? Saturation Present? Yes 💿 No O Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Based on WETS analysis, antecedent hydrologic conditions were within a normal range. The criterion for wetland hydrology is met.

Remarks:

WETS analysis, WWI map, Soils map, aerial imagery, prior delineation

Project/Site: Carlisle Interconnect		City/Cou	nty: Franklin / Mi	ilwaukee Sampling Date: 11-May-16
Applicant/Owner: Carlisle Interconnect				WI Sampling Point: SP-2
Investigator(s): Ron Londré, Amanda I				S 26 T 5N R 21E
Landform (hillslope, terrace, etc.): Sho	ulder slene		Local relief (concave, convex, none): convex
(memoria		assamman anaman and an anaman and an		Datum:
Slope: 6.0% 3.4 ° Lat.:	-last (AsA)		ard.	NAT clarafication. Name
Soil Map Unit Name: Ashkum silty o		Ves (a) No) (If no ex	NWI classification: <u>None</u> xplain in Remarks.)
Are climatic/hydrologic conditions on th Are Vegetation $lacksquare$, Soil $lacksquare$, or Hydrology	significantly disturbed		prmal Circumstances" present? Yes O No
Are Vegetation, Soil	, or Hydrology	naturally problemation	? (If nee	ded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - A	Attach site map sh	nowing sampling	point locatio	ns, transects, important features, etc.
Hydrophytic Vegetation Present?	Yes ○ No •			
Hydric Soil Present?	Yes 🔾 No 💿		Is the Sampled A	
Wetland Hydrology Present?	Yes 🔾 No 💿		WILLIIII a Welland	Yes O No O
Remarks:				
	e to mowing of vegeta	tion. Based on the a	absence of all thre	ee parameters, this point is located in an upland.
	5 5			
VEGETATION - Use sci	entific names of p		ninant cies? ————	
T 01 1 (Plot size: 15' v 150'	,	Absolute Rel.	Strat, Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 15' x 150'			over Status 0.0%	Number of Dominant Species
1			0.0%	That are OBL, FACW, or FAC: 1 (A)
2		0 🗆	0.0%	Total Number of Dominant
4.		Λ	0.0%	Species Across All Strata: (B)
5.		O STORAGE STORAGE	0.0%	Percent of dominant Species
en el miner de manuer el el mentre transmente transmentation de la manuer de manuer de la manuel de la maleur d	993 - N. S. S. A. S. L. A. S. S. S. A. S.		tal Cover	That Are OBL, FACW, or FAC: 50.0% (A/B)
Sapling/Shrub Stratum (Plot size: 1	.5' x 50'	Wilder And Control of the Control of		Prevalence Index worksheet:
1,		0	0.0%	Total % Cover of: Multiply by:
2.		Δ	0.0%	OBL species 0 x 1 = 0
3.	maggazamout com tumout tronscriptorum at the control to the contro	0 🖳	0.0%	FACW species 0 x 2 = 0
4.			0.0%	FAC species $35 \times 3 = 105$
5.		minutes secure com-	0.0%	FACU species 53 x 4 = 212
Herb Stratum (Plot size: 5' r)	0 = To	tal Cover	UPL species $10 \times 5 = 50$
1 Poa compressa		40 🗸	10.8% FACU	Column Totals: 98 (A) 367 (B)
2. Poa pratensis	entraktionen val 1888 et 1988 ik 15. topke vetar i i i konstru vetar om et en	30	30.6% FAC	Prevalence Index = B/A = 3.745
3, Daucus carota	enis is senioris. Si 1992 (1992) il 1994 il 19	10 🗆 1	10.2% UPL	Hydrophytic Vegetation Indicators:
4. Medicago sativa	and the transmission of the Committee of the Spiritual State of the	5	5.1% FACU	1 - Rapid Test for Hydrophytic Vegetation
	eman e saarende ee't ele ee't ta 1 afterde ee't Verente gegeneer ee te		5.1% FAC	2 - Dominance Test is > 50%
	arene e e e e e e e e e e e e e e e e e e	name community promi	5.1% FACU	3 - Prevalence Index is ≤3.0 ¹
•			3.1% FACU	4 - Morphological Adaptations ¹ (Provide supporting
8. 9.			0.0%	data in Remarks or on a separate sheet)
10			0.0%	Problematic Hydrophytic Vegetation ¹ (Explain)
		nayayaya magaretanan yenne yanan a	tal Cover	1 Indicators of hydric soil and wetland hydrology must
Woody Vine Stratu (Plot size: 15		,,	un CUVIII	be present, unless disturbed or problematic.
1.	onga i finahari sergamen nemanamen erremanamen erremana erremana erremana erremana erremana erremana erremana e		0.0%	Hydrophytic
2.	regret / to promise to construct a state of the first of the state of	AND ADDRESS OF THE PARTY OF THE	0.0%	Hydrophytic Vegetation
		0 = To	tal Cover	Present? Yes No 💿
Bassalia (Tuali la lata a la		b \		*
Remarks: (Include photo number	•	•		
Vegetation significantly disturbed not met.	I due to recent mowing	J. Although mowed,	vegetation is still	identifiable. The criterion for hydrophytic vegetation is
HOCHICG				

SOIL	Sampling Point:	SP-2
JULE		J-d-120/12-www.max.landamen.com

•		Matrix	ONE CONTRACTOR OF THE CASE		and the second	ox Featu	area and management of the contract of the con	aurania arraman manar	•
(inches)	Color (ı	noist)	%	Color	moist)	%	Type 1	Loc ²	Texture
0-12	10YR	4/3	60	Factoria de sociologo de Propositiva de	a recommendation of the second	Vannana Janes Vannana	nt manufacturentementaria	mer montane construction construction	Sandy Clay Loam
	10YR	5/3	40	VIII.ORIA/III.EEEEEEEEE		American agencia de Celendo	or entreverselle	Danish and Comment of the Comment	CONTRACTOR
12-20	10YR	5/4	96	10YR	4/2	2	D	М	Sandy Clay
	Sallesteinnagsantharmanning g			10YR	5/6	2	С	М	
ents - establish bekaneel besseen	Strategieser American P		anamana anamana anaman an Sao	nanonous est est est est est est est est est es	a università della constante d	~394W.CREAPWZ/EDE	n sensiteratunasi	1550 de littor va 1550 a cha de ind	
	garantamannan nataranad s	neraporo, para la construent de la const	1000 CONTRACTOR (CONTRACTOR)			paramo 4 sanara anticario a	The partitional distribution of the partition of the part	**************************************	
ype: C=Con	centration, D	=Depletion	, RM=Reduc	ed Matrix,	CS=Covere	d or Coat	ed Sand Gr	ains.	² Location: PL=Pore Lining. M=Matrix.
ydric Soil I	ndicators:								Indicators for Problematic Hydric Soils 3:
Histosol (•			Sa	ndy Gleyed I	Matrix (S4	4)		Coast Prairie Redox (A16)
	pedon (A2)			Sa	ndy Redox (S5)			Dark Surface (S7)
Black Hist				☐ Str	ipped Matrix	(S6)			☐ Iron Manganese Masses (F12)
	Sulfide (A4)			Lo	amy Mucky I	Mineral (F	1)		
_	Layers (A5)			Lo	amy Gleyed	Matrix (F	2)		☐ Very Shallow Dark Surface (TF12)
_ 2 cm Muc	, .			De	pleted Matri	x (F3)			Uther (Explain in Remarks)
_ '	Below Dark S	-	.1)	Re	dox Dark Su	ırface (F6)		
_	k Surface (A1	-			pleted Dark	•	•		³ Indicators of hydrophytic vegetation and
	ck Mineral (S	-		☐ Re	dox Depress	ions (F8)			wetland hydrology must be present,
	ky Peat or Pe	at (S3)				. ,			unless disturbed or problematic.
	ayer (if obs	erved):							
man						one and an incident			
Type: N	one							- Announce	Under Call Discount O. Mar (a)
Depth (inc	hes): <u>NA</u>			adalah kabudah		t was co	onstructed	. The crit	Hydric Soil Present? Yes No erion for hydric soil is not met.
Depth (inc temarks: oils appears	hes): <u>NA</u> to be fill m			adalah kabudah		t was co	onstructed	. The crit	
Depth (inc Remarks: pils appears	hes): NA to be fill m	aterial fro		adalah kabudah		t was co	onstructed	. The crit	
Depth (income De	to be fill m OGY Irology Indi	aterial fro	m when ar	n adjacen	t parkinglo	t was cc	onstructed	. The crit	
Depth (incoments) Remarks: Dils appears YDROLC Vetland Hyderimary Indica	to be fill m OGY Irology Indiators (minimum	aterial fro	m when ar	n adjacen	t parkinglo nat apply)	NOTIFIC TO A STREET OF STREET OF STREET	Al-waller Albertanen konfels-rekol	. The crit	erion for hydric soil is not met. Secondary Indicators (minimum of two required
Depth (included line) Demarks: Dils appears YDROLO Vetland Hydrimary Indica Surface W	to be fill m OGY Irology Indiators (minimulater (A1)	cators:	m when ar	n adjacen	t parkinglo nat apply) Water-Staine	d Leaves	Al-waller Albertanen konfels-rekol	. The crit	erion for hydric soil is not met. Secondary Indicators (minimum of two required Surface Soil Cracks (B6)
Depth (incoments) Primary Indicates Surface Welland Hyde Grimary Indicates High Wate	to be fill m OGY Irology Indi ators (minimal /ater (A1) er Table (A2)	cators:	m when ar	n adjacen	t parkinglo nat apply) Water-Staine Aquatic Faur	ed Leaves na (B13)	(B9)	. The crit	erion for hydric soil is not met. Secondary Indicators (minimum of two required
Depth (income Depth (income Depth (income Depth (income Depth Dept	to be fill m OGY Irology Indiators (minimal vater (A1) er Table (A2) en (A3)	cators:	m when ar	theck all th	t parkinglo nat apply) Water-Staine Aquatic Faur Frue Aquatic	d Leaves na (B13) Plants (E	(B9) 314)	. The crit	Secondary Indicators (minimum of two required Surface Soil Cracks (86) Drainage Patterns (B10) Dry Season Water Table (C2)
Depth (income per per per per per per per per per pe	to be fill m DGY Irology Indiators (minimal vater (A1) er Table (A2) n (A3) rks (B1)	cators:	m when ar	theck all th	t parkinglo nat apply) Water-Staine Aquatic Faur Frue Aquatic Hydrogen Su	id Leaves na (B13) : Plants (E	(B9) 314) sr (C1)		Secondary Indicators (minimum of two required Surface Soil Cracks (B6) Drainage Patterns (B10) Dry Season Water Table (C2) Crayfish Burrows (C8)
Depth (incomments) Primary Indicate Water Mail Saturation Water Mail Sediment	to be fill m DGY Irology India ators (minimum) rer Table (A2) n (A3) rks (B1) Deposits (B2)	cators:	m when ar	check all th	t parkinglo nat apply) Water-Staine Aquatic Faur Frue Aquatic Hydrogen Su Oxidized Rhiz	nd Leaves na (B13) Plants (E nlfide Odo zospheres	(B9) B14) er (C1) s on Living		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)
Primary Indicators YDROLO Yetland Hyde Primary Indicators Surface Walter Made Saturation Water Made Sediment Drift Depositions	to be fill m DGY Irology India ators (minimum /ater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2) osits (B3)	cators:	m when ar	check all ti	t parkinglo nat apply) Water-Staine Aquatic Faur Frue Aquatic Hydrogen Su Dxidized Rhi Presence of I	d Leaves la (B13) Plants (E lifide Odo zospheres Reduced	(B9) B14) or (C1) s on Living Iron (C4)	Roots (C3)	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)
Pepth (income per per per per per per per per per pe	to be fill m DGY Irology India ators (minimum) /ater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2) osits (B3) or Crust (B4)	cators:	m when ar	theck all the	t parkinglo nat apply) Water-Staine Aquatic Faur Frue Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron	ed Leaves la (B13) Plants (E lifide Odo zospheres Reduced Reduction	(B9) B14) or (C1) s on Living Iron (C4) on in Tilled S	Roots (C3)	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)
Pepth (income pepth (income pepth (income pepth (income pepth pept	to be fill m DGY Irology Indiators (minimul/ater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2) osits (B3) or Crust (B4) osits (B5)	cators: om of one	om when ar	theck all ti	t parkinglo nat apply) Water-Staine Aquatic Faur Frue Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron I	ed Leaves ha (B13) Plants (E lifide Odo zospheres Reduced Reduction urface (C	(B9) 314) or (C1) s on Living Iron (C4) on in Tilled S 7)	Roots (C3)	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)
Pepth (incomendation) Petrand Hydrimary Indical Surface Water Mall Sediment Drift Depo	to be fill m DGY Irology Indiators (minimum (A2)) or (A3) rks (B1) Deposits (B2) or Crust (B4) osits (B5) n Visible on Minimum (A3)	cators: um of one	om when ar	check all the	t parkinglo nat apply) Water-Staine Aquatic Faur Frue Aquatic Hydrogen Su Dxidized Rhi Presence of I Recent Iron I Thin Muck St Gauge or We	ed Leaves na (B13) Plants (E ilfide Odo zospheres Reduced Reduction wurface (C ell Data (I	(B9) 314) or (C1) s on Living Iron (C4) on in Tilled S 7) D9)	Roots (C3)	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)
Pepth (incomendation) Petrand Hydrimary Indical Surface Water Mall Sediment Drift Depo	to be fill m DGY Irology Indiators (minimul/ater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2) osits (B3) or Crust (B4) osits (B5)	cators: um of one	om when ar	check all the	t parkinglo nat apply) Water-Staine Aquatic Faur Frue Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron I	ed Leaves na (B13) Plants (E ilfide Odo zospheres Reduced Reduction wurface (C ell Data (I	(B9) 314) or (C1) s on Living Iron (C4) on in Tilled S 7) D9)	Roots (C3)	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)
Pepth (incontent of the content of t	to be fill m OGY Irology Indiators (minimal vater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2) osits (B3) or Crust (B4) osits (B5) n Visible on A Vegetated Co	cators: um of one Aerial Imag	is required; of the service of the s	check all the	t parkinglo nat apply) Water-Staine Aquatic Faur Frue Aquatic Hydrogen Su Dixidized Rhi: Presence of I Recent Iron I Thin Muck St Gauge or We Other (Expla	d Leaves a (B13) Plants (E ilfide Odo zospheres Reduced Reductior urface (C) Il Data (I In in Rem	(B9) 314) or (C1) s on Living Iron (C4) on in Tilled S 7) D9) aarks)	Roots (C3)	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)
Pepth (income control of the control	to be fill m logy lrology Indiators (minimal vater (A1) er Table (A2) er (A3) erks (B1) Deposits (B2) esits (B3) or Crust (B4) esits (B5) en Visible on A vegetated Co	cators: um of one	is required; of the service of the s	check all the	t parkinglo nat apply) Water-Staine Aquatic Faur Frue Aquatic Hydrogen Su Dixidized Rhi: Presence of I Recent Iron I Thin Muck St Gauge or We Other (Expla	d Leaves a (B13) Plants (E ilfide Odo zospheres Reduced Reductior urface (C) Il Data (I In in Rem	(B9) 314) or (C1) s on Living Iron (C4) on in Tilled S 7) D9)	Roots (C3)	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)
Depth (income property) Property Indicates the Indicates t	to be fill m DGY Irology India ators (minimum) ater (A1) ar Table (A2) ar (A3) beth (A3) or Crust (B4) beth (B5) ar Visible on A Vegetated Co ations:	cators: um of one Aerial Imagnosus Surf	is required; of the service (B7) face (B8)	theck all the	t parkinglo nat apply) Water-Staine Aquatic Faur Frue Aquatic dydrogen Su Dxidized Rhiz Presence of I Recent Iron I Thin Muck St Gauge or We Other (Expla	ed Leaves la (B13) Plants (E lifide Odo zospheres Reduced Reductior urface (C ell Data (I lin in Rem	(B9) B14) BY (C1) BY ON LIVING BY ON THE STATE OF STATE O	Roots (C3)	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)
Depth (incomendation) Permarks: Depth (incomendation) Permary Indication Water Mater Table Paturation Preservater Mater Table Paturation Preservater Mater Mat	to be fill m DGY Irology Indiators (minimulators (Minimu	cators: um of one Aerial Imag ncave Surf	is required; of the second sec	check all the	t parkinglo nat apply) Water-Staine Aquatic Faur Frue Aquatic Hydrogen Su Dividized Rhi: Presence of I Recent Iron I Fhin Muck St Gauge or We Other (Expla	ed Leaves na (B13) Plants (E ilfide Odo zospheres Reduced Reductior urface (C ell Data (I in in Rem nes):	(B9) 314) or (C1) s on Living Iron (C4) on in Tilled S 7) D9) narks)	Roots (C3)	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)
Depth (incoments) YDROLC YDROLC Yetland Hyd Frimary Indication Surface Water Mail Sediment Drift Deptem Inundation Sparsely Water Mail Iron Deptem Inundation Sparsely Water Water Table Paturation Preincludes capil	to be fill m logy loogy Indiators (minimal log) respectively rater (A1) rer Table (A2) respectively respect	cators: um of one Aerial Imag ncave Surf Yes Yes	is required; of the second of	theck all the	t parkinglo nat apply) Water-Staine Aquatic Faur Frue Aquatic Hydrogen Su Dixidized Rhiz Presence of I Recent Iron I Thin Muck St Gauge or We Other (Expla Depth (incl Depth (incl	ad Leaves ha (B13) Plants (E lifide Odo zospheres Reduced Reductior urface (C ell Data (I in in Rem hes):	(B9) B14) Fr (C1) Fr on Living Fron (C4) Fr on Tilled S Fr	Roots (C3)	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)
Depth (incomendation) Permarks: Depth (incomendation) Permary Indication Surface Water Mater Mater Table Paturation Prediction P	to be fill m DGY Irology Indiators (minimum / ater (A1) er Table (A2) in (A3) rks (B1) Deposits (B2) osits (B3) or Crust (B4) sits (B5) in Visible on A Vegetated Co ations: Present? isent? lary fringe) orded Data	cators: Im of one Aerial Imag ncave Surf Yes Yes (stream	is required; of the second sec	theck all the characteristics of the characte	t parkinglo nat apply) Water-Staine Aquatic Faur Frue Aquatic Hydrogen Su Dixidized Rhi: Presence of I Recent Iron I Thin Muck St Gauge or We Other (Expla	id Leaves la (B13) Plants (E lifide Odo zospheres Reduced Reductior urface (C ell Data (I in in Rem nes): nes): photos,	(B9) B14) Fr (C1) Fr on Living Fron (C4) Fr on Tilled S Fr	Roots (C3)	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)
Depth (incomendation) Primary Indicomendation Surface Wetland Hyder High Water Ma Sediment Drift Depter Algal Mat Iron Depter Inundation Sparsely water Table Periodudes capil	to be fill m DGY Irology Indiators (minimum / ater (A1) er Table (A2) in (A3) rks (B1) Deposits (B2) osits (B3) or Crust (B4) sits (B5) in Visible on A Vegetated Co ations: Present? isent? lary fringe) orded Data	cators: Im of one Aerial Imag ncave Surf Yes Yes (stream	is required; of the second sec	theck all the characteristics of the characte	t parkinglo nat apply) Water-Staine Aquatic Faur Frue Aquatic Hydrogen Su Dixidized Rhi: Presence of I Recent Iron I Thin Muck St Gauge or We Other (Expla	id Leaves la (B13) Plants (E lifide Odo zospheres Reduced Reductior urface (C ell Data (I in in Rem nes): nes): photos,	(B9) B14) Fr (C1) Fr on Living Fron (C4) Fr on Tilled S Fr	Roots (C3)	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)

