

# Wetlands Delineation Report IH 94 (North-South)

Milwaukee County, Wisconsin

**DOT Project ID: 1030-20-07** 

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Prepared for

Wisconsin Department of Transportation

Southeast Region 141 NW Barstow St. Waukesha, WI 53187

Prepared by



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#### 1.0 INTRODUCTION

Per the request of the Wisconsin Department of Transportation, GRAEF conducted a wetlands delineation update and verification of previously delineated wetlands within two designated Study Areas along Interstate Highway 94 (Figure 1, Appendix A). Study Area A is located from 3,000 feet south of Ryan Road to 2,000 feet north of Puetz Road in an area that generally ranges from 130 feet to 650 feet from the shoulder of the road in parts of Sections 18, 19, and 30; Township 5 North; Range 22 East in Milwaukee County, Wisconsin. Study Area B is located approximately from 1,970 feet south of Rawson Avenue to approximately 2,560 feet south of Rawson Avenue in an area approximately 110 feet from the shoulder of the road in parts of Section 7, Township 5 North, Range 22 East in Milwaukee County, Wisconsin.

The purpose of this wetland delineation was to verify and, when needed, revise the wetland boundaries that were previously delineated in 2009 by GRAEF. Our study is presented here in terms of methodology, results, and conclusions.

The wetlands delineation field investigation was conducted by GRAEF scientists Geoffrey B. Parish and Ronald A. Londré on August 1<sup>st</sup>, 4<sup>th</sup>, 6<sup>th</sup>, 18<sup>th</sup>, and 19<sup>th</sup> of 2014. A Statement of Qualifications on the field investigators is provided in Appendix J.

#### 2.0 METHODS

This delineation was conducted in accordance with the guidelines of the Corps of Engineers Wetland Delineation Manual (Environmental Laboratory, 1987) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0, 2010) and in general accordance with Wisconsin Department of Natural Resources guidelines (WI Department of Administration, WI Coastal Management Program, 1995) and Wisconsin Department of Transportation Wetland Mitigation Banking Technical Guidelines (1993). National Wetland Indicator status and taxonomic nomenclature is referenced from The National Wetland Plant List (Lichvar 2014). National Wetland Indicator status is based on the Midwest Region.

Prior to conducting fieldwork, GRAEF scientists reviewed a previous wetland delineation report from 2009 and several maps including the United States Geological Survey (USGS) 7.5' Quadrangle maps, Wisconsin Wetland Inventory Map, Natural Resource Conservation Service (NRCS) Soil Survey Map, and aerial photographs. Note: NRCS no longer releases their NRCS Wetland Inventory Maps to other than the landowner or operator without documented permission from the landowner or operator; therefore they were not reviewed nor are they included with this report.

Precipitation data from approximately 90 days prior to the field investigation was 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 for the time of the year.

The wetland verification process was conducted by uploading the wetland shape files from the previous 2009 wetland delineation onto a sub-meter accurate handheld GPS device (Trimble Geo-XH). The GPS device containing the wetland shape files and wetland boundary maps from the 2009 wetland delineation were used to walk and evaluate each previously delineated wetland boundary and determine whether any of the boundaries had changed over the past five years. Verified wetland boundaries, newly delineated wetlands, and revised boundaries are clearly identified on Exhibit A, Appendix E.

Sampling points were located in areas where new wetlands were determined to be present or where revisions to wetland boundaries were identified. The points were placed 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 sampling point, data were collected to document the vegetation, soils, and indicators of wetland hydrology. The wetland boundaries were 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 upland vegetation, apparent topographic breaks, and regular probing of soils.

A Floristic Quality Assessment (FQA) of each newly delineated wetland was conducted using the guidelines described in Development of a Floristic Quality Assessment for Wisconsin (Bernthal, 2003) as adopted and amended from the Plants of the Chicago Region (Swink and Wilhelm, 1994). A meander survey was performed for each wetland area to identify and document all vascular plant species present and identifiable at the time of the site visit. Based on the data collected, mean C and Floristic Quality Index (FQI) values were calculated using coefficients of conservatism values made available by the University of Wisconsin-Madison Herbarium's "Checklist of the Vascular Plants of Wisconsin".

#### 3.0 RESULTS AND DISCUSSION

#### **3.1 BACKGROUND REVIEW**

#### 3.1.1 Topography

Topography and surface water drainage within the Study Area is largely a result of grades and drainage of the highway. Generally, surface water flows into ditches alongside the highway and is directed towards tributaries of Oak Creek. Topographic contours are shown on maps (Figure 2) in Appendix A.

#### 3.1.2 Wisconsin Wetland Inventory

The Wisconsin Wetland Inventory (WWI) map (Figure 3, Appendix A) depicted 19 wetlands within Study Area A and 2 wetlands within Study Area B. The types of wetlands within the Study Areas shown on the WWI map are listed in Table 1 below.

Table 1. Mapped WWI Wetland Types

Study Area	Map Unit Symbol	Description
Α	W0Hx	Open water; subclass unknown; Standing water, palustrine; excavated
Α	E2H	Emergent/wet meadow; narrow-leaved persistent; Standing water, palustrine
Α	E2K	Emergent/wet meadow; narrow-leaved persistent; Wet soil, palustrine
Α	E2Ka	Emergent/wet meadow; narrow-leaved persistent; Wet soil, palustrine; Abandoned
A	E2Kx	Emergent/wet meadow; narrow-leaved persistent; Wet soil, palustrine; Excavated
А, В	T3/E2K	Forested; Broad-leaved deciduous / Emergent/wet meadow; narrow-leaved persistent; Wet soil, palustrine
В	тзк	Forested; Broad-leaved deciduous; Wet soil, palustrine

#### 3.1.3 Soils

According to the NRCS Soil Survey map (Figure 4, Appendix A) 13 mapped soil units are located within Study Area A and 5 units are located within Study Area B. The types of mapped soils are listed on Table 2 below.

Table 2. Mapped Soils

Study Area	Map Unit Symbol	Taxonomic Classification	Hydric Classification
А, В	AsA	Ashkum silty clay loam, 0-3% slopes	All hydric
Α	AzB	Aztalan loam, 2-6% slopes	Not hydric
А, В	BIA	Blount silt loam, 1-3% slopes	Not hydric
А	НеВ	Hebron loam, 2 to 6 percent slopes	Not hydric
Α	HtA	Houghton muck, 0 to 2 percent slopes	All hydric
Α	MmA	Matherton silt loam, 1 to 3 percent slopes	Not hydric
А, В	MzdB	Morley silt loam, 2 to 6 percent slopes	Not hydric
А, В	MzdB2	Morley silt loam, 2 to 6 percent slopes, eroded	Not hydric
А, В	MzdC2	Morley silt loam, 6 to 12 percent slopes, eroded	Not hydric
Α	MzdD2	Morley silt loam, 12 to 20 percent slopes, eroded	Not hydric
Α	Mzg	Muskego muck	All hydric
Α	PrA	Pistakee silt loam, 1 to 3 percent slopes	Not hydric
Α	Sm	Sebewa silt loam	All hydric

### 3.1.4 Prior Wetland Delineation (2009)

The prior wetland delineation conducted by GRAEF in 2009, as a part of a larger project, showed twenty delineated wetlands (Appendix B) within the Study Area. Copies of the Wetland Determination Data Forms from the 2009 report are provided in Appendix C.

#### 3.1.5 Precipitation Data.

The WETS analysis worksheet is provided in Appendix D. According to the MRCC cli-MATE database, the total precipitation from a nearby weather station (MILWAUKEE MITCHELL AP, WI839) for the 90 days prior to the start of the field investigation on August 1<sup>st</sup>, 2014 was approximately 11.21 inches. The precipitation data for the 90 day period preceding the month of August were entered into a WETS analysis worksheet to determine antecedent hydrologic conditions at the time of the site visit for field investigation purposes. Based on this analysis, the precipitation total for the 90 days prior to the site visits was considered to be within a normal range, suggesting that the surface or near-surface hydrology at the time of the site visit was normal and that hydrologic conditions during the site visit were typical. Approximately, 3.14 inches of precipitation occurred between the start of the field investigation on August 1<sup>st</sup> and the end of the field investigation on August 18<sup>th</sup>, 2014.

#### 3.2 FIELD STUDY

#### 3.2.1 Site Description

The wetland investigation included two Study Areas, A and B (Figure 1, Appendix A), that were generally along the IH 94 corridor. The majority of the landscape had been altered as a result of the construction of IH 94 and associated on and off ramps, ditches and culverts. Surface water was generally managed through a series of ditches and culverts directing water towards Oak Creek and its tributaries.

There were locations within Study Area A that were under active construction and other areas where construction had recently been completed. As a result, the current conditions are not shown on the aerial photographs in Appendix A.

The majority of newly delineated wetlands were wetlands located in roadside ditches that may have existed in 2009 but were not identified as wetlands in the 2009 report. The majority of revisions to wetland boundaries were a result of expanding the wetlands to include wetlands that existed in roadside ditches that were contiguous with the previously delineated wetland boundaries. The other primary reason for revisions to wetland boundaries resulted from roadway improvement projects where permitted wetland fills altered the wetland boundaries.

### 3.2.2 Wetlands

Thirty wetlands (W-1 through W-12, W7-1, W7-6, W8-6, W8-7, W8-8, W9-2, W9-3, W9-4, W9-4a, W9-5, W9-6, W9-7, W9-8, W9-9, W10-1, W10-2, W10-3, and W10-4) and their boundaries were newly delineated, revised, or verified. The delineated wetland boundaries and sample points are shown on Exhibit A in Appendix E. Data were collected and recorded on Wetland Determination Data Forms at 51 sample points (Appendix G) to document newly delineated wetlands or revised wetland boundaries that were a change from the 2009 wetland delineation. Photographs were taken at each sample point and other notable locations (Appendix F).

Table 3, Appendix I provides a detailed summary of each delineated wetland. The table provides, for each wetland, data on the name, size, C-value, FQI value, wetland sample points, adjacent upland

sample points, mapped WWI wetlands, wetland plant community descriptions, mapped wetland soils and classifications, comments on apparent connectivity to surface waters, comments on how wetland boundaries were determined, and other general comments.

#### 3.2.3 Waterways

Oak Creek and various unnamed tributaries of Oak Creek were identified during the field investigation. The approximate locations of these waterways are shown on Exhibit A, Appendix E.

#### 4.0 CONCLUSION

Based on the wetlands delineation update completed by GRAEF, thirty wetlands and their boundaries were delineated, revised, or verified with a total of 22.63 acres.

Any activity in delineated wetlands or waterways may require permits from the U.S. Army Corps of Engineers, Wisconsin Department of Natural Resources, and local governments prior to initiating work.

#### **5.0 LIMITATIONS**

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

Statements within this report about the connectivity of the delineated wetlands to surface waters are the professional opinions of GRAEF's scientists and are not significant nexus determinations or jurisdictional determinations. Opinions on connectivity are based on general field observations and a cursory review of available map resources. The ultimate authority to determine jurisdiction resides with the U.S. Army Corps of Engineers and the Wisconsin Department of Natural Resources.

The U.S. Army Corps of Engineers and the Wisconsin Department of Natural Resources have the ultimate authority to determine wetland boundaries, and adjustments to wetland boundaries may occur based on decisions made by these regulatory agencies.

#### 6.0 REFERENCES

- Bernthal, Tom. 2003. Development of a Floristic Quality Assessment for Wisconsin. Wisconsin Department of Natural Resources, Bureau of Fisheries Management and Habitat Protection, 22 pp.
- Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual. Technical Report Y-87-1, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.
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- Midwestern Regional Climate Center cli-MATE Database http://mrcc.isws.illinois.edu/CLIMATE/
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- USDA Natural Resources Conservation Service Web Soil Survey http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx
- USDA NRCS Climate Analysis by County Web Site (WETS). (Web Address: <a href="http://www.wcc.nrcs.usda.gov/climate/wetlands.html">http://www.wcc.nrcs.usda.gov/climate/wetlands.html</a>)
- Woodward, Donald E., ed. 1997. Hydrology Tools for Wetland Determination, Chapter 19. Engineering Field Handbook. U.S. Department of Agriculture, Natural Resources Conservation Service, Fort Worth, TX.
- WI Department of Administration, WI Coastal Management Program. 1995. Basic Guide to Wisconsin's Wetlands and their Boundaries. WI Coastal Management Program, Madison, WI
- Wisconsin Department of Natural Resources Surface Water Data Viewer Web Mapping Application <a href="http://dnrmaps.wi.gov/imf/imf.jsp?site=SurfaceWaterViewer">http://dnrmaps.wi.gov/imf/imf.jsp?site=SurfaceWaterViewer</a>
- Wisconsin Department of Transportation Wetland Mitigation Banking Technical Guideline. 1993, revised March 2002. Wisconsin Department of Natural Resources, United States Army Corps of Engineers, United States Environmental Protection Agency, United States Fish and Wildlife Service, and the Federal Highway Administration.



## **APPENDICES**

**Appendix A** Figures

Appendix B 2009 Wetland

**Boundary Map** 

Appendix C 2009 Wetland

**Determination Data** 

**Forms** 

Appendix D WETS Analysis

Appendix E 2014 Wetland

**Delineation Map** 

**Appendix F** Site Photographs

Appendix G 2014 Wetland

**Determination Data** 

**Forms** 

**Appendix H** Plant Lists / Floristic

**Quality Assessments** 

**Appendix I** Wetland Summary

**Table** 

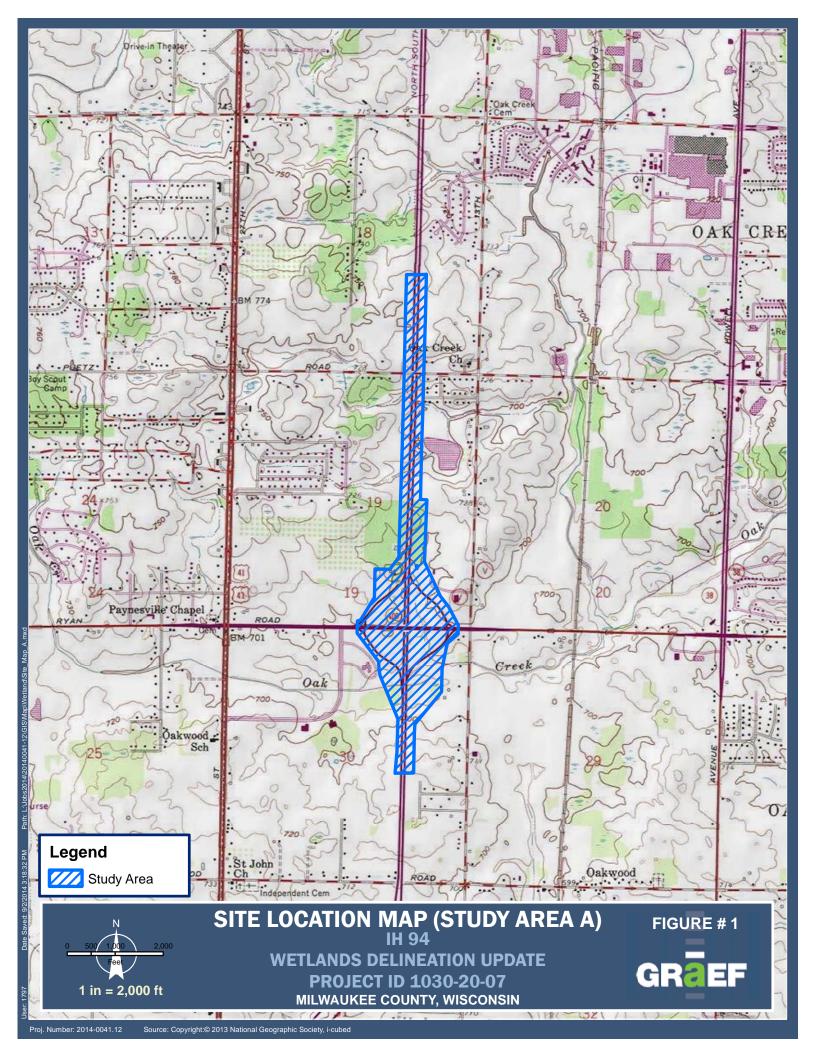
Appendix J Statement of

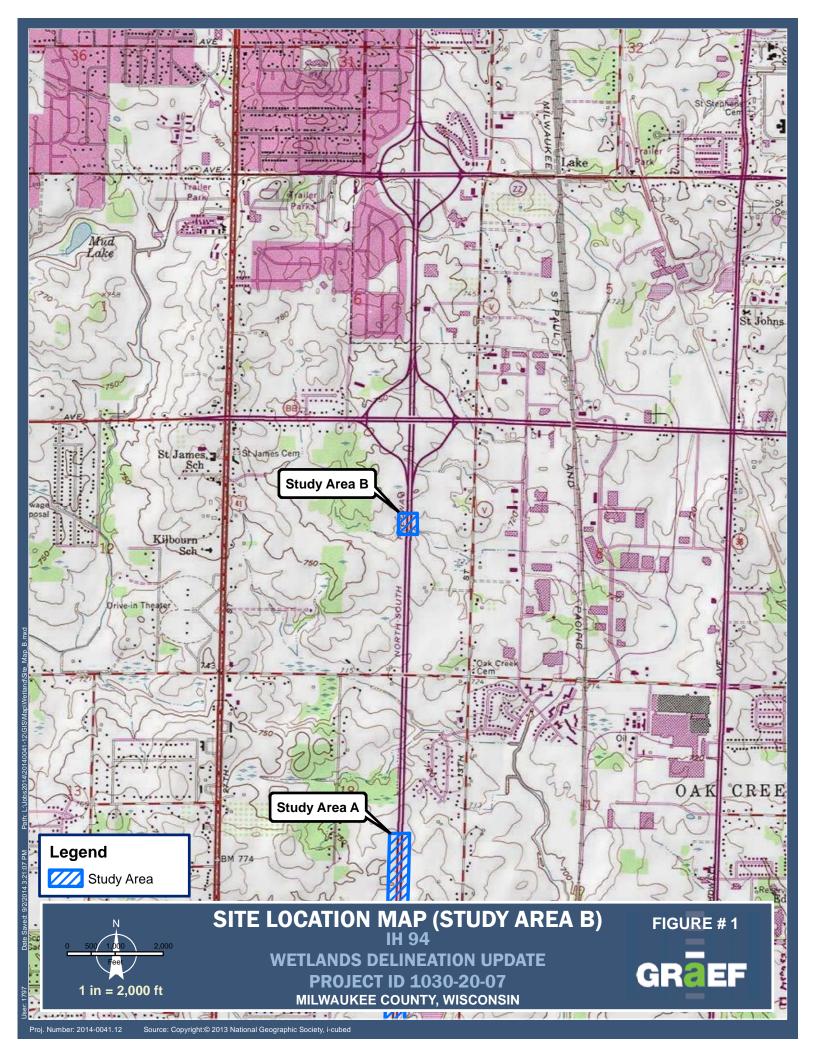
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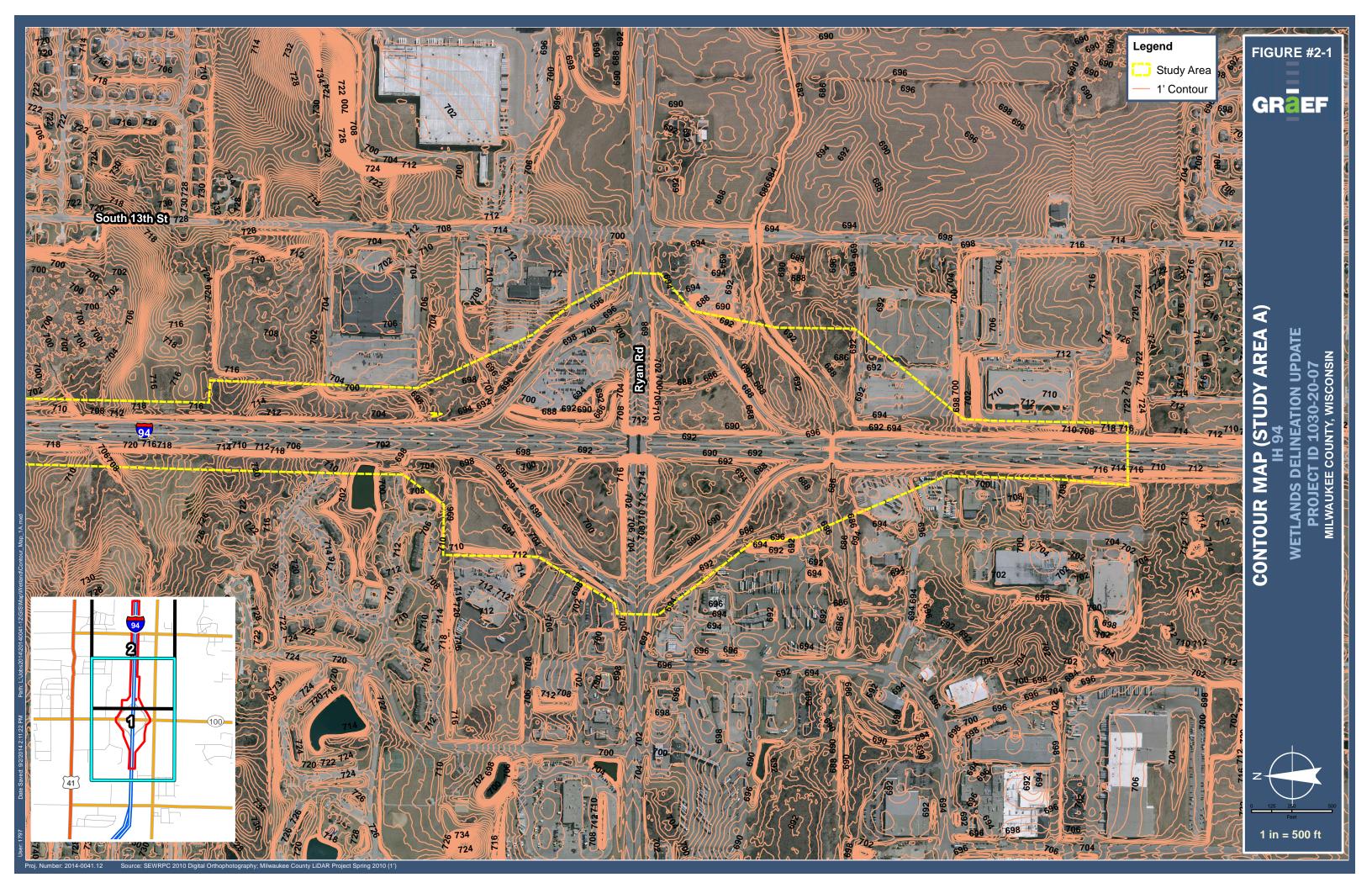


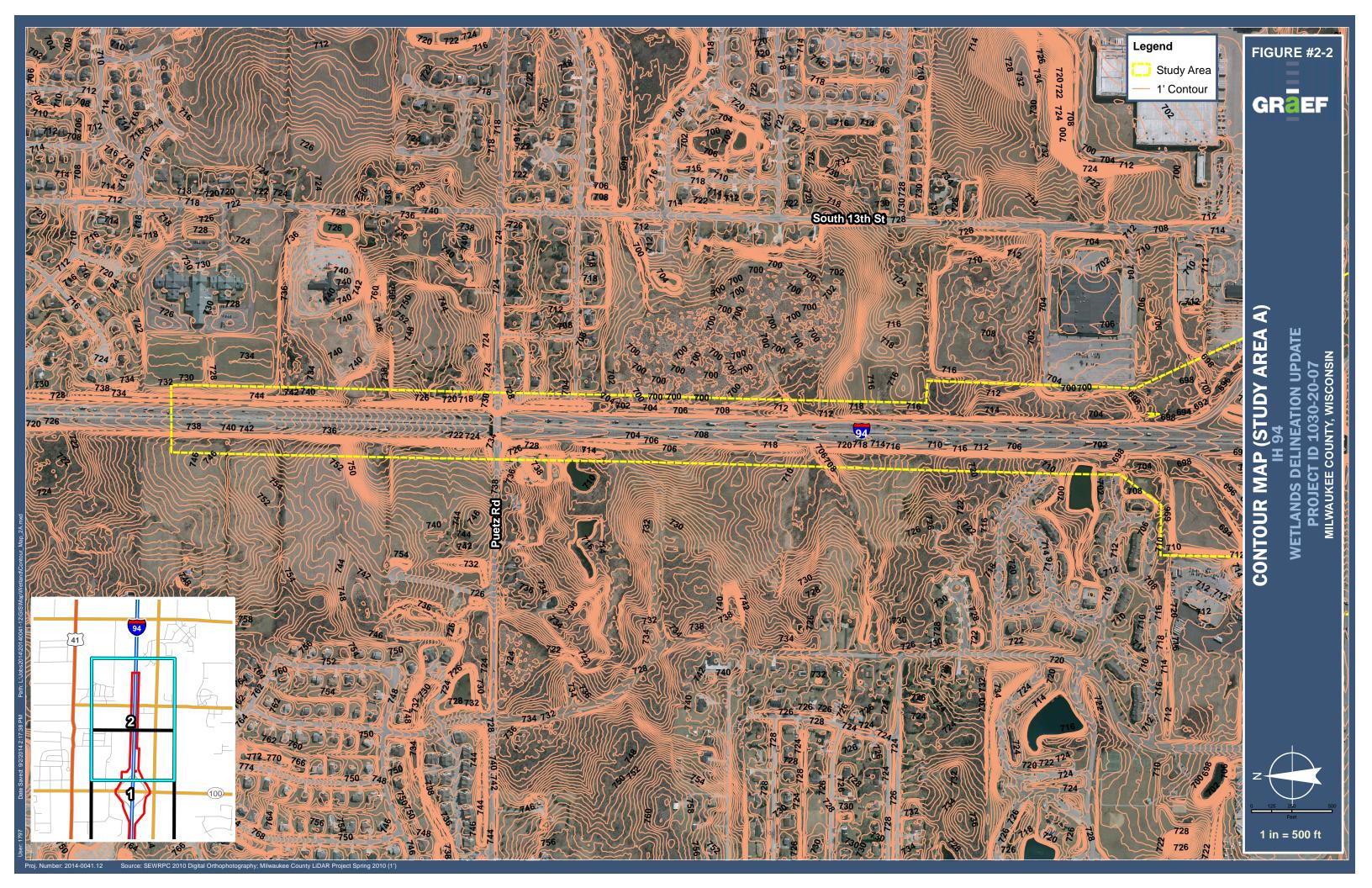
## **APPENDIX A**

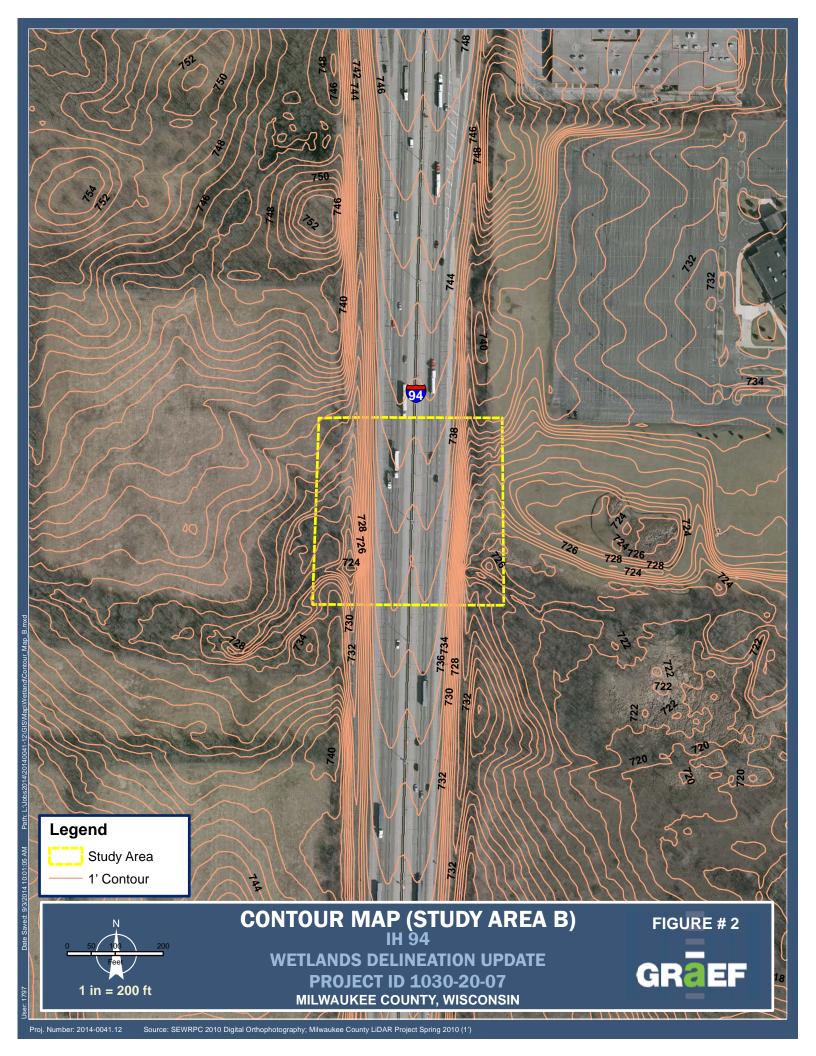
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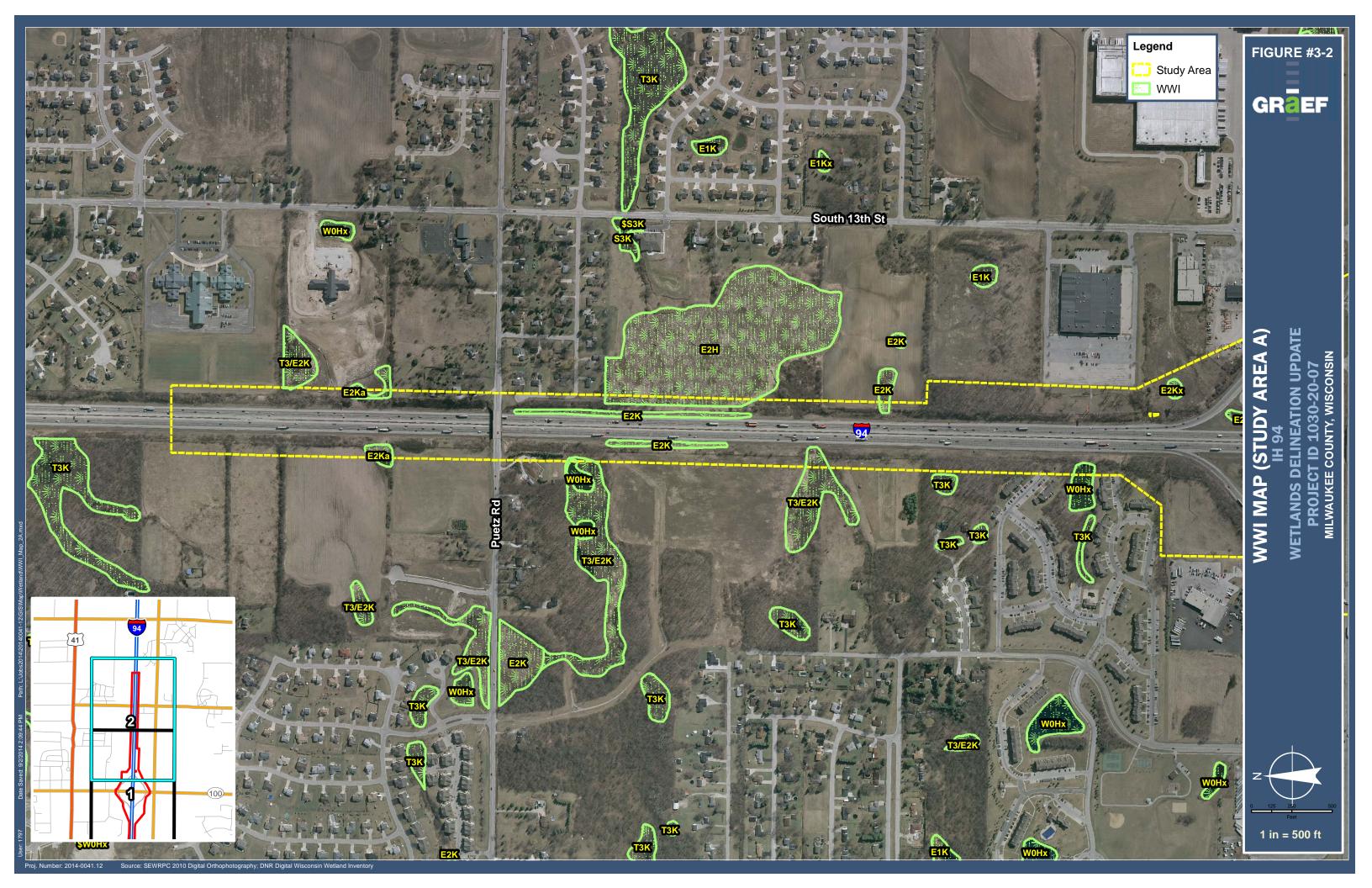