Project/Site: Carilsle Interconnect	City/County: Fr	ranklin / Milwaukee Sampling Date: 11-May-16
Applicant/Owner: Carlisle Interconnect / JP Cullen	nove w an extrement to be become an extreme a substance / programman group (physically in p. 1755 g. 1751 s (1881 g. 1755)	State: WI Sampling Point: SP-3
Investigator(s): Ron Londré, Amanda Larsen		
		cal relief (concave, convex, none): concave
	HPROPERTY STATEMENT AND	\$\$\$\$\$\$\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Slope: 0.0% 0.0 ° Lat.:		
Soil Map Unit Name: Ashkum silty clay loam (AsA)		NWI classification: T3/F2K
Are climatic/hydrologic conditions on the site typical for this time of		(*)
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "Normal Circumstances" present? Yes Wes No
Are Vegetation	naturally problematic?	(If needed, explain any answers in Remarks.)
		Tocadons, aransecto, important reactive, eco
	Is the S	Sampled Area
	within a	a Wetland? Yes No
Wetland Hydrology Present? Yes • No •		
Based on the presence of all three parameters, this point VEGETATION - Use scientific names of pla		
(0) 1 2014	Absolute Rel.Strat, I	
Tree Stratum (Plot size: 30' r	% Cover Cover	Status Number of Dominant Species
1. Fraxinus pennsylvanica		FACW That are OBL, FACW, or FAC: 6 (A)
2.		Total Number of Dominant
4		Species Across All Strata: 6 (B)
5.		Percent of dominant Species
Tabus 400 (CabACETAM Newsonsonson) and a second America Americ	5 = Total Cover	That Are OBL, FACW, or FAC: 100.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15' r)	***************************************	Prevalence Index worksheet:
1. Fraxinus pennsylvanica	5 🗹 45.5%	FACW Total % Cover of: Multiply by:
2. Acer negundo		FAC OBL species 110 x 1 = 110
3. Salíx bebbiana		FACW FACW species $26 \times 2 = 52$
4.	0 0.0%	FAC species $\frac{6}{3}$ x 3 = $\frac{18}{3}$
5	0 0.0%	FACU species $6 \times 4 = 24$
Herb Stratum (Plot size: 5' r	11 = Total Cover	UPL species $5 \times 5 = 25$
1. Typha angustifolia	60 🗹 43.8%	OBL Column Totals: 153 (A) 229 (B)
2. Carex stricta	40 20 20	OBL Prevalence Index = B/A = 1,497
3. Symphyotrichum puniceum	10 7.3%	OBL Hydrophytic Vegetation Indicators:
4. Euthamia graminifolia	8 5.8%	FACW 1 - Rapid Test for Hydrophytic Vegetation
5. Daucus carota	5 3.6%	UPL ✓ 2 - Dominance Test is > 50%
6. Solidago gigantea	Total territoria (committee parties of the committee parties of the com	FACW 3 - Prevalence Index is <3.0 1
7. Barbarea vulgaris		FAC 4 Mountained Adoutations 1 (Provide supporting
8. Cirsium vulgare		data in Remarks or on a separate sheet)
9. Sonchus arvensis 10.	unon contractor uno uno uno contractor (a	FACU Problematic Hydrophytic Vegetation ¹ (Explain)
war an marani wa marani wa marani wa marani wa kata kata kata kata kata kata kata k	0 0.0% 137 = Total Cover	1 Indicators of hydric soil and wetland hydrology must
Woody Vine Stratu (Plot size: 30' r)	137 – TORRI COVEI	be present, unless disturbed or problematic.
1.	0 0.0%	NAME OF THE PARTY
2		Hydrophytic Vegetation
	0 = Total Cover	
		L
Remarks: (Include photo numbers here or on a separate The criterion for hydrophytic vegetation is met. Shallow	•	nt community.

SOIL									Sampling Point: SP-3
Profile Desci	ription: (De	scribe to t	he depth :	needed t	documen	t the ind	licator or	confirm the	e absence of indicators.)
Depth		Matrix	www.www.comes.eo.	CAS A SECTION AS CONTRACTOR AND ACCOUNT	Red	ox Feat			••
(inches)	Color	(moist)	.%.	Type 1	Loc2	Texture Remarks			
0-7	10YR	3/1	95	5YR	4/6	5	С	M	Sandy Clay Loam
7-11	10YR	2/1	90	10YR	5/6	10	C	M	Sandy Clay
11-23	10YR	4/1	70	10YR	5/6 	30	C	M	Sandy Clay
						***************************************	annu and i municipality		
			D MARTINIA PROGRAMMANIA - A				NATE SEATTLESSON PROBLEMS		
ype: C=Con	centration, D	=Depletion	, RM=Redu	ced Matri	c, CS=Cover	ed or Coa	ated Sand G	irains.	² Location: PL=Pore Lining. M=Matrix.
	Indicators:								Indicators for Problematic Hydric Soils 3 :
☐ Histosol (. ,				andy Gleyed		64)		Coast Prairie Redox (A16)
_	pedon (A2)				andy Redox	• •			Dark Surface (S7)
Black Hist	uc (A3) 1 Sulfide (A4)			_	tripped Matr				Iron Manganese Masses (F12)
¬ ` -				_	oamy Mucky		• ′		☐ Very Shallow Dark Surface (TF12)
2 cm Muc	Layers (A5)				oamy Gleyed	•	F2)		
=	ck (A10) Below Dark S	Fundace (A4	1)	_	epleted Matı	, ,			U Other (Explain in Remarks)
~~		,	.1)	⊻ R	edox Dark S	urface (F	6)		
-	rk Surface (A:	•		D	epleted Darl	Surface	(F7)		³ Indicators of hydrophytic vegetation and
	uck Mineral (S	•		R	edox Depres	sions (F8	3)		wetland hydrology must be present,
	cky Peat or Pe								unless disturbed or problematic.
	ayer (if obs								
Type: _N	hes): NA		· LIEBULL AND THE PROPERTY LANGE	***************************************			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Hydric Soil Present? Yes No
lemarks:	/ mak.Elekanana			uncas-rine					
YDROLO									
_	drology Indi								
rimary Indic	ators (minim	um of one i	is required;	check all	that apply)				Secondary Indicators (minimum of two required
Surface V ■ Surfa	Water (A1)			[]	Water-Stain	ed Leave	s (B9)		Surface Soil Cracks (B6)
	er Table (A2))			Aquatic Fau	na (B13)			Drainage Patterns (B10)
Saturatio	n (A3)			<u>[]</u>	True Aquati	c Plants ((B14)		Dry Season Water Table (C2)
Water Ma	arks (B1)			[]	Hydrogen S	ulfide Od	or (C1)		Crayfish Burrows (C8)
Sediment	t Deposits (B2	2)			Oxidized Rh	izosphere	es on Living	Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift Dep	osits (B3)				Presence of	Reduced	Iron (C4)		Stunted or Stressed Plants (D1)
Algal Mat	t or Crust (B4)			Recent Iron	Reduction	n in Tilled :	Soils (C6)	Geomorphic Position (D2)
Iron Dep	osits (B5)				Thin Muck S	Surface (0	C7)		FAC-Neutral Test (D5)
Inundatio	on Visible on a	Aerial Imag	jery (87)		Gauge or W	ell Data	(D9)		
Sparsely	Vegetated Co	oncave Surf	ace (B8)		Other (Expl	ain in Rei	marks)		
eld Observ	ations:								·
ırface Wate		Yes (O No @	•	Depth (inc	:hes):			
ater Table F		Yes ⁽	● No (\supset			14		
aturation Pro	esent?	Yes (3	Wet	land Hydrology Present? Yes 💿 No 🔾
	illary fringe)								c) if availables
							previous	mspection:	s), if available:
······································	sis, WWI m	ap, Solls r	nap, aeria	ı ımager)	, prior dell	ieation			
emarks:									
an on a l	METS analy	reis antec	edent hyd:	rologia a	anditions w	ere with	in a norm	al range i	The criterion for wetland hydrology is met. Sample no

~ 3' lower in elevation than SP-2.

Project/Site: Carlisle Interconnect		City/Cou	inty: Franklin / Mi	lwaukee Sampling Date: 11-May-16		
Applicant/Owner: Carlisle Interconnect				WI Sampling Point: SP-4		
investigator(s): Ron Londré, Amanda L						
Landform (hillslope, terrace, etc.): Back		CANAND CONTRACT TO SECURITION OF SECURITION		elief (concave, convex, none): convex		
Slope: 3.0% 1.7 ° Lat.:	iovaneenamenamenteenamenouveenamenouveen	*	ong,:	la moderna menemo e remonos como o e remo sou amod la colomo e acomerco disolado e de la mode de la mode de la medida de la la medida de la		
				NIA/T - In 1C 11 TOA		
Soil Map Unit Name: Ashkum silty c	lay loam (AsA)	s - Vac 💿 N	0 (75 no o)	NWI classification: T3K		
are climatic/hydrologic conditions on the				rplain in Remarks.)		
Are Vegetation , Soil ,	, or Hydrology	significantly disturbe	d? Are "No	ormal Circumstances" present? Yes V No V		
Are Vegetation, Soil	, or Hydrology	naturally problemation	`	ded, explain any answers in Remarks.)		
		iowing sampling	y point rocation	ns, transects, important features, etc.		
Hydrophytic Vegetation Present?	Yes No 💿		Is the Sampled A	area		
Hydric Soil Present?	Yes No		within a Wetland			
Wetland Hydrology Present?	Yes O No 💿					
Remarks: Based on the absence of two of the VEGETATION - Use scientific to the scientific transfer of transfer of the scientific transfer of transfer of the scientific transfer of tra		lants. Dor	n upland. minant ecies?			
To a / District 30' r	1	Absolute Rel	Strat, Indicator	Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size: 30' r 1. Quercus alba		C=1	over Status 66.7% FACU	Number of Dominant Species		
Ostrya virginiana	ANTENNA CONTRACTOR PROPERTY ANTENNA CONTRACTOR CONTRACT	NECTORIAL SERVICES PARK	22.2% FACU	That are OBL, FACW, or FAC: 1 (A)		
3. Fraxinus pennsylvanica	encontrato e tanone su se sensua supre e sensualmente supra supre supre supre supre supre supre supre supre su	5	11.1% FACW	Total Number of Dominant		
4.		_ [-1	0.0%	Species Across All Strata: 7 (B)		
5.			0.0%	Percent of dominant Species		
de bort Table and de la condicion remonencien de enemente en	A CONTRACTOR OF THE PROPERTY O		tal Cover	That Are OBL, FACW, or FAC: 14.3% (A/B)		
Sapling/Shrub Stratum (Plot size: 15	5' r)			Prevalence Index worksheet:		
1. Prunus virginiana			43.1% FACU	Total % Cover of: Multiply by:		
	nar f Primaret I f Peter on a districtiva f i colonic de l'incorpora d'occident va renderate re	morrow versions	25.9% FAC	OBL species $0 \times 1 = 0$		
		meratura Subsequential State	25.9% FACU	FACW species <u>8</u> x 2 = <u>16</u>		
- E		3 🗆	5.2% FACU	FAC species 21 x 3 = 63		
MALAGORIA PEL MILLO LA PRINCIA PER PARA			0.0% otal Cover	FACU species 114 x 4 = 456		
Herb Stratum (Plot size: 5'r	mandred consists and	INTERNATIONAL PROPERTY.		UPL species 6 x 5 = 30		
		DEPOLE DESCRIPTION OF THE PERSON OF THE PERS	32,6% FACU	Column Totals: 149 (A) 565 (B)		
2. Taraxacum officinale			21.7% FACU	Prevalence Index = B/A = 3.792		
			6.5% FAC	Hydrophytic Vegetation Indicators:		
F ~	000 F 11.000 PT 1 TEC. 1 - 2 F 11.000 PT 10 PT 1	3 🗆	6.5% UPL 6.5% FACU	1 - Rapid Test for Hydrophytic Vegetation		
			6.5% FACU 6.5% FACW	2 - Dominance Test is > 50%		
			6.5% FAC	3 - Prevalence Index is ≤3.0 ¹		
0 -	egas susus errorus automos, est senant a tronscriptoris errorus (errorus errorus automos est senant errorus autom		6.5% FACU	4 - Morphological Adaptations 1 (Provide supporting		
9. Aster cordifolius			6.5% UPL	data in Remarks or on a separate sheet)		
10			0.0%	Problematic Hydrophytic Vegetation 1 (Explain)		
			ital Cover	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
Woody Vine Stratu (Plot size: 30'			0.0%	be present, unless disturbed of problematic.		
1.			0.0%	Hydrophytic		
2.	and a transfer of the second o		otal Cover	Vegetation Present? Yes ○ No ●		
		<u> </u>	rea Cuvel	i Gener		
Remarks: (Include photo number The criterion for hydrophytic vege	•	e sheet.)				

SOIL									Sampling Pol	nt: SP-4
Profile Desc	ription: (Des	cribe to t	he depth no	eded to	documen	t the indi	cator or c	onfirm th	e absence of indicators.)	
Depth		Matrix	•			lox Featu			·	
(inches)	Color (n		%	Color	(moist)	%	Type 1	Loc2	Texture	Remarks
0-5	10YR	3/1	100						Sandy Loam	
5-24	10YR	4/2	70	10YR	4/1	20	D	M	Sandy Clay	Transfer the transfer and a frage and a fr
3-24	TOIK	+/ Z		1017	- 1200-1200-1200-1200-1200-1200-1200-120		THE WATERWAY AND A PARTY	I*I SATAURENDINGURGE	n weensteen and the control of the c	
****************************	merenanta para para para para para para para pa	rana arismanina aa	samonous management Hose	10YR	5/6	10	C	M		A Maria M. I. M. 1888 Strand Control of the Strate Maria Control of Maria
TATALON BEAUTIFUL PROPERTY.	PHARLEMAN PROPERTY OF		***************************************		A INCOMENSATION OF THE PARTY OF	· Principal and	N VICILIER WATER WITH	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW		Name of the second
	saint Call Standard (Colored St.	anameronani	Manager of all and a heart and a short		4 -man-man-man-man-man-man-man-man-man-man			***************************************	м потельного принценти подать по подать п	AND ENGINEER OF THE PROPERTY O
Total Control of the	**************************************		arramanamanama kaar		• 1000000000000000000000000000000000000	· wearnwarewarewarewa	rk warmingsmentalander	gaves among experiences of the control	end — Nach and State Control of the Control of the Control of the State of State of the Control	
. #F4.44F844.44F4F11	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT		manii ma	LINET I LINE WILLIAM LA	Manage Ma	. ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, Jankaratan pangan	
¹ Type; C=Con	contration D-	-Doplation	DM-Poduce	nd Matrix	CS-Cover	ed or Coat	ad Sand Gr	aine	² Location: PL=Pore Lining, M	Matriv
		-Depletion	, KIII - REGUC	PIGUIX,	C3-CUVER	eu or coac	eu Sanu Gi	allis,		_
Hydric Soil									Indicators for Problema	itic Hydric Soils ³ :
Histosol (-				ndy Gleyed		+)		Coast Prairie Redox (A	16)
	pedon (A2)				ndy Redox				Dark Surface (S7)	•
Black His	tic (A3) 1 Sulfide (A4)				ipped Matri				☐ Iron Manganese Masse	as (F12)
_ , ,	, ,			Lo	amy Mucky	Mineral (F	1)		☐ Very Shallow Dark Sur	
	Layers (A5)			Lo	amy Gleyed	Matrix (F	2)			` '
2 cm Muc	` '			✓ De	pleted Matı	rix (F3)			Other (Explain in Rema	arks)
	Below Dark S	•	1)	Re	dox Dark S	urface (F6))			
	rk Surface (A1	•		De	pleted Dark	k Surface (F7)		³ Indicators of hydrophyti	c vegetation and
	uck Mineral (S	•		Re	dox Depres	sions (F8)			wetland hydrology m	ust be present,
5 cm Mud	cky Peat or Pe	at (S3)							unless disturbed or	problematic.
Restrictive L	ayer (if obse	rved):								
Type: _N	lone		remarkament er en	4810144 CONTROLETION	Martinga and Color of the Table 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		.,			
Depth (inc	ches): NA								Hydric Soil Present?	Yes 💿 No 🔾
Remarks:									•	
The criterion	for hydric so	oil is met.								

HYDROLO	DGY									
Wetland Hyd	drology Indic	ators:							· · · · · · · · · · · · · · · · · · ·	
·	ators (minimu		ic requireds d	heck all ti	nat annly)				Secondary Indicator	s (minimum of two required
E	Parameter Contract Co		and the second second		ranadora de la companione de la companio	ad Lanuar	(DO)	COLUMN DE DESCRIPTION DE LA COLUMN DE LA COL	Farty Communication Communication	medalina mana manana
r	Water (A1)				Water-Stain		(69)		Surface Soil Crac	` '
	ter Table (A2)				Aquatic Fau	• •			☐ Drainage Patterr	• •
Saturatio					rue Aquati				☐ Dry Season Wat	
Water Ma					tydrogen S				Crayfish Burrow:	
Sediment	t Deposits (B2))		_	Oxidized Rh	izospheres	on Living	Roots (C3)) Saturation Visibl	e on Aerial Imagery (C9)
Drift Dep	osits (B3)			i	Presence of	Reduced 1	Iron (C4)		Stunted or Stres	sed Plants (D1)
Algal Mat	t or Crust (B4)			i	Recent Iron	Reduction	in Tilled S	oils (C6)	Geomorphic Pos	ition (D2)
Iron Dep	osits (B5)				Thin Muck S	Surface (C7	7)		FAC-Neutral Tes	t (D5)
Inundatio	on Visible on A	erial Imag	ery (B7)		Gauge or W	'ell Data (D	9)			
	Vegetated Cor	-	, , .		Other (Expl	-	-			
			(/		Jerici (EXPI	atti iir ixean	unay			
Field Observ	ations									•
		Yes(⊃ No ⊙		Donth /inc	-back		1		
Surface Wate	r Present?							- 1		
Water Table I	Present?	Yes(⊃ No ⊙		Depth (inc	ches):	***************************************	···	dend made a 45	Yes ○ No •
Saturation Pro		Yes (O No ⊙		Depth (inc	thes):	4425111 28450 1111 N.S.		land Hydrology Present?	Yes O No 🖲
(includes capi										
							previous ii	nspection	s), if available:	
WETS analy	sis, WWI ma	p, Soils r	nap, aerial i	magery,	prior deli	neation				
Remarks:										
Based on a	WETS analys	is, anteo	edent hvdro	logic co	nditions w	ere withir	n a norma	il range.	The criterion for wetland hy	drology is not met.
	/-	,		J	****			J .	·- ,	-·

Project/Site: Carlisle Interconnect	laadad 1825-1914 S.S. Sellegge bern paat telemaa oo dalkaa terka ahka ka oo o	Ci	ty/County:	Franklin / Mi	lwaukee	Sampling Date:	11-May-16
Applicant/Owner: Carlisle Interconnect	: / JP Cullen			State:	WI	Sampling Point:	SP-5
Investigator(s): Ron Londré, Amanda I							
Landform (hillslope, terrace, etc.): Toe					concave, convex, nor		onen a vonton Mattalieta Historia Novice (Novice (Novice (Novice (Novice (Novice (Novice (Novice (Novice (Novi
pro transcensor							enter a vertical del letteral de Miller de Colonia Letteral de la lette de Miller
Slope: 0.0% 0.0 ° Lat.:			Longi	····			
Soil Map Unit Name: Ashkum silty o	clay loam (AsA)	. Voc	● No ○	/If no ou	plain in Remarks.)	ssification: <u>T3K</u>	
Are climatic/hydrologic conditions on th				(1) (10) (2)	•	" present? Yes	● No ○
Are Vegetation, Soil	()	significantly dis			ormal Circumstances	p. 000//01	9 110 0
Are Vegetation		naturally probl wina sam		•	ded, explain any ans	,	s, etc.
	Yes No		F 3 F	-			•
Hydrophytic Vegetation Present?	Yes No Yes		Is th	e Sampled A	irea		
Hydric Soil Present?			withi	in a Wetland	I? Yes 🖲 No	0	
Wetland Hydrology Present?	Yes ● No ○						
VEGETATION - Use sci	· · · · · · · · · · · · · · · · · · ·	nts.	Dominant — Species?				
Tree Stratum (Plot size: 30' r)	Absolute % Cover	Rei.Strat. Cover	Indicator Status	Dominance Test		
1. Fraxinus pennsylvanica		25	У 55.6%	FACW	Number of Domin That are OBL, FAG		.5 (A)
0 - "		4.0	22,2%	FACU			
3. Carpinus caroliniana			11.1%	FAC	Total Number of I Species Across All		6 (B)
	matrix kana anni t'i barri anni tri a anni ta anni anni a sa anni a sa dha dha dha dha dha dha dha dha dha dh	-	11,1%	FACU		Salvan	estate to encommonde any
5.		0	0.0%	ta weatherman	Percent of dom That Are OBL, f		3,3% (A/B)
to)	51 \	45	= Total Cov	er			CONTROL PRODUCTS 199
_Sapling/Shrub_Stratum (Plot size: 1					Prevalence Inde		
2 0-1	enteral contributation in the experience and experience are required to the experience of the entire and the en		72.3% 18.1%	FAC FACU	Total % C	I CAN INTERNATIONAL PROPERTY OF THE PROPERTY O	<u> </u>
Ostrya virginiana Crataegus crus-galli	rantenen van een en eeuwer en eeuwer vroeuwer en voorweer en vroeuwerke kommen veldelijk 2 k 1/22		6.0%	FAC	OBL species FACW species		100
	gerenne sente a rennera a se esta a renera esta ante esta assessa da desent en el Color (1971). O constitución de la constitución de la constitución de la constitución de la color (1971).		3.6%	FACU	FAC species	parameter states	279
C.			0.0%		FACU species		168
		83	= Total Cov	er	UPL species	0 x5=	0
Herb Stratum (Plot size: 5¹ r		20	✓ 35.1%	FACW	, Column Totals		547 (B)
O Bibos supochati			-			Selection of the select	
0 51		10	✓ 17.5% ✓ 17.5%	FAC	Prevalence	Index = B/A =	2.957
		ed consciously	8.8%	FACW		getation Indicators:	
The state of the s			5.3%	FACU	1	st for Hydrophytic Vege	etation
	The control of the co	_	5.3%	FAC	l	ce Test is > 50%	
m'	10-55-5 vonda 515 kanada esta esta actual esta esta esta esta esta esta esta esta		5.3%	FACU	I ==	ce Index is ≤3.0 ¹	
8. Prunus virginiana	25-64.64 kana-avorana manana wanana kanana an manana manana manana manana manana manana manana manana manana m	3	5.3%	FACU	4 - Morpholo data in Rema	ogical Adaptations ¹ (Pi arks or on a separate si	ovide supporting leet)
	gen gyegge mannan e wene er men an		0.0%	W - W. 120 F. 120 F		Hydrophytic Vegetatio	
10.	anna e en e		0.0%	na assensessammes.		hydric soil and wetland	
Woody Vine Stratu (Plot size: 30	'r)	57	= Total Cov	rer		ess disturbed or proble	
T		0	0.0%	NAS ALCHER CHARGE CONTRACTOR			
^			0.0%		Hydrophytic Vegetation	_ ~	
AMBRAT SAFAT		0	= Total Cov	er	Present?	Yes 💿 No 🔾	
	A.W.T.				l		
Remarks: (Include photo numbe	rs here or on a separate s	sheet.)					
The criterion for hydrophytic veg	etation is met. Mixed ha	rdwood swai	mp / Shrub	carr plant c	ommunity.		

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• 11	I E

Sampling Point: SP-5 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth		natrix		nuturalism Katalata Inc		ox reacur			····
(inches)	Color (m				moist)		Type 1	Loc2	Texture Remarks
0-10	10YR	2/1		10YR	5/8	15	C	М	Sandy Clay Loam
ROCKT VACUULAFIANDY PACIES	enandere de la company de l'est		fedololan marana lac-	10YR	5/2	10	D	M ************************************	MAYOSSAS ESTANDAS ESTA
10-24	10YR	5/1	60	10YR	5/8	20	C	M	Sandy Clay
	10YR	2/1	10	10YR	4/2	10	D	M	
ydric Soil In Histosol (A Histic Epip Black Histi Hydrogen Stratified I 2 cm Muck	.1) edon (A2) c (A3) Sulfide (A4) ayers (A5)	urface (A1		Sail Sail Str	ndy Gleyed ndy Redox I ipped Matri amy Mucky amy Gleyed pleted Matr dox Dark St	Matrix (S4) (S5) x (S6) Mineral (F1 Matrix (F2 ix (F3) urface (F6))	ns.	2Location: PL=Pore Lining. M=Matrix. 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)
7	k Mineral (S1				pleted Dark		7)		³ Indicators of hydrophytic vegetation and wetland hydrology must be present,
-	y Peat or Pea			∟ Re	dox Depres	sions (F8)			unless disturbed or problematic.
	yer (if obse								
Type: _No	-	-	MATERIAL MARIANTANA		***************************************				
Depth (inch	es):_NA	***************************************	ANTINA BITTINA BITTINA						Hydric Soil Present? Yes No
YDROLO	GY			· · · · ·	**				
etland Hydi	ology Indic	ators:							
rimary Indica	-		is required; c	heck all th	nat apply)				Secondary Indicators (minimum of two required
Surface W	ater (A1)		asen.coco.co.2021.aloc3c3c1.1.1.65	V ∨	Vater-Stain	ed Leaves (B9)	Caramina Manana	Surface Soil Cracks (B6)
digh Wate					Aquatic Faul		•		Drainage Patterns (B10)
Saturation				П	rue Aquatio	: Plants (B1	4)		Dry Season Water Table (C2)
Water Mar					lydrogen Si	ılfide Odor	(C1)		Crayfish Burrows (C8)
Sediment	Deposits (B2)				Oxidized Rh	zospheres	on Living Ro	oots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift Depo	sits (B3)			∏ F	resence of	Reduced Ir	on (C4)		Stunted or Stressed Plants (D1)
Algal Mat	or Crust (B4)			☐ F	Recent Iron	Reduction	in Tilled Soi	s (C6)	Geomorphic Position (D2)
Iron Depo	sits (B5)			T	hin Muck S	urface (C7)	t		FAC-Neutral Test (D5)
^	Visible on A	•			Gauge or W	ell Data (D	9)		
」 Sparsely V	egetated Con	cave Surf	ace (B8)		Other (Expla	in in Rema	rks)		
ield Observa	itions:							1	
urface Water	Present?	Yes (Depth (inc	hes):			
ater Table Pr	esent?	Yes	● No ○		Depth (inc	hes):	0		de dividual e de la Company
Munchine Dune	ent?	Yes (● No ○		Depth (inc	hes):	0	Wet	land Hydrology Present? Yes 💿 No 🔾
		165	~ (N) ~						
ncludes capill	ary fringe)				ell, aerial	photos, p	revious ins	pection	s), if available:
includes capill escribe Reco	ary fringe) orded Data (stream o	gauge, mon	itoring w			revious ins	pection	s), if available:
Saturation Presincludes capill Describe Reco VETS analysi Remarks:	ary fringe) orded Data (stream o	gauge, mon	itoring w			revious ins	pection	s), if available:

Project/Site: Carlisie Interconnect		City/C	County: Franklin / M	ilwaukee Sampling Date:	13-May-16
Applicant/Owner: Carlisle Interconnect					SP-6
Investigator(s): Ron Londré, Amanda L				: S 26 T 5N R 21E	***************************************
Landform (hillslope, terrace, etc.): Shou				concare course pone), copros	
Slope: 6.0% 3.4 ° Lat.:					
Soil Map Unit Name: Blount silt loan				NWI classification: None	
Are climatic/hydrologic conditions on the	site typical for this time	of year? Yes •	No O (If no, e	xplain in Remarks.)	
Are Vegetation , Soil	, or Hydrology	significantly distur		ormal Circumstances" present? Yes	No O
Are Vegetation, Soil	, or Hydrology	naturally problem	atic? (If ne	eded, explain any answers in Remarks.)	
SUMMARY OF FINDINGS - A	ttach site map sh	nowing sampli	ng point locatio	ns, transects, important features,	etc.
Hydrophytic Vegetation Present?	Yes O No 💿				
Hydric Soil Present?	Yes 🔾 No 💿		Is the Sampled within a Wetlan		
Wetland Hydrology Present?	Yes 🔾 No 💿		diam'r vesan	TES 🔾 NO 🙂	
Remarks:					
Based on the absence all three pa	rameters, this point is	located in an upl	and.		
VEGETATION - Use scie	antific names of n	lants n			
VEGETATION - OSE SCIE	——————————————————————————————————————	s	ominant Species?	I Designation Test and deback	
Tree Stratum (Plot size: 30' r)	Absolute R % Cover	el.Strat, Indicator Cover Status	Dominance Test worksheet:	
1. Quercus rubra		The state of the s	66.7% FACU	Number of Dominant Species That are OBL, FACW, or FAC:	3 (A)
2. Carya ovata			33,3% FACU		area weekly a
3,			0.0%	Total Number of Dominant Species Across All Strata:	5 (B)
4.	nty systymy a sermenenna von nora neromena nerom poete en en en esta en	0	0.0%	·	,
5.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	nativisionen variationen sakainen Adulut (N. V.) aldin (N. V.) (N. V.) (N. V.)		0.0%	Percent of dominant Species That Are OBL, FACW, or FAC: 50.	0% (A/B)
	ml .	15 =	Total Cover	macare obl., racv, or raci	
Sapling/Shrub Stratum (Plot size: 15). L		1	Prevalence Index worksheet:	
_	andronica (national and the control of the control			Total % Cover of: Multiply by	/basininanin/na
0	akan kanada beda atti otta teta teratua terattata eta territata eta teta teta teta teta teta teta	· · · · · · · ·	,		0
3. 4.			0.0%	TOTAL PROPERTY AND A STATE OF THE STATE OF T	0
5.	A Internal Manufacture and Property and Prop	0	0.0%		255 320
CATTERNAL AND			Total Cover		0
Herb Stratum (Plot size: 5' r	mar america acon	g faces and described as Australia.			THELONIAGEORY
	THE RESERVE THE PROPERTY OF TH		60.0% FACU		575 (B)
2 0	erri, stanina del delegio del delegio a documento del sinte e con estano del seguin socialista.	-	30.0% FAC 5.0% FAC	Prevalence Index = B/A = 3.4	85
A Francisco de designation		E	5.0% FACU	Hydrophytic Vegetation Indicators:	
5.			0.0%	1 - Rapid Test for Hydrophytic Vegeta	tion
6.		narrivettet	0.0%	2 - Dominance Test is > 50%	
7.			0.0%	3 - Prevalence Index is ≤3.0 ¹	
8.			0,0%	4 - Morphological Adaptations 1 (Providate in Remarks or on a separate sheet	ride supporting
9.	and the second section of the second	O	0.0%	Problematic Hydrophytic Vegetation ¹	-
10.		0	0.0%	1 Indicators of hydric soil and wetland h	,
Woody Vine Stratu (Plot size: 30'	r)	100 =	Total Cover	be present, unless disturbed or problema	
1.		0	0.0%		
2			0.0%	Hydrophytic Vegetation	
A			Total Cover	Present? Yes No •	
				1	
Remarks: (Include photo numbers	s here or on a separat	e sheet.)			
The criterion for hydrophytic vege	tation is not met.				

Depth		30,100 10 1	ne denth n	eeded to d	ocument	the indic	ator or co	ofirm th	e absence of indicators.)
(inches) 0-8		Matrix	me acpair ii	eeueu to u		ox Featur			e absence of indicators.
0-8	COIOLII	moist)	%	Color (n			_Type_1	Loc2	Texture Remarks
8-14	10YR	4/3	95	A Section of a series and a series of the se	77700-0190597778	Source of the	activity of the second	94	Sandy Clay Loam
8-14	10YR	2/1	5	evenouriement property pr	C. P. P. C. P. C. P. C. P. C. P. C. P. P. P. C. P.	умовличника	peranomenana mana	***************************************	The second secon
8-14	AUADUMOVACIONATESTATION N	EXAMPLE PROPERTY OF THE PARTY OF	ADMINISTRAÇÃO POR CONTRACTOR POR CON	VACUOUS AND	~300394E39E39E3	30	annamentamenta i		C. v. J. Clar
	10YR	5/3	65	10YR	5/6	20	C	М	Sandy Clay
NAME OF THE OWNER, WHEN THE OWNER,	As arministration and a		nonmoranaminamina ar	10YR	5/2	15	D	M	W THE STREET AND ALL PROPERTY OF THE STREET AND A STREET
	province continues and a	and a Programme of the Continue of the Continu	INTERNATIONAL AND	n annone de manero de la comprosa de	***************************************		Constantina establishment		A SACE STREET IN THE STREET AND ADDRESS OF THE STREET ADDRESS OF THE STREET ADDRESS OF THE STREET AND ADDRESS OF THE STREET AND ADDRESS OF THE STREET ADDRESS OF THE STREET AN
menas ballion ar endondo ra do um	SANTANIAN CONTRACTOR OF	and the second section of	Welling Stranger Committee 219	Almain annian annian de da	iteration resembly and order	American contract respectively	describer and describe		 Вательный подавительный поставительный выполняющей поставительный подавительный подавительный поставительный поставительны
THE PARTY OF THE P	veneral resources and an arrangement of an		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ni energia en removembro en hanada en 1860 - ser		,	,	Park at a Market a collection to the bit condition	ng and a man and an install defeated by the first from the first property of the first p
	nontrotles D			ad Matrix C	······································	d or Cooks	d Cand Cr		71 costions Di - Dava Lining M-Matrix
	ncentration, D	=Dehierion	I, RM≅Reduc	eu Mauix, C	3=Covere	ed or Coate	u Sanu Gr	11115.	² Location: PL=Pore Lining, M=Matrix.
Histosol	Indicators:			Sand	ly Glavad	Matrix (S4)	١		Indicators for Problematic Hydric Soils ³ :
_	ipedon (A2)			(****)	ly Redox (,		Coast Prairie Redox (A16)
Black His					ped Matri:	. ,			Dark Surface (S7)
] Hydroge	n Sulfide (A4)			<u> </u>	•	A (30) Mineral (F1	1)		☐ Iron Manganese Masses (F12)
] Stratified	l Layers (A5)					Matrix (F2			☐ Very Shallow Dark Surface (TF12)
2 cm Mu	ick (A10)				eted Matr		,		Other (Explain in Remarks)
_ Depleted	l Below Dark S	Surface (A1	.1)	_ `		urface (F6)			
_	ırk Surface (A1	-				: Surface (F			³ Indicators of hydrophytic vegetation and
	luck Mineral (S	-		Redo	x Depress	sions (F8)			wetland hydrology must be present,
_ 5 cm Mu	icky Peat or Pe	:at (S3)							unless disturbed or problematic.
e criterion	ı for hydric s	UII IS HOLI	net.						
YDROL									
etland Hy	drology Indi			book of the	· · · · · · · · · · · · · · · · · · ·				Connectors Tediantons (cointenant of two sequined
rimary Indic	drology Indicators (minimu		s reguired; c		ournette Insufed women	URANIA UHUMMA IA-PALA		1474.0FEN1 1/00/0004.backson	
rimary Indic	drology Indicators (minimu Water (A1)	ım of one i	s reguired; o	☐ Wa	ater-Staine	ed Leaves ((B9)	HITLERTON LANGUAGE, SIGNA	Surface Soil Cracks (B6)
rimary Indic	drology Indicators (minimu Water (A1) ter Table (A2)	ım of one i	s reguired; c	☐ Wa	ater-Staine uatic Faur	na (B13)	` ′	AND AND THE VARON AND AND AND AND AND AND AND AND AND AN	Surface Soil Cracks (B6) Drainage Patterns (B10)
rimary Indic Surface \ High Wa	drology Indicators (minimu Water (A1) ter Table (A2) on (A3)	ım of one i	is required; c	☐ Wa ☐ Aq ☐ Tru	ater-Staine uatic Faur ue Aquatic	na (B13) : Plants (B1	L4)		Surface Soil Cracks (B6) Drainage Patterns (B10) Dry Season Water Table (C2)
rimary Indic Surface \ High Wa\ Saturatio	drology Indicators (minimu Water (A1) ter Table (A2) on (A3) arks (B1)	um of one i	is reguired; c	Wa Aq Tru Hy	nter-Staine uatic Faur ue Aquatic drogen Su	na (B13) : Plants (B1 ulfide Odor	(C1)	onts (C3)	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry Season Water Table (C2) Crayfish Burrows (C8)
rimary Indio Surface V High War Saturatio Water M. Sedimen	drology Indicators (minimum Water (A1) ter Table (A2) on (A3) arks (B1) it Deposits (B2	um of one i	is required; o	Wa	ater-Staine uatic Faur ue Aquatic drogen Su idized Rhi	na (B13) : Plants (B1 ulfide Odor zospheres	L4) (C1) on Living F	oots (C3)	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
rimary Indice Surface V High War Saturatio Water M Sedimen Drift Dep	drology Indicators (minimum Water (A1) ter Table (A2) on (A3) arks (B1) it Deposits (B2) posits (B3)	um of one i	is reguired; c	Wa Wa Aq Tru Hy	ater-Stains uatic Faur ue Aquatic drogen Su idized Rhi esence of	na (B13) : Plants (B1 ulfide Odor zospheres Reduced Ir	(C1) (on Living F on (C4)	,	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)
rimary Indic Surface N High Wa Saturatic Water M Sedimen Drift Dep	drology Indicators (minimum Water (A1) ter Table (A2) on (A3) arks (B1) arks (B2) cosits (B3) t or Crust (B4)	um of one i	is required; c	Wa Aq Tru Hy	ater-Staine uatic Faur ue Aquatic drogen Su idized Rhi esence of cent Iron	na (B13) : Plants (B1 ulfide Odor zospheres Reduced Ir Reduction	(C1) (C1) on Living F ron (C4) in Tilled Sc	,	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)
rimary India Surface N High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep	drology Indicators (minimum Water (A1) ter Table (A2) on (A3) arks (B1) of Deposits (B2) cosits (B3) of Crust (B4) cosits (B5)	um of one i	and the second of the second o	Wa Aq Aq Hy Ox Pre	ater-Staine uatic Faur ue Aquatic drogen Su idized Rhi asence of cent Iron in Muck Si	na (B13) : Plants (B1 ulfide Odor zospheres Reduced Ir Reduction urface (C7)	(C1) (C1) on Living F ron (C4) in Tilled Sc	,	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)
rimary India Surface N High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep	drology Indicators (minimum Water (A1) ter Table (A2) on (A3) arks (B1) arks (B2) cosits (B3) t or Crust (B4)	um of one i	jery (B7)	Wa Aq Aq Tru Hy Ox Pre	ater-Staine uatic Faur ue Aquatic drogen Su idized Rhi esence of cent Iron in Muck Sa	na (B13) c Plants (B1 ulfide Odor zospheres Reduced Ir Reduction urface (C7) ell Data (D5	(C1) (C1) on Living F ron (C4) in Tilled Sc)	,	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)
rimary India Surface N High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep	drology Indicators (minimum Water (A1) ter Table (A2) on (A3) arks (B1) of Deposits (B2) cosits (B3) to Crust (B4) cosits (B5) on Visible on A	um of one i	jery (B7)	Wa Aq Aq Tru Hy Ox Pre	ater-Staine uatic Faur ue Aquatic drogen Su idized Rhi esence of cent Iron in Muck Sa	na (B13) : Plants (B1 ulfide Odor zospheres Reduced Ir Reduction urface (C7)	(C1) (C1) on Living F ron (C4) in Tilled Sc)	,	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)
rimary India Surface N High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep	drology Indicators (minimum Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on A	um of one i	gery (B7) Face (B8)	Wa Aq Aq Tru Hy Ox Pre Re Ga	ater-Staine uatic Faur ue Aquatic drogen Su idized Rhi esence of cent Iron in Muck Sa	na (B13) c Plants (B1 ulfide Odor zospheres Reduced Ir Reduction urface (C7) ell Data (D5	(C1) (C1) on Living F ron (C4) in Tilled Sc)	,	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)
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rimary Indio Surface V High Wat Saturatio Water M Sedimen Drift Dep Algal Mat Iron Dep Inundatio Sparsely	drology Indicators (minimum Water (A1) ter Table (A2) on (A3) arks (B1) of Deposits (B2) cosits (B3) of Crust (B4) cosits (B5) on Visible on A Vegetated Covations:	um of one i	gery (B7) Pace (B8)	Wa Aq Aq Tru Ay	ater-Staine uatic Faur ue Aquatic drogen Su idized Rhi esence of cent Iron in Muck Si uge or Wi her (Expla	na (B13) c: Plants (B1 ulfide Odor zospheres Reduced Ir Reduction urface (C7) ell Data (D9 sin in Rema	(C1) (C1) (C1) on Living F ron (C4) in Tilled Sc) (9)	ils (C6)	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)
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Based on a WETS analysis, antecedent hydrologic conditions were within a normal range. The criterion for wetland hydrology is not met.