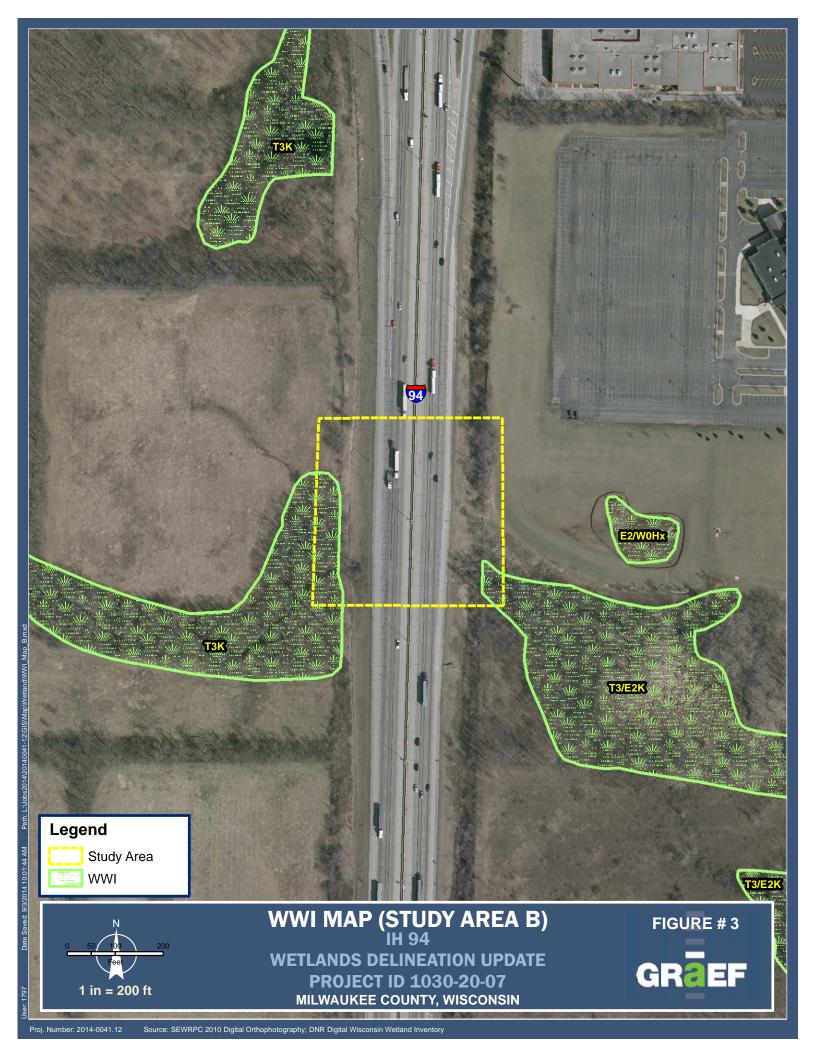


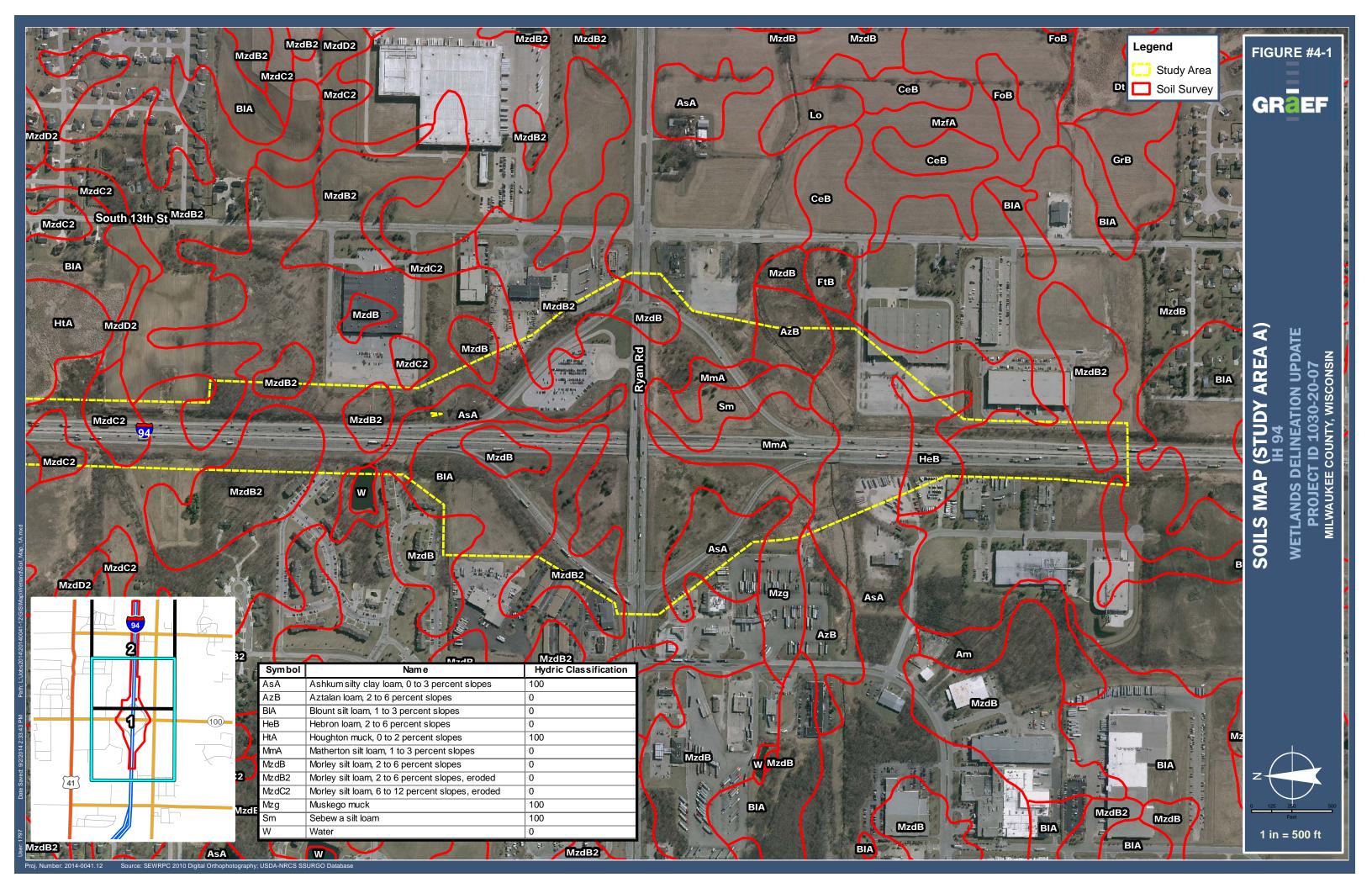


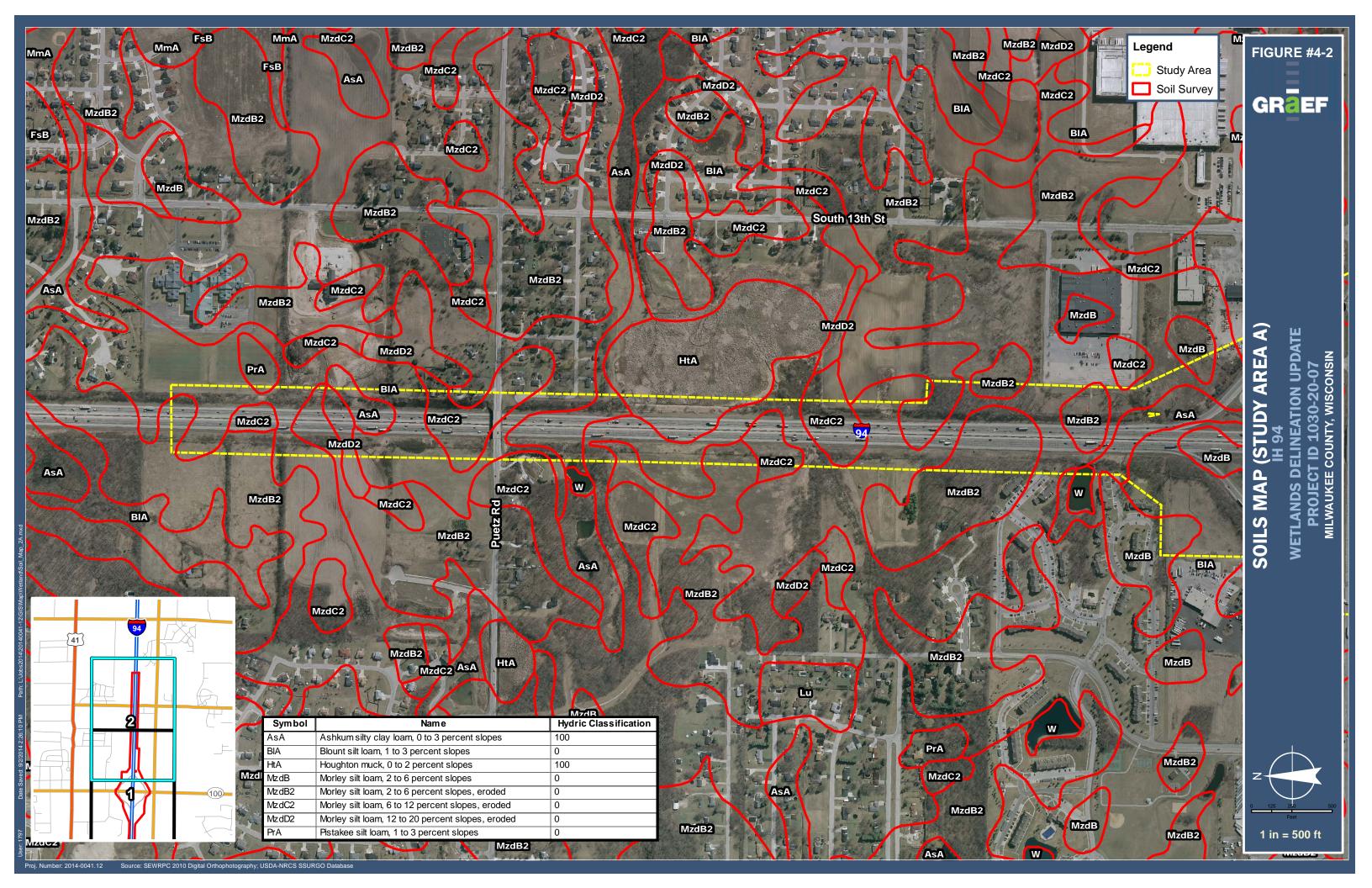


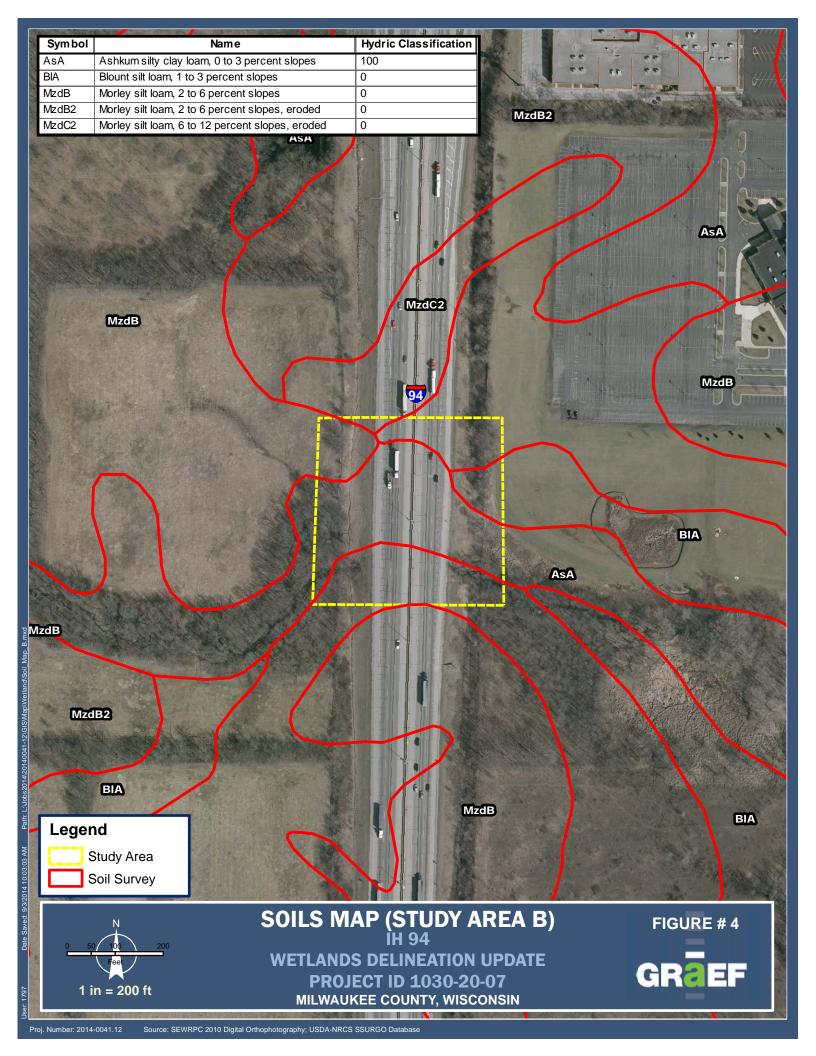




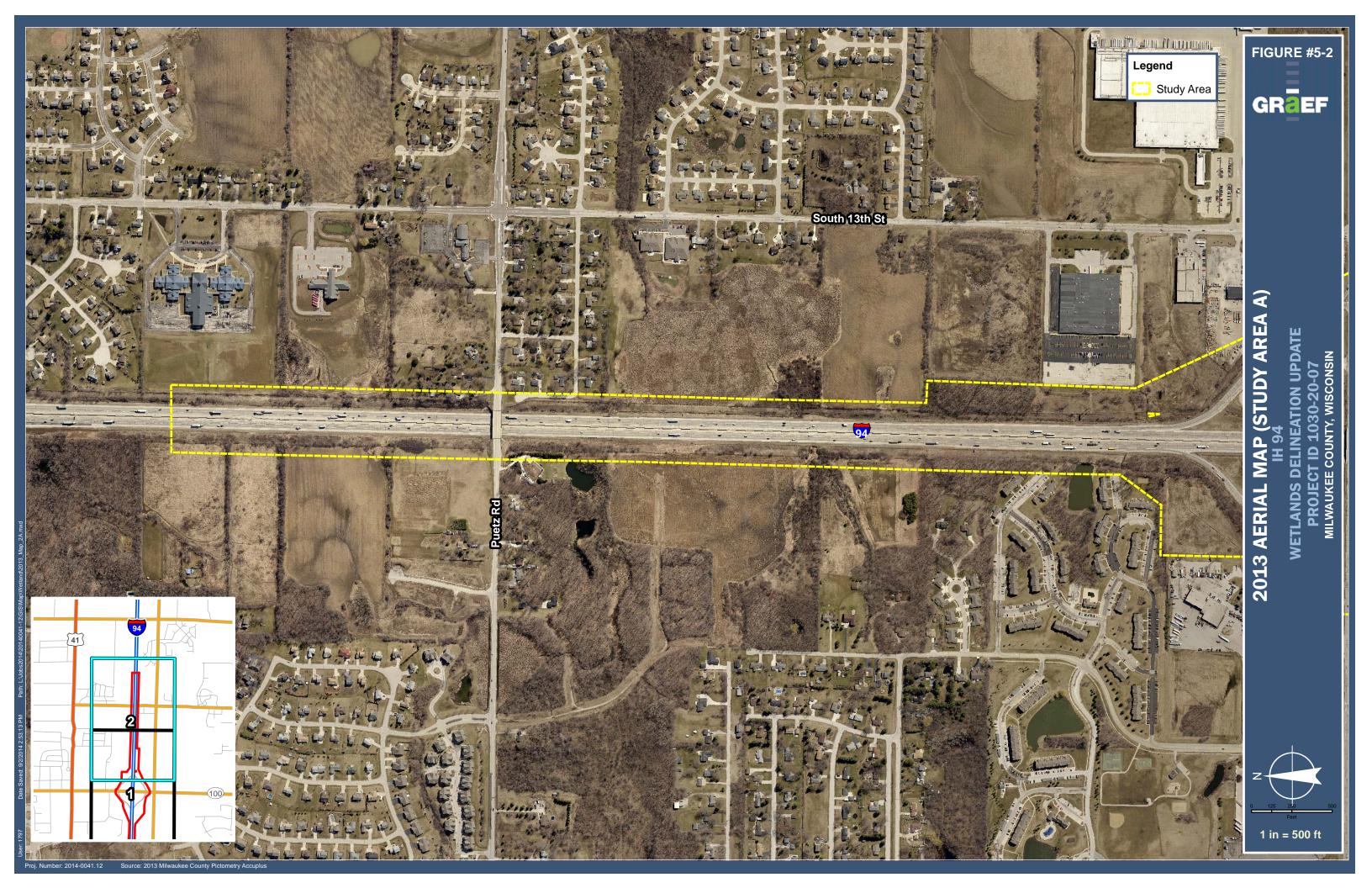


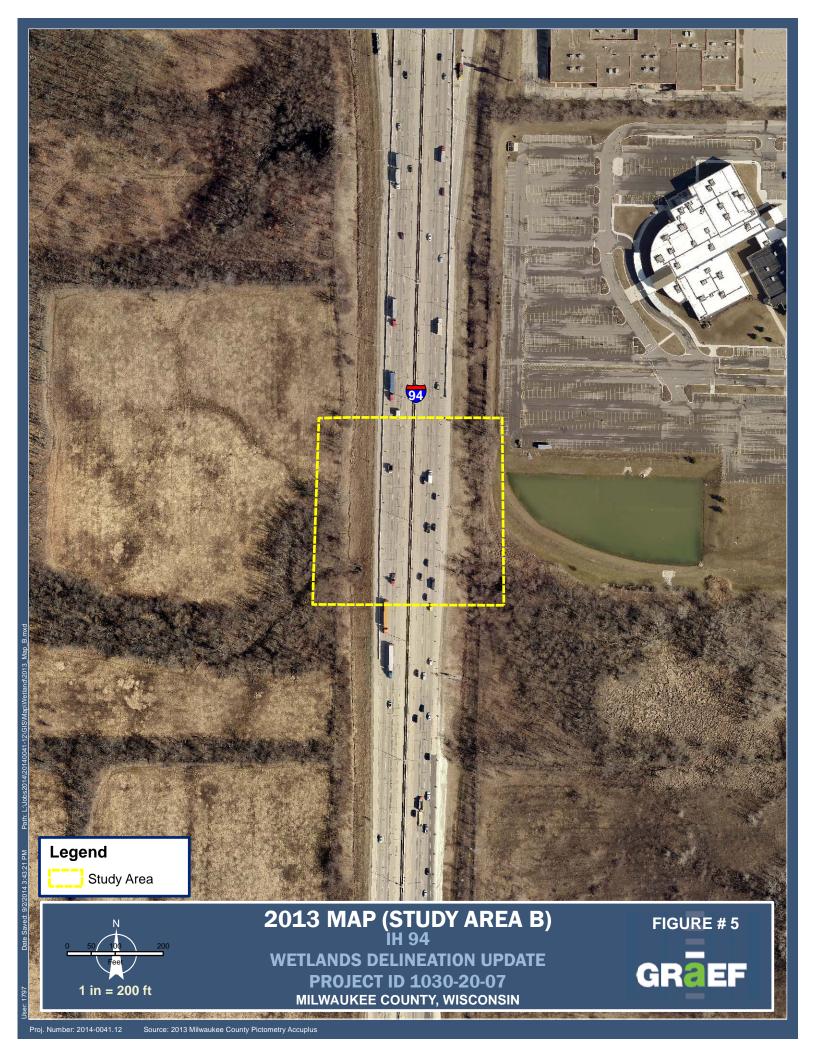


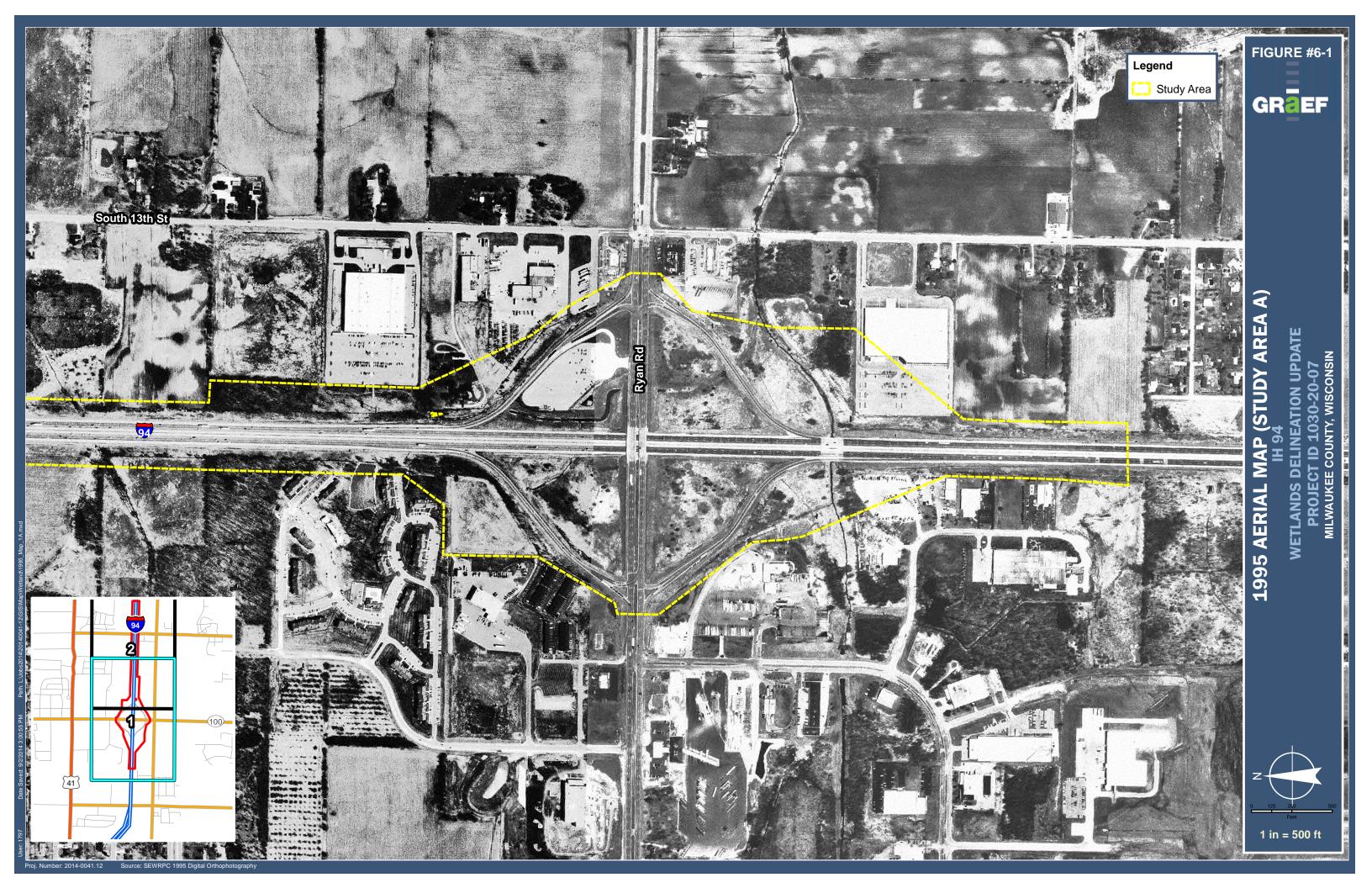












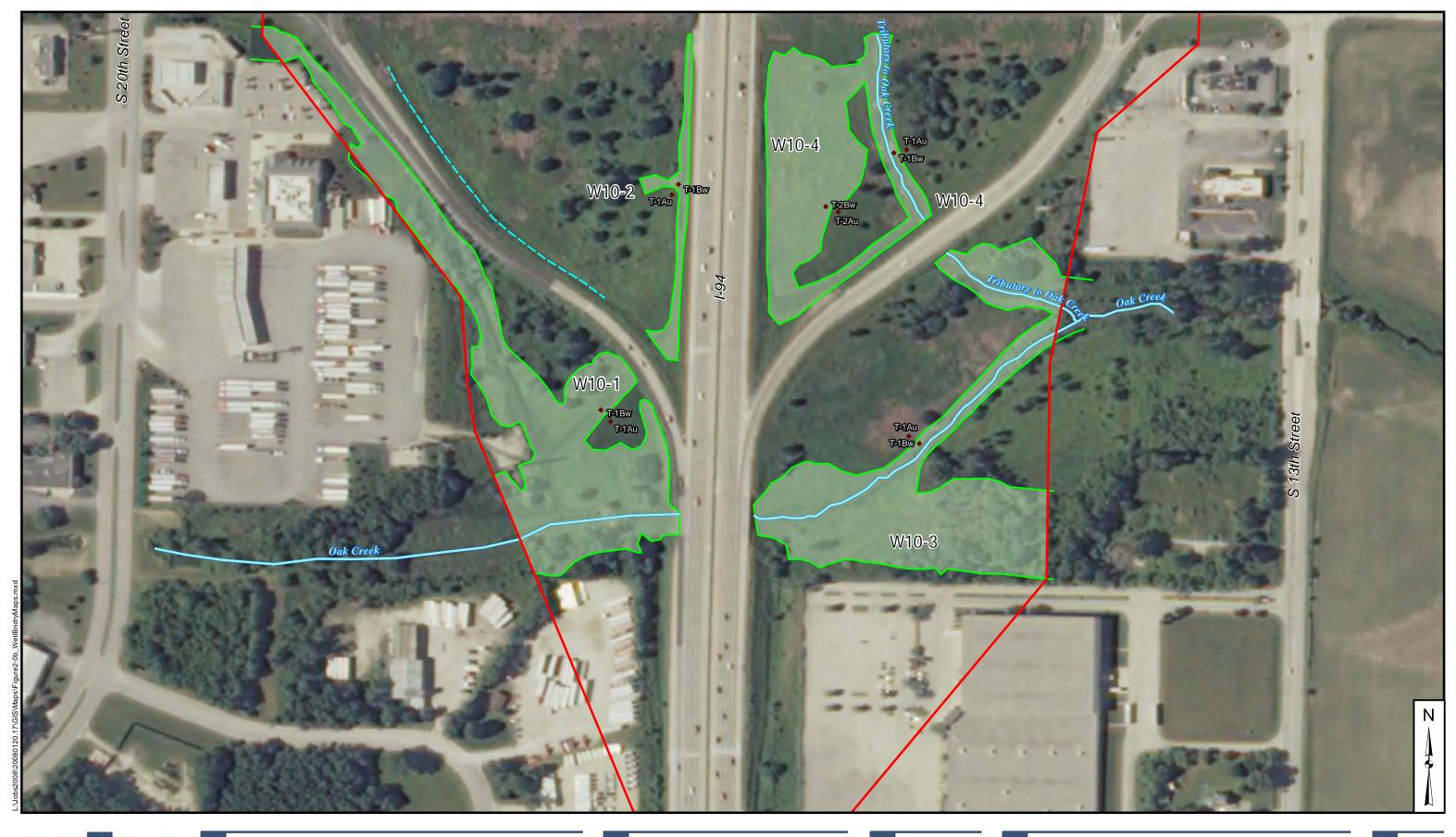




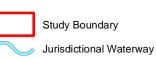


## **APPENDIX B**

## 2009 Wetland Boundary Map







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**Legend** 



Wetland Boundary Field-Delineated (Surveyed) Wetland Boundary Inferred (Not Surveyed)

Wetland Area

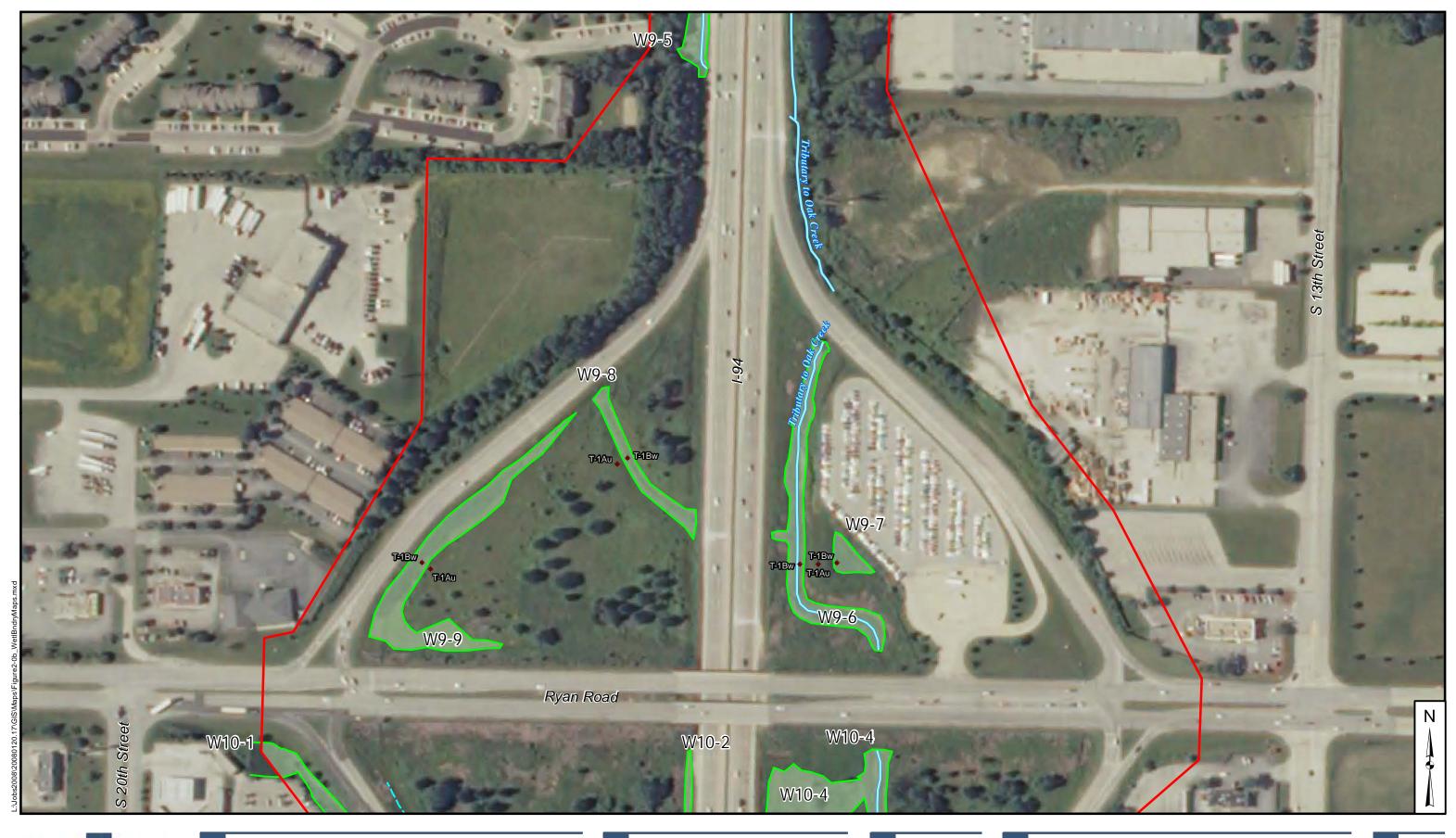
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PROJ. NUMBER: 2008-0120.17 DATE: 01-05-2010 PROJECT MGR: ECP DRAWN BY: CMV SCALE:

REVISED:

**WETLAND BOUNDARY MAP** 

FIGURE 2.19







Wetland Area



Wetland Boundary Field-Delineated (Surveyed)



Wetland Boundary Inferred (Not Surveyed)

SOURCE: USDA, NAIP, FARM SERVICE AGENCY, 2008 AIR PHOTOS MILWAUKEE AND RACINE COUNTY

 PROJ. NUMBER:
 2008-0120.17

 DATE:
 01-05-2010

 PROJECT MGR:
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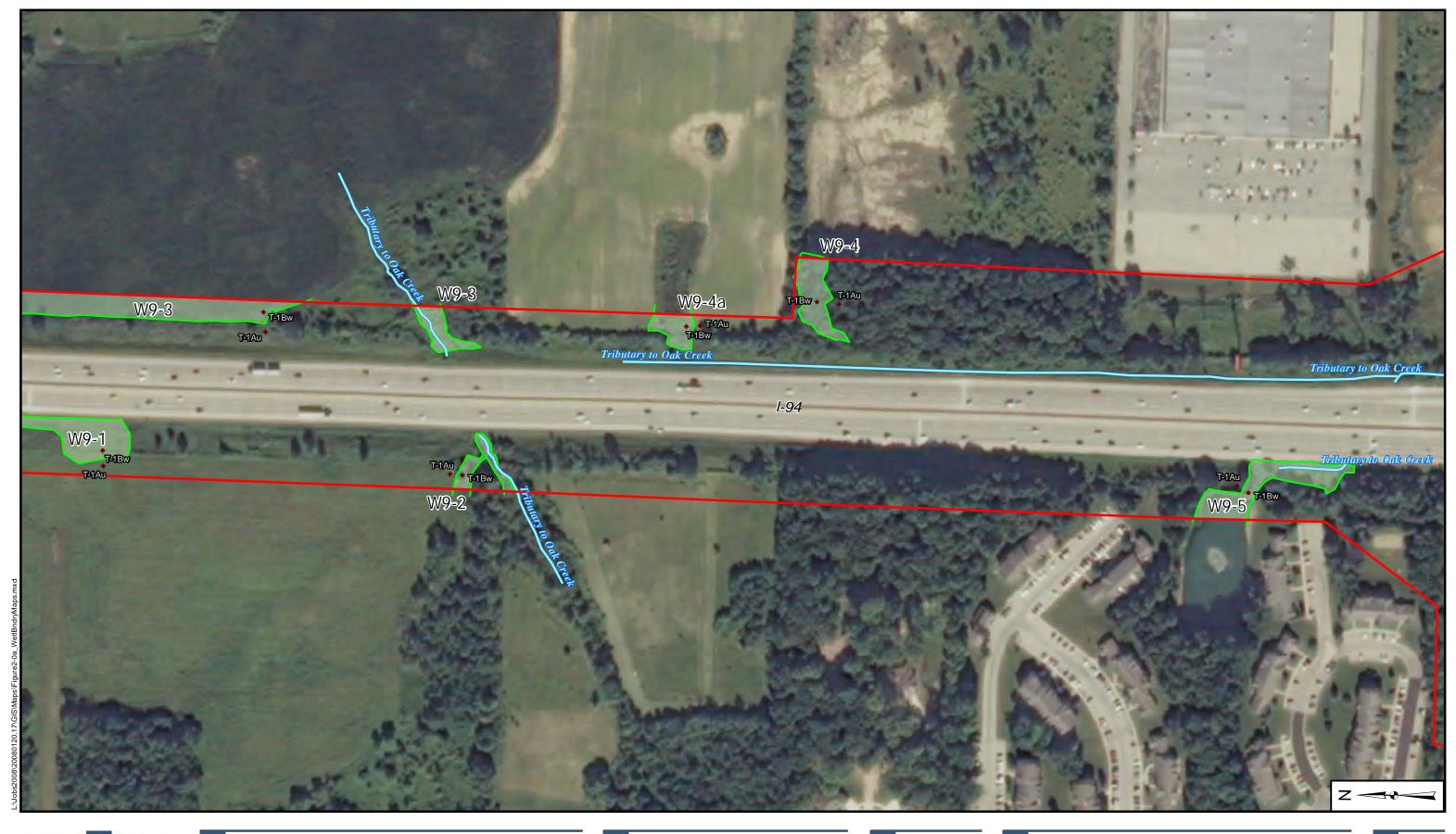
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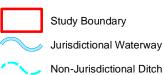
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## **WETLAND BOUNDARY MAP**

**FIGURE 2.20** 







Wetland Area



Wetland Boundary Field-Delineated (Surveyed)



Wetland Boundary Inferred (Not Surveyed)