Project/Site: Carlisle Interconnect	City	y/County: Fi	ranklin / Mi	lwaukee Sampling Date: 13-May-16
				WI Sampling Point: SP-7
nvestigator(s): Ron Londré, Amanda Larsen				The section of the se
				in the contract of the contrac
ETTERNIS ATTERNATION OF THE STATE OF THE STA	ernama ner anner af hant med taktabildat terte ett ditt di	UZAKINAZIZAKZIKINIKA		CARREST AND
Slope: 3.0% 1.7 ° Lat.:		Long.:		
Goil Map Unit Name: Blount silt loam (BIA)		2 0		NWI classification: None
Are climatic/hydrologic conditions on the site typical for this time o	f year? Yes	⊎ No ∪	(If no, ex	cplain in Remarks.)
Are Vegetation, Soil, or Hydrology	significantly dist	turbed?	Are "No	ormal Circumstances" present? Yes No
Are Vegetation 🔲 , Soil 🗌 , or Hydrology 🔲	naturally proble	ematic?	(If need	ded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map sho	wing samp	oling point	location	ns, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No				
Hydric Soil Present? Yes No			Sampled A a Wetland	
Wetland Hydrology Present? Yes No		WILLIAM	a weciailo	·· Yes S No C
Remarks:				
Based on the presence of all three parameters, this point	is located with	hin a wetland	1.	
, , , , , , , , , , , , , , , , , , , ,				
VEGETATION - Use scientific names of pla	nts.	Dominant - Species? —		
Tree Stratum (Plot size: 30' r)		Rei.Strat.	indicator	Dominance Test worksheet:
4 6 .	% Cover	Cover ✓ 41.7%	Status FACU	Number of Dominant Species
Carya ovata Fraxinus pennsylvanica	reaming George Contracts	✓ 41.7%	FACW	That are OBL, FACW, or FAC:
Quercus rubra	10		FACU	Total Number of Dominant
4.	0	0.0%		Species Across All Strata: 7 (B)
5.	Λ Ι	0.0%	A A STATE OF THE S	Percent of dominant Species
гражи вору, одун н 196, удрад о и «билемирали и в 197 - Сургуу, сунд айми удоной тилом болд доно или тологодойн табо бливаши и повит		= Total Cover		That Are OBL, FACW, or FAC: 71.4% (A/B)
Sapling/Shrub Stratum (Plot size: 15' r				Prevalence Index worksheet:
1. Rhamnus cathartica	40	✓ 61.5%	FAC	Total % Cover of: Multiply by:
2. Ostrya virginiana	way provincement	30.8%	FACU	OBL species $0 \times 1 = 0$
3. Fraxinus pennsylvanica		7.7%	FACW	FACW species <u>55</u> x 2 = <u>110</u>
4.		0.0%		FAC species $60 \times 3 = 180$
5.		0.0%	41.00007711107070011070700	FACU species 66 x 4 = 264
Herb Stratum (Plot size: 5' r	65	= Total Cover		UPL species 0 x 5 = 0
1 Carex bromoides	25	✓ 44.6%	FACW	Column Totals: <u>181</u> (A) <u>554</u> (B)
2, Ribes cynosbati	10	17.9%	FAC	Prevalence Index = B/A = 3.061
3. Rhamnus cathartica	10	✓ 17.9%	FAC	Hydrophytic Vegetation Indicators:
4. Prunus virginiana	5	8.9%	FACU	1 - Rapid Test for Hydrophytic Vegetation
5. Rosa multiflora		<u></u> 5.4% ,	FACU	✓ 2 - Dominance Test is > 50%
6. Trillium recurvatum 7.		5.4%	FACU	☐ 3 - Prevalence Index is ≤3.0 ¹
international annotation and the contration of t		□ 0.0% □ 0.0%	- V. 1	\square 4 - Morphological Adaptations 1 (Provide supporting
		0.0%	01 movements viscous	data in Remarks or on a separate sheet)
10.	0	0.0%	TO LOCAL PROPERTY OF THE PARTY.	Problematic Hydrophytic Vegetation ¹ (Explain)
	one Court standing	= Total Cover	ACCUSTO 1000000000000000000000000000000000000	1 Indicators of hydric soil and wetland hydrology must
Woody Vine Stratu (Plot size: 30' r)	25.5000.00000000	I7		be present, unless disturbed or problematic.
1	0	0.0%	AVARIANT PRINTERNAM	Hydrophytic
2.		0.0%	aftirelitation of the state of the	Vegetation V O
	0	= Total Cover		Present? Yes No
Demayles (Include phase pure bear bear as a second	ahaat \			
Remarks: (Include photo numbers here or on a separate	•			
The criterion for hydrophytic vegetation is met. Mixed ha	irdwood swam	np / Shrub ca	rr plant co	ommunity.

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30	£	L.

Sampling Point: SP-7

Depth (inches)	Remarks
3-6 10YR 2/1 90 10YR 5/8 10 C M Sandy Clay Loam 6-12 10YR 3/1 85 10YR 5/8 15 C M Sandy Clay 12-20 10YR 4/2 60 10YR 4/1 25 D M Sandy Clay	
6-12 10YR 3/1 85 10YR 5/8 15 C M Sandy Clay 12-20 10YR 4/2 60 10YR 4/1 25 D M Sandy Clay	
12-20 10YR 4/2 60 10YR 4/1 25 D M Sandy Clay	n a embourn se em emant a comman i a amena a communi i macamin a moco de debidida de Ad
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10YR 5/8 15 C M	CONTRACTOR OF THE PROPERTY OF
	erver og engen i gregne og gregnerer, en engene en ender eg en endelde ende Fisike (FASFAFF).
	ill vit e 1876 fin Standonne 1884 and market before an amount of the second state of t
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AND THE PROPERTY OF THE PROPER	OTT THE STATE OF T
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Ma	annen annen en
Hydric Soil Indicators: Indicators of Problematic	
Histosol (A1) Sandy Gleved Matrix (S4)	nyunc sons
Histic Epipedon (A2) Sandy Redox (S5) Coast Prairie Redox (A16)	
☐ Black Histic (A3) ☐ Stripped Matrix (S6) ☐ Dark Surface (S7)	
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Loamy Mucky Mineral (F1)	12)
Stratified Layers (A5) Loamy Gleyed Matrix (F2) Very Shallow Dark Surface	(TF12)
0.1 7= (+ (-2.1.)	ı
Depleted Relays Dark Surface (A11)	
Thick Dark Surface (A12)	
Sandy Muck Mineral (S1) Indicators of hydrophytic veg	getation and
Sandy Muck Mineral (S1) Redox Depressions (F8) wetland hydrology must be unless disturbed or prob	
Restrictive Layer (if observed):	
Type: None	
Depth (Inches): NA Hydric Soil Present? Yes	No ○
Remarks:	
HYDROLOGY	
· · · · · · · · · · · · · · · · · · ·	
Wetland Hydrology Indicators:	
	inimum of two required
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of one is required; check all that apply)	
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Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (II Aquatic Fauna (B13) Prainage Patterns (B Aquatic Plants (B14) Prayer Aquatic Plants (B14) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8 Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed II Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5 Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: WETS analysis, WWI map, Soils map, aerial imagery, prior delineation	B6) 10) able (C2) s) Aerial Imagery (C9) Plants (D1) (D2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (in Water Table (A2) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B Saturation (A3) True Aquatic Plants (B14) Dry Season Water Table (B14) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8 Sediment Deposits (B2)) Drift Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Presence of Reduced Iron (C4) Stunted or Stressed In Reduction in Tilled Soils (C6) Geomorphic Position Geomorphic Position Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5 Geomorphic Position Iron Deposits (B5) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Yes Opposite (in	B6) 10) able (C2) s) Aerial Imagery (C9) Plants (D1) (D2) s)

Project/Site: Carlisie Interconnect	City/Cou	nty: Franklin / Mil	lwaukee Sampling Date: 13-May-16
	a min na ana min na minina na antanaka hakamanini a 1826 na 1185 mpaka 1981 na 1982 na minina minin		WI Sampling Point: SP-8
Investigator(s): Ron Londré, Amanda Larsen			•
	essante e promier i incipio de circa e Verdina e 1.00000 (1900). El 1000 (1900). El 1000 (1900) (1900) (1900) Construir e sensina e de sinuer e promier successivo de construir escribino de 2 Minuto e fini indebibilita e c		concave, convex, none): Convex
Slope: 3.0% 1.7 ° Lat.:			•
			NWI classification: None
Soil Map Unit Name: <u>Morley silt loam (MzdB)</u> Are climatic/hydrologic conditions on the site typical for t			plain in Remarks.)
Are Vegetation			ormal Circumstances" present? Yes No
Are Vegetation , Soil , or Hydrology	naturally problematic	? (If need	ded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site n	nap showing sampling	point location	ns, transects, important features, etc.
Hydrophytic Vegetation Present? Yes N	0 •		
Hydric Soil Present? Yes O N	o •	Is the Sampled A within a Wetland	
Wetland Hydrology Present? Yes O N	o		165 0 110 0
Remarks:			
Based on the absence of all three parameters, th	nis point is located in an upl	and.	
VEGETATION - Use scientific name		ilnant cies?	
Tree Stratum (Plot size: 30' r)	Absolute Rel.	Strat, Indicator	Dominance Test worksheet:
***************************************		over Status 00.0% FACU	Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)
1. Carya ovata 2.	special communication and an arrangement and a facility.	0.0%	Triat are Obc, FACW, or FAC.
3	0	0.0%	Total Number of Dominant Species Across All Strata: 4 (B)
4. (2.00 (1.	О П	0.0%	Species Actoss All Strata.
5. ***	0	0.0%	Percent of dominant Species That Are ORI FACW or FAC: 25.0% (A/B)
	15 = To	tal Cover	That Are OBL, FACW, or FAC: 25.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15' r)		:	Prevalence Index worksheet:
1. Ostrya virginiana	Control Control Control Control	0.0% FACU	Total % Cover of: Multiply by:
2. Rhamnus cathartica		.5.0% FAC	OBL species $0 \times 1 = 0$
3. Cornus racemosa	Carrier Commence Comm	.0.0% FAC	FACW species 0 x 2 = 0
4. Zanthoxylum americanum	- I	.0.0% FACU	FAC species 35 x 3 = 105
5. Prunus virginiana	CONTRACTOR AND	5.0% FACU tal Cover	FACU species 111 x 4 = 444 UPL species 0 x 5 = 0
Herb Stratum (Plot size: 5' r	,		, yanatametanaan saartaahaa/////www
1. Rhamnus cathartica	10	32.3% FAC	Column Totals: 146 (A) 549 (B)
2. Prunus virginiana	The second secon	32.3% FACU	Prevalence Index = B/A = 3.760
3. Trillium recurvatum	annecessario de la companya del companya de la companya del companya de la companya del la companya de la compa	.6.1% FACU 9.7% FACU	Hydrophytic Vegetation Indicators:
Taraxacum officinale Zanthoxylum americanum	3	9.7% FACU 9.7% FACU	1 - Rapid Test for Hydrophytic Vegetation
6.		0.0%	2 - Dominance Test is > 50%
7.	• [7]	0.0%	3 - Prevalence Index is ≤3.0 ¹
8. Suprama and a		0.0%	4 - Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet)
9.	•	0.0%	Problematic Hydrophytic Vegetation ¹ (Explain)
10.	0	0.0%	
Woody Vine Stratu (Plot size: 30' r)	31 = To	tal Cover	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	o 🗆	0.0%	
2,	annount processing the contract the contract that the contract tha	0.0%	Hydrophytic
		tal Cover	Vegetation Present? Yes ○ No ●
	AND THE PROPERTY OF THE PROPER		
Remarks: (Include photo numbers here or on a	separate sheet.)		
The criterion for hydrophytic vegetation is not m	et.		