SOURCE: USDA, NAIP, FARM SERVICE AGENCY, 2008 AIR PHOTOS MILWAUKEE AND RACINE COUNTY

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 DATE:
 01-05-2010

 PROJECT MGR:
 ECP

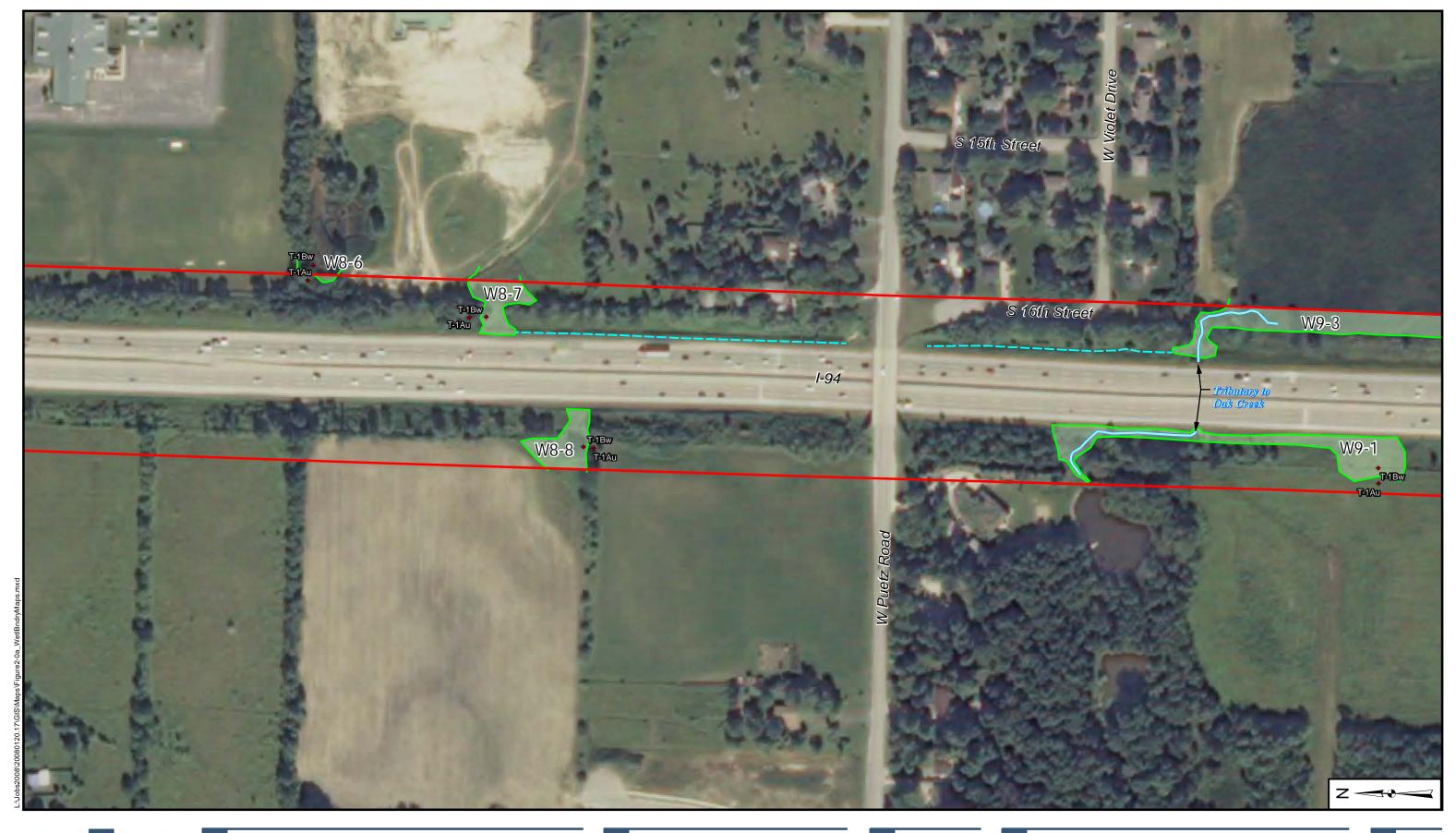
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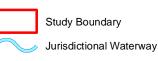
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## **WETLAND BOUNDARY MAP**

**FIGURE 2.21** 







Non-Jurisdictional Ditch

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Wetland Boundary Field-Delineated (Surveyed)



Wetland Area

Wetland Boundary Inferred (Not Surveyed)

SOURCE: USDA, NAIP, FARM SERVICE AGENCY, 2008 AIR PHOTOS MILWAUKEE AND RACINE COUNTY

 PROJ. NUMBER:
 2008-0120.17

 DATE:
 01-05-2010

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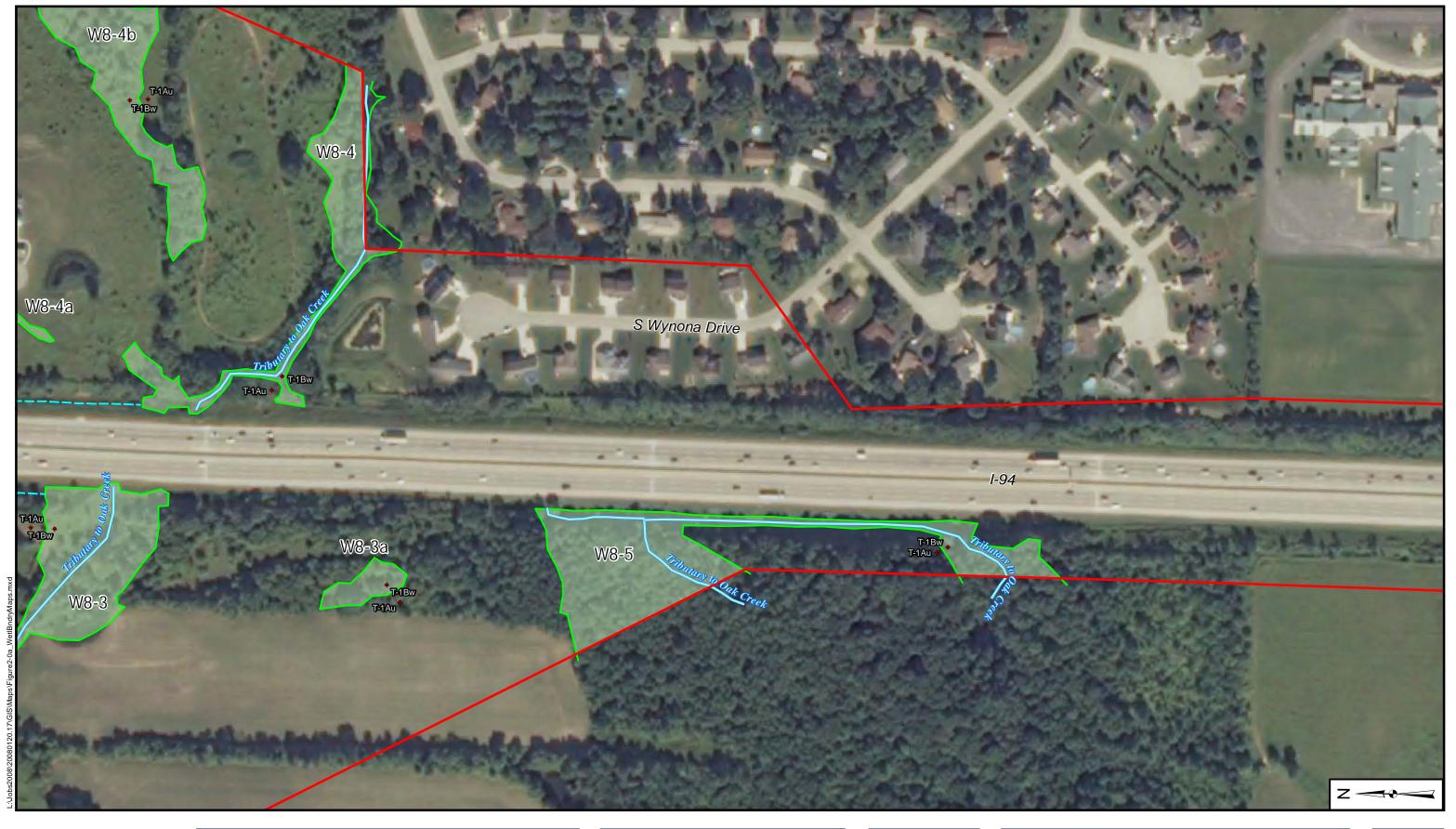
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WETLAND BOUNDARY MAP

FIGURE 2.22









Wetland Boundary Field-Delineated (Surveyed)



Wetland Boundary Inferred (Not Surveyed)
Wetland Area

SOURCE: USDA, NAIP, FARM SERVICE AGENCY, 2008 AIR PHOTOS MILWAUKEE AND RACINE COUNTY

 PROJ. NUMBER:
 2008-0120.17

 DATE:
 01-05-2010

 PROJECT MGR:
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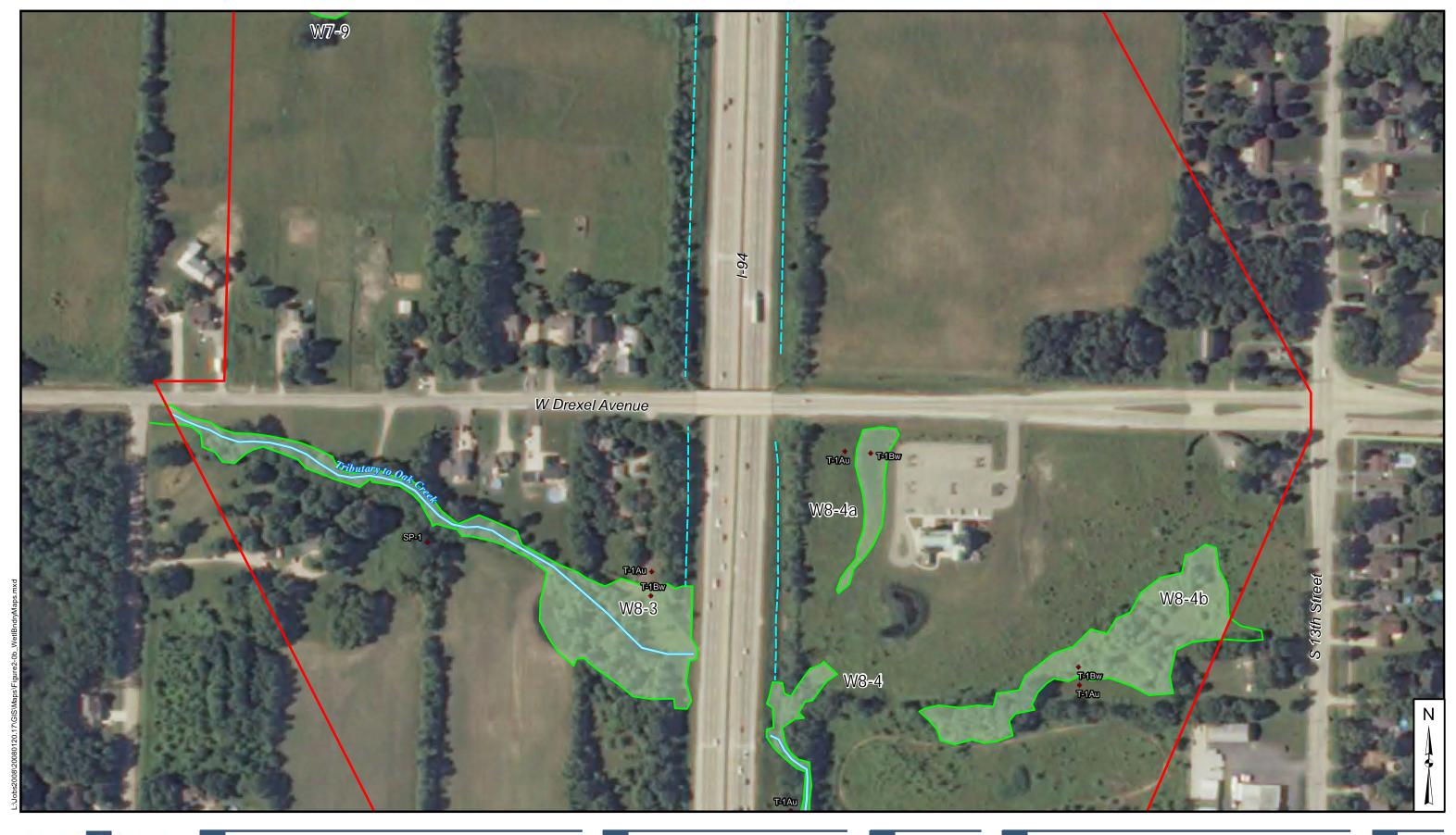
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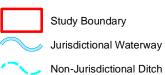
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## WETLAND BOUNDARY MAP

**FIGURE 2.23** 







Wetland Area



Wetland Boundary Field-Delineated (Surveyed)



Wetland Boundary Inferred (Not Surveyed)

SOURCE: USDA, NAIP, FARM SERVICE AGENCY, 2008 AIR PHOTOS MILWAUKEE AND RACINE COUNTY

 PROJ. NUMBER:
 2008-0120.17

 DATE:
 01-05-2010

 PROJECT MGR:
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 DRAWN BY:
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 SCALE:
 1" = 200'

REVISED:

**WETLAND BOUNDARY MAP** 

FIGURE 2.24

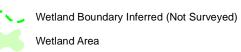








Wetland Boundary Field-Delineated (Surveyed)



SOURCE: USDA, NAIP, FARM SERVICE AGENCY, 2008 AIR PHOTOS MILWAUKEE AND RACINE COUNTY

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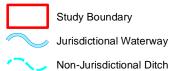
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## **WETLAND BOUNDARY MAP**

**FIGURE 2.25** 









Wetland Boundary Field-Delineated (Surveyed)
Wetland Boundary Inferred (Not Surveyed)



SOURCE: USDA, NAIP, FARM SERVICE AGENCY, 2008 AIR PHOTOS MILWAUKEE AND RACINE COUNTY 
 PROJ. NUMBER:
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## **WETLAND BOUNDARY MAP**

FIGURE 2.26



## **APPENDIX C**

# 2009 Wetland Determination Data Forms

Oak Creek/ City/County: Milwaukee IH-94 Mainline Sampling Date: <u>10/27/2009</u> Project/Site: Applicant/Owner: Sampling Point: W7-1 T-1 A(u) WDOT State: WI Investigator(s): Rachel E. Lang / Julie A. Paschal Section, Township, Range: Section 7, T5N R22E Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Datum: NA Slope (%): 1-4% Lat: See Fig. 2 Long: See Fig. 2 Soil Map Unit Name: Morley silt loam (MzdB2) WWI Classification: None Are climatic / hydrologic conditions on the site typical for this time of year? \*X (if no, explain in Remarks) Are Vegetation \_significantly disturbed? Are "Normal Circumstances" present? Soil or Hydrology Are Vegetation Soil or Hydrology naturally problematic? (if needed, explain any answers in Remarks) SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes No Х Is the Sampled Area Wetland Hydrology Present? No Х within a Wetland? Yes \* The WETS Analysis indicates that weather conditions have been normal in recent months. This area, however, has received several inches of precipitation within the last two weeks. VEGETATION - Use scientific names for plants Absolute % Indicator **Dominance Test Worksheet:** Free Stratum (Plot Size: 30 ft. radius ) Number of Dominant Species Prunus serotina **FACU** That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species Across All Strata: (B) = Total Cover Percent of Dominant Species That Are OBL, FACW, or FAC: \_(A/B) Sapling/Shrub Stratum (Plot Size: 15 ft. radius Prevalence Index Worksheet: Lonicera xbella Total % Cover of: Multiply by: OBL species 2. Rubus occidentalis 5% UPL FACW species x 2 = FAC species x 3 = **FACU** species x 4 = 10% = Total Cover **UPL** species x 5 : Column Totals: (A) Herb Stratum (Plot Size: 5 ft. radius Prevalence Index = B/A = Bromus inermis 85% UPL Solidago canadensis No FACU Hydrophytic Vegetation Indicators: Phalaris arundinacea Dominance Test is >50% Prevalence Index is ≤ 3.01 Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on separate sheet) Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 107% = Total Cover Woody Vine Stratum (Plot Size: N/A Hydrophytic 1. N/A Vegetation Present? No X Yes = Total Cover 0% Remarks: (Include photo numbers here or on a separate sheet.)

This is an upland, old field plant community located near a riparian corridor.

SOIL Sampling Point: W7-1 T-1 A(u)

Inches	0-10 10-12 12-22 12-22	10YR 3/2 10YR 4/2 10YR 4/3	100 100	None		Silty c	lay loam		-	
19-12	12-22	10YR 4/3	100	None		Clavele		•		
12-22   10 YR 42   10   None   Clay loam   Frace sand observed	12-22					Clay ic	oam			
Type: C-Concentration, D-Depletion, RM-Reduced Matrix, CS-Covered or Coated Sand Grains.   Tocation: PL-Pore Lining, M-Matrix   Type: C-Concentration, D-Depletion, RM-Reduced Matrix, CS-Covered or Coated Sand Grains.   Secondary Indicators:   Indicators for Problematic Hydric Soils 3:   Histoscol (A1)	12-22			None				Trace sand obse	rved	
Type: C-Concentration, D-Depletion, RM-Reduced Matrix, CS-Covered or Costed Sand Grains.			10							
Hydric Soil Indicators: Histoco (A1) Histoc Epipedon (A2) Black Histoc (A3) Sardy Redox (S5) Black Histoc (A3) Siripped Matrix (S6) Black Histoc (A3) Siripped Matrix (S6) Black Histoc (A3) Stratified Layers (A5) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Redox Dark Surface (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F7) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sem Mucky Peator Peat (S3) Restrictive Layer (if observed): Type: N/A Deplh (inches): N/A  Hydric Soil Present? Yes No X Sautraco (A3) Surface (A4)	Type: C=Concentratio					<b>U.L.</b> 1				
Hydric Soil Indicators:  Histoc Epipedon (A2)  Sandy Redox (S5)  Black Histic (A3)  Stripped Matrix (S4)  Black Histic (A3)  Stripped Matrix (S4)  Hydrogen Suilfide (A4)  Loamy Mucky Mineral (F1)  Depleted Below Dark Surface (A11)  Pedeburg Dark Surface (A12)  Sandy Mucky Mineral (F1)  Sandy Mucky Mineral (S1)  Redox Depressions (F8)	Type: C=Concentratio									
Hydric Soil Indicators: Histoco (A1) Histoc Epipedon (A2) Black Histoc (A3) Sardy Redox (S5) Black Histoc (A3) Siripped Matrix (S6) Black Histoc (A3) Siripped Matrix (S6) Black Histoc (A3) Stratified Layers (A5) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Redox Dark Surface (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F7) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sem Mucky Peator Peat (S3) Restrictive Layer (if observed): Type: N/A Deplh (inches): N/A  Hydric Soil Present? Yes No X Sautraco (A3) Surface (A4)	Type: C=Concentratio									
Histosol (A1) Histo Epipedon (A2) Sandy Robox (S5) Black Histic (A3) Stripped Matrix (S6) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Depleted Bedow Dark Surface (A11) Depleted Dark Surface (A11) Depleted Dark Surface (A12) Depleted Dark Surface (A12) Depleted Dark Surface (A12) Depleted Dark Surface (A12) Depleted Dark Surface (R5) Sandy Mucky Mineral (S1) Sondy Mucky Mucky Mineral (S1) Sondy Mucky		n, D=Depletion, RM=Reduce	d Matrix, CS	S=Covered or Coated Sa	nd Grains.	<sup>2</sup> Locat	tion: PL=Pore Linir	ng, M=Matrix		
Histic Epipedon (A2) Black Histic (A3) Sandy Redox (S5) Black Histic (A3) Stripped Matrix (S6) Loamy Mucky Mineral (F1) Loamy Mucky Mineral (F1) Depleted Edwor Dark Surface (A12) Depleted Dark Surface (F5) Sandy Mucky Mineral (S1) Fedox Depressions (F8)  Service Layer (if observed): Type: NA Depth (inches): N/A Depth (inches): N	Hydric Soil Indicators	:				Indicators for	Problematic Hyd	ric Soils <sup>3</sup> :		
Black Histic (A3)	Histosol (A1)			Sandy Gleyed Matrix (S4	)					
Hydrogen Sulfide (A4) Stratified Layers (A5) Loamy Mucky Mineral (F1) Depleted Below Dark Surface (A11) Depleted Dark Surface (F5) Sandy Mucky Mineral (S1) Sex Surface (A12) Surface (A12) Sex Surface (A13) Sex		2)								
Stratified Layers (AS) _ Loamy Gleyed Matrix (F2) _ Depleted Matrix (F2) _ Depleted Matrix (F3)							•	` '		
2 cm Muck (A10) Depleted Matrix (F3)   Redox Dark Surface (F5)   Population (F5)   P						Other (	(Explain in Remarl	ks)		
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Som Mucky Mineral (S1) Som Mucky Mineral (S3) Redox Depressions (F8) Redox D		15)			2)					
Thick Dark Surface (A12)					`	31		diam and made and		
Sandy Mucky Mineral (S1)										
Restrictive Layer (If observed): Type: M/A Depth (inches): N/A  Hydric Soil Present? Yes No _X  Remarks:  HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1)		, ,			-7)			iless disturbed		
Restrictive Layer (if observed):     Type: N/A     Depth (inches): N/A     Depth (inches): N/A  Remarks:  Hydric Soil Present? Yes No X  Depth (inches): N/A  Hydric Soil Present? Yes No X  Depth (inches): N/A  Hydric Soil Present? Yes No X  Depth (inches): N/A  Hydric Soil Present? Yes No X  Depth (inches): N/A  Hydric Soil Present? Yes No X  Depth (inches): N/A  Hydric Soil Present? Yes No X  Depth (inches): N/A  Hydric Soil Present? Yes No X  Depth (inches): N/A  Hydric Soil Present? Yes No X  Depth (inches): N/A  Hydric Soil Present? Yes No X  Depth (inches): N/A  Hydric Soil Present? Yes No X  Depth (inches): N/A  Hydric Soil Present? Yes No X  Depth (inches): N/A  Hydric Soil Present? Yes No X  Depth (inches): N/A  Hydric Soil Present? Yes No X  Depth (inches): N/A  No X Depth (inches): N/			<u> </u>	nedux Depressions (Fo)		or problema	alic.			
Type: N/A Depth (inches): N/A Depth (inches): N/A  Hydric Soil Present? Yes No X  Becondary Indicators (minimum of two required)  Secondary Indicators (minimum of two required)  Secondary Indicators (minimum of two required)  Secondary Indicators (minimum of two required)  Surface Soil Cracks (B6)  Jurface Soil Cracks (B6)  Primary Indicators (minimum of two required)  Secondary Indicators (minimum of two required)  Secondary Indicators (minimum of two required)  Surface Soil Cracks (B6)  Drinage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Secondary Indicators (minimum of two required)  Surface Soil Cracks (B6)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation (A3)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation (S8)  Sutration (C4)  Sutured or Stressed Plants (D1)  Algal Mat or Crust (B4)  In Recent Iron Reduction in Tilled Soils (C6)  In Indication Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Other (Explain in Remarks)  Field Observations:  Surface Water Present?  Yes No X Depth (inches):  Water Table Present?  Yes No X Depth (inches):  Wetland Hydrology Present?  Yes No					<u> </u>					
Depth (inches): N/A		oserveu).								
HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  Surface Water (A2)  Aquatic Fauna (B13)  Drainage Patterns (B10)  Saturation (A3)  True Aquatic Plants (B14)  Dry-Season Water Table (C2)  Water Marks (B1)  Hydrogen Sulfide Odor (C1)  Sediment Deposits (B2)  Oxidized Rhizospheres on Living Roots (C3)  Saturation Visible on Aerial Imagery (C9)  Algal Mat or Crust (B4)  Recent Iron Reduction in Tilled Soils (C6)  Iron Deposits (B5)  Thir Muck Surface (C7)  Sparsely Vegetated Concave Surface (B8)  Other (Explain in Remarks)  Field Observations:  Surface Water Present?  Yes  No  X  Depth (inches):  Wetland Hydrology Present?  Yes  No  No  Wetland Hydrology Present?  Yes  No  No  Metland Hydrology Present?  Yes  No  No  No  Metland Hydrology Present?  Yes  No  No  No  Metland Hydrology Present?  Yes  No  No  No  No  Metland Hydrology Present?  Yes  No  No  No  No  No  No  No  No  No  N		N/A				Hvdric	Soil Present?	Yes	No X	
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water-Stained Leaves (B9)  Surface Soil Cracks (B6)  Drainage Patterns (B10)  Craylish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Faculty of Stressed Plants (D1)  Iron Deposits (B5)  Iron Deposits (B5)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Other (Explain in Remarks)  Field Observations:  Surface Water Present?  Yes No X Depth (inches):  Wetland Hydrology Present?  Yes No	, , ,					-				
Sparsely Vegetated Concave Surface (B8)  Other (Explain in Remarks)  Gield Observations:  Surface Water Present?  Ves No X Depth (inches):  Saturation Present? Yes No X Depth (inches):  Saturation Present?  Yes No X Depth (inches):  Saturation Present?	High Water Table ( Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5)	A2) (B2) (B4)		Aquatic Fauna (B13) True Aquatic Plants (B14 Hydrogen Sulfide Odor (( Oxidized Rhizospheres o Presence of Reduced Iro Recent Iron Reduction in Thin Muck Surface (C7)	) C1) In Living Roots (C3 In (C4)	)	D	rainage Patterns (B1) ry-Season Water Tab rayfish Burrows (C8) aturation Visible on A tunted or Stressed Pl ecomorphic Position (	D) Dole (C2) Derial Imagery (C9) Derial (D1) D2)	
Surface Water Present? Yes No X Depth (inches):  Water Table Present? Yes No X Depth (inches):  Saturation Present? Yes No X Depth (inches):  Saturation Present? Yes No X Depth (inches):  Wetland Hydrology Present? Yes No					(s)					
includes capillary fringe)	Surface Water Present' Water Table Present?	Yes	No X	Depth (inches):		Wetlar	nd Hvdrology Pre	sent?	Yes	No 2
			well, aerial į		ons), if available:					
Remarks:  No wetland hydrology indicators observed.		rology indicators obse	rved							

Oak Creek/ Project/Site: IH-94 Mainline City/County: Milwaukee Sampling Date: 10/27/2009 Sampling Point: W7-1 T-1 B(w) Applicant/Owner: WDOT State: WI Investigator(s): Rachel E. Lang / Julie A. Paschal Section, Township, Range: Section 7, T5N R22E Landform (hillslope, terrace, etc.): Multiple drainage paths Local relief (concave, convex, none): Concave Long: See Fig. 2 Slope (%): 0-1% Lat: See Fig. 2 Datum: NA Soil Map Unit Name: Ashkum silty clay loam (AtA) WWI Classification: T3K Are climatic / hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks) Soil \_\_\_\_\_ or Hydrology significantly disturbed? Are "Normal Circumstances" present? Are Vegetation Soil Are Vegetation or Hydrology \*\*X naturally problematic? (if needed, explain any answers in Remarks) SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No Is the Sampled Area Wetland Hydrology Present? Х No within a Wetland? \* The WETS Analysis indicates that weather conditions have been normal in recent months. This area, however, has received several inches of precipitation within the last two weeks. \*\* This wetland experiences seasonal hydrology.

EGETATION - Use scientific names for plan				
ee Stratum (Plot Size: 30 ft. radius )	Absolute %	Dominant Species	Indicator Status	Dominance Test Worksheet:
,			. Wallis	Number of Dominant Species
Fraxinus pennsylvanica	80%	Yes	FACW	That Are OBL, FACW, or FAC: 4 (A)
Ulmus americana	20%	No	FACW	
				Total Number of Dominant
				Species Across All Strata: (B)
	100%	= Total Cover		Percent of Dominant Species
				That Are OBL, FACW, or FAC: 80% (A/B)
ling/Shrub Stratum (Plot Size: 15 f	• ===== \			Prevalence Index Worksheet:
Prunus virginiana	<u>t. radius</u> ) 25%	Yes	FAC	Total % Cover of: Multiply by:
Viburnum opulus	25%	Yes	UPL	
Rhamnus cathartica	5%	No	FACU	OBL species
			1 400	
				FAC species
	55%	= Total Cover		UPL species x 5 =
	0070	- 10101 00101		Column Totals: (A) (B)
rb Stratum (Plot Size: 5 ft. radius  Aster lateriflorus  Alliaria petiolata  Geum canadense  Solidago gigantea	10% 20% 30% 5%	No Yes Yes No	FACW FAC FAC FACW	Prevalence Index = B/A =  Hydrophytic Vegetation Indicators:  X Dominance Test is >50% Prevalence Index is ≤ 3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
	65%	= Total Cover		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
ody Vine Stratum (Plot Size: N/A N/A	)			Hydrophytic Vegetation
	0%	= Total Cover		Present?

SOIL	Sampling Point:	W7-1 T-1 R/w
OIL	Sampling Folia.	W/-I I-I D(W)

0-10 10YR 3/1 10-21 10YR 4/1  Type: C=Concentration, D=Depletic  Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)	r (moist) % 100 100 100 100 100 100 100 100 100 10	10YR 4/6	% 10% 10% 10%	Type' C	Loc <sup>2</sup>	Texture		lemarks	
10-21 10YR 4/1  Type: C=Concentration, D=Depletic  Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)		10YR 4/6	10%	·					
Type: C=Concentration, D=Depletion  Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)		_		С	M	Silty clay loam	-		
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)	on, RM=Reduced Matrix,	10YH 4/4				Clay loam			
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)	on, RM=Reduced Matrix,		10 /0	С	M				
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)	on, RM=Reduced Matrix,								
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)	on, RM=Reduced Matrix,								
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)	on, RM=Reduced Matrix,								
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)	on, ruvi–ricadoca ivia	CS-Covered or Coa	ted Sand Gra	ine		<sup>2</sup> Location: PL=Pore Linin	a M-Matrix		
Histosol (A1) Histic Epipedon (A2)		00-0010100 01 000	ica cana are		Indiaa	tors for Problematic Hydi	_		
Histic Epipedon (A2)		Sandy Gleyed Mat	trix (S4)		indica	itors for Problematic Hydi	ric Solls :		
		Sandy Redox (S5)				Coast Prairie Redox (A16	5)		
Black Histic (A3)		Stripped Matrix (S				Iron-Manganese Masses			
Hydrogen Sulfide (A4)	_	Loamy Mucky Min	eral (F1)			Other (Explain in Remark	s)		
Stratified Layers (A5)		Loamy Gleyed Ma	, ,						
2 cm Muck (A10)	<del></del>	Depleted Matrix (F			3				
Depleted Below Dark Surface (A	A11) <u>X</u>					ators of hydrophytic vegetal			
X Thick Dark Surface (A12) Sandy Mucky Mineral (S1)		Depleted Dark Sur Redox Depression	. ,			drology must be present, un problematic.	ness disturbed		
5 cm Mucky Peat or Peat (S3)		redux Depression	is (i 0)		OI Å	orobiemano.			
Restrictive Layer (if observed):  Type: N/A									
Depth (inches): N/A						Hydric Soil Present?	Yes X	No	
Deptil (inches).						Try unio Com Frederic.	163 <u>X</u>	110	
HYDROLOGY									
Wetland Hydrology Indicators:									
	in warning of a place to all the st	ample)				Casandani India	Acre (minimum of hus	a waay iiwa dh	
	is required; check all that		(DO)				ators (minimum of two		
Surface Water (A1)	is required; check all that	Water-Stained Lea	, ,			Sı	urface Soil Cracks (B6	6)	
High Water Table (A2)	is required; check all that	Water-Stained Lea Aquatic Fauna (B1	3)			Su	urface Soil Cracks (Be rainage Patterns (B10	6) 0)	
	is required; check all that	Water-Stained Lea	3) ts (B14)			SL 	urface Soil Cracks (B6	6) 0)	
High Water Table (A2) Saturation (A3)	is required; check all that	Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant	3) ts (B14) Odor (C1)	ng Roots (C	3)	X Dr Dr Cr	urface Soil Cracks (Be rainage Patterns (B10 ry-Season Water Tabl	6) 0) le (C2)	
High Water Table (A2) Saturation (A3)  X Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	is required; check all that	Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant Hydrogen Sulfide of Oxidized Rhizosph Presence of Reduce	3) ds (B14) Odor (C1) neres on Livin ced Iron (C4)		3)	St St	urface Soil Cracks (B6 rainage Patterns (B10 ry-Season Water Tabl rayfish Burrows (C8) aturation Visible on Ae unted or Stressed Pla	6) 0) le (C2) erial Imagery (C9) ants (D1)	
High Water Table (A2) Saturation (A3)  X Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	is required; check all that	Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant Hydrogen Sulfide of Oxidized Rhizosph Presence of Redur Recent Iron Reduc	3) Is (B14) Odor (C1) Incres on Livin Ced Iron (C4) Stion in Tilled		3)	St St Ga	urface Soil Cracks (Be rainage Patterns (B10 ry-Season Water Tabl rayfish Burrows (C8) aturation Visible on Ae unted or Stressed Pla eomorphic Position (E	6) 0) le (C2) erial Imagery (C9) ants (D1)	
High Water Table (A2) Saturation (A3)  X Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)		Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant Hydrogen Sulfide of Oxidized Rhizosph Presence of Redu Recent Iron Reduc Thin Muck Surface	3) Is (B14) Odor (C1) Incres on Livin Ced Iron (C4) Stion in Tilled E (C7)		3)	St St Ga	urface Soil Cracks (B6 rainage Patterns (B10 ry-Season Water Tabl rayfish Burrows (C8) aturation Visible on Ae unted or Stressed Pla	6) 0) le (C2) erial Imagery (C9) ants (D1)	
High Water Table (A2) Saturation (A3)  X Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima	agery (B7)	Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant Hydrogen Sulfide ( Oxidized Rhizosph Presence of Redu Recent Iron Reduc Thin Muck Surface Gauge or Well Dat	3) Is (B14) Odor (C1) Incres on Livin Ced Iron (C4) Stion in Tilled (C7) Is (D9)		3)	St St Ga	urface Soil Cracks (Be rainage Patterns (B10 ry-Season Water Tabl rayfish Burrows (C8) aturation Visible on Ae unted or Stressed Pla eomorphic Position (E	6) 0) le (C2) erial Imagery (C9) ants (D1)	
High Water Table (A2) Saturation (A3)  X Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave S	agery (B7)	Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant Hydrogen Sulfide of Oxidized Rhizosph Presence of Redu Recent Iron Reduc Thin Muck Surface	3) Is (B14) Odor (C1) Incres on Livin Ced Iron (C4) Stion in Tilled (C7) Is (D9)		3)	St St Ga	urface Soil Cracks (Be rainage Patterns (B10 ry-Season Water Tabl rayfish Burrows (C8) aturation Visible on Ae unted or Stressed Pla eomorphic Position (E	6) 0) le (C2) erial Imagery (C9) ants (D1)	
High Water Table (A2) Saturation (A3) X Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave S Field Observations:	agery (B7)	Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant Hydrogen Sulfide ( Oxidized Rhizosph Presence of Redu Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in F	3) Is (B14) Odor (C1) Incres on Livin Ced Iron (C4) Stion in Tilled (C7) Is (D9)		3)	St St Ga	urface Soil Cracks (Be rainage Patterns (B10 ry-Season Water Tabl rayfish Burrows (C8) aturation Visible on Ae unted or Stressed Pla eomorphic Position (E	6) 0) le (C2) erial Imagery (C9) ants (D1)	
High Water Table (A2) Saturation (A3) X Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave S Field Observations: Surface Water Present?	agery (B7) urface (B8)  Yes No _X	Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant Hydrogen Sulfide of Oxidized Rhizosph Presence of Redu Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in F	3) Is (B14) Odor (C1) Incres on Livin Ced Iron (C4) Stion in Tilled (C7) Is (D9)		3)	St St Ga	urface Soil Cracks (Be rainage Patterns (B10 ry-Season Water Tabl rayfish Burrows (C8) aturation Visible on Ae unted or Stressed Pla eomorphic Position (E	6) 0) le (C2) erial Imagery (C9) ants (D1)	_
High Water Table (A2) Saturation (A3)  X Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Ima Sparsely Vegetated Concave S  Field Observations:	agery (B7)	Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduct Recent Iron Reduct Thin Muck Surface Gauge or Well Dat Other (Explain in F	3) Is (B14) Odor (C1) Incres on Livin Ced Iron (C4) Stion in Tilled (C7) Is (D9)		3)	St St Ga	urface Soil Cracks (Be rainage Patterns (B10 ry-Season Water Tabi rayfish Burrows (C8) aturation Visible on Ae unted or Stressed Pla eomorphic Position (C AC-Neutral Test (D5)	6) 0) le (C2) erial Imagery (C9) ants (D1)	No

Oak Creek/ IH-94 Mainline Sampling Date: <u>10/14/2009</u> Project/Site: City/County: Milwaukee Sampling Point: W7-6 T-1 A(u) Applicant/Owner: WDOT State: WI Rachel E. Lang / Julie A. Paschal Section, Township, Range: Section 7, T5N R22E Investigator(s): Landform (hillslope, terrace, etc.): Slight hillslope Local relief (concave, convex, none): Convex Slope (%): 0-1% Lat: See Fig. 2 Long: See Fig. 2 Datum: NA Blount silt loam (BIA) WWI Classification: None Soil Map Unit Name: Are climatic / hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks) \*\*X Soil \*\*\*X or Hydrology significantly disturbed? Are "Normal Circumstances" present? Are Vegetation Are Vegetation Soil or Hydrology naturally problematic? (if needed, explain any answers in Remarks) SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes No Х Is the Sampled Area No Wetland Hydrology Present? No within a Wetland? Yes Х \* The WETS Analysis indicates that recent weather conditions have been drier than normal. \*\* Vegetation has been disturbed - this is a mowed lawn plant community. \*\*\* Soils potentially contain fill material as this is a mowed lawn. VEGETATION - Use scientific names for plants Indicator Absolute % Dominant **Dominance Test Worksheet:** Free Stratum (Plot Size: N/A Number of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species Across All Strata: (B) 0% = Total Cover Percent of Dominant Species That Are OBL, FACW, or FAC: 100% \_(A/B) Sapling/Shrub Stratum (Plot Size: Prevalence Index Worksheet: Total % Cover of Multiply by: N/A OBL species FACW species x 2 = FAC species 90% x 3 = 270 20% **FACU** species x 4 = 80 x 5 = Total Cover **UPL** species 350 110% Column Totals: Herb Stratum (Plot Size: 5 ft. radius Prevalence Index = B/A = 3.18 Poa pratensis 90% FAC Taraxacum officinale 10% No Hydrophytic Vegetation Indicators: Trifolium repens X Dominance Test is >50% Prevalence Index is ≤ 3.01 Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on separate sheet) Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 110% = Total Cover Noody Vine Stratum (Plot Size: N/A Hydrophytic 1. N/A Vegetation Present? No X Yes = Total Cover 0% Remarks: (Include photo numbers here or on a separate sheet.) The plant community in this area has been altered. This is a mowed lawn plant community dominated by Poa pratensis, a planted FAC- species. The Dominance Test is met; however, the Prevalence Index and the FAC Neutral Test are not met. Professional judgement indicates this is a non-hydrophytic plant community.

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Color (moist) inches % Texture )-16 10YR 3/2 Silty clay loam 100 None 16-20 10YR 2/2 100 None Clay loam Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Other (Explain in Remarks) Stratified Layers (A5) Loamy Gleyed Matrix (F2) 2 cm Muck (A10) Depleted Matrix (F3)

Sampling Point: W7-6 T-1 A(u)

SOIL

Depleted Below Dark Surface (A11) <sup>3</sup> Indicators of hydrophytic vegetation and wetland Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) hydrology must be present, unless disturbed Sandy Mucky Mineral (S1) Redox Depressions (F8) or problematic. 5 cm Mucky Peat or Peat (S3) estrictive Layer (if observed): Type: None **Hydric Soil Present?** Depth (inches): None Yes\_ No X Remarks: Possible fill material and grading occurred in this lawn area. 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) Drainage Patterns (B10) Aquatic Fauna (B13) True Aquatic Plants (B14) Saturation (A3) Dry-Season Water Table (C2) Hydrogen Sulfide Odor (C1) Water Marks (B1) Crayfish Burrows (C8) 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) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Thin Muck Surface (C7) FAC-Neutral Test (D5) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) ield Observations: Surface Water Present? Yes Depth (inches) Water Table Present? Yes No X Depth (inches) Wetland Hydrology Present? Saturation Present? No\_X Depth (inches): No X Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: This sample point is located upslope from the adjacent wetland. No wetland hydrology indicators observed.

W7-6 T-1 A(u)

Oak Creek/ IH-94 Mainline Sampling Date: 10/14/2009 Project/Site: City/County: Milwaukee Applicant/Owner: Sampling Point: W7-6 T-1 B(w) WDOT State: WI Rachel E. Lang / Julie A. Paschal Section, Township, Range: Section 7, T5N R22E Investigator(s): Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): None Slope (%): 0-1% Datum: NA Lat: See Fig. 2 Long: See Fig. 2 Ashkum silty clay loam (AsA) WWI Classification: T3/E2K Soil Map Unit Name: Are climatic / hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks) \_significantly disturbed? or Hydrology Are "Normal Circumstances" present? Are Vegetation Soil Yes X No Are Vegetation Soil or Hydrology \*\*X naturally problematic? (if needed, explain any answers in Remarks) SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Х No Is the Sampled Area Yes X No \_\_\_ Wetland Hydrology Present? Х within a Wetland? Yes No \* The WETS Analysis indicates that recent weather conditions have been drier than normal. \*\* This wetland experiences seasonal hydrology. This is a wet meadow wetland with an adjacent shallow marsh. VEGETATION - Use scientific names for plants Absolute % Indicator **Dominance Test Worksheet:** Free Stratum (Plot Size: 30 ft. radius ) Number of Dominant Species Salix alba No FACW That Are OBL, FACW, or FAC: (A) 2. Populus deltoides 10% Yes FAC 3. Fraxinus pennsylvanica 20% Yes Total Number of Dominant FACW Species Across All Strata: (B) 35% = Total Cover Percent of Dominant Species 100% (A/B) That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot Size: Prevalence Index Worksheet: 15 ft. radius ) Rhamnus frangula Total % Cover of: Multiply by: OBL species FACW species x 2 = FAC species x 3 = **FACU** species x 4 = 5% = Total Cover **UPL** species x 5 = Column Totals: (A) Herb Stratum (Plot Size: 5 ft. radius Prevalence Index = B/A = Typha angustifolia 30% OBL Aster novae-angliae 10% No FACW Hydrophytic Vegetation Indicators: 3. Cirsium arvense 5% No FACU X Dominance Test is >50% Prevalence Index is ≤ 3.01 Solidago gigantea 50% Yes **FACW** Morphological Adaptations<sup>1</sup> (Provide supporting Geum canadense No FAC 6. Phalaris arundinacea FACW data in Remarks or on separate sheet) Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 140% = Total Cover Woody Vine Stratum (Plot Size: N/A Hydrophytic 1. N/A Vegetation Yes X Present? No = Total Cover 0% Remarks: (Include photo numbers here or on a separate sheet.) This is a wet meadow plant community located near the edge of the adjacent shallow marsh.

SOIL Sampling Point: W7-6 T-1 B(w)

Fype: C=Concentration, D=Delegate Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surfac Thick Dark Surface (A12) Sandy Mucky Mineral (S1) 5 cm Mucky Peat or Peat (5	2/1 100	S=Covered or Coat Sandy Gleyed Matt Sandy Redox (S5) Stripped Matrix (S6)		Type¹ C C	M M	Texture Silty clay loam Silty clay loam  2 Location: PL=Pore Lining	Small limestone peb		ent	
Fype: C=Concentration, D=Dey  ydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surfac Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	2/1 100	S=Covered or Coat Sandy Gleyed Matt Sandy Redox (S5) Stripped Matrix (S6)	20% ed Sand Gra	С	M	Silty clay loam  2 Location: PL=Pore Lining		bles pres	ent	
ydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surfac Thick Dark Surface (A12) Sandy Mucky Mineral (S1)		Sandy Gleyed Mati Sandy Redox (S5) Stripped Matrix (S6		ins.	Indica		g, M=Matrix			_ _ _
ydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surfac Thick Dark Surface (A12) Sandy Mucky Mineral (S1)		Sandy Gleyed Mati Sandy Redox (S5) Stripped Matrix (S6		ins.	Indica		g, M=Matrix			_
ydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surfac Thick Dark Surface (A12) Sandy Mucky Mineral (S1)		Sandy Gleyed Mati Sandy Redox (S5) Stripped Matrix (S6		ins.	Indica		g, M=Matrix			
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surfa Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	ce (A11) X	Sandy Redox (S5) Stripped Matrix (S6	rix (S4)		Indicat					
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surfa Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	ce (A11) X	Sandy Redox (S5) Stripped Matrix (S6	rix (S4)			tors for Problematic Hydr	ic Soils <sup>3</sup> :			
Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surfa Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	ce (A11) X	Stripped Matrix (S6				Coast Brairia Baday (A16	<b>\</b>			
Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surfa Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	ce (A11) X		:)			Coast Prairie Redox (A16 Iron-Manganese Masses				
Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surfa Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	ce (A11) X					Other (Explain in Remarks				
Depleted Below Dark Surfa Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	ce (A11) X	Loamy Gleyed Mat					-,			
Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	ce (A11) X	Depleted Matrix (F	. ,							
Sandy Mucky Mineral (S1)		Redox Dark Surface	ce (F6)		3 Indica	ators of hydrophytic vegetat	ion and wetland			
		Depleted Dark Sur	. ,			drology must be present, un	less disturbed			
5 cm Mucky Peat or Peat (9		Redox Depressions	s (F8)		or p	oroblematic.				
estrictive Layer (if observed	•		Т							
Type: N/A	<u> </u>									
Depth (inches): N/A						Hydric Soil Present?	Yes X	No	_	
rimary Indicators (minimum of X Surface Water (A1) High Water Table (A2)		Water-Stained Lea Aquatic Fauna (B1	3)			Su X Dra	tors (minimum of two re rface Soil Cracks (B6) ainage Patterns (B10)			
X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Ξ	True Aquatic Plants Hydrogen Sulfide C Oxidized Rhizosph Presence of Reduc	Odor (C1) eres on Livin	g Roots (C3	)	Cr	y-Season Water Table ( ayfish Burrows (C8) turation Visible on Aeria unted or Stressed Plants	l Imagery	(C9)	
Algal Mat or Crust (B4)		Recent Iron Reduc	. ,	Soils (C6)			comorphic Position (D2)	(D1)		
Iron Deposits (B5)		Thin Muck Surface		000 (00)			.C-Neutral Test (D5)			
Inundation Visible on Aeria	Imagery (B7)	Gauge or Well Data					,			
Sparsely Vegetated Concar	ve Surface (B8)	Other (Explain in R	emarks)							
ield Observations: urface Water Present? /ater Table Present? aturation Present?	Yes X No Yes X No No	Depth (inches):_ Depth (inches):_ Depth (inches):	1.5 0 0			Wetland Hydrology Pres	cont?	Van	v	No
ncludes capillary fringe)	162 X NO	Deptil (illiches).				Welland Hydrology Fres	ent:	Yes	<u> </u>	No_
escribe Recorded Data (strear emarks: This is a depressional	n gauge, monitoring well, aeria				o Oak	Creek.				

Project/Site:

Applicant/Owner:

Soil Map Unit Name:

Investigator(s):

Are Vegetation

Oak Creek/ Sampling Date: 9/23/2009 City/County: Milwaukee IH-94 Mainline Sampling Point: W8-6 T-1 A(u) WDOT State: WI Eric C. Parker / Julie A. Paschal Section, Township, Range: Section 17, T5N R22E Investigator(s).

Landform (hillslope, terrace, etc.):

E 704

Slight nius

See Fig. 2 Slight hillslope Local relief (concave, convex, none): Convex Long: See Fig. 2 Datum: NA Lat: See Fig.
Blount silt loam (BIA) WWI Classification: None

No \*X (if no, explain in Remarks) Are climatic / hydrologic conditions on the site typical for this time of year? Soil \_\_\_\_\_ or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present?

snowing sampli	ng point location	ons, transects, impo	rtant features, etc.	
Yes	No	Х		
Yes	No	Х	Is the Sampled Area Yes No	Х
Yes	No	X	within a Wetland?	
t recent weathe	er conditions	have been drier t	nan normal.	
			Dominance Test Worksheet:	
25%	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: (A)	
			Total Number of Dominant Species Across All Strata:4(B)	
25%	= Total Cover		Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)	
80% 10%	Yes No	FACU FACU	Prevalence Index Worksheet:	
)		FACII	UPL species Column Totals:  162%  (A)  593  (Prevalence Index = B/A = 3.66	В)
20%	Yes	FACU	Hydrophytic Vegetation Indicators:	
5% 2%	No No	FAC FACU	Dominance Test is >50%  Prevalence Index is ≤ 3.0¹  Morphological Adaptations¹ (Provide supporting data in Remarks or on separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)	
47%	= Total Cover		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
)			Hydrophytic Vegetation	
0%	= Total Cover		rieseitt: ies No_X	
	Yes Yes Yes  Yes  Yes  Trecent weather  Absolute %  Cover  25%  25%  25%  20%  20%  5%  20%  47%	Yes	Yes         No         X           Yes         No         X           It recent weather conditions have been drier the recent weather conditions have been drier the recent weather conditions have been drier the recent forms of the rece	Steel

OIL	Sampling Point:	W8-6 T-1 A(u)

Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stripped Matrix (S6)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Serb Mucky Mineral (S1)  Redox Depressions (F8)  Restrictive Layer (if observed):  Type:  N/A  Depth (inches):  MYA  MYDROLOGY  Wetland Hydrology Indicators:  Indicators for Problet  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Loamy Mucky Mineral (F1)  Depleted Matrix (F2)  Depleted Matrix (F2)  Depleted Matrix (F3)  Redox Dark Surface (F6)  3 Indicators of hydrophy hydrology must be problematic.  Type:  N/A  Hydric Soil Problematic.	ePore Lining, M=Matrix matic Hydric Soils³: Redox (A16) se Masses (F12) in Remarks) ytic vegetation and wetland present, unless disturbed
3-6 6-12 10VR 5/2 10VR 5/3 100 10VR 4/3 2% C M Silty clay 12-18 10VR 5/3 100 10VR 4/4 5% C M Silty clay 10VR 5/3 100 10VR 4/4 5% C M Silty clay 10VR 5/3 100 10VR 4/4 5% C M Silty clay 10VR 10VR 10VR 10VR 10VR 10VR 10VR 10VR	ePore Lining, M=Matrix matic Hydric Soils³: Redox (A16) se Masses (F12) in Remarks) ytic vegetation and wetland present, unless disturbed
10YR 5/2 10YR 5/3 100 10YR 4/3 2% C M Silty clay 10YR 5/3 100 10YR 4/4 5% C M Silty clay 10YR 5/3 10YR 4/4 5% C M Silty clay 10YR 5/3 10YR 4/4 5% C M Silty clay 10YR 5/3 10YR 4/4 5% C M Silty clay 10YR 5/3 C M Silty clay 10YR 4/4 5% C M Silty clay 10YR 4/4 10YR 10YR 10X 10YR 10YR 10X 10YR 10YR 10X 10YR 4/4 10YR 10YR 10X 10YR 10X 10YR 10YR 10X 10YR 10YR 10X 10YR 10YR 10X 10YR 10X 10YR 10X 10YR 10X 10YR 10YR 10X 10YR 10X 1	ePore Lining, M=Matrix matic Hydric Soils³: Redox (A16) se Masses (F12) in Remarks) ytic vegetation and wetland present, unless disturbed
12-18 10YR 5/3 100 10YR 4/4 5% C M Silty clay  1Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  2 Location: PL=  Hydric Soil Indicators: Histosol (A1) Sandy Gleyed Matrix (S4) Histic Epipedon (A2) Sandy Redox (S5) Coast Prairie F Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Stratified Layers (A5) Loamy Gleyed Matrix (F2) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Sem Mucky Mineral (S1) Sem Mucky Peat or Peat (S3)  Restrictive Layer (if observed): Type: N/A Depth (inches): N/A Depth (inches): N/A Semarks:  HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)  Secon	matic Hydric Soils <sup>3</sup> :  Redox (A16) se Masses (F12) in Remarks)  ytic vegetation and wetland bresent, unless disturbed
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  PHydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Sandy Redox (S5) Coast Prairie F Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulffide (A4) Loamy Mucky Mineral (F1) Coamy Gleyed Matrix (F2) Coast Prairie F Coast P	matic Hydric Soils <sup>3</sup> :  Redox (A16) se Masses (F12) in Remarks)  ytic vegetation and wetland bresent, unless disturbed
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stripped Matrix (S6)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Redox (S5)  Coast Prairie F  Black Histic (A3)  Hydrogen Sulfide (A4)  Loamy Mucky Mineral (F1)  Depleted Matrix (F2)  Depleted Matrix (F3)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Depleted Dark Surface (F6)  Sandy Mucky Mineral (S1)  Som Mucky Peat or Peat (S3)  Restrictive Layer (if observed):  Type: N/A  Depth (inches): N/A  Hydric Soil Pr  Remarks:  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Secon	matic Hydric Soils <sup>3</sup> :  Redox (A16) se Masses (F12) in Remarks)  ytic vegetation and wetland present, unless disturbed
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stripped Matrix (S6)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Redox (S5)  Coast Prairie F  Black Histic (A3)  Hydrogen Sulfide (A4)  Loamy Mucky Mineral (F1)  Depleted Matrix (F2)  Depleted Matrix (F3)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Depleted Dark Surface (F6)  Sandy Mucky Mineral (S1)  Som Mucky Peat or Peat (S3)  Restrictive Layer (if observed):  Type: N/A  Depth (inches): N/A  Hydric Soil Pr  Remarks:  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Secon	matic Hydric Soils <sup>3</sup> :  Redox (A16) se Masses (F12) in Remarks)  ytic vegetation and wetland bresent, unless disturbed
Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie F Black Histic Epipedon (A2) Sandy Redox (S5) Coast Prairie F Black Histic (A3) Stripped Matrix (S6) Iron-Manganes Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Other (Explain Stratified Layers (A5) Depleted Matrix (F2) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) 3 Indicators of hydrophy Thick Dark Surface (A12) Depleted Dark Surface (F7) hydrology must be j Sandy Mucky Mineral (S1) Redox Depressions (F8) or problematic.  Frype: N/A Depth (inches): N/A Hydric Soil Pr  Remarks:  HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Secon	Redox (A16) se Masses (F12) in Remarks)  ytic vegetation and wetland present, unless disturbed
Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Loamy Mucky Mineral (F1)  Stratified Layers (A5)  2 cm Muck (A10)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Redox (S5)  Loamy Mucky Mineral (F1)  Depleted Matrix (F2)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Som Mucky Mineral (S1)  Som Mucky Peat or Peat (S3)  Restrictive Layer (if observed):  Type: N/A  Depth (inches): N/A  Hydric Soil Pr  Remarks:  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Sandy Mucky Siric (S5)  Stripped Matrix (F2)  Depleted Matrix (F3)  Redox Dark Surface (F6)  3 Indicators of hydrophy hydrology must be portable or problematic.  4 Hydrology must be portable or problematic.  Hydric Soil Pr  Secon	se Masses (F12) in Remarks)  ytic vegetation and wetland  oresent, unless disturbed
Black Histic (A3) Stripped Matrix (S6) Iron-Manganes Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Other (Explain Stratified Layers (A5) Loamy Gleyed Matrix (F2) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) 3 Indicators of hydrophy Thick Dark Surface (A12) Depleted Dark Surface (F7) hydrology must be gorn problematic. 5 cm Mucky Mineral (S1) Redox Depressions (F8) or problematic.  Restrictive Layer (if observed): Type: N/A Depth (inches): N/A  Remarks:  HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Stripped Matrix (S6) Iron-Manganes Iron-Manganes Other (Explain Other (Expla	se Masses (F12) in Remarks)  ytic vegetation and wetland  oresent, unless disturbed
Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10)  Depleted Matrix (F3)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Scm Mucky Peat or Peat (S3)  Restrictive Layer (if observed):  Type: N/A  Depth (inches): N/A  Remarks:  Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Other (Explain  In It is possible to the companies of the companies o	in Remarks)  ytic vegetation and wetland  present, unless disturbed
Stratified Layers (A5) Loamy Gleyed Matrix (F2) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) 3 Indicators of hydrophy Thick Dark Surface (A12) Depleted Dark Surface (F7) hydrology must be por possions (F8) or problematic.  5 cm Mucky Mineral (S1) Redox Depressions (F8) or problematic.  Frimary Indicators (Minimum of one is required; check all that apply)  Secon	ytic vegetation and wetland oresent, unless disturbed
2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) 3 Indicators of hydrophy Thick Dark Surface (A12) Depleted Dark Surface (F7) hydrology must be possible to problematic.  5 cm Mucky Mineral (S1) Redox Depressions (F8) Or problematic.  Friendly Peat or Peat (S3)  Restrictive Layer (if observed): Type: N/A Depth (inches): N/A Hydric Soil Problematics:  HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Secon	oresent, unless disturbed
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Som Mucky Peat or Peat (S3)  Restrictive Layer (if observed): Type: N/A Depth (inches): N/A  Remarks:  HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)  Sendox Dark Surface (F6) Nydrace (F7) Nydrology nust be por problematic.  Redox Depressions (F8)  Redox Dark Surface (F6) Nydrology nust be por problematic.  Primary Indicators (minimum of one is required; check all that apply)  Secon	oresent, unless disturbed
Thick Dark Surface (A12) Depleted Dark Surface (F7) hydrology must be or problematic.  Sandy Mucky Mineral (S1) Redox Depressions (F8) or problematic.  Restrictive Layer (if observed): Type: N/A Depth (inches): N/A Hydric Soil Presentables:  HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Secon	oresent, unless disturbed
Sandy Mucky Mineral (S1) Redox Depressions (F8) or problematic.  5 cm Mucky Peat or Peat (S3)  Restrictive Layer (if observed):	
S cm Mucky Peat or Peat (S3)  Restrictive Layer (if observed): Type: N/A Depth (inches): N/A Hydric Soil Pr  Remarks:  HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Secon	esent? Yes No_X_
Type: N/A  Depth (inches): N/A  Hydric Soil Pr  Remarks:  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Secon	esent? Yes No_X_
Depth (inches): N/A Hydric Soil Pr  Remarks:  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Secon	resent? Yes No <u>X</u>
HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Secon	esent? Yes No_X_
HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Secon	
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Iron Deposits (B5) Sparsely Vegetated Concave Surface (B8)  Aquattic Fauna (B13) True Aquatic Plants (B14) Dvitide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks)	dary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) FAC-Neutral Test (D5)
Field Observations:           Surface Water Present?         Yes         No         X         Depth (inches):         Water Table Present?         Yes         No         X         Depth (inches):         Wetland Hydr           Saturation Present? (includes capillary fringe)         Yes         No         X         Depth (inches):         Wetland Hydr	ology Present? Yes No_X

WETLAND DETERMINATION DATA FORM - Midwest Region Oak Creek/ Sampling Date: 9/23/2009 Project/Site: IH-94 Mainline City/County: Milwaukee Sampling Point: W8-6 T-1 B(w) Applicant/Owner: WDOT State: WI Investigator(s): Eric C. Parker / Julie A. Paschal Section, Township, Range: Section 17, T5N R22E Terrace Local relief (concave, convex, none): Landform (hillslope, terrace, etc.): None Slope (%): 0-1% Lat: See Fig. 2 Long: See Fig. 2 Datum: NA Soil Map Unit Name: Blount silt loam (BIA) WWI Classification: T3/E2K No \*X (if no, explain in Remarks) Are climatic / hydrologic conditions on the site typical for this time of year? Soil \_\_\_\_\_ or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Are Vegetation Yes X Are Vegetation Soil \_\_\_\_\_ or Hydrology naturally problematic? (if needed, explain any answers in Remarks) SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No Is the Sampled Area Yes X No Wetland Hydrology Present? Х No within a Wetland? \* The WETS Analysis indicates that recent weather conditions have been drier than normal. This is a shallow marsh dominated by Typha spp. VEGETATION - Use scientific names for plants. Absolute % Indicator

Tree Stratum (Plot Size: N/A	) Cover	Species	Status	Dominance rest worksheet.	
	,	. Wiel les	. Maurs	Number of Dominant Species	
1. <b>N/A</b>				That Are OBL, FACW, or FAC:	(A)
2					
3				Total Number of Dominant	
4. 5.				Species Across All Strata:	(B)
5		= Total Cover		Percent of Dominant Species	
		- 10101 00401		That Are OBL, FACW, or FAC:	<b>67%</b> (A/B)
				That Are OBE, I AOW, OF I AO.	(P(B)
Sapling/Shrub Stratum (Plot Size:	15 ft. radius )			Prevalence Index Worksheet:	
1. Zanthoxylem americanum	5%	Yes	FACU	Total % Cover of:	Multiply by:
2.				OBL species	x 1 =
3.				FACW species	x 2 =
4.				FAC species	x 3 =
5.				FACU species	x 4 =
	5%	= Total Cover		UPL species	x 5 =
		_			(A) (B)
Herb Stratum (Plot Size: 5 ft.	radius )			Prevalence Index = $B/A =$	
1. Typha angustifolia	75%	Yes	OBL		·
2. Solidago gigantea	25%	No	FACW	Hydrophytic Vegetation Indicators	:
3. Aster novae-angliae	20%	No	FACW	X Dominance Test is >50%	
4. Epilobium coloratum	5%	No	OBL	Prevalence Index is ≤ 3.0 <sup>1</sup>	
5. Cirsium arvense	5%	No	FACU	Morphological Adaptations <sup>1</sup>	(Provide supporting
6.				data in Remarks or on sep	arate sheet)
7.				Problematic Hydrophytic Ve	getation <sup>1</sup> (Explain)
8.					
9				1 Indicators of hydric soil and wetlan	d hydrology must
10.				be present, unless disturbed or pro	blematic.
	130%	= Total Cover			
	· <u> </u>	_			
Woody Vine Stratum (Plot Size:	15 ft. radius )			Hydrophytic	
1. Vitis riparia	15%	Yes	FACW	Vegetation	
2				Present? Yes_	No
	15%	= Total Cover			
	1070	-			

W8-6 T-1 B(w)

SOIL Sampling Point: W8-6 T-1 B(w) Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features inches Type )-18 10YR 3/1 5YR 5/8 M/PL Silt loam 100 Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix Hydric Soil Indicators: Indicators for Problematic Hydric Soils<sup>3</sup>: Sandy Gleyed Matrix (S4) Histosol (A1) Histic Epipedon (A2) Coast Prairie Redox (A16) Sandy Redox (S5) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Other (Explain in Remarks) Stratified Layers (A5) Loamy Gleyed Matrix (F2) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) <sup>3</sup> Indicators of hydrophytic vegetation and wetland Thick Dark Surface (A12) Depleted Dark Surface (F7) hydrology must be present, unless disturbed Redox Depressions (F8) Sandy Mucky Mineral (S1) or problematic. 5 cm Mucky Peat or Peat (S3) estrictive Layer (if observed): Type: N/A N/A **Hydric Soil Present?** Depth (inches): Yes X No\_ Remarks: 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) Drainage Patterns (B10) Aquatic Fauna (B13) True Aquatic Plants (B14) Dry-Season Water Table (C2) Saturation (A3) Hydrogen Sulfide Odor (C1) Water Marks (B1) Crayfish Burrows (C8) 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) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Thin Muck Surface (C7) FAC-Neutral Test (D5) Iron Deposits (B5) Gauge or Well Data (D9) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) ield Observations: Surface Water Present? Yes Depth (inches) Water Table Present? Yes No X Depth (inches)

Saturation Present?

Remarks:

Yes

No\_X

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

Depth (inches):

W8-6 T-1 B(w)		

Wetland Hydrology Present?

Yes X

No

Oak Creek/ City/County: Milwaukee IH-94 Mainline Sampling Date: 9/23/2009 Project/Site: Applicant/Owner: WDOT State: WI Sampling Point: W8-7 T-1 A(u) Investigator(s): Eric C. Parker / Julie A. Paschal Section, Township, Range: Section 17, T5N R22E Landform (hillslope, terrace, etc.): Slight hillslope Local relief (concave, convex, none): Convex Datum: NA Slope (%): 3-5% Lat: See Fig. 2 Long: See Fig. 2 Soil Map Unit Name: Blount silt loam (BIA) WWI Classification: None Are climatic / hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks) Are Vegetation or Hydrology significantly disturbed? Soil Are "Normal Circumstances" present? No Are Vegetation Soil or Hydrology naturally problematic? (if needed, explain any answers in Remarks) SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes No Х Is the Sampled Area No\_\_\_ Wetland Hydrology Present? No Х within a Wetland? Yes \* The WETS Analysis indicates that recent weather conditions have been drier than normal. \*\*This field is currently under construction. However the immediate area surrounding this sample point has not yet been altered. VEGETATION - Use scientific names for plants Absolute % Indicator **Dominance Test Worksheet:** Free Stratum (Plot Size: N/A Number of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species Across All Strata: (B) 0% = Total Cover Percent of Dominant Species That Are OBL, FACW, or FAC: \_(A/B) Sapling/Shrub Stratum (Plot Size: Prevalence Index Worksheet: 1. N/A Total % Cover of: Multiply by: OBL species FACW species x 2 = FAC species x 3 = **FACU** species x 4 = 0% = Total Cover **UPL** species x 5 = Column Totals: (A) Herb Stratum (Plot Size: 5 ft. radius Prevalence Index = B/A = Solidago canadensis 50% FACU Cirsium arvense 10% No FACU Hydrophytic Vegetation Indicators: 3. Geum canadense 5% No FAC Dominance Test is >50% Prevalence Index is ≤ 3.01 Daucus carota 5% No UPL Morphological Adaptations<sup>1</sup> (Provide supporting Aster novae-angliae 20% No FACW 6. Aster pilosus FACU data in Remarks or on separate sheet) Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) 1 Indicators of hydric soil and wetland hydrology must 10 be present, unless disturbed or problematic. 130% = Total Cover Woody Vine Stratum (Plot Size: N/A Hydrophytic 1. N/A Vegetation No X Present? Yes = Total Cover Remarks: (Include photo numbers here or on a separate sheet.) This is an upland, old field plant community.

SOIL Sampling Point: W8-7 T-1 A(u) Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Color (moist) inches % 1-10 10YR 3/2 None Silt loam 100 10-18 10YR 3/1 100 None Silty clay loam Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix Hydric Soil Indicators: Indicators for Problematic Hydric Soils<sup>3</sup>: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Other (Explain in Remarks) Stratified Layers (A5) Loamy Gleyed Matrix (F2) 2 cm Muck (A10) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) <sup>3</sup> Indicators of hydrophytic vegetation and wetland Thick Dark Surface (A12) Depleted Dark Surface (F7) hydrology must be present, unless disturbed Sandy Mucky Mineral (S1) Redox Depressions (F8) or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: N/A N/A **Hydric Soil Present?** Depth (inches): Yes\_ No X Remarks: 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) Drainage Patterns (B10) Aquatic Fauna (B13) True Aquatic Plants (B14) Saturation (A3) Dry-Season Water Table (C2) Hydrogen Sulfide Odor (C1) Water Marks (B1) Crayfish Burrows (C8) 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) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Thin Muck Surface (C7) FAC-Neutral Test (D5) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) ield Observations: Surface Water Present? Yes Depth (inches) Water Table Present? Yes No X Depth (inches)

W8-7 T-1 A(u)

Wetland Hydrology Present?

No X

Saturation Present?

No\_X

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

No wetland hydrology indicators observed.

Depth (inches):

Oak Creek/ City/County: Milwaukee IH-94 Mainline Sampling Date: 9/23/2009 Project/Site: Applicant/Owner: WDOT State: WI Sampling Point: W8-7 T-1 B(w) Eric C. Parker / Julie A. Paschal Section, Township, Range: Section 17, T5N R22E Investigator(s): Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): Concave Slope (%): 0-1% Lat: See Fig. 2 Long: See Fig. 2 Datum: NA Soil Map Unit Name: Ashkum silty clay loam (AsA) WWI Classification: E2Ka Are climatic / hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks) Soil or Hydrology \*\*X significantly disturbed? Are "Normal Circumstances" present? No <u>\*\*\*</u>X Are Vegetation or Hydrology Are Vegetation Soil naturally problematic? (if needed, explain any answers in Remarks) SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc. Yes X Hydrophytic Vegetation Present? Hydric Soil Present? Χ No Is the Sampled Area Wetland Hydrology Present? Х Yes No within a Wetland? \* The WETS Analysis indicates that recent weather conditions have been drier than normal. \*\* Hydrology is disturbed in the vicinity of this sample point due to disturbance from current construction. Portions of this wetland exhibit disturbed vegetation, soils, and hydrology due to construction. \*\*\* Normal circumstances are not present - this field is currently under construction. This is a wet meadow wetland. VEGETATION - Use scientific names for plants. Indicator Absolute % Dominant **Dominance Test Worksheet:** ree Stratum (Plot Size: N/A Number of Dominant Species N/A That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B) Sapling/Shrub Stratum (Plot Size: N/A ) Prevalence Index Worksheet: 1. N/A Total % Cover of: Multiply by: OBL species FACW species FAC species x 3 = FACU species UPL species x 5 = Column Totals: (A) Herb Stratum (Plot Size: 5 ft. radius Prevalence Index = B/A = 1. Phalaris arundinacea Hydrophytic Vegetation Indicators: Solidago canadensis \_ Dominance Test is >50% Prevalence Index is ≤ 3.01 Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on separate sheet) Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 105% = Total Cover Woody Vine Stratum (Plot Size: N/A Hydrophytic 1. N/A Vegetation Present? No\_ = Total Cover Remarks: (Include photo numbers here or on a separate sheet.) This is a Phalaris arundinacea dominated wet meadow.