Sampling Point: SP-8

, i s	,	Matrix	0/	Caland	·	0/	Tr	12	Tautura Bomonico
inches)	Color (n		.%	Color	moist)	<u>.%</u> .	Type 1	Loc2	Texture Remarks
0-5	10YR	2/2	100			And the Annual Control of the Contro	SWWW.		Silty Clay Loam
5-8	10YR	5/2	90	10YR	5/6	10	С	M	Silty Clay
8-24	10YR	5/3	80	10YR	5/6	20	C	M	Silty Clay William Control of the C
Histosol (Histosol (Histic Epi Black Hist Hydrogen Stratified 2 cm Muc Depleted Thick Dar Sandy Mu 5 cm Muc	pedon (A2) tic (A3) n Sulfide (A4) Layers (A5)	Gurface (A1 12) 51) eat (S3)		San Str Loi Loi De	CS=Covered and Gleyed and Redox (ipped Matricamy Mucky amy Gleyed pleted Matridox Dark Supleted Dark dox Depress	Matrix (S4 (S5) x (S6) Mineral (F: Matrix (F2 ix (F3) urface (F6)	1)	ains.	2Location: PL=Pore Lining. M=Matrix. 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.
Type: N	one	And and the second seco	· · · · · · · · · · · · · · · · · · ·						Mudeia Cail Deagant2 Van C Na (a)
Depth (Inc	one hes): <u>NA</u> for hydric so	and the state of t	TLANSOOT HAARISLA PALIFILMIA TLANFOOT	TATABAH TATA					Hydric Soil Present? Yes O No 💿
marks: criterion	for hydric so	oil is not r	TLANSOOT HAARISLA PALIFILMIA TLANFOOT	AND					Hydric Soil Present? Yes No 💿
Depth (Incomercial Control Con	for hydric so	oil is not r	met.	Mineralis	nat apply)		- Alexandrian		
Popth (Incomercial Control Con	for hydric so OGY Irology India ators (minimum Vater (A1) For Table (A2) For (A3) For (A3) For (B1) For Orust (B2) For Orust (B4) For Orust (B4) For Orust (B5) For Visible on A Vegetated Co	cators: um of one !: 2)	met. s required; ery (B7)	check all th	nat apply) Water-Staine Aquatic Faur Frue Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or We Other (Expla	na (B13) c Plants (B: ulfide Odor izospheres Reduced In Reduction urface (C7	14) (C1) on Living F ron (C4) in Tilled Sc)	, -	Secondary Indicators (minimum of two required Surface Soil Cracks (B6) Drainage Patterns (B10) Dry Season Water Table (C2) Crayfish Burrows (C8)
Depth (Incomarks: e criterion ** **DROLC **PROLC** **PROLC*	for hydric so for hydric so for hydric so frology India ators (minimum Vater (A1) rer Table (A2) n (A3) arks (B1) d. Deposits (B2) osits (B3) d. or Crust (B4) osits (B5) on Visible on A Vegetated Co	cators: um of one !: 2)	s required; sery (B7) face (B8)	check all the	Water-Staine Aquatic Faur Frue Aquatic Hydrogen Sc Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or We Other (Expia	na (B13) : Plants (B: ulfide Odor zospheres Reduced In Reduction urface (C7 elli Data (D	14) (C1) on Living Fron (C4) in Tilled Sc) 9)	oils (C6)	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)
Popth (Incommerce) Property (Incommerce) Pr	for hydric so for hy	cators: um of one !: Aerial Imag	s required; ery (B7) ace (B8)	check all th	Water-Staine Aquatic Faur Frue Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or We Other (Expire Depth (inc	na (B13) : Plants (B: ulfide Odor zospheres Reduced In Reduction urface (C7 eli Data (D tin in Rema	14) (C1) on Living F ron (C4) in Tilled Sc) (9)	oils (C6)	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)
Popth (Incomercial Control Con	for hydric so of hydric so for (A3) for (A3) for (A3) for Crust (B4) for Crust (B4) for hydric so for h	cators: um of one le Aerial Imagencave Surf	s required; ery (B7) ace (B8) No	check all the	Water-Staine Aquatic Faur Frue Aquatic Hydrogen Sc Dxidized Rhi Presence of Recent Iron Thin Muck S Gauge or We Other (Explain Depth (inc	na (B13) c Plants (B: ulfide Odor izospheres Reduced Ii Reduction urface (C7 elli Data (D inin in Remain hes):	14) (C1) on Living F ron (C4) in Tilled Sc) 9) arks)	vils (C6)	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)
Depth (Incomarks: e criterion DROLC Stland Hyde mary Indice Surface V High Water Ma Saturation Water Ma Sediment Drift Depte Algal Mate Iron Depte Inundation Sparsely Sparsely Sparsely Sturation Preciudes capi	for hydric so for hydric so for hydric so for hydric so frology India ators (minimum Vater (A1) for Table (A2) in (A3) arks (B1) in Deposits (B2) osits (B3) in Or Crust (B4) osits (B5) on Visible on A Vegetated Co vations: in Present? Present? Present?	cators: um of one !: Aerial Imag incave Surfi Yes Yes Yes	s required; ery (B7) ace (B8) No	check all th	Water-Staine Aquatic Faur Frue Aquatic Hydrogen Su Dxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W Dther (Explain Depth (inc	na (B13) : Plants (B: ulfide Odor izospheres Reduced II Reduction urface (C7 eli Data (D inin in Rema hes): hes):	14) (C1) on Living F ron (C4) in Tilled Sc) (9) arks)	wet	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)
Depth (Incomarks: e criterion TDROLC etland Hydinary Indice Surface V High Water Mail Saturation Water Mail Sediment Drift Depril Algal Mater Iron Depoil Inundation Sparsely	for hydric so for limit vater (A1) for Table (A2) for (A3) for (A3) for Crust (B4) for Crust (B4) for Crust (B5) for Visible on A vegetated Co vations: for Present? for present?	cators: um of one le Aerial Imag ncave Surfi Yes Yes (stream of	s required; sery (B7) ace (B8) No (1) No (2) Gauge, mo	check all the ch	Water-Staine Aquatic Faur Frue Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or We Other (Explain Depth (inc	na (B13) c Plants (B: ulfide Odor izospheres Reduced In Reduction urface (C7 elli Data (D in in Rema hes): hes): hes):	14) (C1) on Living F ron (C4) in Tilled Sc) (9) arks)	wet	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)
Depth (Incomarks: e criterion TDROLC etland Hydinary Indice Surface V High Water Mail Saturation Water Mail Sediment Drift Depril Algal Mater Iron Depoil Inundation Sparsely	for hydric so for hydric so for hydric so for hydric so frology India ators (minimum Vater (A1) for Table (A2) in (A3) arks (B1) in Deposits (B2) osits (B3) in Or Crust (B4) osits (B5) on Visible on A Vegetated Co vations: in Present? Present? Present?	cators: um of one le Aerial Imag ncave Surfi Yes Yes (stream of	s required; sery (B7) ace (B8) No (1) No (2) Gauge, mo	check all the ch	Water-Staine Aquatic Faur Frue Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or We Other (Explain Depth (inc	na (B13) c Plants (B: ulfide Odor izospheres Reduced In Reduction urface (C7 elli Data (D in in Rema hes): hes): hes):	14) (C1) on Living F ron (C4) in Tilled Sc) (9) arks)	wet	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)

Project/Site: Carlisle Interconnect	City/County:	Franklin / Mi	ilwaukee Sampling Date: 13-May-16
Applicant/Owner: Carlisle Interconnect / JP Cullen		State:	WI Sampling Point: SP-9
			: S 26 T 5N R 21E
			concave, convex, none): concave
			менен жана жана жана жана жана жана жана
Slope: 3,0% 1,7 ° Lat.:		,,,	The state of the s
Soil Map Unit Name: Blount silt loam (BIA)	- Voc 💿 No 🔾	/TÉ	NWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of			xplain in Remarks.)
	gnificantly disturbed?	Are "No	ormal Circumstances" present? Yes Vo V
	aturally problematic?	•	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map show	ving sampling po	int locatio	ns, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	70.4	ha Camuniani i	Awaa
Hydric Soil Present? Yes No		he Sampled A hin a Wetland	
Wetland Hydrology Present? Yes No		•	
Remarks:			
Based on the presence of all three parameters, this point is	s located within a wetl	and.	
VEGETATION - Use scientific names of plan	its. Domin an	.4	
TEGETATION OSCIONATION ANTICES OF PIGE	Species?	? ———	Dominance Test worksheet:
Tree Stratum (Plot size: 30' r)	Absolute Rel.Strat % Cover Cover		
1. Quercus rubra		-,,,,-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Number of Dominant Species That are OBL, FACW, or FAC: 6 (A)
2. Quercus bicolor		FACW	
3. _{30.390,0} 00,000,000,000,000,000,000,000,000,	0.0%	and the Commence and a second	Total Number of Dominant Species Across All Strata; 8 (B)
		covered. Second and second account	умилини почтов
5	0 0.0%	name distribution to the second	Percent of dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B)
	60 = Total Co	ver	THACATE ODL, FACW, OF FAC.
Sapling/Shrub Stratum (Plot size: 15' r)			Prevalence Index worksheet:
1. Carpinus caroliniana		VALUE VACUETY/ACADA/FERRA	Total % Cover of: Multiply by:
2. Rhamnus cathartica		anciae interioristations/states	OBL species 0 x 1 = 0
3. Ostrya virginiana 4.	per con	NAMES OF THE PROPERTY OF THE PARTY OF THE PA	FACW species 20 x 2 = 40
E	0 000	aria garanana.manananana	FAC species 108 x 3 = 324 FACU species 58 x 4 = 232
A TO SEE THE PROPERTY OF THE P	65 = Total Co		/www.commond decreases and
Herb Stratum (Plot size: 5' r)	***************************************		· LEASON DELICATION LIBRARIAN AND AND AND AND AND AND AND AND AND A
1 Ribes cynosbati		6 FAC	Column Totals: <u>186</u> (A) <u>596</u> (B)
2. Carpinus caroliniana		onima antamanterantanana	Prevalence Index = $B/A = 3.204$
3. Prunus virginiana		w.r. montheannan	Hydrophytic Vegetation Indicators:
Rhamnus cathartica Cornus racemosa	10 ✓ 16.4% 5	social browningsammer	1 - Rapid Test for Hydrophytic Vegetation
6 O constitution de	2	mine anomalesament	2 - Dominance Test is > 50%
7. Trillium recurvatum	2 4.007	THE CONTRACTOR ASSESSED.	3 - Prevalence Index is ≤3.0 ¹
8.	0 00/	named very-accessoration-and	4 - Morphological Adaptations 1 (Provide supporting
9.	0 000	and amountains	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
10.	0 0.0%	Maria Transportation	
Woody Vine Stratu (Plot size: 30' r)	61 = Total Co	over	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
·	0 🗌 0.0%		
1,	0 0.0%	name methodominamicolo	Hydrophytic
A THE OF THE OWN THE O	0 = Total Co	***************************************	Vegetation Present? Yes No No
	- 10ta Co	, , , , , , , , , , , , , , , , , , , ,	Tressite
Remarks: (Include photo numbers here or on a separate s	heet.)		
The criterion for hydrophytic vegetation is met. Mixed har		carr plant o	ommunity. Rhamnus cathartica and Ostrva virginiana
exhibiting adaptations to saturated conditions in the form	of adventitous roots ar	nd shallow ro	oot system. Recalculating as FAC species not needed to
meet the Dominance Test.			

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

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JU	4	L

Sampling Point: SP-9 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Depth Color (moist) Color (moist) % % Type 1 Loc2 (inches) 100 Silty Clay Loam 0-6 10YR 2/1 6-24 10YR 5/2 60 Silty Clay 10YR 5/3 20 ¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils 3: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) ☐ Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron Manganese Masses (F12) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) ✓ Depleted Matrix (F3) ✓ Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ³ Indicators of hydrophytic vegetation and Sandy Muck Mineral (S1) wetland hydrology must be present, Redox Depressions (F8) 5 cm Mucky Peat or Peat (S3) unless disturbed or problematic. Restrictive Layer (if observed): Type: None Hydric Soil Present? Yes 💿 No O Depth (inches): NA Remarks: The criterion for hydric soil is met. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) Aquatic Fauna (B13) Drainage Patterns (B10) ✓ High Water Table (A2) True Aquatic Plants (B14) Dry Season Water Table (C2) Saturation (A3) ☐ Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Sediment Deposits (B2) Stunted or Stressed Plants (D1) Drift Deposits (B3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) ... Algal Mat or Crust (B4) Iron Deposits (B5) FAC-Neutral Test (D5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (87) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Yes O No 💿 Surface Water Present? Depth (inches): Yes 💿 No O Water Table Present? 10 Depth (inches): No O Wetland Hydrology Present? Yes 🖭 Saturation Present? Yes 💿

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

Depth (inches):

WETS analysis, WWI map, Soils map, aerial imagery, prior delineation

No O

Remarks:

Based on a WETS analysis, antecedent hydrologic conditions were within a normal range. The criterion for wetland hydrology is met. Sample point ~ 2' lower in elevation than SP-8. Saturation / possible innundation visible on 2014 leaf-off aerial imagery.

6

(includes capillary fringe)

Project/Site: Carlisle Interconnect	na i na mana na kalinda kalinda ka Kalinda ka ka na		Ci	ty/County:	Franklin / Mi	ilwaukee Sampling Date: 13-May-16
Applicant/Owner: Carlisle Interconnect				State:	WI Sampling Point: SP-10	
Investigator(s): Ron Londré, Amanda L						: S 26 T 5N R 21E
Landform (hillslope, terrace, etc.): Shou						concave, convex, none): convex
and desired the second				Access to the Control of the Control		ENGELS And Blood SAS Class Control and Con
Slope: 5.0% 2.9 • Lat.:				LUIIG	***************************************	
Soil Map Unit Name: <u>Blount silt loan</u>				ا ملا 🏵	/TE no. ov	NWI classification: <u>None</u>
Are climatic/hydrologic conditions on the Are Vegetation	, or Hydrology			sturbed?		ormal Circumstances" present?
Are Vegetation , Soil .	, or Hydrology	natural	ly probl	ematic?	(If need	ded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - A	ttach site m	ap showing	j sam	pling poi	nt locatio	ns, transects, important features, etc.
Hydrophytic Vegetation Present?	Yes O N	o				
Hydric Soil Present?	Yes 🔾 N	o			ie Sampled A in a Wetland	
Wetland Hydrology Present?	Yes O N	o		1		- les C No C
Remarks:						
Based on the absence of all three	parameters, th	is point is local	æd in a	an upland.		
VEGETATION - Use scie	ntific name	s of plants.		Dominant		
				Species?Rel.Strat.	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30' r	······································	9/0	Cover		Status	Number of Dominant Species
1. Quercus alba			40	53.3%	TO SURFEITVE VENEZUA MATERIA	That are OBL, FACW, or FAC: (A)
Quercus rubra Acer rubrum			20 10	26.7%	week name which will be a second or the second of the second of the second or the seco	Total Number of Dominant
purpose and the control of the contr			5	6.7%	FACW	Species Across All Strata: 5 (B)
4. Acer saccharinum 5.			0	0.0%		Percent of dominant Species
gue encommente en	ng tigget geographet et manne et element et en mente et e	eromenerarmenteramenteramente (75	= Total Cov	ver	That Are OBL, FACW, or FAC: 0.0% (A/B)
Saoling/Shrub Stratum (Plot size: 1	5'r)	wee	41404			Prevalence Index worksheet:
1. Zanthoxylum americanum			25	✓ 44.6%	FACU	Total % Cover of: Multiply by:
2 1			10	✓ 17.9%	FACU	OBL species $0 \times 1 = 0$
3, Carpinus caroliníana		ZATE A PARTICIO DE LA PARTICIO DEL PARTICIO DE LA PARTICIO DEL PARTICIO DE LA PARTICIO DEL PARTICIO DE LA PARTICIO DEL PARTICIO DE LA PARTICIO DEL PARTICIO DE LA PARTICIO DE LA PARTICIO DEL PARTICIO DE LA PARTICIO DEL PARTICIO DEL PARTICIO DE LA PARTICIO DE LA PARTICIO DEL PART	8	14,3%	FAC	FACW species $5 \times 2 = 10$
I A			8	14.3%	FACU	FAC species 43 x 3 = 129
5. Cornus racemosa		management p	5	8.9%	FAC	FACU species <u>111</u> x 4 = <u>444</u>
Herb Stratum (Plot size: 5' r)		56	= Total Co	ver	UPL species $50 \times 5 = 250$
			50	64.1%	UPL	Column Totals: 209 (A) 833 (B)
0.0	**************************************		15	19.2%	mar -parametermentarina	Prevalence Index = B/A = 3.986
2 0-1		in the second se	5	6.4%	FACU	THE ASSESSMENT OF THE PROPERTY
4	na o novelo a de la		5	6.4%	FAC	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
5. Drymocallis arguta	antonosis desimilas (1866), valoraturo en es	nyommanunumunun 3	3	3.8%	FACU	2 - Dominance Test is > 50%
6.			0	0.0%	nare processor-construction	3 - Prevalence Index is ≤3.0 ¹
7.	and the second of the set of the second	-manuscriment .	0	0.0%	The second second	4 - Morphological Adaptations ¹ (Provide supporting
8,	and a second of the first of th	***************************************	0	0.0%	THE VICTORIAN CONTRACTOR	data in Remarks or on a separate sheet)
9,	- errentte i Getter i, teknolog ennen versene	manna nomin mana nomi	0	0.0%	MIN YERENIALISTANIA	Problematic Hydrophytic Vegetation ¹ (Explain)
10.	ne, en monte management de la la Company	***************************************	0	0.0%		1 Indicators of hydric soil and wetland hydrology must
Woody Vine Stratu (Plot size: 30'	r)	AVAM	78	= Total Co	ver	be present, unless disturbed or problematic.
1.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	N. V. E M. I. M. E M. S. M.	ramormon acconducted to	0	0.0%		
2	,, ,,		0	0.0%	un ymaanimman	Hydrophytic Vegetation
			0	= Total Co	ver	Present? Yes No No
Remarks: (Include photo number	s here or on a	senarate choet	.)			
, '		•	,			
The criterion for hydrophytic vege	ilation is not m	CLI				

OIL Profile Descri	intion: /Do	cribo to t	he danth o	aded to	document	the indi-	rator or o	anfirm th	Sampling Point: SP-10 e absence of indicators.)		
			ne aepta ne	eueu to		ox Featu		OHIHTIN CH	e absence of mulcators.)		
Depth (inches)	Color (r	Matrix noist)		Color (moist)	%	Type 1	Loc2	Texture Remarks		
0-5	10YR	3/2	100	rausannista viitavis i 1960 tani 1970	SC CANTON CONTRACTOR OF THE CO			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Silty Clay Loam		
5-16	10YR	6/4	98	10YR	5/8	2	C	М	Silty Clay		
CONTRACTOR AND	ACTORNOLOGISTA AND AND AND AND AND AND AND AND AND AN	environment in the contraction of	90	10YR	5/8	10	C	М	Silty Clay		
16-24	10YR	6/4	90	TOTK	5/6	10	,	ld.	SILLY CITY Annual Property Company of the Company		
Personal State of the State of		andaris (MASSA) (1115)	reconstruction of the contract		seement to conserve when	Seeme emerical to Sold (2006)	SERVICE PROPERTY.	gryconi anteriziona generalia			
BERTH CESSONIAGER MARCH	Secondarios (Videos Locates avve. 11		mannarations and address	anannon marianti (1777)	-342 CORENIDOS IESTAS PORTES P	(CITATOR PROPERTY)		yermalwessessessames	(п. такжатын анганда менендин кенендин кененден канада канада жана жана жана жана жана жана жана		
	//		ernereri pu en a en emper pa		THE PROPERTY PROPERTY AND THE PARTY AND THE	Page Control of the C		-4131-400100-001-11100-			
Type: C=Cond		=Depletion	, RM=Reduce	ed Matrix,	CS=Covere	d or Coate	ed Sand Gr	rains.	² Location: PL=Pore Lining, M=Matrix,		
Hydric Soil I									Indicators for Problematic Hydric Soils ³ :		
Histosol (A	•				ndy Gleyed	-)		Coast Prairie Redox (A16)		
Histic EpipBlack Histi	, ,				ndy Redox (Dark Surface (S7)		
	Sulfide (A4)				ipped Matri		43		Iron Manganese Masses (F12)		
Stratified I	Layers (A5)				my Mucky				☐ Very Shallow Dark Surface (TF12)		
2 cm Mucl					my Gleyed	-	2)		Other (Explain in Remarks)		
Depleted F	Below Dark S	Surface (A1	1)		pleted Matr dox Dark Su						
Thick Dark	Surface (A1	.2)			pleted Dark				³ Indicators of hydrophytic vegetation and		
Sandy Mu	ck Mineral (S	1)			dox Depress		,		wetland hydrology must be present,		
5 cm Muci	ky Peat or Pe	at (S3)			JOX DEPICS.	310113 (1 0)			unless disturbed or problematic.		
Restrictive La	yer (if obs	erved):									
Type: _No	ne						FETTO 11200 WILLIAM STATE OF THE STATE OF TH				
Depth (inch	nes): NA		numanananananananananananananananananana						Hydric Soil Present? Yes O No 💿		
Remarks:											
he criterion 1	for hvdric s	oil is not r	net.								
	•										
IYDROLO	GY										
Wetland Hyd	rology Indi	cators:									
Primary Indica	itors (minimi	ım of one i	s required; c	heck all th	nat apply)		concentration of Months whole	AND CONTRACTOR OF THE STATE OF T	Secondary Indicators (minimum of two required		
Surface W	ater (A1)			□ v	Vater-Staine	ed Leaves	(B9)		Surface Soil Cracks (B6)		
High Wate	er Table (A2)			<i>p</i>	quatic Faur	na (B13)			Drainage Patterns (B10)		
Saturation	(A3)			7	rue Aquatio	: Plants (B	14)		Dry Season Water Table (C2)		
Water Ma	rks (B1)			F	lydrogen Si	ulfide Odo	r (C1)		Crayfish Burrows (C8)		
Sediment	Deposits (B2	!)			xidized Rhi	izospheres	on Living	Roots (C3)) Saturation Visible on Aerial Imagery (C9)		
Drift Depo	sits (B3)			☐ F	resence of	Reduced I	ron (C4)		Stunted or Stressed Plants (D1)		
Algal Mat	or Crust (B4))		F	Recent Iron	Reduction	in Tilled S	iolls (C6)	Geomorphic Position (D2)		
Iron Depo	sits (B5)			П П	hin Muck S	urface (C7	')		FAC-Neutral Test (D5)		
Inundatio	n Visible on A	Aerial Imag	ery (B7)		Sauge or W	ell Data (E	9)				
Sparsely \	egetated Co	ncave Surf	ace (B8)		Other (Expla	in in Rem	arks)				
Field Observa		Yes (O No €)	Depth (inc	hos):					
Surface Water											
Water Table P		Yes (Depth (inc			Wet	tland Hydrology Present? Yes 🔾 No 💿		
Saturation Pre- (includes capill		Yes (● No ○		Depth (inc	hes):	16		tiana tijarotogy trosenti.		
		(stream o	gauge, mor	itoring w		 		nspection	ns), if available:		
		, ,			•			•	**		
WETS analys	is, WWI ma	ap, Soils n	nap, aerial	imagery,	prior delir	neation					

Based on a WETS analysis, antecedent hydrologic conditions were within a normal range. The criterion for wetland hydrology is not met.