SOIL Sampling Point: W8-7 T-1 B(w)

Profile Description: (D	escribe to the depth need	led to docur	ment the indicator	or confirm	the absence	of indic	cators.)			
Depth	Matrix			Redox Feat			_			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rema	arks	
0-14	10YR 3/1	100	None				Silty clay loam			
14-18	10YR 5/3	100	7.5YR 4/6	5%	С	М	Silty clay loam			
			7.5YR 2.5/1	5%	D	М				
	-							-		
<sup>1</sup> Type: C=Concentration	n, D=Depletion, RM=Reduce	ed Matrix, CS	S=Covered or Coate	d Sand Gra	ins.		<sup>2</sup> Location: PL=Pore Lining	g, M=Matrix		
Hydric Soil Indicators:						Indica	tors for Problematic Hydi	ric Soils <sup>3</sup> :		
Histosol (A1)		9	Sandy Gleyed Matri	x (S4)						
Histic Epipedon (A2	2)		Sandy Redox (S5)				Coast Prairie Redox (A16	i)		
Black Histic (A3)			Stripped Matrix (S6)				_Iron-Manganese Masses	• •		
Hydrogen Sulfide (A			Loamy Mucky Miner				Other (Explain in Remark	s)		
Stratified Layers (A	5)		Loamy Gleyed Matr							
2 cm Muck (A10) Depleted Below Da	rk Surface (A11)		Depleted Matrix (F3 Redox Dark Surfac			3 Indios	ators of hydrophytic vegetal	tion and wotland		
X Thick Dark Surface	, ,		Depleted Dark Surfa				rology must be present, un			
Sandy Mucky Miner	, ,		Redox Depressions			-	problematic.	icos distarboa		
5 cm Mucky Peat o				()		o. p.				
Restrictive Layer (if ob					1					
Type: N/A										
Depth (inches):	N/A						Hydric Soil Present?	Yes X	No	
Remarks:										
LIVER OF COV										
HYDROLOGY										
Wetland Hydrology Inc	dicators: mum of one is required; che	ok all that an	noly)				Socondary Indica	tors (minimum of two red	ruirod)	
Surface Water (A1)			Water-Stained Leav	(DO)			•	urface Soil Cracks (B6)	(uireu)	
High Water Table (A			Aquatic Fauna (B13	. ,				ainage Patterns (B10)		
Saturation (A3)	/		True Aquatic Plants					y-Season Water Table (	C2)	
Water Marks (B1)			Hydrogen Sulfide O	. ,				ayfish Burrows (C8)	,	
Sediment Deposits	(B2)	(	Oxidized Rhizosphe	res on Livin	g Roots (C3)		Sa	aturation Visible on Aeria	I Imagery (C9)	
Drift Deposits (B3)			Presence of Reduce	. ,				unted or Stressed Plants	(D1)	
Algal Mat or Crust (	(B4)		Recent Iron Reducti		Soils (C6)			eomorphic Position (D2)		
Iron Deposits (B5)	na Aarial Imaganu (DZ)		Thin Muck Surface				<u> </u>	AC-Neutral Test (D5)		
<b>_</b>	on Aerial Imagery (B7) I Concave Surface (B8)		Gauge or Well Data Other (Explain in Re							
Sparsery vegetated	Concave Surface (Bo)		Striet (Explain in The	iliaiks)						
Field Observations:										
Surface Water Present?		No X	Depth (inches):		_					
Water Table Present?	Yes	No X	Depth (inches):		_					
Saturation Present? (includes capillary fringe	Yes	No <u>X</u>	Depth (inches):		_		Wetland Hydrology Pres	sent?	Yes X	No
Describe Recorded Data	a (stream gauge, monitoring	ı well, aerial <b>ı</b>	photos, previous ins	spections), if	available:					
Remarks:										
I										

Oak Creek/

City/County: Milwaukee IH-94 Mainline Sampling Date: <u>9/17/2009</u> Project/Site: Applicant/Owner: Sampling Point: W8-8 T-1 A(u) WDOT State: WI Marcus S. Anderson Section, Township, Range: Section 18, T5N R22E Investigator(s): Hillslope Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): Convex Datum: NA Slope (%): 5-10% Lat: See Fig. 2 Long: See Fig. 2 Soil Map Unit Name: Blount silt loam (BIA) WWI Classification: None Are climatic / hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks) Soil \_ Are Vegetation significantly disturbed? Are "Normal Circumstances" present? or Hydrology Are Vegetation Soil or Hydrology naturally problematic? (if needed, explain any answers in Remarks) SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes No Is the Sampled Area Wetland Hydrology Present? No Х within a Wetland? Yes \* Vegetation is naturally problematic due to a dominance of Poa pratensis, a FAC- species commonly found in planted, mowed lawns as is the case here. VEGETATION - Use scientific names for plants Indicator Absolute % **Dominance Test Worksheet:** Free Stratum (Plot Size: N/A Number of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species Across All Strata: (B) 0% = Total Cover Percent of Dominant Species That Are OBL, FACW, or FAC: 50% (A/B) Sapling/Shrub Stratum (Plot Size: Prevalence Index Worksheet: 1. N/A Total % Cover of: Multiply by: OBL species FACW species x 2 = FAC species 65% x 3 = 195 **FACU** species 60% 240 x 4 = = Total Cover **UPL** species x 5 : 435 125% Column Totals: Herb Stratum (Plot Size: 5 ft. radius Prevalence Index = B/A = 3.48 Poa pratensis 60% FAC Taraxacum officinale 40% FACU Hydrophytic Vegetation Indicators: 3. Plantago major FAC Dominance Test is >50% Phleum pratense Prevalence Index is ≤ 3.01 20% FACU Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on separate sheet) Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 125% = Total Cover Woody Vine Stratum (Plot Size: N/A Hydrophytic 1. N/A Vegetation Present? No X = Total Cover 0% Remarks: (Include photo numbers here or on a separate sheet.) Vegetation is problematic due to a dominance of Poa pratensis, a FAC- species. However the Dominance Test, Prevalence Index, and FAC Neutral Test are not met which confirms that this is an upland plant community.

SOIL Sampling Point: W8-8 T-1 A(u) Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Color (moist) inches % Silt loam 10YR 3/3 None -9 100 -18 10YR 3/2 100 None Silt loam Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix Hydric Soil Indicators: Indicators for Problematic Hydric Soils<sup>3</sup>: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Other (Explain in Remarks) Stratified Layers (A5) Loamy Gleyed Matrix (F2) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) <sup>3</sup> Indicators of hydrophytic vegetation and wetland Thick Dark Surface (A12) Depleted Dark Surface (F7) hydrology must be present, unless disturbed Sandy Mucky Mineral (S1) Redox Depressions (F8) or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: N/A N/A **Hydric Soil Present?** Depth (inches): Yes\_ No X Remarks: 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) Drainage Patterns (B10) Aquatic Fauna (B13) True Aquatic Plants (B14) Saturation (A3) Dry-Season Water Table (C2) Hydrogen Sulfide Odor (C1) Water Marks (B1) Crayfish Burrows (C8) 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) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Thin Muck Surface (C7) FAC-Neutral Test (D5) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) ield Observations: Surface Water Present? Yes Depth (inches) Water Table Present? Yes No X Depth (inches)

Saturation Present?

No\_X

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

No wetland hydrology indicators observed.

Depth (inches):

W8-8 T-1 A(u)

Wetland Hydrology Present?

No X

Oak Creek/

State   Marcal School   Marc	Project/Site:	IH-94 Mainline				City/County: Milwaukee Sampling Date: 9/17/2009
London   Continue   Long   September   Long   Lo	Applicant/Owner:	WDOT				State: WI Sampling Point: W8-8 T-1 B(w)
Sope (%)   0-2%	Investigator(s):	Marcus S. Anderso	on			Section, Township, Range: Section 18, T5N R22E
Sol Map Uni Name: Blouts itt I coam (BIA)	Landform (hillslope, te		_			
Are climate? Inydrologic conditions on the site byteal for this time of year?  Are Vegetation Soli or Hydrology anisonating disturbed?  Are Vegetation Soli or Hydrology anisonating disturbed?  Are Nomatic Craumstances present? Yes X No Withdrology anisonating disturbed?  Are Nomatic Craumstances present? Yes X No Withdrology Present?  Yes X No Withdrology Present? Yes X No Withdrology Present?  Are Nomatic Craumstances present? Yes X No Withdrology Present?  Yes X No Within a Westand?  Are Nomatic Craumstances present?  Yes X No Within a Westand?  Are Nomatic Craumstances present?  Yes X No Within a Westand?  Are Nomatic Craumstances present?  Yes X No Within a Westand?  Are Nomatic Craumstances present?  Yes X No Within a Westand?  Are Nomatic Craumstances present?  Yes X No Within a Westand?  Are Nomatic Craumstances present in Remarks;  Submit Are Not Nomatic Craumstances present?  Yes X No Within a Westand?  Are Nomatic Craumstances present?  Yes X No Within a Westand?  Are Nomatic Craumstances present?  Yes X No Within a Westand?  Are Nomatic Craumstances present in Remarks;  Submit Are Nomatic Craumstances present?  Yes X No Within a Westand?  Are Nomatic Craumstances present?  Yes X No Westand Present?  Yes X No Within a Westand?  Are Nomatic Craumstances present?  Are Nomatic Craumstances present?  Yes X No Westand	Slope (%): 0-2%				Long: See	
Are Vagedation	•					
SulMMARY OF FINDINGS Attach site map showing sampling point locations, transects, important features, etc.	-					
SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.  Hydrocypic Vegetation Present?  Yes X No Is the Sampled Area Yes X No Welland?  Flore Stratum (Pior Size: 30 ft. radius ) Absolute % Yes FAC Total Cover Prevalence index Worksheet:  1. Salit Angellis Across All Stratus (Pior Size: NIA ) Prevalence index Worksheet:  1. MA	•					·
Hydrochylin Vegetation Present?	Are Vegetation	Soil	or Hydrology	natural	ly problematic?	(if needed, explain any answers in Remarks)
Substant   Percent   Per	SUMMARY OF FINDI	NGS Attach site ma	p showing samp	ling point locati	ons, transects, in	nportant features, etc.
VEGETATION - Use scientific names for plants.	Hydrophytic Vegetatio	on Present?	Yes X	No		
No.	Hydric Soil Present?					Is the Sampled Area Yes X No
VEGETATION - Use scientific names for plants.   Dominant   Indicator   Status   Plants   Status   Plants   Pl	Wetland Hydrology Pr	resent?	Yes X	No		within a Wetland?
Absolute %   Dominant   Indicator   Status   Number of Dominant   Species   Number of Dominant	nemars.					
Definition   Court	VEGETATION - Use s	scientific names for plan				
1.   Salix tragilis	Tree Stratum (Plot Si	ize: 30 ft. radius				Dominance Test Worksheet:
2   3   4   5   5   40%   = Total Cover	,	,	· ·			· ·
3			40%	Yes	FAC	That Are OBL, FACW, or FAC: 2 (A)
Species Across All Strata:   2   (B)						Total Number of Dominant
That Are OBL, FACW, or FAC:						
That Are OBL, FACW, or FAC:	5.					
1. N/A			40%	= Total Cover		·
1. N/A	Sanling/Shrub Stratun	n (Plot Size: N/A	,			Prevalence Index Worksheet
Sample   Stratum   Plot Size   Sample		ii (Flot Size. IVA	,			
4.	2.					OBL species x 1 =
FACU species	3					
Herb Stratum (Plot Size: 5 ft. radius   Prevalence Index = B/A =	4.					
Herb Stratum (Plot Size: 5 ft. radius )	J		0%	= Total Cover		
1. Phalaris arundinacea 2. Typha angustifolia 3. Solidago canadensis 4. Aster lanceolatus 5% No FACW 5. No FACW 6. Typha angustifolia 10% No FACW 10%						
1. Phalaris arundinacea 2. Typha angustifolia 3. Solidago canadensis 4. Aster lanceolatus 5% No FACU 5.	Hards Otractions (DL 10)	F. 4				D 1 11 24
2. Typha angustifolia 3. Solidago canadensis 4. Aster lanceolatus 5% No FACW  Morphological Adaptations¹ (Provide supporting data in Remarks or on separate sheet) 7. Problematic Hydrophytic Vegetation¹ (Explain) 8. Problematic Hydrophytic Vegetation¹ 10. 105% = Total Cover  Moody Vine Stratum (Plot Size: N/A ) 1. N/A 2. 00% = Total Cover  Hydrophytic Vegetation Indicators: X Dominance Test is >50% Morphological Adaptations¹ (Provide supporting data in Remarks or on separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)  ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Hydrophytic Vegetation  ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Hydrophytic Vegetation Present? Yes X No  Remarks: (Include photo numbers here or on a separate sheet.)			,	Ves	FACW	Prevalence Index = B/A =
4. Aster lanceolatus  5. No FACW  Prevalence Index is ≤ 3.0¹  Morphological Adaptations¹ (Provide supporting data in Remarks or on separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)  ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Woody Vine Stratum (Plot Size: N/A )  1. N/A  2. Hydrophytic  Vegetation  Present? Yes X No  Remarks: (Include photo numbers here or on a separate sheet.)						Hydrophytic Vegetation Indicators:
Morphological Adaptations¹ (Provide supporting data in Remarks or on separate sheet)   Problematic Hydrophytic Vegetation¹ (Explain)						
6		IS	5%	No	FACW	
7						
8	7.					
10	8.					
Moody Vine Stratum   (Plot Size: N/A   )   Hydrophytic   Vegetation   Present?   Yes X   No						
Moody Vine Stratum (Plot Size: N/A )   Hydrophytic   Vegetation   Present?   Yes X   No	10		105%	- Total Cover		be present, unless disturbed or problematic.
1. N/A 2			103 /6	= Total Cover		
2	-	(Plot Size: N/A	)			
0% = Total Cover  Remarks: (Include photo numbers here or on a separate sheet.)						
			0%	= Total Cover		
	, , ,					•

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Color (moist) inches % Silt loam 10YR 3/2 None 100 -18 10YR 3/1 100 10YR 4/6 2% C М Silt loam Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix Hydric Soil Indicators: Indicators for Problematic Hydric Soils<sup>3</sup>: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Other (Explain in Remarks) Stratified Layers (A5) Loamy Gleyed Matrix (F2) 2 cm Muck (A10) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) <sup>3</sup> Indicators of hydrophytic vegetation and wetland Thick Dark Surface (A12) Depleted Dark Surface (F7) hydrology must be present, unless disturbed Sandy Mucky Mineral (S1) Redox Depressions (F8) or problematic. 5 cm Mucky Peat or Peat (S3)

**Hydric Soil Present?** 

Yes X

Sampling Point: W8-8 T-1 B(w)

No\_

SOIL

Restrictive Layer (if observed):
Type: N/A

Depth (inches):

N/A

Remarks: 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) Drainage Patterns (B10) Aquatic Fauna (B13) True Aquatic Plants (B14) Saturation (A3) Dry-Season Water Table (C2) Hydrogen Sulfide Odor (C1) Water Marks (B1) Crayfish Burrows (C8) 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) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Thin Muck Surface (C7) FAC-Neutral Test (D5) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes Depth (inches) Water Table Present? Yes No X Depth (inches) Wetland Hydrology Present? Saturation Present? No\_X Depth (inches): Yes X No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Oak Creek/ Project/Site: IH-94 Mainline City/County: Milwaukee Sampling Date: 9/17/2009 Sampling Point: W9-1 T-1 A(u) Applicant/Owner: WDOT State: WI Investigator(s): Eric C. Parker Section, Township, Range: Section 19, T5N R22E Hillslope Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): Concave Datum: NA Slope (%): 2% Lat: See Fig. 2 Long: See Fig. 2 Soil Map Unit Name: Blount silt loam (BIA) WWI Classification: None Are climatic / hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks) or Hydrology significantly disturbed? Are "Normal Circumstances" present? Are Vegetation Soil Yes X Nο Are Vegetation Soil or Hydrology naturally problematic? (if needed, explain any answers in Remarks) SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes No Х Is the Sampled Area \_\_ No \_\_\_ Wetland Hydrology Present? Yes No within a Wetland? Х Remarks: VEGETATION - Use scientific names for plants Absolute % Indicator **Dominance Test Worksheet:** Free Stratum (Plot Size: N/A Number of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species Across All Strata: (B) 0% = Total Cover Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) Sapling/Shrub Stratum (Plot Size: Prevalence Index Worksheet: 1. N/A Total % Cover of: Multiply by: OBL species FACW species 50 25% x 2 = 5% FAC species x 3 = 15 FACU species 75% x 4 = 300 = Total Cover UPL species x 5 = 365 105% Column Totals: (A) Herb Stratum (Plot Size: 5 ft. radius Prevalence Index = B/A = 3.48 1. Agrostis gigantea 15% **FACW** 2. Solidago canadensis 60% Yes FACU Hydrophytic Vegetation Indicators: 3. Aster novae-angliae 5% FACW Dominance Test is >50% Prevalence Index is ≤ 3.01 Aster pilosus 10% No FACU Morphological Adaptations<sup>1</sup> (Provide supporting No 5. Phalaris arundinacea 5% FACW 6. Geum aleppicum 5% No FAC data in Remarks or on separate sheet) Cirsium arvense 5% No FACU Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 105% = Total Cover Woody Vine Stratum (Plot Size: N/A Hydrophytic ) 1. N/A Vegetation Present? No X Yes = Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

This is an upland, old field plant community.

SOIL Sampling Point: W9-1 T-1 A(u) Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Depth Matrix Color (moist) inches % Texture 10YR 3/2 None Silty clay loam 100 -16 10YR 4/2 100 None Silty clay Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix Hydric Soil Indicators: Indicators for Problematic Hydric Soils<sup>3</sup>: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Other (Explain in Remarks) Stratified Layers (A5) Loamy Gleyed Matrix (F2) 2 cm Muck (A10) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) <sup>3</sup> Indicators of hydrophytic vegetation and wetland Thick Dark Surface (A12) Depleted Dark Surface (F7) hydrology must be present, unless disturbed Sandy Mucky Mineral (S1) Redox Depressions (F8) or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: Silty clay **Hydric Soil Present?** Depth (inches): Yes\_ No X Remarks: 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) Drainage Patterns (B10) Aquatic Fauna (B13) True Aquatic Plants (B14) Saturation (A3) Dry-Season Water Table (C2) Hydrogen Sulfide Odor (C1) Water Marks (B1) Crayfish Burrows (C8) 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) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Thin Muck Surface (C7) FAC-Neutral Test (D5) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Other (Explain in Remarks)

Sparsely Vegetated Concave Surface (B8)

Yes

Yes

No wetland hydrology indicators observed. Conditions are dry.

No X

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

No\_X

Depth (inches)

Depth (inches)

Depth (inches):

ield Observations: Surface Water Present?

Water Table Present?

Saturation Present?

W9-1 T-1 A(u)

Wetland Hydrology Present?

No X

Oak Creek/ Project/Site: IH-94 Mainline City/County: Milwaukee Sampling Date: 9/17/2009 Sampling Point: W9-1 T-1 B(w) Applicant/Owner: WDOT State: WI Investigator(s): Eric C. Parker Section, Township, Range: Section 19, T5N R22E Hillslope Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): Concave Lat: See Fig. 2 Slope (%): 2% Long: See Fig. 2 Datum: NA Soil Map Unit Name: Blount silt loam (BIA) WWI Classification: E2K Are climatic / hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks) Soil \_\_\_\_\_or Hydrology \_\_\_\_\_significantly disturbed? Are "Normal Circumstances" present? Are Vegetation Yes X Nο Soil or Hydrology Are Vegetation naturally problematic? (if needed, explain any answers in Remarks) SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc. Yes X Hydrophytic Vegetation Present? No Hydric Soil Present? Yes X No Is the Sampled Area Yes X No \_\_\_ Yes\_ Wetland Hydrology Present? Х No within a Wetland? Remarks: VEGETATION - Use scientific names for plants Indicator Absolute % **Dominance Test Worksheet:** Free Stratum (Plot Size: N/A Number of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species Across All Strata: (B) 0% = Total Cover Percent of Dominant Species That Are OBL, FACW, or FAC: 50% \_\_(A/B) Sapling/Shrub Stratum (Plot Size: Prevalence Index Worksheet: 1. N/A Total % Cover of: Multiply by: OBL species FACW species 75% 150 x 2 = FAC species x 3 = FACU species 30% 120 x 4 = x 5 -= Total Cover UPL species 270 105% Column Totals: (A) Herb Stratum (Plot Size: 5 ft. radius Prevalence Index = B/A = 2.57 1. Phalaris arundinacea 40% **FACW** Agrostis gigantea 15% No FACW Hydrophytic Vegetation Indicators: 3. Solidago canadensis FACU Dominance Test is >50% Prevalence Index is ≤ 3.01 Euthamia graminifolia 20% No FACW Morphological Adaptations<sup>1</sup> (Provide supporting Aster pilosus FACU data in Remarks or on separate sheet) Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 105% = Total Cover Woody Vine Stratum (Plot Size: N/A Hydrophytic 1. N/A Vegetation Present? Yes X No = Total Cover

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

This is a wet meadow plant community.

SOIL Sampling Point: W9-1 T-1 B(w)

Depth (inches)	Color (moist)	%	Color (moist)	Redox Feat %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Rei	marks	
0-8	10YR 4/2	100	None				Silty clay loam				
3-18	10YR 4/1	100	10YR 4/6	20%	С	М	Silty clay				
		_									
Type: C=Concentration	on, D=Depletion, RM=Reduc	ed Matrix, CS	S=Covered or Coat	ed Sand Gra	ains.		<sup>2</sup> Location: PL=Pore Lining	ng, M=Matrix			
lydric Soil Indicator	s:					Indica	ntors for Problematic Hyd	dric Soils³:			
Histosol (A1)	A O)		Sandy Gleyed Mat	rix (S4)			Casat Brainia Baday /A1	C/			
Histic Epipedon (AB) Black Histic (AB)	A2)		Sandy Redox (S5) Stripped Matrix (S6	3)		-	Coast Prairie Redox (A1 Iron-Manganese Masses				
Hydrogen Sulfide	(A4)		Loamy Mucky Mine				Other (Explain in Remar				
Stratified Layers (			Loamy Gleyed Mat				_ Other (Explain in Hemai	No)			
2 cm Muck (A10)	(110)		Depleted Matrix (F	. ,							
	Dark Surface (A11)		Redox Dark Surfa			3 Indic	ators of hydrophytic vegeta	ation and wet	land		
Thick Dark Surface			Depleted Dark Sur				drology must be present, u				
Sandy Mucky Min	' '		Redox Depression	. ,		-	problematic.				
5 cm Mucky Peat	, ,		<u> </u>				· 				
Restrictive Layer (if o	•										
Depth (inches):	<u>8</u>						Hydric Soil Present?	Yes_	x	No	
Remarks:											
Soils are dry.											
cono are ary.											
HYDROLOGY											
	ndicatore										
Wetland Hydrology I		ook all that ar	only)				Socondany India	vatore (minim	um of two	raquirad)	
Wetland Hydrology In Primary Indicators (mi	nimum of one is required; ch			(70)			Secondary Indic				
Wetland Hydrology In Primary Indicators (min Surface Water (A	nimum of one is required; ch		Water-Stained Lea	. ,			s	Surface Soil C	racks (B6)		
Wetland Hydrology In Primary Indicators (mi Surface Water (A High Water Table	nimum of one is required; ch		Water-Stained Lea Aquatic Fauna (B1	3)			S X	Surface Soil C Orainage Patt	racks (B6) erns (B10)		
Wetland Hydrology In Primary Indicators (mi Surface Water (A High Water Table Saturation (A3)	nimum of one is required; ch 1) : (A2)	<u>=</u>	Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant	3) s (B14)			X C	Surface Soil C Orainage Patto Ory-Season W	racks (B6) erns (B10) /ater Table		
Wetland Hydrology In Primary Indicators (mi Surface Water (A High Water Table Saturation (A3) Water Marks (B1)	nimum of one is required; ch 1) • (A2)		Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant Hydrogen Sulfide (	3) s (B14) Odor (C1)	ng Posts (C	2)	X D X D	Surface Soil C Orainage Patto Ory-Season W Crayfish Burro	racks (B6) erns (B10) /ater Table ws (C8)	(C2)	
Wetland Hydrology In Primary Indicators (mi Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit	nimum of one is required; ch 1) (A2) ts (B2)		Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant Hydrogen Sulfide ( Oxidized Rhizosph	3) s (B14) Odor (C1) eres on Livi		3)	X C	Surface Soil Corainage Patto Orainage Patto Ory-Season Worayfish Burro Saturation Vis	racks (B6) erns (B10) later Table ws (C8) ible on Aer	(C2) ial Imagery (C9	))
Wetland Hydrology In Primary Indicators (mi Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit Drift Deposits (B3	nimum of one is required; ch 1) (A2) ts (B2) 3)		Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc	3) s (B14) Odor (C1) seres on Livit ced Iron (C4)	)	3)	X C	Surface Soil C Drainage Patto Dry-Season W Crayfish Burro Saturation Vis Stunted or Str	racks (B6) erns (B10) /ater Table ws (C8) ible on Aer essed Plan	(C2) ial Imagery (C9 its (D1)	))
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Oak Creek/ City/County: Milwaukee Sampling Date: 9/17/2009 IH-94 Mainline Project/Site: Sampling Point: W9-2 T-1 A(u) Applicant/Owner: WDOT State: WI Investigator(s): Eric C. Parker Section, Township, Range: Section 19, T5N R22E Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): None Slope (%): 4% Long: See Fig. 2 Datum: NA Lat: See Fig. 2 Soil Map Unit Name: Blount silt loam (BIA) WWI Classification: None Are climatic / hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks) or Hydrology significantly disturbed? Are "Normal Circumstances" present? Are Vegetation Soil Yes X Are Vegetation Soil or Hydrology naturally problematic? (if needed, explain any answers in Remarks) SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes No Х Is the Sampled Area No \_\_\_ Wetland Hydrology Present? Yes No Х within a Wetland? Remarks: VEGETATION - Use scientific names for plants Absolute % Indicator **Dominance Test Worksheet:** Free Stratum (Plot Size: N/A Number of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species Across All Strata: (B) 0% = Total Cover Percent of Dominant Species That Are OBL, FACW, or FAC: 25% \_ (A/B) Sapling/Shrub Stratum (Plot Size: 15 ft. radius ) Prevalence Index Worksheet: 1. Juglans nigra Total % Cover of: Multiply by: OBL species FACW species x 2 = 14 FAC species 55% x 3 = 165 FACU species 40% 160 x 4 = = Total Cover UPL species 45% x 5 : 225 Column Totals: 147% (A) 564 Herb Stratum (Plot Size: 5 ft. radius Prevalence Index = B/A = 3.84 1. Solidago canadensis 30% FACU 2. Solidago missouriensis 25% Yes UPL Hydrophytic Vegetation Indicators: 3. Aster ericoides 5% FACU Dominance Test is >50% Prevalence Index is ≤ 3.01 Aster drummondii 10% No UPL Morphological Adaptations<sup>1</sup> (Provide supporting 5. Euthamia graminifolia 5% No FACW 6. Poa pratensis Yes FAC data in Remarks or on separate sheet) Erigeron annuus 10% No Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) FAC Fragaria virginiana 20% Nο FΔC Daucus carota 10% Nο UPL 1 Indicators of hydric soil and wetland hydrology must 10. Aster novae-angliae 2% No FACW be present, unless disturbed or problematic. 142% = Total Cover Woody Vine Stratum (Plot Size: N/A Hydrophytic ) 1. N/A Vegetation Present? No X Yes = Total Cover Remarks: (Include photo numbers here or on a separate sheet.) This is an upland, old field plant community.

SOIL Sampling Point: W9-2 T-1 A(u)

	Color (moist)	%_	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
	10YR 3/2	100	None				Silt loam		
	10YR 5/3	100	10YR 4/4	2%	С	М	Silty clay		
<del></del>									
<del></del> -									
Type: C=Concentration, I	D=Depletion, RM=Reduc	ed Matrix, CS	S=Covered or Coat	ed Sand Grai	ns.		<sup>2</sup> Location: PL=Pore Lining	g, M=Matrix	
Hydric Soil Indicators:						Indica	ators for Problematic Hydr	ric Soils <sup>3</sup> :	
Histosol (A1)			Sandy Gleyed Mate	rix (S4)					
Histic Epipedon (A2)			Sandy Redox (S5)				_ Coast Prairie Redox (A16		
Black Histic (A3)	`		Stripped Matrix (S6	,			Iron-Manganese Masses		
Hydrogen Sulfide (A4			Loamy Mucky Mine				Other (Explain in Remarks	S)	
Stratified Layers (A5)			Loamy Gleyed Mat	. ,					
2 cm Muck (A10) Depleted Below Dark	Curfoco (A11)		Depleted Matrix (F: Redox Dark Surface			3 India	ators of hydrophytic vegetat	ion and watland	
Thick Dark Surface (A			Depleted Dark Surla				drology must be present, un		
Sandy Mucky Mineral	,		Redox Depressions	, ,			problematic.	iess disturbed	
5 cm Mucky Peat or F			ricdox Depression	3 (1 0)		0.	problematio.		
Restrictive Layer (if obse	erved):								
Type: N/A									
Depth (inches):	N/A						Hydric Soil Present?	Yes No_X	
Remarks:									
Soils are dry.									
Jons are dry.									
HYDROLOGY									
Wetland Hydrology Indic	ators:								
Primary Indicators (minimu	um of one is required; ch	eck all that ap	oply)				Secondary Indica	tors (minimum of two required)	
Surface Water (A1)			Water-Stained Lea	ves (B9)			Su	ırface Soil Cracks (B6)	
High Water Table (A2	2)		Aquatic Fauna (B1	3)					
HIGH Water Table (AZ							Dra	ainage Patterns (B10)	
,	,		True Aquatic Plants	,				ainage Patterns (B10) v-Season Water Table (C2)	
Saturation (A3)	,		True Aquatic Plants Hydrogen Sulfide (	s (B14)			Dr	y-Season Water Table (C2)	
Saturation (A3) Water Marks (B1)	,		Hydrogen Sulfide C	s (B14) Odor (C1)	n Roots (C	3)	Dr Gr	y-Season Water Table (C2) ayfish Burrows (C8)	
Saturation (A3) Water Marks (B1) Sediment Deposits (B	,	=	Hydrogen Sulfide ( Oxidized Rhizosph	s (B14) Odor (C1) eres on Living	g Roots (C	3)	Dry Cri Sa	y-Season Water Table (C2) ayfish Burrows (C8) tturation Visible on Aerial Imagery (C9)	
Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3)	32)		Hydrogen Sulfide C Oxidized Rhizosph Presence of Reduc	s (B14) Odor (C1) eres on Living ed Iron (C4)		3)	Dry Cri Sa Sti	y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1)	
Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B4	32)		Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc Recent Iron Reduc	s (B14) Odor (C1) eres on Living ed Iron (C4) tion in Tilled S		3)	Dr Sa St Ge	y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1) comorphic Position (D2)	
Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5)	32) 4)		Hydrogen Sulfide C Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Thin Muck Surface	s (B14) Odor (C1) eres on Living ed Iron (C4) tion in Tilled S (C7)		3)	Dr Sa St Ge	y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1)	
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Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C Field Observations: Surface Water Present? Water Table Present? Saturation Present? includes capillary fringe) Describe Recorded Data (seemarks:	Aerial Imagery (B7) Concave Surface (B8)  Yes Yes Yes Yes Stream gauge, monitoring	No X No X No X	Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in R  Depth (inches): Depth (inches):	s (B14) Odor (C1) eres on Living eed Iron (C4) tion in Tilled S (C7) a (D9) emarks)	Soils (C6)	3)	Dr Cr Sa Stt Ge FA	y-Season Water Table (C2) ayfish Burrows (C8) tturation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1) eomorphic Position (D2) CC-Neutral Test (D5)	

Oak Creek/

City/County: Milwaukee Sampling Date: 9/17/2009 IH-94 Mainline Project/Site: Applicant/Owner: WDOT State: WI Sampling Point: W9-2 T-1 B(w) Eric C. Parker Section, Township, Range: Section 19, T5N R22E Investigator(s): Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): None Lat: See Fig. 2 Slope (%): 2% Datum: NA Long: See Fig. 2 Soil Map Unit Name: Blount silt loam (BIA) WWI Classification: T3/E2K Are climatic / hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks) Are Vegetation or Hydrology significantly disturbed? Are "Normal Circumstances" present? Soil Yes X Are Vegetation Soil or Hydrology naturally problematic? (if needed, explain any answers in Remarks) SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc. Yes X Hydrophytic Vegetation Present? No Hydric Soil Present? Yes X No Is the Sampled Area Yes X No \_\_\_ Wetland Hydrology Present? Yes Χ No within a Wetland? Remarks: VEGETATION - Use scientific names for plants Indicator Absolute % **Dominance Test Worksheet:** Free Stratum (Plot Size: 30 ft. radius Number of Dominant Species 1. Salix amygdaloides FACW That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species Across All Strata: (B) 20% = Total Cover Percent of Dominant Species That Are OBL, FACW, or FAC: 100% \_ (A/B) Sapling/Shrub Stratum (Plot Size: Prevalence Index Worksheet: 15 ft. radius ) 1. Cornus amomum Total % Cover of: Multiply by: OBL species FACW species 234 117% x 2 = FAC species 7% x 3 = 21 FACU species 12% x 4 = 48 = Total Cover UPL species x 5 303 136% Column Totals: (A) Herb Stratum (Plot Size: 5 ft. radius Prevalence Index = B/A = 2.23 1. Phalaris arundinacea 90% **FACW** 2. Cirsium arvense No FACU **Hydrophytic Vegetation Indicators:** 3. Sonchus arvensis FAC X Dominance Test is >50% Prevalence Index is ≤ 3.0<sup>1</sup> 4. Solidago canadensis No 10% **FACU** Morphological Adaptations<sup>1</sup> (Provide supporting Aster firmus **FACW** data in Remarks or on separate sheet) Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 109% = Total Cover Woody Vine Stratum (Plot Size: 15 ft. radius ) Hydrophytic 1. Parthenocissus quinquefolia No FAC Vegetation Yes X Present? No = Total Cover Remarks: (Include photo numbers here or on a separate sheet.) This is a wet meadow/shrub scrub plant community.

SOIL Sampling Point: W9-2 T-1 B(w)

	Describe to the depth need	ed to docume	nt the indicator o	r confirm tl	he absence	of indic	ators.)				
Depth	Matrix			Redox Feat		. 2		_			
(inches) 0-12	Color (moist) 10YR 2/1	100	Color (moist) None	%	Type <sup>1</sup>	Loc²	Texture Silt loam		Remarks		_
12-20	10YR 3/1	100	10YR 4/4	20%	С	М	Silty clay loam	-			
12-20	10 Th 3/1	100	101H 4/4	20%		IVI	Silty Clay Ioalii				_
								-			
			-								_
<sup>1</sup> Type: C=Concentration	n, D=Depletion, RM=Reduce	d Matrix, CS=0	Covered or Coated	Sand Grain	ns.		<sup>2</sup> Location: PL=Pore Linin	g, M=Matrix			
Hydric Soil Indicators:	:					Indica	tors for Problematic Hyd	ric Soils³:			
Histosol (A1)	0)		Sandy Gleyed Mat	rix (S4)			On and Businia Barday (A46				
Histic Epipedon (A: Black Histic (A3)	2)		Sandy Redox (S5) Stripped Matrix (S6	:)			Coast Prairie Redox (A16 Iron-Manganese Masses				
Hydrogen Sulfide (	A4)		oamy Mucky Mine	,			Other (Explain in Remark	, ,			
Stratified Layers (A	,		oamy Gleyed Mat	. ,			(	-,			
2 cm Muck (A10)			Depleted Matrix (F			2					
Depleted Below Da Thick Dark Surface			Redox Dark Surfa Depleted Dark Sur				ators of hydrophytic vegeta rology must be present, un				
Sandy Mucky Mine	, ,		Redox Depression	. ,		-	rology must be present, un problematic.	iess disturbed			
5 cm Mucky Peat of	, ,		todox 2 oprocoion	s (. s)		٥. ١					
Restrictive Layer (if ol	oserved):										
Type: N/A	NI/A						Undria Cail Draggato	V V	NI-		
Depth (inches):	N/A						Hydric Soil Present?	Yes X	No	_	
HYDROLOGY											
Wetland Hydrology Inc											
	imum of one is required; che			(D0)				tors (minimum of tw			
Surface Water (A1) High Water Table (			Vater-Stained Lea Aquatic Fauna (B1					ırface Soil Cracks (B ainage Patterns (B1	,		
Saturation (A3)	,)		True Aquatic Plant	,				y-Season Water Tab	,		
Water Marks (B1)			Hydrogen Sulfide (	Odor (C1)			Cr	ayfish Burrows (C8)			
Sediment Deposits	(B2)		Oxidized Rhizosph			3)		aturation Visible on A		(C9)	
Drift Deposits (B3) Algal Mat or Crust	(P4)		Presence of Reduc Recent Iron Reduc	, ,				unted or Stressed Pl	lants (D1)		
Iron Deposits (B5)	(D4)		Thin Muck Surface		30115 (00)			comorphic Position (	. ,		
	on Aerial Imagery (B7)							eomorphic Position ( AC-Neutral Test (D5)	D2)		
Inundation Visible	on Mondi imagory (D7)		Gauge or Well Dat	a (D9)				eomorphic Position ( AC-Neutral Test (D5)	D2)		
	d Concave Surface (B8)		Gauge or Well Dat Other (Explain in R	` '					D2)		
	• , , ,		•	` '					D2)		
Sparsely Vegetated Field Observations: Surface Water Present?	d Concave Surface (B8)  Yes	No_X_	Other (Explain in R	` '					D2)		
Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present?	d Concave Surface (B8)  Yes Yes	No X No X	Depth (inches):_ Depth (inches):_	` '	·		<u>X</u> F <i>f</i>	AC-Neutral Test (D5)	D2)		
Sparsely Vegetated Field Observations: Surface Water Present?	d Concave Surface (B8)  Pyes Yes Yes Yes	No_X_	Other (Explain in R	` '	· ·			AC-Neutral Test (D5)	D2)	<u>K</u>	No
Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe	d Concave Surface (B8)  Pyes Yes Yes Yes	No X No X No X	Depth (inches):_ Depth (inches):_ Depth (inches):_	emarks)	available:		<u>X</u> F <i>f</i>	AC-Neutral Test (D5)	D2)	<u>K</u>	No
Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe	d Concave Surface (B8)  P Yes Yes Yes Yes	No X No X No X	Depth (inches):_ Depth (inches):_ Depth (inches):_	emarks)	available:		<u>X</u> F <i>f</i>	AC-Neutral Test (D5)	D2)	<u> </u>	No
Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe	d Concave Surface (B8)  P Yes Yes Yes Yes	No X No X No X	Depth (inches):_ Depth (inches):_ Depth (inches):_	emarks)	available:		<u>X</u> F <i>f</i>	AC-Neutral Test (D5)	D2)	<u>K</u>	No
Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringed Describe Recorded Date	d Concave Surface (B8)  P Yes Yes Yes Yes	No X No X No X	Depth (inches):_ Depth (inches):_ Depth (inches):_	emarks)	available:		<u>X</u> F <i>f</i>	AC-Neutral Test (D5)	D2)	<u>K</u>	No
Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Dat	d Concave Surface (B8)  Yes Yes Yes  Yes  Yes  Yes	No X No X No X	Depth (inches):_ Depth (inches):_ Depth (inches):_	emarks)	available:		<u>X</u> F <i>f</i>	AC-Neutral Test (D5)	D2)	<u>K</u> _	No
Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringed Describe Recorded Date	d Concave Surface (B8)  Yes Yes Yes  Yes  Yes  Yes	No X No X No X	Depth (inches):_ Depth (inches):_ Depth (inches):_	emarks)	available:		<u>X</u> F <i>f</i>	AC-Neutral Test (D5)	D2)	<u> </u>	No
Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Dat	d Concave Surface (B8)  Yes Yes Yes  Yes  Yes  Yes	No X No X No X	Depth (inches):_ Depth (inches):_ Depth (inches):_	emarks)	available:		<u>X</u> F <i>f</i>	AC-Neutral Test (D5)	D2)	<u>x</u>	No
Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Dat	d Concave Surface (B8)  Yes Yes Yes  Yes  Yes  Yes	No X No X No X	Depth (inches):_ Depth (inches):_ Depth (inches):_	emarks)	available:		<u>X</u> F <i>f</i>	AC-Neutral Test (D5)	D2)	<u>x</u>	No
Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Dat	d Concave Surface (B8)  Yes Yes Yes  Yes  Yes  Yes	No X No X No X	Depth (inches):_ Depth (inches):_ Depth (inches):_	emarks)	available:		<u>X</u> F <i>f</i>	AC-Neutral Test (D5)	D2)	<u>x</u>	No
Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Dat	d Concave Surface (B8)  Yes Yes Yes  Yes  Yes  Yes	No X No X No X	Depth (inches):_ Depth (inches):_ Depth (inches):_	emarks)	available:		<u>X</u> F <i>f</i>	AC-Neutral Test (D5)	D2)	<u>(</u>	No
Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Dat	d Concave Surface (B8)  Yes Yes Yes  Yes  Yes  Yes	No X No X No X	Depth (inches):_ Depth (inches):_ Depth (inches):_	emarks)	available:		<u>X</u> F <i>f</i>	AC-Neutral Test (D5)	D2)	<u> </u>	No
Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Dat	d Concave Surface (B8)  Yes Yes Yes  Yes  Yes  Yes	No X No X No X	Depth (inches):_ Depth (inches):_ Depth (inches):_	emarks)	available:		<u>X</u> F <i>f</i>	AC-Neutral Test (D5)	D2)	<u> </u>	No

Oak Creek/ City/County: Milwaukee IH-94 Mainline Sampling Date: <u>9/17/2009</u> Project/Site: Applicant/Owner: Sampling Point: W9-3 T-1 A(u) WDOT State: WI Investigator(s): Tina M. Myers Section, Township, Range: Section 20, T5N R22E Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): None Datum: NA Slope (%): 50% Lat: See Fig. 2 Long: See Fig. 2 Soil Map Unit Name: Blount silt loam (BIA) WWI Classification: None Are climatic / hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks) Are Vegetation Soil \*X or Hydrology significantly disturbed? Are "Normal Circumstances" present? Are Vegetation Soil or Hydrology naturally problematic? (if needed, explain any answers in Remarks) SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc. Yes \_\_\*\*X\_\_ Hydrophytic Vegetation Present? Hydric Soil Present? Yes No Is the Sampled Area No\_\_\_ Wetland Hydrology Present? No within a Wetland? Yes Х \* This sample point is located on a road embankment - soils are disturbed due to the presence of fill material. \*\* The plant community is a mixture of hydrophytic and non-hydrophytic vegetation due to disturbed conditions. This upland sample point is located on a steep road embankment. VEGETATION - Use scientific names for plants Indicator Absolute % **Dominance Test Worksheet:** Free Stratum (Plot Size: N/A Number of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species Across All Strata: (B) 0% = Total Cover Percent of Dominant Species That Are OBL, FACW, or FAC: 67% (A/B) Sapling/Shrub Stratum (Plot Size: Prevalence Index Worksheet: 1. N/A Total % Cover of: Multiply by: OBL species 190 FACW species 95% x 2 = FAC species x 3 = **FACU** species x 4 = 60% = Total Cover **UPL** species x 5 : 300 Column Totals: 155% (A) 490 Herb Stratum (Plot Size: 5 ft. radius Prevalence Index = B/A = 3.16 Phalaris arundinacea 50% **FACW** Bromus inermis 60% Hydrophytic Vegetation Indicators: Vitis riparia FACW X Dominance Test is >50% Prevalence Index is ≤ 3.01 Cornus stolonifera 5% FACW Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on separate sheet) Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 155% = Total Cover Woody Vine Stratum (Plot Size: N/A Hydrophytic 1. N/A Vegetation Present? Yes X No = Total Cover 0% Remarks: (Include photo numbers here or on a separate sheet.) The vegetation is reflective of disturbed upland conditions as opposed to wetland conditions.

SOIL	Sampling Point:	WQ_2 T_1 A(u)
SOIL	Sampling Form.	W9-3 1-1 A(u)

Histic Epipedon (A2)	ne ne rered or Coated Sand Grains.	Silt loam Silty clay loam Silty clay loam Silty clay loam Silty clay loam  2 Location: PL=Pore Lining icators for Problematic Hydric Coast Prairie Redox (A16) Iron-Manganese Masses (I	c Soils³:			    
8-18	rered or Coated Sand Grains.  Ind  / Gleyed Matrix (S4) / Redox (S5) ed Matrix (S6) / Mucky Mineral (F1)	Silty clay loam Silty clay loam  2 Location: PL=Pore Lining icators for Problematic Hydric Coast Prairie Redox (A16) Iron-Manganese Masses (I	Mixed matrix Mixed matrix  M=Matrix  c Soils 3:			
8-18	rered or Coated Sand Grains.  Ind  Ind  Gleyed Matrix (S4)  Redox (S5)  ed Matrix (S6)  y Mucky Mineral (F1)	Silty clay loam <sup>2</sup> Location: PL=Pore Lining icators for Problematic Hydric  Coast Prairie Redox (A16) Iron-Manganese Masses (I	Mixed matrix  M=Matrix  c Soils <sup>3</sup> :			_ _ _ _
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Soli Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10)  Depleted Below Dark Surface (A11)	rered or Coated Sand Grains.  Ind  r Gleyed Matrix (S4) r Redox (S5) ed Matrix (S6) r Mucky Mineral (F1)	<sup>2</sup> Location: PL=Pore Lining icators for Problematic Hydric  Coast Prairie Redox (A16) Iron-Manganese Masses (I	M=Matrix			<u>-</u> - -
Hydric Soil Indicators:           Histosol (A1)         Sand:           Histic Epipedon (A2)         Sand:           Black Histic (A3)         Stripp           Hydrogen Sulfide (A4)         Loam           Stratified Layers (A5)         Loam           2 cm Muck (A10)         Deple           Depleted Below Dark Surface (A11)         Redo	r Gleyed Matrix (S4) r Redox (S5) ed Matrix (S6) y Mucky Mineral (F1)	cators for Problematic Hydric  Coast Prairie Redox (A16)  Iron-Manganese Masses (I	c Soils³:			<u> </u>
Hydric Soil Indicators:           Histosol (A1)         Sand:           Histic Epipedon (A2)         Sand:           Black Histic (A3)         Stripp           Hydrogen Sulfide (A4)         Loam           Stratified Layers (A5)         Loam           2 cm Muck (A10)         Deple           Depleted Below Dark Surface (A11)         Redo	r Gleyed Matrix (S4) r Redox (S5) ed Matrix (S6) y Mucky Mineral (F1)	cators for Problematic Hydric  Coast Prairie Redox (A16)  Iron-Manganese Masses (I	c Soils³:			
Histosol (A1)	/ Gleyed Matrix (S4) / Redox (S5) ed Matrix (S6) / Mucky Mineral (F1)	Coast Prairie Redox (A16) Iron-Manganese Masses (I				
Histic Epipedon (A2)	r Redox (S5) ed Matrix (S6) y Mucky Mineral (F1)	Iron-Manganese Masses (I				
Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) Deple Depleted Below Dark Surface (A11) Stripp  Stripp Loam Depleted Below Dark Surface (A11)	ed Matrix (S6) y Mucky Mineral (F1)	Iron-Manganese Masses (I				
Hydrogen Sulfide (A4)	y Mucky Mineral (F1)		=10\			
Stratified Layers (A5)         Loam           2 cm Muck (A10)         Deple           Depleted Below Dark Surface (A11)         Redo		Other (Explain in Remarks)	,			
2 cm Muck (A10)         Depleted           Depleted Below Dark Surface (A11)         Redo		Other (Explain in Floridine)	'			
	ted Matrix (F3)					
		dicators of hydrophytic vegetation	on and wetland			
Thick Dark Surface (A12) Deple	ted Dark Surface (F7)	nydrology must be present, unle	ess disturbed			
	Depressions (F8)	or problematic.				
5 cm Mucky Peat or Peat (S3)						
Restrictive Layer (if observed):  Type: N/A						
Depth (inches): N/A		Hydric Soil Present?	Yes	No X	_	
High Water Table (A2) Aquat	-Stained Leaves (B9) ic Fauna (B13) Aquatic Plants (B14)	Sur Dra	ors (minimum of two requiface Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2			_
Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Oxidia  Prese Recei	gen Sulfide Odor (C1)  red Rhizospheres on Living Roots (C3)  nce of Reduced Iron (C4)  nt Iron Reduction in Tilled Soils (C6)  Juck Surface (C7)  e or Well Data (D9)  (Explain in Remarks)	Sati Stul	yfish Burrows (C8) uration Visible on Aerial Ir nted or Stressed Plants (D pmorphic Position (D2) C-Neutral Test (D5)		09)	
Sparsely vegetated Concave Surface (Bb)	(Explain in Nemarks)					
Field Observations:						

Project/Site: Applicant/Owner:

Investigator(s):

Landform (hillslope, terrace, etc.):

WDOT

Oak Creek/ IH-94 Mainline City/County: Milwaukee Sampling Date: <u>9/17/2009</u> Sampling Point: W9-3 T-1 B(w) State: WI Julie A. Paschal Section, Township, Range: Section 20, T5N R22E Depression Local relief (concave, convex, none): Concave Lat: See Fig. 2 Long: See Fig. 2 Datum: NA

Sol Map Unit Name   Houghton muck (HA)	Slope (%): 0-2%	Lat: See Fig. 2	Long: See	Fig. 2 Datum: NA
Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances' present? Yes_X_NO_  **Normal Circumstances' present?**  **SumMaRY OF FINDINGS — Attach ate map showing ampling point locations, transects, important teatures, etc.  **Hydrologivic Vegetation Present?**  **Yes_X_NO_  **Wetland Hydrology Present?**  **This is a shallow marsh wetland connected to a waterway tributary to Oak Creek.  **VESETATION - Use scientific names for plants.**  **Trans Stratum (Plot Size: NIA )	Soil Map Unit Name:	Houghton muck (HtA)		WWI Classification: E2H
Submitanty OF FINDINGS Attach site map showing sampling point locations, transacts, important teatures, etc.	Are climatic / hydrologic condition	s on the site typical for this time	of year?	Yes X No (if no, explain in Remarks)
SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.  Hydrothytic Vegetation Present?  Yes X No	Are Vegetation	Soil or Hydrology	significantly disturbed?	Are "Normal Circumstances" present? Yes X No
Hydrockylic Vegetation Present?  Yes X No within a Wetland?  Veg X No within a Wetland?  Fernarks:  This is a shallow marsh wetland connected to a waterway tributary to Oak Creek.  VEGETATION - Use scientific names for plants.  Tree. Stratum. (Plot Size: NA ) Course Sourcies Status.  This is a shallow marsh wetland connected to a waterway tributary to Oak Creek.  VEGETATION - Use scientific names for plants.  Tree. Stratum. (Plot Size: NA ) Course Sourcies Status.  1 NA	Are Vegetation	Soil or Hydrology	naturally problematic?	(if needed, explain any answers in Remarks)
Hydroclay Vegetation Present? Yes X No within a Wetland?  Wetland Hydrology Present? Yes X No within a Wetland?  Wetland Hydrology Present? Yes X No within a Wetland?  Wetland Hydrology Present? Yes X No within a Wetland?  Wetland Hydrology Present? Yes X No within a Wetland?  Wetland Hydrology Present? Yes X No within a Wetland?  Wetland Hydrology Present? Yes X No within a Wetland?  Wetland Hydrology Present?  This is a shallow marsh wetland connected to a waterway tributary to Oak Creek.  Wetland Hydrology Present?  Tras Stratum (Pot Size: NIA ) Absolute % Dominant Society Status Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A) Total Number of Dominant Species That Are OBL, FACW, or FAC: 100% (AB)  Sapting Shrub Stratum (Pot Size: NIA ) Total Cover Prevalence Index Worksheet: Total Scow of: Multiply by:  OBL species X 1 = FACW Species X 2 = FAC species X 3 = FACW Species X 4 = F	SUMMARY OF FINDINGS At	ach site map showing sampli	ng point locations, transects, im	portant features, etc.
Hydric Sol Present?   Yes   X   No				
Remarks:  This is a shallow marsh wetland connected to a waterway tributary to Oak Creek.  VEGETATION - Use scientific names for plants.  Tree Stratum (Plot Size: N/A )				Is the Sampled Area Yes X No
VEGETATION - Use scientific names for plants.  Tree Stratum (Plot Size: NA ) Absolute % Constant Species That Are OBL, FACW, or FAC: 3 (A)  2. 3. 4. 5. 5. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	*			
VEGETATION - Use scientific names for plants.  Tree Stratum (Plot Size: NA ) Absolute % Constant Species That Are OBL, FACW, or FAC: 3 (A)  2. 3. 4. 5. 5. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	Remarke:			
NA	nemarks.			
Absolute %   Dominant   Indicator   Statium   Plot Size: N/A   Dominant   Species   Statium   Plot Size: N/A   Species   Statium   Plot Size: N/A   Species   Statium   Prevalence Index Worksheet:   Number of Dominant Species   That Are OBL, FACW, or FAC: 3 (A)	This is a shallow marsh	wetland connected to a v	vaterway tributary to Oak Cre	eek.
Absolute %   Dominant   Indicator   Statium   Plot Size: N/A   Dominant   Species   Statium   Plot Size: N/A   Dominant Species   That Are OBL, FACW, or FAC:   3 (A)				
Absolute %   Dominant   Indicator   Statium   Plot Size: N/A   Dominant   Species   Statium   Plot Size: N/A   Dominant Species   That Are OBL, FACW, or FAC:   3 (A)				
Absolute %   Dominant   Indicator   Statium   Plot Size: N/A   Dominant   Species   Statium   Plot Size: N/A   Dominant Species   That Are OBL, FACW, or FAC:   3 (A)				
NA	VEGETATION - Use scientific na	•	Danisant Indicates	
Number of Dominant Species   That Are OBL, FACW, or FAC:   3   (A)	Tree Stratum (Plot Size: N/A	A		Dominance Test Worksheet:
Total Number of Dominant   Species Across All Strata:   3   (B)	·	,		Number of Dominant Species
Total Number of Dominant   Species Across All Strata:				That Are OBL, FACW, or FAC: (A)
Species Across All Strata: 3 (B)	2			Total Number of Deminant
Sapling/Shrub Stratum	4			
That Are OBL, FACW, or FAC: 100% (A/B)	5.			(,
Prevalence Index Worksheet:   1. N/A	_	0%	= Total Cover	
Total % Cover of:				That Are OBL, FACW, or FAC:(A/B)
Total % Cover of:	Sanling/Shrub Stratum (Plot Si	ze· Ν/Δ )		Prevalence Index Worksheet:
Color				
FACW species   X2 =   FACW species   X3 =   FACU species   X3 =   FACU species   X4 =   YES   YeS   FACU   FACU species   X5 =   YES   X   No   YES   XES   YES   YES   YES   YES   XES   YES   YES   XES   YES   XES   YES   Y	2.			OBL species x 1 =
FACU species				<u> </u>
D%   = Total Cover   UPL species   X5 =   Column Totals:	4			
Column Totals:	5	0%	= Total Cover	
1. Phalaris arundinacea 2. Typha angustifolia 3.				
1. Phalaris arundinacea 2. Typha angustifolia 3.				
2. <u>Typha angustifolia</u> 50% Yes OBL Hydrophytic Vegetation Indicators:  X Dominance Test is >50% Prevalence Index is ≤ 3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)  10		,	Voc EACW	Prevalence Index = B/A =
3.				Hydrophytic Vegetation Indicators:
Morphological Adaptations¹ (Provide supporting data in Remarks or on separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)  10.				
6.	4			
7				
8. 9. 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Woody Vine Stratum (Plot Size: 15 ft. radius ) 1. Vitis riparia 15% Yes FACW 2. 15% = Total Cover  Remarks: (Include photo numbers here or on a separate sheet.)	6			
9.			<del></del>	
Moody Vine Stratum (Plot Size: 15 ft. radius )   Hydrophytic				1 Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot Size: 15 ft. radius ) 1. Vitis riparia 15% Yes FACW Vegetation 2. 15% = Total Cover	10.			be present, unless disturbed or problematic.
1. Vitis riparia 2		130%	= Total Cover	
1. Vitis riparia 2	Woody Vine Stratum (Plot Si	ze: 15 ft. radius \		Hydrophytic
2			Yes FACW	* * *
Remarks: (Include photo numbers here or on a separate sheet.)				
		15%	= Total Cover	
	Remarks: (Include photo number	s here or on a separate sheet \		I
			etland.	
	7,			

SOIL	Sampling Point:	W9-3 T-1 B(w)
**:=		

(inches)	Color (moist)	%	Color (moist)	Redox Featu	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
)-18	10YR 3/1	100	None				Silt loam			
18-23	10YR 5/2	100	10YR 4/6	5%	С	М	Silty clay			
	on, D=Depletion, RM=Reduce	ed Matrix, CS	=Covered or Coate	ed Sand Gra	ains.		<sup>2</sup> Location: PL=Pore Lining	_		
Hydric Soil Indicators Histosol (A1)	<b>3</b> :		Sandy Gleyed Matr	riv (Q4)		Indica	tors for Problematic Hydr	ic Soils <sup>3</sup> :		
Histic Epipedon (A	A2)		Sandy Redox (S5)	IX (O4)			Coast Prairie Redox (A16	)		
Black Histic (A3)			Stripped Matrix (S6	6)			Iron-Manganese Masses			
Hydrogen Sulfide	(A4)		oamy Mucky Mine	,			Other (Explain in Remarks	. ,		
Stratified Layers (	• •		oamy Gleyed Mat	. ,			(	-,		
2 cm Muck (A10)	,		Depleted Matrix (F3	3)						
Depleted Below D	ark Surface (A11)		Redox Dark Surfac	ce (F6)		3 Indica	ators of hydrophytic vegetati	ion and wetland		
X Thick Dark Surfac	e (A12)		Depleted Dark Surf	face (F7)		hyd	drology must be present, unl	less disturbed		
Sandy Mucky Min	, ,		Redox Depressions	s (F8)		or p	problematic.			
5 cm Mucky Peat										
Restrictive Layer (if o Type: Silty cla										
Depth (inches):							Hydric Soil Present?	Yes X	No	
Remarks:										
	nimum of one is required; che						Secondary Indica	toro (minimum of		
	s (B2) ) t (B4)		Water-Stained Leavana (B1: True Aquatic Fauna (B1: Hydrogen Sulfide C Dxidized Rhizospho- Presence of Reduc Recent Iron Reduct Thin Muck Surface Gauge or Well Data Dther (Explain in R	3) s (B14) Odor (C1) eres on Livir ced Iron (C4) tion in Tilled (C7) a (D9)		3)	Su	rface Soil Cracks ainage Patterns (B y-Season Water T ayfish Burrows (C	(B6) B10) Fable (C2) 8) n Aerial Imagery (C9) Plants (D1) n (D2)	
High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible Sparsely Vegetate Field Observations:	s (B2) ) ( (B4) ) on Aerial Imagery (B7) ad Concave Surface (B8)		Aquatic Fauna (B1: frue Aquatic Plants Hydrogen Sulfide Hydrogen Sulfide Presence of Reduc Recent Iron Reduct Thin Muck Surface Gauge or Well Data Other (Explain in R	3) s (B14) Odor (C1) eres on Livir ced Iron (C4) tion in Tilled (C7) a (D9)		3)	Su	rface Soil Cracks ainage Patterns (E y-Season Water T ayfish Burrows (C turation Visible or unted or Stressed comorphic Position	(B6) B10) Fable (C2) 8) n Aerial Imagery (C9) Plants (D1) n (D2)	
High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present	s (B2) ) (B4) on Aerial Imagery (B7) ad Concave Surface (B8)	No_X	Aquatic Fauna (B1: Frue Aquatic Plants Hydrogen Sulfide C Dixidized Rhizosph Presence of Reduct Recent Iron Reduct Thin Muck Surface Gauge or Well Data Other (Explain in R	3) s (B14) Odor (C1) eres on Livir ced Iron (C4) tion in Tilled (C7) a (D9)		3)	Su	rface Soil Cracks ainage Patterns (E y-Season Water T ayfish Burrows (C turation Visible or unted or Stressed comorphic Position	(B6) B10) Fable (C2) 8) n Aerial Imagery (C9) Plants (D1) n (D2)	
High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present?	s (B2) ) on Aerial Imagery (B7) ed Concave Surface (B8)  ?? Yes	No <u>x</u>	Aquatic Fauna (B1: Frue Aquatic Plants Hydrogen Sulfide C Dxidized Rhizosph Presence of Reduct Recent Iron Reduct Ihin Muck Surface Gauge or Well Data Other (Explain in R  Depth (inches): Depth (inches):	3) s (B14) Odor (C1) eres on Livir ced Iron (C4) tion in Tilled (C7) a (D9)		3)	Su	rface Soil Cracks ainage Patterns (E y-Season Water T ayfish Burrows (C turation Visible or unted or Stressed comorphic Positior C-Neutral Test (D	(B6) B10) Fable (C2) 8) n Aerial Imagery (C9) Plants (D1) n (D2)	No
High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible	s (B2) b (B4) on Aerial Imagery (B7) ed Concave Surface (B8)  1? Yes Yes Yes Yes	No <u>X</u> No <u>X</u>	Aquatic Fauna (B1: Frue Aquatic Plants Hydrogen Sulfide C Dixidized Rhizosph Presence of Reduct Recent Iron Reduct Thin Muck Surface Gauge or Well Data Other (Explain in R	3) s (B14) Odor (C1) eres on Livir ced Iron (C4) tion in Tilled (C7) a (D9)		3)	Su	rface Soil Cracks ainage Patterns (E y-Season Water T ayfish Burrows (C turation Visible or unted or Stressed comorphic Positior C-Neutral Test (D	(B6) B10) Fable (C2) 8) n Aerial Imagery (C9) Plants (D1) n (D2)	No_

Oak Creek/ City/County: Milwaukee IH-94 Mainline Sampling Date: 9/17/2009 Project/Site: Applicant/Owner: WDOT State: WI Sampling Point: W9-4 T-1 A(u) Julie A. Paschal/Tina M. Myers Section, Township, Range: Section 20, T5N R22E Investigator(s): Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): None Lat: See Fig. 2 Datum: NA Slope (%): 3% Long: See Fig. 2 Soil Map Unit Name: Morley silt loam (MzdD2) WWI Classification: None Are climatic / hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks) Are Vegetation significantly disturbed? Are "Normal Circumstances" present? Soil or Hydrology Are Vegetation Soil or Hydrology naturally problematic? (if needed, explain any answers in Remarks) SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes No Х Is the Sampled Area Wetland Hydrology Present? No within a Wetland? Yes Х Remarks: VEGETATION - Use scientific names for plants Indicator Absolute % Dominant **Dominance Test Worksheet:** Tree Stratum (Plot Size: 30 ft. radius **Number of Dominant Species** Tilia americana Yes FACU That Are OBL, FACW, or FAC: (A) 2. Juglans nigra 40% Yes FACU 3. Acer saccharum 35% Yes Total Number of Dominant FACU Ulmus americana 3% No FACW Species Across All Strata: (B) 118% = Total Cover Percent of Dominant Species That Are OBL, FACW, or FAC: 40% (A/B) Sapling/Shrub Stratum (Plot Size: 15 ft. radius ) Prevalence Index Worksheet: 1. Prunus virginiana 10% Multiply by: Yes FAC OBL species 2. Fraxinus pennsylvanica 3% No FACW FACW species 12 6% x 2 = 98% FAC species x 3 = 294 **FACU** species 117% 468 x 4 = 13% = Total Cover UPL species 5% x 5 25 Column Totals: 226% (A) 799 lerb Stratum (Plot Size: 5 ft. radius Prevalence Index = B/A = 3.53 1. Parthenocissus quinquefolia 85% FAC Prunus virginiana 3% No FAC **Hydrophytic Vegetation Indicators:** 3. Fraxinus pennsylvanica 3% FACW Dominance Test is >50% Prevalence Index is ≤ 3.01 Carex pennsylvanica 5% No UPL Morphological Adaptations<sup>1</sup> (Provide supporting 5. Circaea lutetiana FACL data in Remarks or on separate sheet) Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 98% = Total Cover Woody Vine Stratum (Plot Size: N/A Hydrophytic ) 1. N/A Vegetation Present? No X Yes = Total Cover 0% Remarks: (Include photo numbers here or on a separate sheet.) This is an upland, woodland plant community.

SOIL Sampling Point: W9-4 T-1 A(u) Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) % 10YR 3/1 Silt loam None 100 Silty clay loam -18 10YR 4/3 100 None Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix Hydric Soil Indicators: Indicators for Problematic Hydric Soils<sup>3</sup>: Sandy Gleyed Matrix (S4) Histosol (A1) Histic Epipedon (A2) Coast Prairie Redox (A16) Sandy Redox (S5) Stripped Matrix (S6) Iron-Manganese Masses (F12) Black Histic (A3) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Other (Explain in Remarks) Stratified Layers (A5) Loamy Gleyed Matrix (F2) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) <sup>3</sup> Indicators of hydrophytic vegetation and wetland Thick Dark Surface (A12) Depleted Dark Surface (F7) hydrology must be present, unless disturbed Sandy Mucky Mineral (S1) Redox Depressions (F8) or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: N/A **Hydric Soil Present?** Depth (inches): N/A Yes\_ No X Remarks:

Casandam, Indiantam (minimum of two year, inch)
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)
Wetland Hydrology Present? Yes NoX

Oak Creek/

Investigator(s): Tina M. Myers / Julie A. Paschal Section, Township, Range: Section 20, T5N R22E  Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave  Slope (%): 0-1% Lat: See Fig. 2 Long: See Fig. 2 Datum: NA  Soil Map Unit Name: Morley silt loam (MzdD2) WWI Classification: Wetland smaller than 2 acres  Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (if no, explain in Remarks)  Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No  Are Vegetation Soil or Hydrology naturally problematic? (if needed, explain any answers in Remarks)  SUMMARY OF FINDINGS Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present? Yes X No	Project/Site:	IH-94 Mainline				City/County: Milwaukee Sampling Date: 9/17/2009
Landform pillulope, terrace, ecty   Depression   Local relef (concave, corrax, not)   Debug man, Name   Solito   Local See Fig. 2   Long   See Fig. 2   W/O (Castraction, Wetland See Manter   Name	Applicant/Owner:	WDOT				State: WI Sampling Point: W9-4 T-1 B(w)
Stope (%)   C-1%   Latt See Fig. 2   Long-See Fig. 2   Datum: NA	Investigator(s):	Tina M. Myers / Ju	ilie A. Paschal			Section, Township, Range: Section 20, T5N R22E
More	Landform (hillslope, te	errace, etc.):	Depression			Local relief (concave, convex, none): Concave
And climate Inytrologic conditions on the alte bytical for fries time of year?  Are Vegetation  Soil or Hydrology inspirituarity disturbed?  Are Vegetation in George in Remarks)  SUMMARY OF FINDINGS — Attach after map a howing asempting point locations, transacts, important features, etc.  Hydrocophic Vegetation Present?  Yes X No  Submission Present Pres	Slope (%): 0-1%				Long: See	
Ace Vegetation	Soil Map Unit Name:	Morley silt	loam (MzdD2)			WWI Classification: Wetland smaller than 2 acres
SubmArtY OF FINDINGS Attach site map showing sampling point locations, transects, important features, etc.	Are climatic / hydrolog	gic conditions on the site	e typical for this time	•		
SUMMARY OF FINDINGS Attach site map showing sampling point locations, transects, important teatures, etc.  Hydrophytic Vegetation Present? Yes X No state has been been been been been been been bee	Are Vegetation					·
Hydrock  Vegetation Present?	Are Vegetation	Soil	or Hydrology	natural	ly problematic?	(if needed, explain any answers in Remarks)
Hydric Sol Present?   Yes X   No	SUMMARY OF FINDI	INGS Attach site ma	ap showing sampl	ing point locati	ons, transects, in	nportant features, etc.
Ves   X   No	Hydrophytic Vegetatio	on Present?	Yes X	No		
VEGETATION - Use scientific names for plants.	Hydric Soil Present?		Yes X	No		Is the Sampled Area Yes X No
VEGETATION - Use scientific names for plants:   Tree Stratum (Plot Size: 30 ft. radius   Couse   Societies   Status   Societies   Societies   Status   Societies	Wetland Hydrology Pr	resent?	Yes X	_ No		within a Wetland?
Machine   Mach	Remarks:					•
Absolute %   Dominant   Indicator	This is a wood	ded swamp.				
Number of Dominants Peccies   Status   Number of Dominant Species   That Are OBL, FACW, or FAC:   S   (A)	VEGETATION - Use s	scientific names for plar	nts.			
1. Ulmus americana   50%   Yes   FACW   Total Number of Dominant Species   That Are OBL, FACW, or FAC:   5 (A)	Tree Stratum (Plot Si	ize: 30 ft radius \				Dominance Test Worksheet:
2   Fraxinus pennsylvanica   20%   Yes   FACW     3   4	Tree otratam (1 lot of	ize. <del>oo it. raaias</del>	Cover	Species	Status	Number of Dominant Species
Total Number of Dominant   Species Across All Strata:   5   (B)						That Are OBL, FACW, or FAC: (A)
Species Across All Strata:   5 (B)		ylvanica	20%	Yes	FACW	T. III. 1. (D. ).
Sagling/Shrub Stratum (Plot Size: 15 ft. radius )   Prevalence Index Worksheet:   Total % Cover of:   Multiply by:						
That Are OBL, FACW, or FAC:   100%   (A/B)						Species Across Air Strata.
Prevalence Index Worksheet:   1. Crategus mollis			70%	= Total Cover		Percent of Dominant Species
Total & Cover of:						That Are OBL, FACW, or FAC:(A/B)
FACU species   X 4 =   UPL species   X 5 =   Column Totals:	Crataegus molli. 2.	,	,	Yes	FACW	Total % Cover of:         Multiply by:           OBL species         x 1 =
S%   = Total Cover   Column Totals:   X5 =   Column Totals:   (A)   (B)	4.					
Herb Stratum (Plot Size: 5 ft. radius   10% No OBL   2. Glyceria striata   40% Yes OBL   3. Bidens frondosa   5% No FACW   4. Pilea pumila   8% No FACW   5. Vitis riparia   2% No FACW   4. Problematic Hydrophytic Vegetation   4. Provide supporting data in Remarks or on separate sheet)   1. Vitis riparia   10% Yes FACW   Vegetation   Vegetat	5		F0/	Total Cavar		· · · · · · · · · · · · · · · · · · ·
Herb Stratum (Plot Size: 5 ft. radius )  1. Carex bebbii 10% No OBL 2. Glycerla striata 40% Yes OBL 3. Bidens frondosa 5% No FACW 4. Pilea pumila 8% No FACW 5. Vitis riparia 2% No FACW 6			5%	= Total Cover		
1. Carex bebbii 2. Glyceria striata 3. Bidens frondosa 40% Yes OBL 3. Bidens frondosa 5 No FACW 5. Vitis riparia 6. 7.	Harb Stratum (Diat Si	izo: 5 ft radius				
2. Glyceria striata 40% Yes OBL 3. Bidens frondosa 55% No FACW 4. Pilea pumila 5. Vitis riparia 20% No FACW 6. 7.		<u>511.140103</u>	,	No	OBL	Trevalence index = B/A =
4. Pilea pumila 5. Vitis riparia 6.	2. Glyceria striata					Hydrophytic Vegetation Indicators:
5. Vitis riparia 2% No FACW  Morphological Adaptations¹ (Provide supporting data in Remarks or on separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)  9.		a				
6						
7			2 /6	140	FACW	
9	7.					
10						<u> </u>
Moody Vine Stratum   (Plot Size: 15 ft. radius   10%   Yes   FACW   Vegetation   Present?   Yes   X   No   No   No   No   No   No   No						, , ,
Woody Vine Stratum (Plot Size: 15 ft. radius ) 1. Vitis riparia 10% Yes FACW Vegetation 2. 10% = Total Cover Hydrophytic Vegetation Present? Yes X No	10	<del></del>	65%	= Total Cover		be present, unless disturbed or problematic.
1. Vitis riparia 2				- 10141 0010.		
Total Cover  Remarks: (Include photo numbers here or on a separate sheet.)	1. Vitis riparia	(Plot Size: 15	,	Yes	FACW	Vegetation
Remarks: (Include photo numbers here or on a separate sheet.)	۷		10%	= Total Cover		Present? Yes X NO
Approximately 50% pare ground present due to dense tree canopy and assumed frequent inundation.	, ,			lanaa t=== : =:	any and accom	med frequent inundation
	Approximately	y 50% bare ground	present due to d	iense tree cai	lopy and assur	med frequent inundation.