Project/Site: Carlisle Interconnect		Ci	ity/County:	Franklin / Mi	lwaukee	Sampling (Date: 13-May-16
Applicant/Owner: Carlisle Interconnect /	JP Cullen	and the second of the second o	obladato bu constantino de consensa	State:		Sampling Point:	
Investigator(s): Ron Londré, Amanda La						5N R 21E	
Landform (hillslope, terrace, etc.): Toesl					0.001.0001.000000	none): Concave	www.enerorusenerorusenel
-25000000000000000000000000000000000000	AND		Long :			SOURCE STATE AND ADDRESS OF THE SOURCE STATE O	
Slope: 0.0% 0.0 ° Lat.:			LONG	/4.W. 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 -			
Soil Map Unit Name: <u>Blount silt loam</u>	(BIA)		(a) No (**************************************			
Are climatic/hydrologic conditions on the	site typical for this time of				ıplain in Remarks.	•	Yes ● No ○
Are Vegetation, Soil	, or Hydrology s	ignificantly di	isturbed?	Are "No	ormal Circumstanc	ces" present?	res 🙂 🛮 INO 🔾
Are Vegetation 🗸 , Soil	. , _,	aturally prob		•		answers in Remarks.)	
SUMMARY OF FINDINGS - A		wing sam	pling po	int locatio	ns, transects	i, important rea	tures, etc.
Hydrophytic Vegetation Present?	Yes No		To W	he Sampled A	luna		
Hydric Soil Present?	Yes No			nin a Wetland		No O	
Wetland Hydrology Present?	Yes ● No ○						
Remarks:							
Based on the presence of all three	parameters, this point i	s located wi	ithin a wetl	and.			
VEGETATION - Use scie	ntific names of plar	nts.	Dominan				
				Indicator	Dominance Te	est worksheet:	
Tree Stratum (Plot size: 30' r)	% Cover		Status	Number of Dom	ninant Species	
	adaman a resultation and transport to the state of the second and		57.1%	annual Statementon and the second	That are OBL, F	FACW, or FAC:	5 (A)
117.27-31.335-1	energia en		42.9%	men terminal control of the control	Total Number o	of Dominant	
3. A	a a martin de la companya de la comp	0	0.0%	was American reservational	Species Across	All Strata:	<u>5</u> (B)
4. 5	ssommer ets se vivente troccumina es l'édition de l'évoldé dété 20 4000 parque es premient et trans	0 0	0.0%	***** 91/21/21/21/21/21/21/21	Percent of do	minant Species	
5		70	= Total Co	MARKET STANDARD PORTUGUAL DESCRIPTION		., FACW, or FAC:	100.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15	'r)	u-en-minorem	- 10tai C0	V C1	Provalence Inc	dex worksheet:	
4 6	THE THE PERSON NAMED OF TH	40	✓ 80.0%	5 FAC			ıltiply by:
	The state of the s		20.0%	stante delectorables/self-teriorare	OBL species		1 = 0
3,		_	0.0%		FACW specie		2 = 20
4	OMBULANIS TARRES TARREST TO STATE OF THE STA		0.0%	The Armenterson West	FAC species		3 = 474
5.	kannaanaanaan vaannaan vaannaan kannaan kannaan kannaan kannaan kannaan kannaan kannaan kannaan kannaan kannaa	. 0	0.0%	16.879 (2000)/BAILERIA (6.277)/21	FACU specie	es <u>5</u> x	4 = 20
Herb Stratum (Plot size: 5' r)	50	= Total Co	ver	UPL species	0 X	5 = 0
	ovaluation to	30	✓ 56.6%	FAC	Column Tota	als: <u>173</u> (A	A) 514 (B)
2. Carex bromoides		10	18.9%	FACW	Provalenc	ce Index = B/A =	2,971
2 (F	9.4%	322200000000000000000000000000000000000		-	
A Tullions as acres entress	ggagaan oo aan oo aan ah a	E	9.4%	FACU		/egetation Indicator Test for Hydrophytic	
5. Ribes cynosbati	59 PRO 1867 FOR A CONTROL OF THE STREET OF THE STREET AND A STREET AS A STREET AS A STREET AS A STREET AS A ST		5.7%	FAC		ance Test is > 50%	_
6.	Pinner or consistent Marining of Leading Larges Leader Languages Liverages Automotive Con-	0	0.0%	arka wanani inamadani		ence Index is ≤3.0 ¹	
7.			0.0%	read various arrangement and the			s ¹ (Provide supporting
8.	TERMINENTAL PROPERTY OF THE PR	. 0	0.0%	WINE AWALWANTANIA		marks or on a sepai	
9, samuele consideration de la consideration d	oranie and an anti-control		0.0%	Second recommendation of the second	Problemat	ic Hydrophytic Veg	etation 1 (Explain)
10.	Description of the second seco	. 0		varier varierismosmosmosmos.	$\frac{1}{2}$ Indicators of	of hydric soil and we	etland hydrology must
Woody Vine Stratu (Plot size: 30'	r marina amana amana amana da marina da mar	53	= Total Co	over		nless disturbed or p	
1.	NOROLAN MORRISHLUMEN, FOREN MARTINIA I LAKAM PONTANIA MARTINIA		0.0%	CONTRACTOR CONTRACTOR	.		
2.	LONG LANGE TO THE STATE OF THE	0	0.0%		Hydrophytic Vegetation		`
		0	= Total Co	ver	Present?	Yes 💿 No 🗆)
					<u>I</u>		
Remarks: (Include photo numbers	here or on a separate s	heet.)					
Vegetation naturally problematic o							
americana, and Ostrya virginiana i							tous roots, and shallow
root systems. These plant were re	calculated as FAC spece	is. The crite	enon for ny	raropriytic ve	yetation is met.		

30	L.,

Sampling Point: SP-11 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix **Redox Features** Depth Loc2 Color (moist) Type 1 Texture (inches) Color (moist) 0/0 % Silt Loam 100 10YR 3/2 0-5 5-13 90 Silty Clay 10YR 3/1 10YR 5/6 10 М 10YR 5/6 15 Ç Silty Clay 10YR 5/2 М 13-20 85 ²Location: PL=Pore Lining. M=Matrix. ¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils 3: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) ☐ Iron Manganese Masses (F12) ___ Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Stratified Layers (A5) Loamy Gleyed Matrix (F2) 2 cm Muck (A10) Other (Explain in Remarks) Depleted Matrix (F3) Depleted Below Dark Surface (A11) ✓ Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ³ Indicators of hydrophytic vegetation and Sandy Muck Mineral (S1) wetland hydrology must be present, unless disturbed or problematic. Redox Depressions (F8) 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: None No O **Hydric Soil Present?** Yes 💿 Depth (inches): NA Remarks: The criterion for hydric soil is met. **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two required Primary Indicators (minimum of one is required; check all that apply) Water-Stained Leaves (B9) Surface Soil Cracks (B6) Surface Water (A1) ✓ High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) ✓ Saturation (A3) True Aquatic Plants (B14) Dry Season Water Table (C2) Crayfish Burrows (C8) Hydrogen Sulfide Odor (C1) Water Marks (B1) ✓ Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) Stunted or Stressed Plants (D1) Presence of Reduced Iron (C4) Drift Deposits (B3) Geomorphic Position (D2) Algai Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) FAC-Neutral Test (D5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) ☐ Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Yes 🔾 No 💿 Depth (inches): Surface Water Present? Yes No O Water Table Present? Depth (inches): No O Yes 💿 Wetland Hydrology Present? Saturation Present? Yes No O Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Based on a WETS analysis, antecedent hydrologic conditions were within a normal range. The criterion for wetland hydrology is met. Sample point ~ 2' lower in elevation than SP-10. Saturation / possible innundation visible on 2014 leaf-off aerial imagery.

WETS analysis, WWI map, Soils map, aerial imagery, prior delineation

Tree Stratum (Plot size: 30' r) % Cove 1. Quercus rubra 25 2. Quercus bicolor 20 3. Acer saccharinum 15 4. Acer rubrum 5 5. Tilla americana 3	Long.: No Odisturbed? blematic? npling polimits within a wetlest within a wetlest Ref. Stratest Ref	(If no, ex Are "No (If need int location The Sampled Anin a Wetland and. Indicator Status FACU FACU FACW	Datum: NWI classification: T3/E2K replain in Remarks.) primal Circumstances" present? Yes No odded, explain any answers in Remarks.) ns, transects, important features, etc. Area 1? Yes No odded Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: 4 (A) Total Number of Dominant
Investigator(s): Ron Londré, Amanda Larsen Landform (hillslope, terrace, etc.): Toeslope Slope: 0,0% 0,0 ° Lat.: Soil Map Unit Name: Ashkum silty clay loam (AsA) Are climatic/hydrologic conditions on the site typical for this time of year? Yes Are Vegetation	Long.: Long.: No Odisturbed? blematic? npling politication Is tile with within a wetle Dominan Species: Rel.Strat Cover 29.4% 22.1%	(If no, ex Are "No (If need int location The Sampled Anin a Wetland and. Indicator Status FACU FACU FACW	Datum: NWI classification: T3/E2K replain in Remarks.) primal Circumstances" present? Yes No odded, explain any answers in Remarks.) ns, transects, important features, etc. Area 1? Yes No odded Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: 4 (A) Total Number of Dominant
Slope:	Long.: No Odisturbed? blematic? npling point Is the with within a wetl Dominan Species: Rel.Strat er Cover 3 6.8% 29.4% 22.1%	(If no, ex Are "No (If need int location int location in a Wetland and. Indicator Status FACU FACU	Datum: NWI classification: T3/F2K Aplain in Remarks.) Dormal Circumstances" present? Yes No O ded, explain any answers in Remarks.) ns, transects, important features, etc. Area 1? Yes No O Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: 4 (A) Total Number of Dominant
Slope: 0.0% 0.0 ° Lat.: Soll Map Unit Name: Ashkum silty clay loam (AsA) Are climatic/hydrologic conditions on the site typical for this time of year? Yes Are Vegetation , Soil , or Hydrology significantly of Are Vegetation , Soil , or Hydrology naturally prol SUMMARY OF FINDINGS - Attach site map showing san Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Remarks: Based on the presence of all three parameters, this point is located where the presence of all three parameters, this point is located where the presence of the presence of all three parameters of plants. Tree Stratum (Plot size: 30' r)	Long.: No No disturbed? Istivithin a wetled Dominan Species: Rel.Strat Cover 36.8% 29.4% 22.1%	(If no, ex Are "No (If need int location the Sampled Anin a Wetland and. It Indicator Status FACU FACU FACW	Datum: NWI classification: T3/E2K splain in Remarks.) primal Circumstances" present? Yes No O ded, explain any answers in Remarks.) ns, transects, important features, etc. Area 1? Yes No O Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: 4 (A) Total Number of Dominant
Soll Map Unit Name: Ashkum silty clay loam (AsA) Are climatic/hydrologic conditions on the site typical for this time of year? Yes Are Vegetation	Dominan Species: Rel.Strater 29.4% 22.1%	(If no, ex Are "No (If need int location in a Wetland and .	NWI classification: T3/E2K uplain in Remarks.) uprmal Circumstances" present? Yes No O ded, explain any answers in Remarks.) uprmal Circumstances" present? Yes No O ded, explain any answers in Remarks.) uprmal Circumstances" present? Yes No O uprmal Circumstances present.
Are climatic/hydrologic conditions on the site typical for this time of year? Yes Are Vegetation , Soll , or Hydrology significantly of the Vegetation , Soil , or Hydrology naturally professor. Are Vegetation , Soil , or Hydrology naturally professor. SUMMARY OF FINDINGS - Attach site map showing sand Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: Based on the presence of all three parameters, this point is located weten the presence of all three parameters, this point is located weten to the presence of the presen	Dominan Species: Rei.Strat er V 29.4% V 22.1%	Are "No (If need int location in a Wetland and . Indicator Status FACU FACW	primal Circumstances" present? Yes No Odded, explain any answers in Remarks.) ns, transects, important features, etc. Area 1? Yes No O Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: 4 (A) Total Number of Dominant
Are Vegetation	Dominan Species: Rei.Strat er V 29.4% V 22.1%	Are "No (If need int location in a Wetland and . Indicator Status FACU FACW	pormal Circumstances" present? Yes No Oded, explain any answers in Remarks.) ns, transects, important features, etc. Area 1? Yes No O Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: 4 (A) Total Number of Dominant
Are Vegetation , Soil , or Hydrology naturally professional process. SUMMARY OF FINDINGS - Attach site map showing sand Hydrophytic Vegetation Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrolog	Dominan Species Rel.Strat Cover 29.4% 22.1%	int location the Sampled Anin a Wetland and. Indicator Status FACU FACU FACW	ded, explain any answers in Remarks.) ns, transects, important features, etc. Area 1? Yes No Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: Total Number of Dominant
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Hydric Soil Present? Yes No Hydric Soil Present? Yes No Hydrology Present? Yes No Hoo Hydrology Present? Yes No Hydrology Present? Ye	Dominan Species: Rel.Strat er Cover 36.8% 29.4%	te Sampled Anin a Wetland and. Indicator Status FACU FACU	ns, transects, important features, etc. Area 1? Yes No Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: Total Number of Dominant
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No No Hydric Soil Present? Yes No No Hydrology Present? Yes No No No No Hydrology Present? Yes No	Dominan Species: Rel.Strat er Cover 36.8% 29.4% 22.1%	and. Indicator Status FACU FACW	Pominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: Total Number of Dominant
Hydric Soil Present? Wetland Hydrology Present? Remarks: Based on the presence of all three parameters, this point is located were series as a series of plants. VEGETATION - Use scientific names of plants. Tree Stratum (Plot size: 30' r)	vithin a weth	and. Indicator Status FACU FACW	Pominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: Total Number of Dominant
Wetland Hydrology Present? Remarks: Based on the presence of all three parameters, this point is located wetler with the presence of all three parameters, this point is located wetler with the presence of all three parameters, this point is located wetler with the presence of all three parameters, this point is located wetler with the presence of all three parameters, this point is located wetler with the presence of all three parameters, this point is located wetler with the point is located wetler with the presence of all three parameters, this point is located wetler with the point is located wetler with the presence of all three parameters, this point is located wetler with the presence of all three parameters, this point is located wetler with the presence of all three parameters, this point is located wetler with the presence of all three parameters, this point is located wetler with the presence of all three parameters, this point is located wetler with the presence of all three parameters, this point is located wetler with the presence of all three parameters, this point is located wetler with the presence of all three parameters, this point is located wetler with the presence of all three parameters, this point is located wetler with the presence of all three parameters, this point is located with the presence of all three parameters, this point is located with the presence of all three parameters, this point is located with the presence of all three parameters, this point is located with the presence of all three parameters, this point is located with the presence of all three parameters, this point is located with the parameters with the paramete	vithin a weth	and. Indicator Status FACU FACW	Pominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: Total Number of Dominant
Remarks: Based on the presence of all three parameters, this point is located was assed on the presence of all three parameters, this point is located was assed on the presence of all three parameters, this point is located was assed on the presence of all three parameters, this point is located was assed on the presence of all three parameters, this point is located was assed on the presence of all three parameters, this point is located was assed on the presence of all three parameters, this point is located was assed on the presence of all three parameters, this point is located was assed on the presence of all three parameters, this point is located was assed on the presence of all three parameters, this point is located was assed on the presence of all three parameters, this point is located was assed on the presence of all three parameters, this point is located was assed on the presence of all three parameters, this point is located was assed on the presence of all three parameters, this point is located was assed on the presence of all three parameters, this point is located was assed on the presence of all three parameters, this point is located was assed on the presence of all three parameters, this point is located was assed on the presence of all three parameters, this point is located was assed on the parameters of parameters.	Dominan Species Rei.Strat Cover 36.8% 29.4%	Indicator Status FACU FACW	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: 4 (A) Total Number of Dominant
VEGETATION - Use scientific names of plants. Tree Stratum (Plot size: 30' r)	Dominan Species Rei.Strat Cover 36.8% 29.4%	Indicator Status FACU FACW	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A) Total Number of Dominant
VEGETATION - Use scientific names of plants.Tree Stratum (Plot size: 30' rAbsolut % Cove1. Quercus rubra252. Quercus bicolor203. Acer saccharinum154. Acer rubrum55. Tilla americana3	Dominan Species Rei.Strat Cover 36.8% 29.4%	Indicator Status FACU FACW	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A) Total Number of Dominant
Tree Stratum (Plot size: 30' r Absolut % Cove 1. Quercus rubra 25 2. Quercus bicolor 20 3. Acer saccharinum 15 4. Acer rubrum 5 5. Tilla americana 3	Species 2 Rei.Strat Cover	Indicator Status FACU FACW	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A) Total Number of Dominant
Tree Stratum (Plot size: 30' r Absolut % Cove 1. Quercus rubra 25 2. Quercus bicolor 20 3. Acer saccharinum 15 4. Acer rubrum 5 5. Tilla americana 3	Species 2 Rei.Strat Cover	Indicator Status FACU FACW	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A) Total Number of Dominant
Tree Stratum (Plot size: 30' r Absolut % Cove 1. Quercus rubra 25 2. Quercus bicolor 20 3. Acer saccharinum 15 4. Acer rubrum 5 5. Tilla americana 3	Species 2 Rei.Strat Cover	Indicator Status FACU FACW	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A) Total Number of Dominant
Tree Stratum (Plot size: 30' r % Cove 1. Quercus rubra 25 2. Quercus bicolor 20 3. Acer saccharinum 15 4. Acer rubrum 5 5. Tilla americana 3	e Rei.Strat er Cover ✓ 36.8% ✓ 29.4% ✓ 22.1%	Indicator Status FACU FACW	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A) Total Number of Dominant
1. Quercus rubra 25 2. Quercus bicolor 20 3. Acer saccharinum 15 4. Acer rubrum 5 5. Tilla americana 3	✓ 36.8% ✓ 29.4% ✓ 22.1%	FACU FACW	That are OBL, FACW, or FAC: 4 (A) Total Number of Dominant
2. Quercus bicolor 20 3. Acer saccharinum 15 4. Acer rubrum 5 5. Tilla americana 3	✓ 29.4% ✓ 22.1%	FACW	Total Number of Dominant
3. Acer saccharinum 15 4. Acer rubrum 5 5. Tilla americana 3	22.1%	www. Austrianian annual	
4. Acer rubrum 5 5. Tilla americana 3	The Darke Andrews Street	10011	
5. Tilia americana 3		FAC	Species Across All Strata: 6 (B)
particular and the second control of the sec	4.4%	(110011111111111111111111111111111	Percent of dominant Species
68	= Total Co	enies sehesianthaattiintaa	That Are OBL, FACW, or FAC: 66.7% (A/B)
Sapling/Shrub Stratum (Plot size: 155)			Prevalence Index worksheet:
1. Carpinus caroliniana 5	✓ 50.0%	FAC	Total % Cover of: Multiply by:
2. Ostrya virginiana 5	50.0%	FAC	OBL species 3 x 1 = 3
3. Commence of the second commence of the sec	0.0%	MANUAL SURVINION STREET, STREE	FACW species 50 x 2 = 100
4. 0	0.0%	name Samuellanden	FAC species 28 x 3 = 84
5. 0	0.0%	NACES SPECIFICATIONS IN THE SECOND	FACU species 28 x 4 = 112
Herb Stratum (Plot size: 5' r)	= Total Co	ver	UPL species 50 x 5 = 250
1 Carex pensylvanica 50	61.7%	LIPI	Column Totals: 159 (A) 549 (B)
2 6	18.5%	THE STREET, ST	Material State (1984) American Control of
3. Carex blanda 10	12.3%	Anter mountainement/////	Prevalence Index = B/A = 3.453
4. Cornus racemosa 3	3,7%	e most in a case or constructions.	Hydrophytic Vegetation Indicators:
5. Sagittaria latifolia 3	3,7%	OBL	1 - Rapid Test for Hydrophytic Vegetation
6.	0.0%		2 - Dominance Test is > 50%
7. 0	0.0%	and moneyeariness	3 - Prevalence Index is ≤3.0 ¹
8.	0.0%	ovae Somenavanichostesta	4 - Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet)
9. O and the second contract of the second co	0.0%	mad warmarabbiling	Problematic Hydrophytic Vegetation ¹ (Explain)
10. O . O . O . O . O . O . O . O . O . O	0.0%	noon yoursensons	
Woody Vine Stratu (Plot size: 30' r)	= Total Co	ver	indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. 0	0.0%		
2.	0.0%	NAME OF THE PROPERTY OF THE PR	Hydrophytic
——————————————————————————————————————	= Total Co	VII. 1/11/10/11/11/11/11/11/11/11/11	Vegetation Yes • No •
an a			