SOIL	Sampling Point:	W9-4 T-1 B(w)
~~: <u>-</u>	oumpining i oniti	110 4 1 1 B(11)

Profile Description: (D	escribe to the depth needs	d to docui	ment the indicato	r or confirn	n the absen	ce of in	dicators.)			
Depth	Matrix			Redox Fea			_			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
0-13	10YR 2/1	100	None				Silt loam			
13-20	10YR 5/2	100	10YR 5/8	10%	С	М	Silty clay loam	Blocky structur	е	
<b></b>										
							•			
Type: C-Concentration	n, D=Depletion, RM=Reduced	Matrix C9	S-Covered or Coat	ad Sand G	raine		<sup>2</sup> Location: PL=Pore Lini	na M-Matriy		
Type. 0=00ncentration	i, D-Depletion, Tilvi-Heddeed	i watin, oc	3-00vered or ood	lea Garia Gi	ans.					
Hydric Soil Indicators:						Indica	tors for Problematic Hyd	dric Soils <sup>3</sup> :		
Histosol (A1)			Sandy Gleyed Mat	rix (S4)						
Histic Epipedon (A2	2)		Sandy Redox (S5)				Coast Prairie Redox (A1	6)		
Black Histic (A3)	•		Stripped Matrix (St				Iron-Manganese Masses	,		
Hydrogen Sulfide (A	44)		Loamy Mucky Min	,		-	Other (Explain in Remar	, ,		
Stratified Layers (A			Loamy Gleyed Ma	. ,			_ Carior (Explain in Florida	110)		
2 cm Muck (A10)	5)									
· ,			Depleted Matrix (F			3 1	- 4 £	attana analonatianal		
Depleted Below Da	, ,		Redox Dark Surfa	. ,			ators of hydrophytic vegeta			
X Thick Dark Surface	, ,		Depleted Dark Sur	. ,			drology must be present, u	iniess disturbed		
Sandy Mucky Miner	. ,		Redox Depression	s (F8)		or p	problematic.			
5 cm Mucky Peat or	r Peat (S3)									
Restrictive Layer (if ob	searuad):				I					
	osciveu).									
Type: <b>N/A</b>		_								
Depth (inches):	N/A						Hydric Soil Present?	Yes X	No	
Remarks:										
HYDROLOGY										
Wetland Hydrology Ind										
Primary Indicators (minir	mum of one is required; chec	k all that ar	oply)				Secondary Indic	cators (minimum of tw	vo required)	
Surface Water (A1)			Water-Stained Lea	ives (B9)			S	Surface Soil Cracks (	B6)	
High Water Table (/	A2)		Aquatic Fauna (B1	3)			x	Drainage Patterns (B	10)	
Saturation (A3)			True Aquatic Plant	s (B14)				Dry-Season Water Ta	able (C2)	
X Water Marks (B1)			Hydrogen Sulfide (	. ,				Crayfish Burrows (C8	. ,	
Sediment Deposits	(B2)		Oxidized Rhizosph	. ,	ing Roots (C	:3)		Saturation Visible on	,	)
X Drift Deposits (B3)	(32)		Presence of Reduc		•	,0,		Stunted or Stressed F		,
	(D4)		Recent Iron Reduc		,			Geomorphic Position	. ,	
X Algal Mat or Crust (	(54)				a Solis (Co)				. ,	
Iron Deposits (B5)			Thin Muck Surface	. ,			XF	AC-Neutral Test (D5	o)	
	on Aerial Imagery (B7)		Gauge or Well Dat	. ,						
Sparsely Vegetated	d Concave Surface (B8)		Other (Explain in F	Remarks)						
						1				
Field Observations:										
Surface Water Present?	Yes	No <u>X</u>	Depth (inches):		_					
Water Table Present?	Yes	No <u>X</u>	Depth (inches):		_					
Saturation Present?	Yes	No X	Depth (inches):		_		Wetland Hydrology Pre	esent?	Yes X	No
(includes capillary fringe										
Describe Recorded Data	a (stream gauge, monitoring	well, aerial	photos, previous ir	nspections),	if available:					
Remarks:										
Fluted tree truni	ks also observed within	this area	a. This sample	point is w	ithin a der	oressio	nal area within a woo	dland between II	1-94 to the east	and a
	he west. This area is at				-					
iaimoa noia to t	no week. This area is at	u	0101441011 111 1110	topogiup	ily tilali ti		Januaria Woodiana			

Oak Creek/

Project/Site:	IH-94 Mainline	ı				City/County: Milwaukee	Sampling Date:	9/17/2009	
Applicant/Owner:	WDOT					State: WI	Sampling Point:	W9-4a T-1 A(u)	
Investigator(s):	Tina M. Myers	/ Julie A.	Paschal			Section, Township, I	Range: Section 20, T	5N R22E	
Landform (hillslope, ter	rrace, etc.):	<u>H</u>	lillslope			Local relief (concave, convex, n	one): None		
Slope (%): ~2%			See Fig. 2		Long: See		Datum		
Soil Map Unit Name:		silt loam					Classification: None		
Are climatic / hydrologic						Yes X No	(if no, explain		
Are Vegetation			r Hydrology		antly disturbed?	Are "Normal Circumstances	•	Yes X	No
Are Vegetation	Soil	0	r Hydrology	natural	ly problematic?	(if needed, explain any ansv	vers in Remarks)		
SUMMARY OF FINDIN	NGS Attach site	e map sho	owing sampl	ing point location	ons, transects, im	portant features, etc.			
Hydrophytic Vegetation	n Present?		Yes	No	X				
Hydric Soil Present?			Yes	No	X	Is the Sampled Area	Yes	s No	Х
Wetland Hydrology Pre	esent?		Yes	No	X	within a Wetland?			
	on and soils are		ed due to a	nnual croppin	ng and tilling.				
VEGETATION - Use so	cientific names for								
Tree Stratum (Plot Siz	ze: N/A	) _	Absolute %	Dominant Species	Indicator Status	Dominance Test W	orksheet:		
1. <b>N/A</b>		_	LINE	Sheries	Sialite	Number of Dominan That Are OBL, FAC		<b>0</b> (A)	
3.		_				Total Number of Do	minant		
4.		_				Species Across All S		(B)	
5		. <u> </u>	0%	= Total Cover		Percent of Dominan That Are OBL, FAC	•	<b>0%</b> (A/B)	
Sapling/Shrub Stratum  1. N/A	. (Plot Size:	N/A	)			Prevalence Index V	Vorksheet: Cover of:	Multiply by:	
2		. <u> </u>				OBL species		x 1 =	
3		-				FACW species FAC species		x 2 = x 3 =	
5.		_				FACU species		x 4 =	
		_	0%	= Total Cover		UPL species		x 5 =	
						Column Totals:		(A)	(B)
Herb Stratum (Plot Siz 1. <b>Glycine max (pla</b>		dius )	60%	Yes	UPL	Prevalence	Index = B/A =		
2. Ambrosia artemis	siifolia		2%	No	FACU	Hydrophytic Veget			
3							Test is >50%		
-		_					Index is ≤ 3.0 <sup>1</sup> cal Adaptations <sup>1</sup> (Pro	vide supporting	
							emarks or on separate		
_							Hydrophytic Vegetati		
8		. <u> </u>				1			
9. 10.		. <u> </u>					soil and wetland hyd disturbed or problem		
10		· –	62%	= Total Cover		be present, unless	distarbed of problem	дис.	
Woody Vine Stratum  1. N/A	(Plot Size:	N/A	)			Hydrophytic Vegetation			
2		-	0%	= Total Cover		Present?	Yes	NoX	
		_	0 /6	= Total Cover					
Remarks: (Include phot The soybean ci	oto numbers here or erop in this porti		,		nd robust.				

SOIL Sampling Point: W9-4a T-1 A(u)

Depth (inches)	Matrix Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
0-11	10YR 3/2	100	None	70	.,,,,	200	Silt loam	-		
11-20	2.5Y 6/4	100	10YR 6/8	5%	С	М	Silt	-		
			-					-		
								-		
			-							
Type: C=Concentration,	, D=Depletion, RM=Redu	ced Matrix, CS	S=Covered or Coat	ed Sand Gra	ains.		<sup>2</sup> Location: PL=Pore Lin	ing, M=Matrix		
Hydric Soil Indicators:						Indica	ators for Problematic Hy	dric Soils <sup>3</sup> :		
Histosol (A1)	١		Sandy Gleyed Mate Sandy Redox (S5)	rix (S4)			Coast Prairie Paday (A:	16)		
Histic Epipedon (A2) Black Histic (A3)	)		Stripped Matrix (S6	3)			Coast Prairie Redox (A: Iron-Manganese Masse			
Hydrogen Sulfide (A	4)		Loamy Mucky Mine				Other (Explain in Rema			
Stratified Layers (A5			Loamy Gleyed Mat							
2 cm Muck (A10)	,		Depleted Matrix (F:	. ,						
Depleted Below Dar	k Surface (A11)	_	Redox Dark Surface	ce (F6)		3 Indic	ators of hydrophytic veget	ation and wetland		
Thick Dark Surface	, ,		Depleted Dark Sur	, ,		hyd	drology must be present, ι	unless disturbed		
Sandy Mucky Miner			Redox Depressions	s (F8)		or <sub> </sub>	problematic.			
5 cm Mucky Peat or	, ,				ı					
Restrictive Layer (if obs Type: N/A	served):									
Depth (inches):	N/A						Hydric Soil Present?	Yes	No X	
Remarks:										
HYDROLOGY										
Wetland Hydrology Ind			and to				Casandan ladi		f hua yang isand	
Wetland Hydrology Ind Primary Indicators (minin	icators: num of one is required; c			(D0)			_	cators (minimum ol		
Wetland Hydrology Ind Primary Indicators (minin Surface Water (A1)	num of one is required; c		Water-Stained Lea	. ,				Surface Soil Cracks	s (B6)	
Wetland Hydrology Ind Primary Indicators (minin Surface Water (A1) High Water Table (A	num of one is required; c		Water-Stained Lea Aquatic Fauna (B1	3)				Surface Soil Cracks Drainage Patterns	s (B6) (B10)	
Wetland Hydrology Ind Primary Indicators (minin Surface Water (A1) High Water Table (A Saturation (A3)	num of one is required; c		Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant	3) s (B14)				Surface Soil Cracks Drainage Patterns Dry-Season Water	s (B6) (B10) Table (C2)	
Wetland Hydrology Ind Primary Indicators (minin Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1)	num of one is required; c		Water-Stained Lea Aquatic Fauna (B1: True Aquatic Plant: Hydrogen Sulfide (	3) s (B14) Odor (C1)	ng Roots (C	3)		Surface Soil Cracks Drainage Patterns Dry-Season Water Crayfish Burrows ((	s (B6) (B10) Table (C2) C8)	
Wetland Hydrology Ind Primary Indicators (minin Surface Water (A1) High Water Table (A Saturation (A3)	num of one is required; c		Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant	3) s (B14) Odor (C1) eres on Livii		3)		Surface Soil Cracks Drainage Patterns Dry-Season Water Crayfish Burrows ((	s (B6) (B10) Table (C2) C8) on Aerial Imagery (C9)	
Wetland Hydrology Ind Primary Indicators (minin Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits ( Drift Deposits (B3) Algal Mat or Crust (I	num of one is required; c		Water-Stained Lea Aquatic Fauna (B1: True Aquatic Plant: Hydrogen Sulfide C Oxidized Rhizosph Presence of Reduc Recent Iron Reduc	3) s (B14) Odor (C1) eres on Livit ced Iron (C4) tion in Tilled	)	:3)		Surface Soil Cracks Drainage Patterns Dry-Season Water Crayfish Burrows ( Saturation Visible o Stunted or Stresse Geomorphic Positio	s (B6) (B10) Table (C2) C8) on Aerial Imagery (C9) d Plants (D1) on (D2)	
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Wetland Hydrology Ind Primary Indicators (minin Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (I Iron Deposits (B5) Inundation Visible or Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	num of one is required; c (B2) (B2) (B34) In Aerial Imagery (B7) Concave Surface (B8)  Yes Yes Yes Yes (stream gauge, monitori	No X No X No X	Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant: Hydrogen Sulfide C Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in R  Depth (inches): Depth (inches): Depth (inches):	3) s (B14) Odor (C1) eres on Livit sed Iron (C4) tion in Tilled (C7) a (D9) temarks)	Soils (C6)		Wetland Hydrology Pr	Surface Soil Crack: Drainage Patterns Dry-Season Water Crayfish Burrows (I Saturation Visible of Stunted or Stressed Geomorphic Positic FAC-Neutral Test (I Sesent?	s (B6) (B10) Table (C2) C8) on Aerial Imagery (C9) d Plants (D1) on (D2) D5)  Yes	No X
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Oak Creek/

Project/Site:	IH-94 Mainline				City/County: Milwaukee Sampling Date: 9/17/2009
Applicant/Owner:	WDOT				State: WI Sampling Point: W9-4a T-1 B(w)
Investigator(s):	Tina M. Myers /	Julie A. Paschal			Section, Township, Range: Section 20, T5N R22E
Landform (hillslope, ter	race, etc.):	Swale			Local relief (concave, convex, none): Concave
Slope (%): 2-4%		Lat: See Fig. 2		Long: See	
Soil Map Unit Name:		silt Ioam (BIA)			WWI Classification: E2K
Are climatic / hydrologic					Yes X No (if no, explain in Remarks)
Are Vegetation		or Hydrology		antly disturbed?	Are "Normal Circumstances" present?  Yes X  No
Are Vegetation	Soil	or Hydrology	naturali	y problematic?	(if needed, explain any answers in Remarks)
SUMMARY OF FINDIN	IGS Attach site	map showing samp	ling point location	ns, transects, im	portant features, etc.
Hydrophytic Vegetation	Present?	Yes X			
Hydric Soil Present?		Yes X			Is the Sampled Area Yes X No
Wetland Hydrology Pre	sent?	Yes X	No		within a Wetland?
Remarks:					
This is a wet m	eadow drainage	swale.			
VEGETATION - Use so	cientific names for p				
Tree Stratum (Plot Siz	e·N/A	Absolute %	Dominant Species	Indicator Status	Dominance Test Worksheet:
1. <b>N/A</b>					Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2					Total Number of Dominant
4.		-			Species Across All Strata:1 (B)
5.					
		0%	= Total Cover		Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
Sapling/Shrub Stratum	(Plot Size:	<b>1/A</b> )			Prevalence Index Worksheet:
1. <u>N/A</u>					Total % Cover of: Multiply by:
2. 3.					OBL species x 1 = FACW species x 2 =
4.		-			FAC species
5.					FACU species x 4 =
		0%	= Total Cover		UPL species x 5 =
					Column Totals: (A) (B)
Herb Stratum (Plot Siz 1. <b>Phalaris arundina</b>		i <u>us</u> ) 100%	Yes	FACW	Prevalence Index = B/A =
2. Solidago canadei		5%	No	FACU	Hydrophytic Vegetation Indicators:
3. Cirsium arvense 4.		5%	No	FACU	X Dominance Test is >50% Prevalence Index is ≤ 3.0¹
5.					Morphological Adaptations <sup>1</sup> (Provide supporting
					data in Remarks or on separate sheet)
7.					Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
8		-			1 Indicators of hydric soil and wetland hydrology must
9. 10.		-			be present, unless disturbed or problematic.
		110%	= Total Cover		
Woody Vine Stratum  1. N/A	(Plot Size: <u>N</u>	N/A )			Hydrophytic Vegetation
2		0%	= Total Cover		Present? Yes X No No
Remarks: (Include phot This is a wet m		on a separate sheet. nmunity dominat		arundinacea .	

SOIL Sampling Point: W9-4a T-1 B(w)

Depth Matrix (inches) Color (moist) 0-8 10YR 3/2 8-18 10YR 5/6  Type: C=Concentration, D=Depletion, RM=Reduced M Hydric Soil Indicators: Histosol (A1) Histo Epipedon (A2)	%         Color (moist)           100         5YR 5/8           100         7.5YR 5/8	Redox Features	C M C M	Texture Silt loam Silty clay		Remarks	
Type: C=Concentration, D=Depletion, RM=Reduced M Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2)	7.5YR 5/8						
Type: C=Concentration, D=Depletion, RM=Reduced M Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2)		15%	C M	Silty clay			
lydric Soil Indicators:  Histosol (A1) Histic Epipedon (A2)	latrix, CS=Covered or Coat						
ydric Soil Indicators: Histosol (A1) Histic Epipedon (A2)	latrix, CS=Covered or Coat						
/dric Soil Indicators: Histosol (A1) Histic Epipedon (A2)	latrix, CS=Covered or Coat						
ydric Soil Indicators:Histosol (A1)Histic Epipedon (A2)	latrix, CS=Covered or Coat						
ydric Soil Indicators: Histosol (A1) Histic Epipedon (A2)	latrix, CS=Covered or Coat						
lydric Soil Indicators:  Histosol (A1) Histic Epipedon (A2)	latrix, CS=Covered or Coat						
Histosol (A1) Histic Epipedon (A2)		ed Sand Grains.		<sup>2</sup> Location: PL=Pore Lini	ng, M=Matrix		
Histic Epipedon (A2)			Indica	ators for Problematic Hyd	dric Soils³:		
	Sandy Gleyed Mat	rix (S4)					
	Sandy Redox (S5)			Coast Prairie Redox (A1	,		
Black Histic (A3)	Stripped Matrix (S6	,		Iron-Manganese Masses	. ,		
Hydrogen Sulfide (A4)	Loamy Mucky Mine	, ,		Other (Explain in Remar	rks)		
Stratified Layers (A5) 2 cm Muck (A10)	Loamy Gleyed Mat Depleted Matrix (F	. ,					
Depleted Below Dark Surface (A11)	X Redox Dark Surfa		3 Indic	ators of hydrophytic vegeta	ation and wetland		
Thick Dark Surface (A12)	Depleted Dark Sur	, ,		drology must be present, u			
Sandy Mucky Mineral (S1)	Redox Depression	, ,		problematic.	micco dictarbod		
5 cm Mucky Peat or Peat (S3)		. ,	-				
Restrictive Layer (if observed):							
Type: Silty clay	_						
Depth (inches): 8	_			Hydric Soil Present?	Yes X	No	
HYDROLOGY							
,	III the et en mile)			Cocondon India	otera (minimum of t	voguirod)	
Primary Indicators (minimum of one is required; check a		(D0)		_	cators (minimum of t		
Primary Indicators (minimum of one is required; check a Surface Water (A1)	Water-Stained Lea	. ,			Surface Soil Cracks	(B6)	
Primary Indicators (minimum of one is required; check a  Surface Water (A1)  High Water Table (A2)	Water-Stained Lea Aquatic Fauna (B1	3)		5	Surface Soil Cracks ( Drainage Patterns (B	(B6) 310)	
Primary Indicators (minimum of one is required; check a  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant	3) s (B14)		S 	Gurface Soil Cracks ( Drainage Patterns (B Dry-Season Water Ta	(B6) B10) able (C2)	
Primary Indicators (minimum of one is required; check a Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant Hydrogen Sulfide (	3) s (B14) Odor (C1)	pots (C3)	S	Surface Soil Cracks ( Drainage Patterns (B Dry-Season Water Ta Crayfish Burrows (C&	(B6) B10) Bable (C2)	
Primary Indicators (minimum of one is required; check a Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant	3) s (B14) Odor (C1) eres on Living Ro	pots (C3)	X C	Surface Soil Cracks ( Drainage Patterns (B Dry-Season Water Ta Crayfish Burrows (C&	(B6) 310) able (C2) 8) Aerial Imagery (C9)	
Primary Indicators (minimum of one is required; check a Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant Hydrogen Sulfide ( Oxidized Rhizosph	3) s (B14) Odor (C1) eres on Living Ro ed Iron (C4)	, ,	X	Surface Soil Cracks ( Drainage Patterns (B Dry-Season Water Ta Crayfish Burrows (C& Saturation Visible on	(B6) 310) able (C2) B) Aerial Imagery (C9) Plants (D1)	
Primary Indicators (minimum of one is required; check a  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)	Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Thin Muck Surface	3) s (B14) Odor (C1) eres on Living Ro ed Iron (C4) tion in Tilled Soils (C7)	, ,	X	Surface Soil Cracks ( Drainage Patterns (B Dry-Season Water To Crayfish Burrows (CE Saturation Visible on Stunted or Stressed	(B6) 310) able (C2) 3) Aerial Imagery (C9) Plants (D1) 1 (D2)	
Primary Indicators (minimum of one is required; check a Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Thin Muck Surface Gauge or Well Dat	3) s (B14) Odor (C1) eres on Living Ro ed Iron (C4) tion in Tilled Soils (C7) a (D9)	, ,	X	Surface Soil Cracks ( Drainage Patterns (B Dry-Season Water T- Crayfish Burrows (C& Saturation Visible on Stunted or Stressed Geomorphic Position	(B6) 310) able (C2) 3) Aerial Imagery (C9) Plants (D1) 1 (D2)	
Primary Indicators (minimum of one is required; check a Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Thin Muck Surface	3) s (B14) Odor (C1) eres on Living Ro ed Iron (C4) tion in Tilled Soils (C7) a (D9)	, ,	X	Surface Soil Cracks ( Drainage Patterns (B Dry-Season Water T- Crayfish Burrows (C& Saturation Visible on Stunted or Stressed Geomorphic Position	(B6) 310) able (C2) 3) Aerial Imagery (C9) Plants (D1) 1 (D2)	
Primary Indicators (minimum of one is required; check a Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)	Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Thin Muck Surface Gauge or Well Dat	3) s (B14) Odor (C1) eres on Living Ro ed Iron (C4) tion in Tilled Soils (C7) a (D9)	, ,	X	Surface Soil Cracks ( Drainage Patterns (B Dry-Season Water T- Crayfish Burrows (C& Saturation Visible on Stunted or Stressed Geomorphic Position	(B6) 310) able (C2) 3) Aerial Imagery (C9) Plants (D1) 1 (D2)	
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)	Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Thin Muck Surface Gauge or Well Dat	3) s (B14) Odor (C1) eres on Living Ro ed Iron (C4) tion in Tilled Soils (C7) a (D9)	, ,	X	Surface Soil Cracks ( Drainage Patterns (B Dry-Season Water T- Crayfish Burrows (C& Saturation Visible on Stunted or Stressed Geomorphic Position	(B6) 310) able (C2) 3) Aerial Imagery (C9) Plants (D1) 1 (D2)	
Primary Indicators (minimum of one is required; check a  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Present?  Ves	Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant Hydrogen Sulfide C Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in Reco	3) s (B14) Odor (C1) eres on Living Ro ed Iron (C4) tion in Tilled Soils (C7) a (D9)	, ,	X	Surface Soil Cracks of Drainage Patterns (Bory-Season Water Torayfish Burrows (CE Saturation Visible on Stunted or Stressed Geomorphic Position FAC-Neutral Test (December 2017)	(B6) 310) able (C2) 3) Aerial Imagery (C9) Plants (D1) 1 (D2)	

Oak Creek/ City/County: Milwaukee IH-94 Mainline Sampling Date: 9/17/2009 Project/Site: Applicant/Owner: WDOT State: WI Sampling Point: W9-5 T-1 A(u) Eric C. Parker Section, Township, Range: Section 19, T5N R22E Investigator(s): Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Datum: NA Slope (%): 5% Lat: See Fig. 2 Long: See Fig. 2 Soil Map Unit Name: Blount silt loam (BIA) WWI Classification: None Are climatic / hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks) Are Vegetation Soil \_significantly disturbed? Are "Normal Circumstances" present? or Hydrology Are Vegetation Soil or Hydrology naturally problematic? (if needed, explain any answers in Remarks) SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes No х Is the Sampled Area No \_\_\_ Wetland Hydrology Present? No Х within a Wetland? Yes Remarks: This upland area is adjacent to an excavated pond. The site, however, appears to have stabilized some decades ago. VEGETATION - Use scientific names for plants Absolute % Indicator **Dominance Test Worksheet:** Free Stratum (Plot Size: 30 ft. radius ) Number of Dominant Species Juglans nigra **FACU** That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species Across All Strata: (B) 80% = Total Cover Percent of Dominant Species That Are OBL, FACW, or FAC: \_(A/B) Sapling/Shrub Stratum (Plot Size: Prevalence Index Worksheet: 1. N/A Total % Cover of: Multiply by: OBL species FACW species 40 20% x 2 = 315 FAC species 105% x 3 = FACU species 85% 340 = Total Cover **UPL** species 15% x 5 75 Column Totals: 225% (A) 770 Herb Stratum (Plot Size: 5 ft. radius Prevalence Index = B/A = 3.42 Phalaris arundinacea 20% **FACW** Poa pratensis 90% FAC Hydrophytic Vegetation Indicators: 3. Arctium minus UPL Dominance Test is >50% Prevalence Index is ≤ 3.01 Geum canadense No FAC 15% Morphological Adaptations<sup>1</sup> (Provide supporting Elytrigia repens FACL data in Remarks or on separate sheet) Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 145% = Total Cover Woody Vine Stratum (Plot Size: N/A Hydrophytic 1. N/A Vegetation Present? No X Yes = Total Cover 0% Remarks: (Include photo numbers here or on a separate sheet.) This is an upland, mowed lawn plant community. Small quantities of Phalaris arundinacea present due to proximity to adjacent wetland.

SOIL Sampling Point: W9-5 T-1 A(u)

Depth (inches)	Matrix Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Ren	narks	
0-6	10YR 3/2	100	None				Silt loam			
6-12	10YR 3/2	75	None				Silt loam			
6-12	10YR 4/2	25	None				Silty clay loam			
12-18	10YR 5/3	100	10YR 4/4	2%	С	М	Silty clay loam	-		
	101110/0	100		<b>L</b> /0			only only roun.			
								-		
Type: C=Concentra	ation, D=Depletion, RM=Reduc	ed Matrix, CS	S=Covered or Coat	ed Sand Gr	ains.		<sup>2</sup> Location: PL=Pore Lining	g, M=Matrix		
Hydric Soil Indicate	ors:					Indica	ators for Problematic Hydr	ric Soils <sup>3</sup> :		
Histosol (A1)			Sandy Gleyed Mate	rix (S4)						
Histic Epipedon	(A2)		Sandy Redox (S5)	` '			_Coast Prairie Redox (A16	6)		
Black Histic (A3			Stripped Matrix (S6	6)			Iron-Manganese Masses	(F12)		
Hydrogen Sulfic	de (A4)		Loamy Mucky Mine	eral (F1)			Other (Explain in Remark	s)		
Stratified Layers	• •		Loamy Gleyed Mat	. ,						
2 cm Muck (A10			Depleted Matrix (F:			2				
	Dark Surface (A11)		Redox Dark Surfa				ators of hydrophytic vegetat			
Thick Dark Surf	. ,		Depleted Dark Sur	. ,			drology must be present, un	lless disturbed		
Sandy Mucky M			Redox Depressions	s (F8)		or	problematic.			
5 cm Mucky Pe	, ,									
Restrictive Layer (i	f observed):									
Type: N/A	N/A									
Depth (inches):	N/A						Hydric Soil Present?	Yes	No <u>X</u>	
Remarks:					<u> </u>					
HYDROLOGY Wetland Hydrology		eck all that ap	oply)				Secondary Indica	ators (minimum of two re	equired)	
Wetland Hydrology Primary Indicators (r Surface Water (a High Water Tab Saturation (A3) Water Marks (B	r Indicators: ninimum of one is required; ch (A1) lel (A2)		Water-Stained Lea Aquatic Fauna (B1: True Aquatic Plant: Hydrogen Sulfide (	3) s (B14) Odor (C1)	ina Roots (C	3)	St. Dr Dr	urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table rayfish Burrows (C8)	(C2)	
HYDROLOGY  Wetland Hydrology Primary Indicators (r Surface Water ( High Water Tab Saturation (A3)	Indicators: ninimum of one is required; ch (A1) le (A2) 11) sits (B2)		Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant	3) s (B14) Odor (C1) eres on Livi		:3)	StSt	urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table	(C2) al Imagery (C9)	
Wetland Hydrology Primary Indicators (r Surface Water ( High Water Tab Saturation (A3) Water Marks (B Sediment Depo	r Indicators: minimum of one is required; ch (A1) ale (A2) (1) sits (B2) (33)		Water-Stained Lea Aquatic Fauna (B1: True Aquatic Plant: Hydrogen Sulfide ( Oxidized Rhizosph	3) s (B14) Odor (C1) eres on Livi ced Iron (C4	)	3)	St. St.	urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table rayfish Burrows (C8) aturation Visible on Aeria	(C2) al Imagery (C9) ts (D1)	
HYDROLOGY  Wetland Hydrology Primary Indicators (r Surface Water (1) High Water Tab Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (E Algal Mat or Cru Iron Deposits (E	r Indicators: minimum of one is required; ch (A1) le (A2) .1) sits (B2) 33) ust (B4)		Water-Stained Lea Aquatic Fauna (B1: True Aquatic Plant: Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Thin Muck Surface	3) s (B14) Ddor (C1) eres on Livi ced Iron (C4 tion in Tilled (C7)	)	3)	St. St. Ge	urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table rayfish Burrows (C8) aturation Visible on Aeri unted or Stressed Plant	(C2) al Imagery (C9) ts (D1)	
Metland Hydrology Primary Indicators (r Surface Water ( High Water Tab Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (E Algal Mat or Cru Iron Deposits (E Inundation Visib	r Indicators: minimum of one is required; ch A1) ele (A2) 11) sits (B2) 33) ust (B4) 35) ele on Aerial Imagery (B7)		Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant Hydrogen Sulfide C Oxidized Rhizoze Presence of Reduc Recent Iron Reduc Thin Muck Surface Gauge or Well Dat	3) s (B14) Odor (C1) eres on Livi ced Iron (C4 tion in Tilled (C7) a (D9)	)	3)	St. St. Ge	urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table rayfish Burrows (C8) atturation Visible on Aeriunted or Stressed Planteomorphic Position (D2)	(C2) al Imagery (C9) ts (D1)	
Wetland Hydrology Primary Indicators (r Surface Water ( High Water Tab Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (E Algal Mat or Cru Iron Deposits (E Inundation Visib	r Indicators: minimum of one is required; ch (A1) le (A2) .1) sits (B2) 33) ust (B4)		Water-Stained Lea Aquatic Fauna (B1: True Aquatic Plant: Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Thin Muck Surface	3) s (B14) Odor (C1) eres on Livi ced Iron (C4 tion in Tilled (C7) a (D9)	)	:3)	St. St. Ge	urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table rayfish Burrows (C8) atturation Visible on Aeriunted or Stressed Planteomorphic Position (D2)	(C2) al Imagery (C9) ts (D1)	
Wetland Hydrology Primary Indicators (r Surface Water ( High Water Tab Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (E Algal Mat or Cru Iron Deposits (E Inundation Visib	r Indicators: minimum of one is required; ch (A1) lle (A2) (A1) sits (B2) (B3) sits (B4) (B5) ble on Aerial Imagery (B7) ated Concave Surface (B8)		Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant Hydrogen Sulfide C Oxidized Rhizoze Presence of Reduc Recent Iron Reduc Thin Muck Surface Gauge or Well Dat	3) s (B14) Odor (C1) eres on Livi ced Iron (C4 tion in Tilled (C7) a (D9)	)	33)	St. St. Ge	urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table rayfish Burrows (C8) atturation Visible on Aeriunted or Stressed Planteomorphic Position (D2)	(C2) al Imagery (C9) ts (D1)	
HYDROLOGY  Wetland Hydrology Primary Indicators (r Surface Water (A) High Water Tab Saturation (A3) Water Marks (B) Sediment Depo Drift Deposits (E) Algal Mat or Cru Iron Deposits (E) Inundation Visit Sparsely Vegeti	Indicators: minimum of one is required; ch (A1) le (A2) 1) sits (B2) 33) ust (B4) 35) ble on Aerial Imagery (B7) ated Concave Surface (B8)		Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant Hydrogen Sulfide C Oxidized Rhizoze Presence of Reduc Recent Iron Reduc Thin Muck Surface Gauge or Well Dat	3) s (B14) Odor (C1) eres on Livi ced Iron (C4 tion in Tilled (C7) a (D9)	)	3)	St. St. Ge	urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table rayfish Burrows (C8) atturation Visible on Aeriunted or Stressed Planteomorphic Position (D2)	(C2) al Imagery (C9) ts (D1)	
Wetland Hydrology Primary Indicators (r Surface Water ( High Water Tab Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (E Algal Mat or Cr. Iron Deposits (E Inundation Visit Sparsely Veget: Field Observations Surface Water Present	Indicators: minimum of one is required; ch (A1) le (A2) 11) sits (B2) 33) ust (B4) 35) le on Aerial Imagery (B7) ated Concave Surface (B8) : ent? Yes	No <u>X</u>	Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant: Hydrogen Sulfide C Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Thin Muck Surface Gauge or Well Dat: Other (Explain in R	3) s (B14) Odor (C1) eres on Livi ced Iron (C4 tion in Tilled (C7) a (D9)	)	33)	Sl   Dr   Dr   Cr   Se   St   GG	urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table rayfish Burrows (C8) atturation Visible on Aeria unted or Stressed Plant eomorphic Position (D2) AC-Neutral Test (D5)	(C2) al Imagery (C9) ts (D1)	
HYDROLOGY  Wetland Hydrology Primary Indicators (r Surface Water ( High Water Tab Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (E Algal Mat or Cru Iron Deposits (E Inundation Visits Sparsely Vegets Field Observations Surface Water Present Saturation Present Saturation Present	r Indicators: minimum of one is required; ch (A1) le (A2) (1) sits (B2) 33) ust (B4)	No_X	Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant Hydrogen Sulfide C Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in R	3) s (B14) Odor (C1) eres on Livi ced Iron (C4 tion in Tilled (C7) a (D9)	)	33)	St. St. Ge	urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table rayfish Burrows (C8) atturation Visible on Aeria unted or Stressed Plant eomorphic Position (D2) AC-Neutral Test (D5)	(C2) al Imagery (C9) ts (D1)	No
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Mytheraction of the state of th	r Indicators: ninimum of one is required; ch (A1) le (A2) 1) sits (B2) 33) sit (B4) 35) le on Aerial Imagery (B7) ated Concave Surface (B8) : ent? Yes 1? Yes 1? Yes Inge) Data (stream gauge, monitorin	No X No X No X	Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant Hydrogen Sulfide (C Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in R  Depth (inches):_ Depth (inches):_ Depth (inches):_	3) s (B14) bdor (C1) eres on Livi eres on Livi etion in Tilleo (C7) a (D9) etemarks)	d Soils (C6)	:3)	Sl   Dr   Dr   Cr   Se   St   GG	urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table rayfish Burrows (C8) atturation Visible on Aeria unted or Stressed Plant eomorphic Position (D2) AC-Neutral Test (D5)	(C2) al Imagery (C9) ts (D1)	No
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Oak Creek/

City/County: Milwaukee IH-94 Mainline Sampling Date: 9/17/2009 Project/Site: Applicant/Owner: WDOT State: WI Sampling Point: W9-5 T-1 B(w) Investigator(s): Eric C. Parker Section, Township, Range: Section 19, T5N R22E Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): Concave Slope (%): 2% Datum: NA Lat: See Fig. 2 Long: See Fig. 2 Soil Map Unit Name: Ashkum silty clay loam (AsA) WWI Classification: W0Hx directly west of sample point Are climatic / hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks) or Hydrology Are "Normal Circumstances" present? Soil significantly disturbed? Are Vegetation Are Vegetation Soil or Hydrology naturally problematic? (if needed, explain any answers in Remarks) SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes X Hydric Soil Present? Yes X No Is the Sampled Area Yes X No \_\_\_ Wetland Hydrology Present? Х Yes No within a Wetland? Remarks: This is a Phalaris arundinacea dominated wet meadow fringe along an excavated pond. This wetland extends into the ditch along I-94. VEGETATION - Use scientific names for plants Absolute % Dominant Indicator **Dominance Test Worksheet:** Tree Stratum (Plot Size: N/A Number of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species Across All Strata: (B) 0% = Total Cover Percent of Dominant Species That Are OBL, FACW, or FAC: 100% \_(A/B) Sapling/Shrub Stratum (Plot Size: Prevalence Index Worksheet: ) 1. **N/A** Total % Cover of Multiply by: OBL species FACW species x 2 = FAC species x 3 = **FACU** species x 4 = x 5 -= Total Cover UPL species Column Totals: (A) (B) Herb Stratum (Plot Size: 5 ft. radius Prevalence Index = B/A = 1. Phalaris arundinacea **Hydrophytic Vegetation Indicators:** Dominance Test is >50% Prevalence Index is ≤ 3.01 Morphological Adaptations<sup>1</sup> (Provide supporting 6. data in Remarks or on separate sheet) Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) 8. 1 Indicators of hydric soil and wetland hydrology must 10 be present, unless disturbed or problematic. 100% = Total Cover Woody Vine Stratum N/A ) Hydrophytic 1. N/A Vegetation Present? No = Total Cover 0% Remarks: (Include photo numbers here or on a separate sheet.) This is a Phalaris arundinacea dominated wet meadow fringe along an excavated pond. This wetland extends into the ditch along I-94.