Sampling Point: SP-12

Depth	Andrew-Chile-Chile Control Con	Matrix	Mark Mark Mark Control	nearly as extended off setting as being	Red	ox Featur		***************	79		
(inches)	Color (ı	noist)	%	Color (moist)	<u>%</u>	Type 1	Loc2	Texture Remarks		
0-5	10YR	3/2	100						Silt Loam		
5-14	10YR	4/2	60	10YR	5/8	20	C	М	Silty Clay		
				10YR	4/1	20	D	М			
14-22	10YR	5/2	85	10YR	6/8	15	С	M	Silty Clay		
A Menoral and an angle of passing occurrence.	40004000000000000000000000000000000000	***************************************	manuscription and the	······································	***************************************	VALUE OF THE PROPERTY OF	WATER CHARLES	Serveroreasternoreasternostal			
TO A MERCEN THE PRODUCT OF THE PARTY OF THE			Parameter and a second					THE CONTRACTOR OF CONTRACTORS			
¹ Type: C=Cor	centration D	=Denletion	RM=Reduc	ed Matrix	CS=Covere	od or Coate	ed Sand Gr	ains	2Location: PL=Pore Lining, M=Matrix,		
Hydric Soil			i, Kir-Nouac	cu muun,	CS-COVCIC	.u or courc	o ourid or	unio			
Histosol (Cal	ndy Gleyed	Matriy (S4))		Indicators for Problematic Hydric Soils 3:		
	pedon (A2)				ndy Gieyed ndy Redox (,		Coast Prairle Redox (A16)		
Black His					ipped Matri:				Dark Surface (S7)		
	n Sulfide (A4)				ipped Macky amy Mucky	• •	• >		Iron Manganese Masses (F12)		
Stratified	Layers (A5)					•	•		Very Shallow Dark Surface (TF12)		
2 cm Mu					amy Gleyed		.)		Other (Explain in Remarks)		
✓ Depleted	Below Dark S	Surface (A1	.1)		pleted Matr dox Dark Su				, ,		
Thick Dar	rk Surface (A1	.2)	-			` ′			3		
!	uck Mineral (S				pleted Dark	•	-/)		Indicators of hydrophytic vegetation and		
l — `	cky Peat or Pe	-		Re	dox Depress	sions (F8)			wetland hydrology must be present, unless disturbed or problematic.		
Restrictive L	ayer (if obs	erved):									
Type: _N	one	***************************************	17-000 MAINTON AND AND AND AND AND AND AND AND AND AN			FATTER OF THE TOTAL TOTA					
Depth (inc	thes): NA	····	······································	ALII MARATINI P					Hydric Soil Present? Yes No		
Remarks:											
HYDROLO											
Wetland Hyd			ia va avilva di v	ala ade all til	ot amalı)				Cagandan Tadiaskan (minimum of hus yangina		
	ators (minimu	im or one	is requirea; o					***************************************	Secondary Indicators (minimum of two required		
_	Vater (A1)				Vater-Staine		(Ba)		Surface Soil Cracks (B6)		
,	er Table (A2)			_	quatic Faur				☐ Drainage Patterns (B10)		
✓ Saturatio					rue Aquatio	•	•		Dry Season Water Table (C2)		
Water Ma					lydrogen Su			. (00)	Crayfish Burrows (C8)		
}	t Deposits (B2	:)			oxidized Rhi	•	-	Roots (C3)			
	Drift Deposits (B3) Presence of Reduced Iron (C4)				U 400	Stunted or Stressed Plants (D1)					
	Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6)					oils (C6)	✓ Geomorphic Position (D2)				
	☐ Iron Deposits (B5) ☐ Thin Muck Surface (C7)						FAC-Neutral Test (D5)				
	on Visible on A				Gauge or We	ell Data (D	9)				
☐ Sparsely	Vegetated Co	ncave Surf	ace (B8)		Other (Expla	in in Rema	arks)				
Field Observ	rations:										
Surface Wate		Yes (⊃ No 🦲)	Depth (incl	hes):					
Water Table I		Yes ⁽	● No C)		//	18				
Saturation Pro					Depth (incl	- 74112-174	I MAINT PARTY I MANUAL PROPERTY I PARTY I	Wet	land Hydrology Present? Yes 💿 No 🔾		
(includes capi	llary fringe)	Yes (Depth (inc			100	4400 4004		
		•			•		revious ir	nspections	s), if available:		
WETS analysis, WWI map, Soils map, aerial imagery, prior delineation Remarks:											
Based on a WETS analysis, antecedent hydrologic conditions were within a normal range. The criterion for wetland hydrology is met. Sample point											
~ 6-8" high	vv⊏13 analy: er in elevatio	on than sh	rallow mars	ologic col sh ~ 30 v	est of san	ae witiin aple point	i a ROIIII. L	riange.	тте съселов тог мецани пуцгоюду із тес. затіріе ротіс		
[•					

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

APPENDIX C

Table 15-3.0503 Table 15-3.0505 NRPP Checklist

Table 15-3.0503 Worksheet for the Calculation of Natural Resource Protection Land

Natural Resource Feature	Zoning District Type: Non- Residential (b) Protection Standard (%)	Area of Resource in Study Area (acres)	Protection Requirement (acres)	Area of Proposed Disturbance in Study Area (acres)
Steep Slopes:				
10 - 19%	40%	0.00	0.00	0.00
20 - 30%	70%	0.00	0.00	0.00
> 30%	80%	0.00	0.00	0.00
Woodlands & Forests:				
Mature	70%	5.30	3.71	0.34
Young	50%	0.00	0.00	0.00
Lakes & Ponds	100%	0.09	0.09	0.00
Streams	100%	0.00	0.00	0.00
Shore Buffer	100%	0.56	0.56	0.00
Floodplains/Floodlands	100%	0.00	0.00	0.00
Wetland Buffers (30')	100%	0.63	0.63	0.12
Wetland Setback (50')*	100%	0.75	0.75	0.13
Wetlands & Shoreland Wetlands	100%	6.44	6.44	0.23

^{*} The 50' Wetland Setback also includes the land within the 30' Wetland Buffer.

The total unadjusted natural resource protection land is 13.77 acres; however, the mature woodland, wetland, wetland buffer, wetland setback, pond, and shore buffer overlap covers 7.34 acres. Due to overlapping natural resources, the adjusted natural resource protection land is 6.43 acres.

Table 15-3.0505 WORKSHEET FOR THE CALCULATION OF SITE INTENSITY AND CAPACITY FOR NONRESIDENTIAL DEVELOPMENT

STEP 1:	CALCULATE MINIMUM REQUIRED LANDSCAPE SURFACE:	
	Take Base Site Area (from Step 5 in Table 15-3.0502): 11.01 acres	
	Multiple by Minimum <i>Landscape Surface Ratio (LSR)</i> (see specific zoning district LSR standard): X 0.25	2.75 acres
	Equais MINIMUM REQUIRED ON-SITE LANDSCAPE SURFACE =	
STEP 2:	CALCULATE NET BUILDABLE SITE AREA:	
	Take Base Site Area (from Step 5 in Table 15-3.0502): 11.01 acres	
	Subtract <i>Total Resource Protection Land</i> from Table 15-3.0503) or <i>Minimum Required Landscape Surface</i> (from Step 1 above), whichever is greater:	
	- 6.43 acres	
	Equais NET BUILDABLE SITE AREA = CALCULATE MAXIMUM NET FLOOR AREA YIELD OF SITE:	4.58 acres
STEP 3:	CALCULATE MAXIMUM NET FLOOR AREA TIELD OF SITE:	
	Take Net Buildable Site Area (from Step 2 above): 4.58 acres	
	Multiple by Maximum Net Floor Area Ratio (NFAR)	
	(see specific nonresidential zoning district NFAR standard): X 0.85	NA for PDD No. 18
	Equals MAXIMUM NET FLOOR AREA YIELD OF SITE =	
STEP 4:	CALCULATE MAXIMUM GROSS FLOOR AREA YIELD OF SITE:	
	Take Base Site Area (from Step 5 of Table 15-3.0502): 11.01 acres	
	Multiple by Maximum Gross Floor Area Ratio (GFAR)	
	(see specific nonresidential zoning district GFAR standard): X 0.55	NA for PDD No. 18
	Equals MAXIMUM GROSS FLOOR AREA YIELD OF SITE =	10
STEP 5:	DETERMINE MAXIMUM PERMITTED FLOOR AREA OF SITE:	
SIEF 3.		
	Take the <i>lowest</i> of Maximum Net Floor Area Yield of Site (from Step 3	NA for PDD No.
	above) or Maximum Gross Floor Area Yield of Site (from Step 4 above):	18
	(Multiple results by 43,560 for maximum floor area in square feet):	

APPENDIX D

Site Photographs



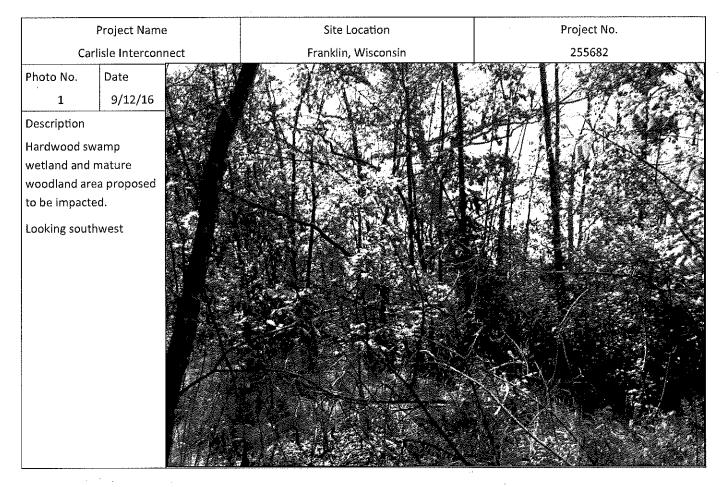


Photo No.

2

9/12/16

Date

Description

Hardwood swamp wetland and mature woodland area proposed to be impacted.

Looking north





Project Name Site Location Project No. 255682 Carlisle Interconnect Franklin, Wisconsin Photo No. Date 3 9/12/16 Description Hardwood swamp wetland and mature woodland area proposed to be impacted. Looking south

Photo No.

No. Date

4

9/12/16

Description

Hardwood swamp wetland and wetland, mature woodland, and wetland buffer/setback proposed to be impacted.

Looking north





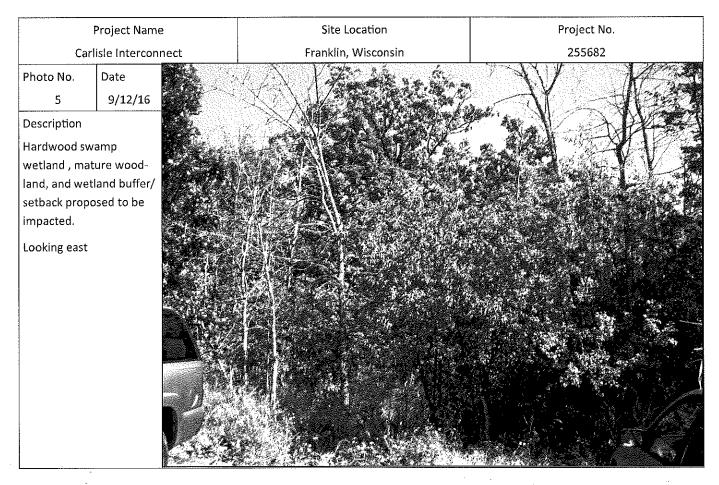


Photo No. Date 5/11/16

Description

Hardwood swamp wetland, mature woodland, and wetland buffer/setback proposed to be impacted.

Looking west from within mature woodland.





Carlisle Interconnect

Project Name

Site Location Franklin, Wisconsin Project No. 255682

Photo No.

Date

5/11/16

Description

5

North end of northwest parking lot with where the invasive grass *Phragmities* occurs. Herbicide treatment and native seeding will be conducted here for mitigation.



Photo No.

Date

6

5/11/16

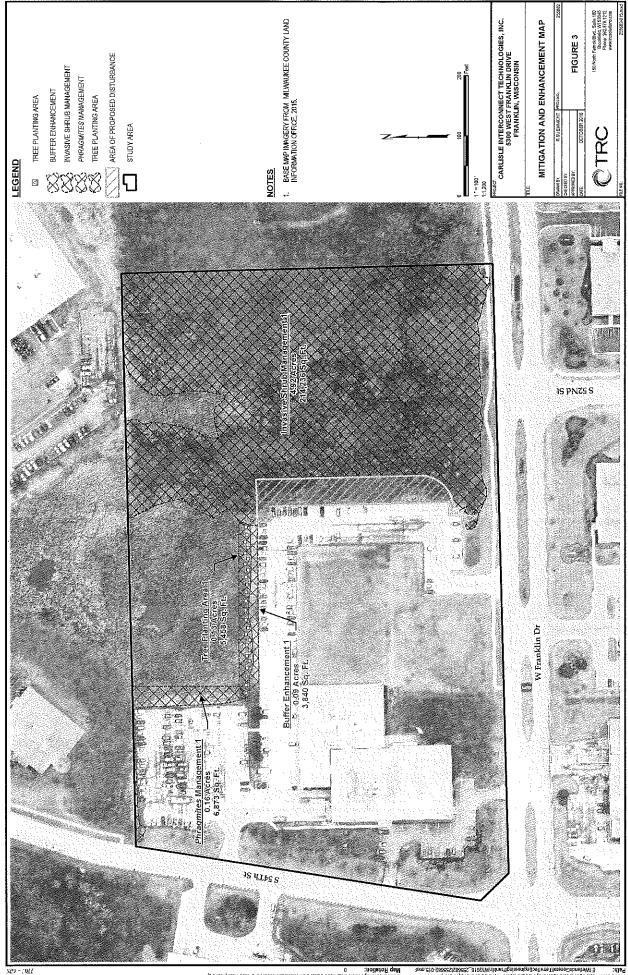
Description

North side of parking where wetland buffer can be enhanced and general area where native tree saplings can be plated for mitigation.

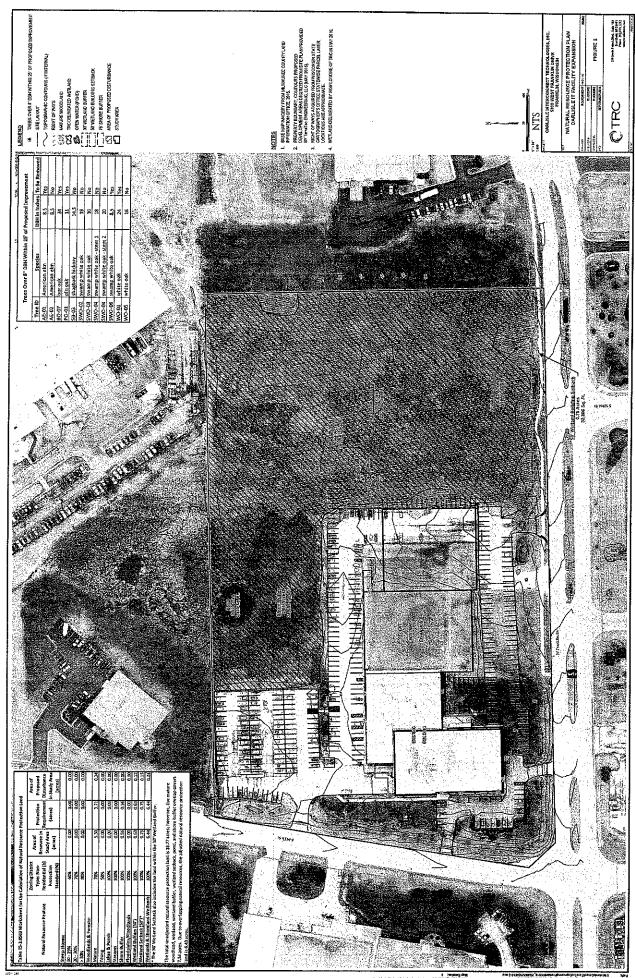


APPENDIX E

Figure 3 – Mitigation Map



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EXHIBIT A

Natural Resource Special Exception Question and Answer Form.

Questions to be answered by the Applicant

Items on this application to be provided in writing by the Applicant shall include the following, as set forth by Section 15-9.0110C. of the UDO:

permit	permitting mitigation for industrial uses under 15-4.9103(B)					
wher	ment regarding the Special Exception requested, giving distances and dimensions e appropriate.					
Carlisi	e IT Franklin Facility Expansion. Disturbance includes wetland fill and disturbance of wetland buffer and setback					
	creation of a driveway and additional parking needed due to facility expansion.					
Distur	ment of the reason(s) for the request. bance to natural resources is needed for the expansion of the existing facility to increase manufacturing floor space. banal parking and driveway access were needed to accommodate additional staff. A detailed Project					
***************************************	otion, purpose and need, and alternatives analysis are attached to this request.					
Exce prope	ment of the reasons why the particular request is an appropriate case for a Special ption, together with any proposed conditions or safeguards, and the reasons why the osed Special Exception is in harmony with the general purpose and intent of the nance. In addition, the statement shall address any exceptional, extraordinary, or					
Exce prope Ordin unus inten inclu	ption, together with any proposed conditions or safeguards, and the reasons why the osed Special Exception is in harmony with the general purpose and intent of the					
Exce prope Ordin unus inten inclu	ption, together with any proposed conditions or safeguards, and the reasons why the psed Special Exception is in harmony with the general purpose and intent of the psed Special Exception is in harmony with the general purpose and intent of the pseudostation. In addition, the statement shall address any exceptional, extraordinary, or that circumstances or conditions applying to the lot or parcel, structure, use, or ded use that do not apply generally to other properties or uses in the same district, ding a practicable alternative analysis as follows: **Ground and Purpose of the Project.** Describe the project and its purpose in detail. Include any pertinent construction plans.					
Exce propo Ordin unuss inten inclu	ption, together with any proposed conditions or safeguards, and the reasons why the psed Special Exception is in harmony with the general purpose and intent of the psed Special Exception is in harmony with the general purpose and intent of the pseudostation. In addition, the statement shall address any exceptional, extraordinary, or that circumstances or conditions applying to the lot or parcel, structure, use, or ded use that do not apply generally to other properties or uses in the same district, ding a practicable alternative analysis as follows: **Ground and Purpose of the Project.** Describe the project and its purpose in detail. Include any pertinent construction plans. See attached wetland fill permit request (dated September 21, 2016) and Carlisle project description,					
Exce propo Ordin unuss inten inclu	ption, together with any proposed conditions or safeguards, and the reasons why the psed Special Exception is in harmony with the general purpose and intent of the psed Special Exception is in harmony with the general purpose and intent of the pseudostation. In addition, the statement shall address any exceptional, extraordinary, or the laterium circumstances or conditions applying to the lot or parcel, structure, use, or ded use that do not apply generally to other properties or uses in the same district, ding a practicable alternative analysis as follows: Iground and Purpose of the Project. Describe the project and its purpose in detail. Include any pertinent construction plans.					

(c) State why the project must be located in or adjacent to the stream or other navigable water, shore buffer, wetland, wetland buffer, and/or wetland setback to achieve its purpose.

This is an expansion of an existing manufacturing facility. To increase production, increased work space on site is needed. Due to the use of heavy equipment, building up (2 floors) to reduce impact area is not feasible. Having exhausted various alternatives, only the driveway and single row of parking on the east side of the expansion area essential for safe and efficient site circulation will impact wetlands.

2) Possible Alternatives.

(a) State all of the possible ways the project may proceed without affecting the stream or other navigable water, shore buffer, wetland, wetland buffer, and/or wetland setback as proposed.

This project may not proceed without impacting wetland and wetland buffer/setback. This project has been redesigned to reduce the area of impact, no further actions are possible to further reduce impact. Carilsle IT has conducted a practicable alternatives analysis and has concluded that there are no practicable alternatives that either completely avoid wetland impacts or further minimize wetland impacts beyond what is being proposed. See attached.

(b) State how the project may be redesigned for the site without affecting the stream or other navigable water, shore buffer, wetland, wetland buffer, and/or wetland setback.

This project can not be redesigned without impacting wetland and wetland buffer/setback.

This project has been redesigned to reduce the area of impact, no further actions are possible to

further reduce impact. See attached alternatives analysis for further detail.

(c) State how the project may be made smaller while still meeting the project's needs.

This project has undergone several design alternatives to reduce the area of impact. This project may not be made any smaller while still meeting the projects needs. See attached alternatives analysis for further detail.

(d) State what geographic areas were searched for alternative sites.

Local and national areas outside of Wisconsin areas were considered and rejected as alternative sites.

See attached alternatives analysis for further detail.

(e) State whether there are other, non-stream, or other non-navigable water, non-shore buffer, non-wetland, non-wetland buffer, and/or non-wetland setback sites available for development in the area.

Due to the type of product manufacturing that is done in this facility, to increase production, the expansion must be connected to the existing building. See attached alternatives analysis for further detail.

	(f)	State what will occur if the project does not proceed. The alternative of not building an expansion would result in Carlisle IT having to utilize outside contract manufacturing
		services to produce product which would result in >\$15 million in lost profit due to increased manufacturing cost over the next 5 years.
		If the supplier is not approved by our customers, it could put the entire Franklin business operation at risk
		totaling the loss of >\$400 million in revenue for Carlisle IT over the life of the project.
3)	Com	parison of Alternatives.
	(a)	State the specific costs of each of the possible alternatives set forth under sub.2., above as compared to the original proposal and consider and document the cost of the resource loss to the community. See attached alternatives analysis for further detail.
	(b)	State any logistical reasons limiting any of the possible alternatives set forth under sub. 2., above. See attached alternatives analysis for further detail.
	(c)	State any technological reasons limiting any of the possible alternatives set forth
	,	under sub. 2., above. See attached alternatives analysis for further detail.
	(d)	State any other reasons limiting any of the possible alternatives set forth under sub. 2., above. See attached alternatives analysis for further detail.
4)	State under wetla	ce of Project Plan. why the project should proceed instead of any of the possible alternatives listed sub.2., above, which would avoid stream or other navigable water, shore buffer, and, wetland buffer, and/or wetland setback impacts.
	<u>-</u>	tached alternatives analysis for further detail.

5) Stream or Other Navigable Water, Shore Buffer, Wetland, Wetland Buffer, and Wetland Setback Description.

Describe in detail the stream or other navigable water shore buffer, wetland, wetland buffer, and/or wetland setback at the site which will be affected, including the topography, plants, wildlife, hydrology, soils and any other salient information pertaining to the stream or other navigable water, shore buffer, wetland, wetland buffer, and/or wetland setback.

Wetland in the proposed impact area is mixed hardwood swamp / shrub-carr plant community. Dominant vegetation includes Fraxinus pennsylvanica (green ash) and Quercus alba (white oak) in the tree stratum, Rhamnus cathartica (common buckthorn) in the shrub stratum; and Carex bromoides (brome-like sedge), Ribes cynosbati (prickly gooseberry), and Rhamnus cathartica in the herb stratum. Topography was relatively flat and soils were a sandy clay loam. The wetland buffer/setback includes mowed turf grass and upland hardwood forest. See Wetland Delineation Report (June 7, 2016) for more detail.

6)	Stream or Other Navigable	Water,	Shore	Buffer,	Wetland,	Wetland	Buffer,	and
	Wetland Setback Impacts.							

a)	Diversity of flora including State and endangered species.		Federal designated to Not Applicable	hreatened and/or Applicable	
b)	Storm and flood water storage.		Not Applicable	Applicable	
c)	Hydrologic functions.		Not Applicable	Applicable	
d)	Water quality protection including filtr or toxic substances.		on and storage of sec Not Applicable	liments, nutrients Applicable	
e)	Shoreline protection against erosion.		Not Applicable	☐ Applicable	
f)	Habitat for aquatic organisms.		Not Applicable	Applicable	
g)	Habitat for wildlife.		Not Applicable	Applicable	
h)	Human use functional value.		Not Applicable	☐ Applicable	
i)	Groundwater recharge/discharge protect	tior	1.		
			Not Applicable	Applicable	
j)	Aesthetic appeal, recreation, education,	ano	ł science value.		
			Not Applicable	☐ Applicable	
k)	Specify any State or Federal designated threatened or endangered species or species of special concern.				
1)	Existence within a Shoreland.		Not Applicable	☐ Applicable	
m)	Existence within a Primary or Secondary Environmental Corridor or within an Isolated Natural Area, as those areas are defined and currently mapped by the Southeastern Wisconsin Regional Planning Commission from time to time.				
			Not Applicable	Applicable	
Describe in detail any impacts to the above functional values of the stream or other navigable water, shore buffer, wetland, wetland buffer, and/or wetland setback: Filling wetland on site will generate a minimal reduction in the amount of area available for storm water storage,					
hydrologic functions, water quality protection, wildlife habitat, and groundwater protection. These alterations are unlikely to generate any meaningful impacts to the surrounding area. The existing wetland is within a mature woodland listed as					
an Isolated Natural Area by the Southeastern Wisconsin Regional Planning Commission.					

7) Water Quality Protection.

Describe how the project protects the public interest in the waters of the State of Wisconsin.

Carlisle IT has conducted a practicable alternatives analysis and has concluded that there are no practicable alternatives that either completely avoid wetland impacts or further minimize wetland impacts beyond what is being proposed.

There are no proposed impacts to waterways. Indirect impacts to water quality during construction and post construction are being managed by complying with s. NR 151, Wis. Adm. Code.

City of Franklin Environmental Commission

TO:

Common Council

DATE:

November 9, 2016

RE:

Special Exception application review and recommendation

APPLICATION:

Carlisle Interconnect Technologies, Inc., owner, Applicant,

dated: October 4, 2016 (5300 West Franklin Drive)

I. §15-9.0110 of the Unified Development Ordinance Special Exception to Natural Resource Feature Provisions Application information:

1. Unified Development Ordinance Section(s) from which Special Exception is requested:

Table 15-4.0100 and Section 15-4.0103B of the City of Franklin Unified Development Ordinance.

2. Nature of the Special Exception requested (description of resources, encroachment, distances and dimensions):

To fill and pave approximately 0.23 acre of wetlands, 0.12 acre of wetland buffers, and 0.01 acre of wetland setback.

3. Applicant's reason for request:

To construct additional parking and a driveway associated with an approximately 26,000 square foot addition to the existing Carlisle facility.

4. Applicant's reason why request appropriate for Special Exception:

The Carlisle facility needs to increase its manufacturing floor space due to increasing business and sales. The building addition is needed to house additional manufacturing machines such as CNC & Milling equipment and additional production space to meet the increased business demand and industry needs. Additional parking is needed for the additional staff associated with a building addition completed earlier this year, and for the proposed new building addition. The driveway access is needed to accommodate the parking for the additional staff, and for safe and efficient circulation for trucks. Carlisle has conducted a practicable alternatives analysis and has concluded that there are no practicable alternatives that

either completely avoid wetland impacts or further minimize wetland impacts beyond what is being proposed for the preferred alternative while still meeting the basic purpose and need of the project.

II. Environmental Commission review of the §15-9.0110C.4.f. Natural Resource Feature impacts to functional values:

1. Diversity of flora including State and/or Federal designated threatened and/or endangered species:

Wetland impact area (0.23 acre of 6.44 total acres) comprised of green ash, white oak, common buckthorn, brome-like sedge, and prickly gooseberry. The wetland buffer/setback impact area (0.13 acre of 1.38 total acres) includes mowed grass. Impact area also includes five trees over 12" in diameter (white oak, red oak, and American elm), and three adjacent trees over 12" (white oak) which may be impacted.

No known State and/or Federal designated threatened and/or endangered species.

2. Storm and flood water storage:

Minimal reduction in the amount of stormwater storage. No identified floodplain within the subject area.

3. Hydrologic functions:

Minimal impact on hydrologic functions.

4. Water quality protection including filtration and storage of sediments, nutrients or toxic substances:

Minimal impact on water quality, indirect impacts during construction will be managed by erosion control compliance with NR 151.

5. Shoreline protection against erosion:

No impact.

6. Habitat for aquatic organisms:

No impact.

7. Habitat for wildlife:

Minimal impact on wildlife habitat.

8. Human use functional value:

No impact.

9. Groundwater recharge/discharge protection:

Minimal impact on groundwater.

- 10. Aesthetic appeal, recreation, education, and science value: *No impact.*
- 11. State or Federal designated threatened or endangered species or species of special concern:

No impact.

12. Existence within a Shoreland:

No impact.

13. Existence within a Primary or Secondary Environmental Corridor or within an Isolated Natural Area, as those areas are defined and currently mapped by the Southeastern Wisconsin Regional Planning Commission from time to time:

The wetland/woodland has been identified as an Isolated Natural Resource Area.

III. Environmental Commission review of the §15-10.0208B.2.d. factors and recommendations as to findings thereon:

1. That the condition(s) giving rise to the request for a Special Exception were not self-imposed by the applicant (this subsection a. does not apply to an application to improve or enhance a natural resource feature):

The subject natural resources were not identified on the Franklin Business Park subdivision plat (Lot 2 of Block 9). Only a small area in the northwestern portion of the subject lot (not impacted) was identified as a Greenspace area. It appears that the wetlands have grown significantly, pursuant to comparison with a plat of survey prepared in 2008.

- 2. That compliance with the stream, shore buffer, navigable water-related, wetland, wetland buffer, and wetland setback requirement will:
 - a. be unreasonably burdensome to the applicants and that there are no reasonable practicable alternatives: ; or
 - b. unreasonably and negatively impact upon the applicants' use of the property and that there are no reasonable practicable alternatives:

Little undeveloped land remains within the subject property outside the existing wetlands. The existing building and parking lot occupies the majority of the buildable site, and any significant building additions can only extend eastward. That area, formerly Lot 2 of Block 9 of the Franklin Business Park, did not identify any natural resource features. However, this lot is now almost entirely comprised of wetlands.

Reducing the parking lot would not be feasible, as most of the parking is now regularly used, and the applicant has already proposed a reduction in parking compared to current conditions.

The applicant has indicated that numerous alternatives were evaluated, and the project redesigned to be smaller than preferred.

- 3. The Special Exception, including any conditions imposed under this Section will:
 - a. be consistent with the existing character of the neighborhood:

The proposed building addition and parking will result in a project similar in size to other large buildings nearby, and would be similarly located adjacent to/slightly within similar woodlands as are other adjacent properties; and

b. not effectively undermine the ability to apply or enforce the requirement with respect to other properties:

The Carlisle property is unique in that three separate parcels have been acquired over time (two from the Franklin Business Park and one from the adjacent Industrial Park), and combined into one for eventual development purposes. The subject area, formerly Lot 2 of Block 9 of the Franklin Business Park, did not identify any natural resource features. However, this lot is now almost entirely comprised of wetlands.

It appears that the applicant has exhausted all reasonable alternatives, has minimized impacts, is providing mitigation for the proposed impacts, and is avoiding the majority of the natural resources on the property.; and

c. be in harmony with the general purpose and intent of the provisions of this Ordinance proscribing the requirement:

The proposed impacts are minimal when compared to the amount of natural resources on the property, and mitigation will be undertaken to improve a majority of the remaining resources; and

- d. preserve or enhance the functional values of the stream or other navigable water, shore buffer, wetland, wetland buffer, and/or wetland setback in co-existence with the development (this finding only applying to an application to improve or enhance a natural resource feature):
- IV. Environmental Commission review of the §15-10.0208B.2.a., b. and c. factors and recommendations as to findings thereon:

1. Characteristics of the real property, including, but not limited to, relative placement of improvements thereon with respect to property boundaries or otherwise applicable setbacks:

The project will meet all other zoning and site planning requirements.

2. Any exceptional, extraordinary, or unusual circumstances or conditions applying to the lot or parcel, structure, use, or intended use that do not apply generally to other properties or uses in the same district:

The Carlisle property is unique in that three separate parcels have been acquired over time (two from the Franklin Business Park and one from the adjacent Industrial Park), and combined into one for development purposes. The subject natural resources were not identified on the Franklin Business Park subdivision plat (Lot 2 of Block 9). Only a small area in the northwestern portion of the subject lot (not impacted) was identified as a Greenspace area. It appears that the wetlands have grown significantly, pursuant to comparison with a plat of survey prepared in 2008.

3. Existing and future uses of property; useful life of improvements at issue; disability of an occupant:

The subject property is currently used and zoned for light industrial/manufacturing uses. The property is planned for, and is envisioned to remain as, future commercial use.

4. Aesthetics:

The proposed building addition and parking will result in a project similar in size to other nearby sites, and would be similarly located adjacent to/slightly within similar woodlands as are other adjacent properties. The proposed impacts are minimal when compared to the amount of natural resources on the property, and mitigation will be undertaken to improve a majority of the remaining resources.

5. Degree of noncompliance with the requirement allowed by the Special Exception:

Approximately 0.23 acre of wetlands (about 4% of the total 6.4 acres), 0.12 acre of wetland buffers (about 19% of the total 0.63 acre), and 0.01 acre of wetland setback (about 1% of the total 0.75 acre) will be filled and paved.

6. Proximity to and character of surrounding property:

The areas immediately to the east and north are wooded/wetland areas. Similarly sized light industrial/manufacturing uses located further east and north are also immediately adjacent/slightly encroaching into the wooded/wetland areas. All other adjacent areas are developed for similar light industrial/manufacturing uses.

- 7. Zoning of the area in which property is located and neighboring area: *Planned Development District No. 18, Franklin Business Park.*
- 8. Any negative affect upon adjoining property: *No negative impacts are anticipated.*
- 9. Natural features of the property:

Wetlands, wetland buffers, wetland setbacks, and a mature woodland exist on the subject property.

The wetland complex is comprised of shallow marsh, hardwood swamp, and shrub-carr habitat. The mature woodland, which overlaps much of the wetlands, consists of various oaks, American elm, green ash, and American basswood. The wetland buffer/setback area includes mowed grass.

10. Environmental impacts:

To fill and pave approximately 0.23 acre of wetlands, 0.12 acre of wetland buffers, and 0.01 acre of wetland setback.

V. Environmental Commission Recommendation:

The Environmental Commission has reviewed the subject Application pursuant to §15-10.0208B. of the Unified Development Ordinance and makes the following recommendation:

- 1. The recommendations set forth in Sections III. and IV. Above are incorporated herein.
- 2. The Environmental Commission recommends [approval] [denial] of the Application upon the aforesaid recommendations for the reasons set forth therein.
- 3. The Environmental Commissions recommends that should the Common Council approve the Application, that such approval be subject to the following conditions:
 - a. That the applicant obtain all Wisconsin Department of Natural Resources and U.S. Army Corps of Engineers permits and approvals prior to construction.

The above review and recommendation was passed and adopted at a regular meeting of the Environmental Commission of the City of Franklin on the 26th day of October, 2016.

Dated this 10 day of November	, 2016.
Attest:	Wesley Cannon, Chairman
Curtis Bolton, Vice-Chairman	