SOIL Sampling Point: W9-5 T-1 B(w)

SOIL								Sampling	) Point: <b>W9-5</b>	1-1 B(W)
Profile Description: (D	Describe to the depth nee	ded to docum	ent the indicate	or or confirm	the abse	ence of i	ndicators.)			
Donth	Matrix	aca to accam		Redox Featu			naioatoro.,			
Depth (inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Re	emarks	
				/0	туре	LUC		110	marks	
0-8	10YR 2/1	100	None				Silt loam			
8-13	10YR 3/1	100	10YR 4/6	10%	С	PL/M	Silty clay loam			
13-17	10YR 4/1	100	10YR 4/6	15%	С	М	Silty clay			
		· <u></u>						<u> </u>		
								-		
4							2			
Type: C=Concentration	n, D=Depletion, RM=Reduc	ed Matrix, CS	=Covered or Coa	ated Sand Gr	ains.		<sup>2</sup> Location: PL=Pore Lini	ng, M=Matrix		
Hydric Soil Indicators:						Indicat	ors for Problematic Hyd	dric Soils <sup>3</sup> :		
Histosol (A1)		S	andy Gleyed Ma	trix (S4)			•			
Histic Epipedon (A2	2)		Sandy Redox (S5				Coast Prairie Redox (A1	6)		
Black Histic (A3)			Stripped Matrix (S				Iron-Manganese Masses			
Hydrogen Sulfide (A	A4)	L	oamy Mucky Mir	neral (F1)			Other (Explain in Remar	ks)		
Stratified Layers (A	5)		oamy Gleyed Ma	atrix (F2)						
2 cm Muck (A10)		<u> </u>	Depleted Matrix (I	F3)						
Depleted Below Da	rk Surface (A11)	X	Redox Dark Surfa	ace (F6)		3 Indica	tors of hydrophytic vegeta	ation and wetland		
X Thick Dark Surface	(A12)	D	epleted Dark Su	ırface (F7)		hyd	rology must be present, u	nless disturbed		
Sandy Mucky Mine	ral (S1)	R	Redox Depression	ns (F8)		or p	roblematic.			
5 cm Mucky Peat o	r Peat (S3)									
Restrictive Layer (if ob	served).				1					
Type: Silty clay	•									
							Undeia Cail Decame	V V	N-	
Depth (inches):	13						Hydric Soil Present?	Yes X	No	•
Remarks:										
Soils are dry.										
HYDROLOGY										
Matter dilledes la mules	dit									
Wetland Hydrology Inc							0			
	mum of one is required; ch						•	ators (minimum of two		
Surface Water (A1)			Vater-Stained Le					Surface Soil Cracks (B6		
High Water Table (	A2)		quatic Fauna (B	,				Orainage Patterns (B10)		
Saturation (A3)			rue Aquatic Plan					Ory-Season Water Table	э (C2)	
Water Marks (B1)			lydrogen Sulfide	. ,				Crayfish Burrows (C8)		
Sediment Deposits	(B2)		Oxidized Rhizosp			(C3)		Saturation Visible on Ae		<del>)</del> )
Drift Deposits (B3)			resence of Redu	,	•			Stunted or Stressed Plan	, ,	
Algal Mat or Crust (	(B4)		Recent Iron Redu		d Soils (C6	5)		Reomorphic Position (D	2)	
Iron Deposits (B5)			hin Muck Surfac	. ,			<u> </u>	AC-Neutral Test (D5)		
	on Aerial Imagery (B7)		auge or Well Da							
Sparsely Vegetated	d Concave Surface (B8)	c	Other (Explain in	Remarks)						
Field Observations:										
Surface Water Present?		No X	Depth (inches):		-					
Water Table Present?	Yes	No X	Depth (inches):		-					
Saturation Present? (includes capillary fringe	Yes	No X	Depth (inches):		-		Wetland Hydrology Pre	esent?	Yes X	No
(includes capillary ininge	3)					1			,	
Describe Recorded Data	a (stream gauge, monitoring	g well, aerial p	hotos, previous i	inspections),	if available	э:				
Remarks:										
Conditions are	drv.									
	<del>-</del> .,.									
				_						

WETLAND DETERMINATION DATA FORM - Midwest Region Oak Creek/ Sampling Date: 9/9/2009 Project/Site: IH-94 Mainline City/County: Milwaukee Sampling Point: W9-6 T-1 C(w) Applicant/Owner: WDOT State: WI Investigator(s): Julie A. Paschal Section, Township, Range: Section 20, T5N R22E Wetland drainage swale Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): Concave Slope (%): 0-2% Lat: See Fig. 2 Long: See Fig. 2 Datum: NA Soil Map Unit Name: Ashkum silty clay loam (AsA) WWI Classification: E2H Are climatic / hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks) Soil \_\_\_\_\_ or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Are Vegetation Yes X or Hydrology Are Vegetation Soil naturally problematic? (if needed, explain any answers in Remarks) SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc. Yes X Hydrophytic Vegetation Present? No Hydric Soil Present? Yes X No Is the Sampled Area Yes X No Yes\_ Х Wetland Hydrology Present? No within a Wetland? Remarks: This is a shallow marsh wetland within a drainage area at the Ryan Road interchange. **VEGETATION** - Use scientific names for plants.

Tree Stratum (Plot Size: N/A	)	Absolute %	Dominant Species	Indicator Status	Dominance Test Worksheet:  Number of Dominant Species
1. <b>N/A</b> 2.					That Are OBL, FACW, or FAC: 2 (A)
3. 4.					Total Number of Dominant Species Across All Strata:(B)
5		0%	= Total Cover		Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
Sapling/Shrub Stratum (Plot Size: 1. N/A	N/A	)			Prevalence Index Worksheet: Total % Cover of: Multiply by:
2.	_				OBL species
5.		0%	= Total Cover		FACU species
Herb Stratum (Plot Size: 5 ft.  1. Typha angustifolia	radius	) <b>80%</b>	Yes	OBL	Column Totals: (A) (B)  Prevalence Index = B/A =
Verbena hastata     Bidens frondosa     Phalaris arundinacea		10% 5% 25%	No No Yes	FACW FACW FACW	Hydrophytic Vegetation Indicators:  X Dominance Test is >50%  Prevalence Index is ≤ 3.0¹
5. <i>Cirsium arvense</i> 6. 7.		5%	No No	FACU	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on separate sheet)  Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
8		125%	= Total Cover		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot Size:		)			Hydrophytic Vegetation Present? Yes X No
2.					

SOIL Sampling Point: W9-6 T-1 C(w)

(inches) <b>0-6</b>	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	R	emarks	
	N2.5/1	100	None	70	1,00		Fiberic muck		omano	
6-18	2.5Y 7/1	100	2.5Y5/6	5%	С	М	Silty clay loam			
							<u> </u>			
Type: C=Concentration	n, D=Depletion, RM=Reduc	ed Matrix, CS	S=Covered or Coate	ed Sand Gr	ains.		<sup>2</sup> Location: PL=Pore Lining	ı, M=Matrix		
Hydric Soil Indicators:	:					Indica	tors for Problematic Hydri	ic Soils <sup>3</sup> :		
Histosol (A1)			Sandy Gleyed Matr	ix (S4)						
Histic Epipedon (A2	2)		Sandy Redox (S5)				_ Coast Prairie Redox (A16)			
Black Histic (A3) Hydrogen Sulfide (A4)			Stripped Matrix (S6				_ Iron-Manganese Masses (			
_ Hydrogen Sulfide (A4) _ Stratified Layers (A5)			Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2)				Other (Explain in Remarks	5)		
X 2 cm Muck (A10)	10)		Depleted Matrix (F3	. ,						
X Depleted Below Da	ark Surface (A11)		Redox Dark Surfac			3 Indic	ators of hydrophytic vegetati	on and wetland		
Thick Dark Surface			Depleted Dark Surf				drology must be present, unle			
Sandy Mucky Mine	, ,		Redox Depressions	. ,			problematic.			
5 cm Mucky Peat o			,							
Restrictive Layer (if ob	oserved):									
Type: N/A	N/A						Hydric Soil Present?	V V	N-	
Depth (inches):	N/A						nyaric Soil Present?	Yes X	No	
Surface Water (A1) High Water Table ( X Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible of	imum of one is required; ch ) A2) (B2)	<u>x</u>	Doply) Water-Stained Leax Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduct Recent Iron Reduct Thin Muck Surface Gauge or Well Data Other (Explain in Re	B) (B14) (dor (C1) eres on Livi ed Iron (C4) ion in Tilled (C7) (C9)	)	3)	X Dra Dry Cra Sat Stu Ge	tors (minimum of two rface Soil Cracks (Bra inage Patterns (B10 r-Season Water Tab ayfish Burrows (C8) turation Visible on Ar inted or Stressed Pla omorphic Position (I C-Neutral Test (D5)	(S) (I) (I) (I) (I) (I) (I) (I) (I) (I) (I	_
Field Observations:										
Surface Water Present?	? Yes	No X	Depth (inches):							
Water Table Present?	Yes X	No	Depth (inches):	6						
Saturation Present? includes capillary fringe	Yes X	No	Depth (inches):	0	•		Wetland Hydrology Pres	ent?	Yes X	No
	a (stream gauge, monitorin wale observed on the a			spections),	if available:					

Oak Creek/ City/County: Milwaukee IH-94 Mainline Sampling Date: <u>9/9/2009</u> Project/Site: Applicant/Owner: WDOT State: WI Sampling Point: W9-6/W9-7 T-1 B(u) Julie A. Paschal Section, Township, Range: Section 20, T5N R22E Investigator(s): Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Lat: See Fig. 2 Long: See Fig. 2 Slope (%): 10% Datum: NA Soil Map Unit Name: Blount silt loam (BIA) WWI Classification: None Are climatic / hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks) Are Vegetation Soil \*X or Hydrology significantly disturbed? Are "Normal Circumstances" present? Are Vegetation Soil \_\_\_\_\_ or Hydrology naturally problematic? (if needed, explain any answers in Remarks) SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Nο Х Is the Sampled Area \_\_\_\_ No\_\_\_\_ Wetland Hydrology Present? No within a Wetland? Х Yes \* Soils are disturbed and contain fill material due to historic construction of IH-94. VEGETATION - Use scientific names for plants. Absolute % Indicator Dominance Test Worksheet: Free Stratum (Plot Size: N/A Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: (B) = Total Cover Percent of Dominant Species That Are OBL, FACW, or FAC: 33% (A/B) Sapling/Shrub Stratum (Plot Size: Prevalence Index Worksheet: N/A 1. N/A Total % Cover of: Multiply by: OBL species FACW species x 2 = FAC species 30% x 3 = 90 FACU species 316 79% x 4 = = Total Cover UPL species x 5 406 109% Column Totals: Herb Stratum (Plot Size: 5 ft. radius Prevalence Index = B/A = 3.72 1. Cirsium arvense FACU 2. Melilotus alba No FACU Hydrophytic Vegetation Indicators: 3. Erechtites hieraciifolia FACU Dominance Test is >50% Prevalence Index is ≤ 3.01 4. Poa pratensis Yes FAC Morphological Adaptations<sup>1</sup> (Provide supporting 5. Festuca elation 25% FACU data in Remarks or on separate sheet) Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) 1 Indicators of hydric soil and wetland hydrology must 10 be present, unless disturbed or problematic. 109% = Total Cover Woody Vine Stratum (Plot Size: N/A Hydrophytic 1. **N/A** Vegetation No X Present? Yes = Total Cover

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

This is an upland, roadside plant community.

SOIL Sampling Point: W9-6/W9-7 T-1 B(u)

-	: (Describe to the depth no			Dodoy Foot							
Depth (inches)	Color (moist)	%	Color (moist)	Redox Feat %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	В	Remarks		
0-4	10YR 3/3	100	None	70	.,,,,	200	Silt loam				
4-18	10YR 4/2	70	10YR 4/6	10%	С	М	Silty clay loam	Mixed matrix			
4-18	10YR 5/3		10YR 4/6		c	M		Mixed matrix			
4-10	10 TH 5/3	30	10 f h 4/0	10%	· ·	IVI	Silty clay loam	Mixed matrix			
		. —									
<sup>1</sup> Type: C=Concentra	ation, D=Depletion, RM=Red	uced Matrix, CS	S=Covered or Coat	ted Sand Gra	ains.		<sup>2</sup> Location: PL=Pore I	_ining, M=Matrix			
Hydric Soil Indicate	ors:					Indica	tors for Problematic	Hydric Soils <sup>3</sup> :			
Histosol (A1)			Sandy Gleyed Mat	, ,							
Histic Epipedon	• •		Sandy Redox (S5)				_Coast Prairie Redox				
Black Histic (A3	•		Stripped Matrix (Se	,			_ Iron-Manganese Mas				
Hydrogen Sulfic			Loamy Mucky Mine				Other (Explain in Rer	narks)			
Stratified Layers 2 cm Muck (A10	, ,		Loamy Gleyed Mat Depleted Matrix (F								
	v Dark Surface (A11)		Depleted Matrix (F Redox Dark Surfa			3 Indic	ators of hydrophytic ve	netation and wetland			
Thick Dark Surf			Depleted Dark Sur				drology must be presen				
Sandy Mucky M	, ,		Redox Depression	. ,			oroblematic.	i, uniess disturbed			
5 cm Mucky Pe			Todox Depression	(i 0)		01	orobiomatio.				
Restrictive Layer (i	if observed):										
Type: N/A											
Depth (inches):	N/A					,	Hydric Soil Present?	Yes	No <u>X</u>		
Fill material/											
i iii iiiateilai/i											
HYDROLOGY											
	y Indicators:										
HYDROLOGY Wetland Hydrology	y Indicators: minimum of one is required; o	check all that ap	nply)				Secondary Ir	ndicators (minimum of t	two required)		
HYDROLOGY Wetland Hydrology Primary Indicators (r	minimum of one is required;			aves (B9)			-				
HYDROLOGY Wetland Hydrology Primary Indicators (r	minimum of one is required; (A1)		Water-Stained Lea				;	Surface Soil Cracks (B	6)		
HYDROLOGY Wetland Hydrology Primary Indicators (r	(A1) DIE (A2)	<u> </u>		3)					6) 0)		
HYDROLOGY  Wetland Hydrology Primary Indicators (r Surface Water High Water Tab	minimum of one is required; of (A1)  ole (A2)	<u></u>	Water-Stained Lea Aquatic Fauna (B1	3) s (B14)				Surface Soil Cracks (Bourlands) Drainage Patterns (B10)	6) 0)		
HYDROLOGY  Wetland Hydrology Primary Indicators (r Surface Water High Water Tab Saturation (A3)	minimum of one is required; (A1) ole (A2)		Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant	3) s (B14) Odor (C1)	ng Roots (C	3)		Surface Soil Cracks (Bo Drainage Patterns (B10 Dry-Season Water Tab	6) 0) ole (C2)		
HYDROLOGY  Wetland Hydrology Primary Indicators (r Surface Water High Water Tat Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (I	minimum of one is required; (A1) ole (A2) B1) ssits (B2) B3)		Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc	3) ss (B14) Odor (C1) neres on Livin ced Iron (C4)	)	3)		Surface Soil Cracks (B Drainage Patterns (B10 Dry-Season Water Tab Crayfish Burrows (C8) Saturation Visible on A Stunted or Stressed Pla	6) D) ele (C2) erial Imagery (C9) ants (D1)	_	
HYDROLOGY  Wetland Hydrology Primary Indicators (r Surface Water High Water Tab Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (I Algal Mat or Cri	minimum of one is required; (A1) ole (A2) B1) osits (B2) B3) ust (B4)		Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc Recent Iron Reduc	3) ss (B14) Odor (C1) neres on Livin ced Iron (C4) ction in Tilled	)	3)		Surface Soil Cracks (B Drainage Patterns (B10 Dry-Season Water Tab Crayfish Burrows (C8) Saturation Visible on A Stunted or Stressed Pla Geomorphic Position (I	6) D) ele (C2) erial Imagery (C9) ants (D1)	_	
HYDROLOGY  Wetland Hydrology Primary Indicators (r Surface Water High Water Tab Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (I Algal Mat or Cri Iron Deposits (E	minimum of one is required; (A1) cole (A2) 31) cosits (B2) B3) ust (B4) B5)		Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Thin Muck Surface	3) Is (B14) Odor (C1) Incres on Living Ced Iron (C4) Otton in Tilled Otto (C7)	)	3)		Surface Soil Cracks (B Drainage Patterns (B10 Dry-Season Water Tab Crayfish Burrows (C8) Saturation Visible on A Stunted or Stressed Pla	6) D) ele (C2) erial Imagery (C9) ants (D1)		
HYDROLOGY  Wetland Hydrology Primary Indicators (r Surface Water High Water Tat Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (I Algal Mat or Crr Iron Deposits (I Inundation Visit	minimum of one is required; (A1) cole (A2) (B1) (B3) (B3) (B4) (B5) (B6) (B7) (B7) (B7) (B7) (B7) (B7) (B7) (B7		Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant Hydrogen Sulfide Oxidized Rhizoseh Presence of Reduc Recent Iron Reduc Thin Muck Surface Gauge or Well Dat	3) ss (B14) Odor (C1) neres on Livin ced Iron (C4) ction in Tilled e (C7) ca (D9)	)	3)		Surface Soil Cracks (B Drainage Patterns (B10 Dry-Season Water Tab Crayfish Burrows (C8) Saturation Visible on A Stunted or Stressed Pla Geomorphic Position (I	6) D) ele (C2) erial Imagery (C9) ants (D1)		
HYDROLOGY  Wetland Hydrology Primary Indicators (r Surface Water High Water Tat Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (I Algal Mat or Crr Iron Deposits (I Inundation Visit	minimum of one is required; (A1) cole (A2) 31) cosits (B2) B3) ust (B4) B5)		Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Thin Muck Surface	3) ss (B14) Odor (C1) neres on Livin ced Iron (C4) ction in Tilled e (C7) ca (D9)	)	3)		Surface Soil Cracks (B Drainage Patterns (B10 Dry-Season Water Tab Crayfish Burrows (C8) Saturation Visible on A Stunted or Stressed Pla Geomorphic Position (I	6) D) ele (C2) erial Imagery (C9) ants (D1)		
HYDROLOGY  Wetland Hydrology Primary Indicators (r Surface Water High Water Tab Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (f Algal Mat or Cri Iron Deposits (f Inundation Visit Sparsely Veget  Field Observations	minimum of one is required; (A1) ole (A2) B1) ssits (B2) B3) ust (B4) B5) ble on Aerial Imagery (B7) tated Concave Surface (B8)		Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in F	3) ss (B14) Odor (C1) neres on Livin ced Iron (C4) ction in Tilled e (C7) ca (D9)	)	3)		Surface Soil Cracks (B Drainage Patterns (B10 Dry-Season Water Tab Crayfish Burrows (C8) Saturation Visible on A Stunted or Stressed Pla Geomorphic Position (I	6) D) ele (C2) erial Imagery (C9) ants (D1)		
HYDROLOGY  Wetland Hydrology Primary Indicators (r Surface Water I High Water Tate Saturation (A3) Water Marks (B Sediment Deposits (I Algal Mat or Cri Iron Deposits (I Inundation Visit Sparsely Veget  Field Observations Surface Water Presi	minimum of one is required; of (A1) cole (A2) (B1) cole (B2) (B3) cole (B4) (B5) cole (B5) (B5) cole (B6) (B6) (B7) cole (B8) (B7) cole (B7) (B7) cole (B7) (B7) (B7) (B7) (B7) (B7) (B7) (B7)		Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in F	3) Is (B14) Odor (C1) Ineres on Livin Ced Iron (C4) Stion in Tilled (C7) Is (D9) Remarks)	)	33)		Surface Soil Cracks (B Drainage Patterns (B10 Dry-Season Water Tab Crayfish Burrows (C8) Saturation Visible on A Stunted or Stressed Pla Geomorphic Position (I	6) D) ele (C2) erial Imagery (C9) ants (D1)		
HYDROLOGY  Wetland Hydrology Primary Indicators (r Surface Water Tab Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (I Algal Mat or Cr Iron Deposits (I Inundation Visit Sparsely Veget Field Observations Surface Water Presen	minimum of one is required; of (A1) cole (A2) (B1) cosits (B2) (B3) cosits (B4) (B5) (B5) (B6) (B6) (B7) (B7) (B7) (B7) (B7) (B7) (B7) (B7	No X No X	Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in F  Depth (inches): Depth (inches):	3) is (B14) Odor (C1) neres on Livit ced Iron (C4) stion in Tilled c (C7) ia (D9) Remarks)	)	3)		Surface Soil Cracks (B Drainage Patterns (B10 Dry-Season Water Tab Crayfish Burrows (C8) Saturation Visible on A Stunted or Stressed Pla Geomorphic Position (I FAC-Neutral Test (D5)	6) D) Ile (C2) erial Imagery (C9) ants (D1) D2)		
HYDROLOGY  Wetland Hydrology Primary Indicators (r Surface Water I High Water Tate Saturation (A3) Water Marks (B Sediment Deposits (I Algal Mat or Cri Iron Deposits (I Inundation Visit Sparsely Veget  Field Observations Surface Water Presi	minimum of one is required; of (A1) ole (A2) B31) ssits (B2) B3) ust (B4) B5) ble on Aerial Imagery (B7) tated Concave Surface (B8) s: ent? Yes trees Yes Yes		Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in F	3) is (B14) Odor (C1) neres on Livit ced Iron (C4) stion in Tilled c (C7) ia (D9) Remarks)	)	33)		Surface Soil Cracks (B Drainage Patterns (B10 Dry-Season Water Tab Crayfish Burrows (C8) Saturation Visible on A Stunted or Stressed Pla Geomorphic Position (I FAC-Neutral Test (D5)	6) D) ele (C2) erial Imagery (C9) ants (D1)	No	
HYDROLOGY  Wetland Hydrology Primary Indicators (r Surface Water I High Water Tat Saturation (A3) Water Marks (E Sediment Depo Drift Deposits (I Algal Mat or Cr I ron Deposits (E Inundation Visit Sparsely Veget Field Observations Surface Water Prese Water Table Presen Saturation Present? (includes capillary fr	minimum of one is required; of (A1) ole (A2) B31) ssits (B2) B3) ust (B4) B5) ble on Aerial Imagery (B7) tated Concave Surface (B8) s: ent? Yes trees Yes Yes	No X No X No X	Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in F  Depth (inches): Depth (inches):	3) s (B14) Odor (C1) neres on Livin ced Iron (C4) stion in Tilled c (C7) sa (D9) Remarks)	) I Soils (C6)	33)		Surface Soil Cracks (B Drainage Patterns (B10 Dry-Season Water Tab Crayfish Burrows (C8) Saturation Visible on A Stunted or Stressed Pla Geomorphic Position (I FAC-Neutral Test (D5)	6) D) Ile (C2) erial Imagery (C9) ants (D1) D2)	No	x
HYDROLOGY  Wetland Hydrology Primary Indicators (r Surface Water High Water Tab Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (f Algal Mat or Cri Iron Deposits (f Inundation Visit Sparsely Veget Field Observations Surface Water Table Presen Saturation Present? (includes capillary fr Describe Recorded	minimum of one is required; (A1) ole (A2)  B1) sits (B2) B3) ust (B4) B5) ble on Aerial Imagery (B7) tated Concave Surface (B8)  s: ent? Yes tt? Yes ringe)	No X No X No X	Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in F  Depth (inches): Depth (inches):	3) s (B14) Odor (C1) neres on Livin ced Iron (C4) stion in Tilled c (C7) sa (D9) Remarks)	) I Soils (C6)	33)		Surface Soil Cracks (B Drainage Patterns (B10 Dry-Season Water Tab Crayfish Burrows (C8) Saturation Visible on A Stunted or Stressed Pla Geomorphic Position (I FAC-Neutral Test (D5)	6) D) Ile (C2) erial Imagery (C9) ants (D1) D2)	No	x
HYDROLOGY  Wetland Hydrology Primary Indicators (r Surface Water I High Water Tat Saturation (A3) Water Marks (E Sediment Depo Drift Deposits (I Algal Mat or Cri Iron Deposits (E Inundation Visit Sparsely Veget Field Observations Surface Water Presen Saturation Present? (includes capillary fr Describe Recorded	minimum of one is required; of (A1) cole (A2) (B1) soits (B2) (B3) ust (B4) (B5) ble on Aerial Imagery (B7) tated Concave Surface (B8) (B5) (B6) (B7) (B7) (B7) (B7) (B7) (B7) (B7) (B7	No X No X No X	Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in F  Depth (inches): Depth (inches): photos, previous ir	3) Is (B14) Odor (C1) Ineres on Livin Ced Iron (C4) Etion in Tilled (C7) Ia (D9) Remarks)	) Soils (C6)		Wetland Hydrology	Surface Soil Cracks (B Drainage Patterns (B10 Dry-Season Water Tab Crayfish Burrows (C8) Saturation Visible on A Stunted or Stressed Pla Geomorphic Position (I FAC-Neutral Test (D5)	6) D) Ile (C2) erial Imagery (C9) ants (D1) D2)	No	x
HYDROLOGY  Wetland Hydrology Primary Indicators (r Surface Water I High Water Tat Saturation (A3) Water Marks (E Sediment Depo Drift Deposits (I Algal Mat or Cri Iron Deposits (E Inundation Visit Sparsely Veget Field Observations Surface Water Presen Saturation Present? (includes capillary fr Describe Recorded	minimum of one is required; (A1) ole (A2)  B1) sits (B2) B3) ust (B4) B5) ble on Aerial Imagery (B7) tated Concave Surface (B8)  s: ent? Yes tt? Yes ringe)	No X No X No X	Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in F  Depth (inches): Depth (inches): photos, previous ir	3) Is (B14) Odor (C1) Ineres on Livin Ced Iron (C4) Etion in Tilled (C7) Ia (D9) Remarks)	) Soils (C6)		Wetland Hydrology	Surface Soil Cracks (B Drainage Patterns (B10 Dry-Season Water Tab Crayfish Burrows (C8) Saturation Visible on A Stunted or Stressed Pla Geomorphic Position (I FAC-Neutral Test (D5)	6) D) Ile (C2) erial Imagery (C9) ants (D1) D2)	No	x
HYDROLOGY  Wetland Hydrology Primary Indicators (r Surface Water I High Water Tat Saturation (A3) Water Marks (E Sediment Depo Drift Deposits (I Algal Mat or Cri Iron Deposits (E Inundation Visit Sparsely Veget Field Observations Surface Water Presen Saturation Present? (includes capillary fr Describe Recorded	minimum of one is required; of (A1) cole (A2) (B1) soits (B2) (B3) ust (B4) (B5) ble on Aerial Imagery (B7) tated Concave Surface (B8) (B5) (B6) (B7) (B7) (B7) (B7) (B7) (B7) (B7) (B7	No X No X No X	Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in F  Depth (inches): Depth (inches): photos, previous ir	3) Is (B14) Odor (C1) Ineres on Livin Ced Iron (C4) Etion in Tilled (C7) Ia (D9) Remarks)	) Soils (C6)		Wetland Hydrology	Surface Soil Cracks (B Drainage Patterns (B10 Dry-Season Water Tab Crayfish Burrows (C8) Saturation Visible on A Stunted or Stressed Pla Geomorphic Position (I FAC-Neutral Test (D5)	6) D) Ile (C2) erial Imagery (C9) ants (D1) D2)	No	K
HYDROLOGY  Wetland Hydrology Primary Indicators (r Surface Water I High Water Tat Saturation (A3) Water Marks (E Sediment Depo Drift Deposits (I Algal Mat or Cri Iron Deposits (E Inundation Visit Sparsely Veget Field Observations Surface Water Presen Saturation Present? (includes capillary fr Describe Recorded	minimum of one is required; of (A1) cole (A2) (B1) soits (B2) (B3) ust (B4) (B5) ble on Aerial Imagery (B7) tated Concave Surface (B8) (B5) (B6) (B7) (B7) (B7) (B7) (B7) (B7) (B7) (B7	No X No X No X	Water-Stained Lea Aquatic Fauna (B1 True Aquatic Plant Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in F  Depth (inches): Depth (inches): photos, previous ir	3) Is (B14) Odor (C1) Ineres on Livin Ced Iron (C4) Etion in Tilled (C7) Ia (D9) Remarks)	) Soils (C6)		Wetland Hydrology	Surface Soil Cracks (B Drainage Patterns (B10 Dry-Season Water Tab Crayfish Burrows (C8) Saturation Visible on A Stunted or Stressed Pla Geomorphic Position (I FAC-Neutral Test (D5)	6) D) Ile (C2) erial Imagery (C9) ants (D1) D2)	No	x
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Oak Creek/

Project/Site:	IH-94 Mainline				City/County: Milwaukee Sampling Date: 9/9/2009
Applicant/Owner:	WDOT				State: WI Sampling Point: W9-7 T-1 A(w)
Investigator(s):	Julie A. Paschal				Section, Township, Range: Section 20, T5N R22E
Landform (hillslope, ter	race, etc.):	Depression			Local relief (concave, convex, none): Concave
Slope (%): 0-2%		at: See Fig. 2		Long: See I	Fig. 2 Datum: NA
Soil Map Unit Name:	Blount silt	loam (BIA)			WWI Classification: Wetland smaller than 2 acres
Are climatic / hydrologic	ic conditions on the site	typical for this tim	e of year?		Yes X No (if no, explain in Remarks)
Are Vegetation		or Hydrology		antly disturbed?	Are "Normal Circumstances" present? Yes X No
Are Vegetation	Soil	or Hydrology	natural	ly problematic?	(if needed, explain any answers in Remarks)
SUMMARY OF FINDIN	NGS Attach site ma	p showing samp	ling point locati	ons, transects, imp	portant features, etc.
Hydrophytic Vegetation	n Present?	Yes X	No		
Hydric Soil Present?		Yes X			Is the Sampled Area Yes X No
Wetland Hydrology Pre	esent?	YesX	No		within a Wetland?
Remarks: This is a shallo	ow marsh wetland w	vithin a drainag	ge area at the	Ryan Road inter	change.
VEGETATION - Use so	cientific names for plant		Dominant	Indicator	
Tree Stratum (Plot Siz	że: <u>N/A</u> )	Absolute %  Cover	Dominant Species	Indicator Status	Dominance Test Worksheet:
1. <b>N/A</b>					Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3					Total Number of Dominant
4.					Species Across All Strata: 1 (B)
5.					
		0%	= Total Cover		Percent of Dominant Species That Are OBL, FACW, or FAC:
Sapling/Shrub Stratum	(Plot Size: <u>N/A</u>	)			Prevalence Index Worksheet:
1. <b>N/A</b> 2.					Total % Cover of:         Multiply by:           OBL species         x 1 =
_					FACW species x 2 =
4.					FAC species x 3 =
5		0%	Total Cayor		FACU species x 4 =
		<u> </u>	= Total Cover		UPL species x 5 = (B)
Herb Stratum (Plot Siz	ze: <u>5 ft. radius</u>	)			Prevalence Index = B/A =
1. Typha angustifol		100%	Yes	OBL	
Cirsium arvense     3.		5%	No	FACU	Hydrophytic Vegetation Indicators: X Dominance Test is >50%
					Prevalence Index is ≤ 3.0 <sup>1</sup>
l -					Morphological Adaptations <sup>1</sup> (Provide supporting
					data in Remarks or on separate sheet)
7					Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
9.					<sup>1</sup> Indicators of hydric soil and wetland hydrology must
10.					be present, unless disturbed or problematic.
		105%	= Total Cover		
Woody Vine Stratum 1. N/A	(Plot Size: N/A	)			Hydrophytic Vegetation
2		0%	= Total Cover		Present? Yes <u>X</u> No
	oto numbers here or on a			a angustifolia .	

SOIL						Sampling	Point: <u>W9-7 T-1 /</u>
Profile Description: (	(Describe to the depth need	ed to document the indicate	or or confirm th	e absence of inc	dicators.)		
Depth	Matrix		Redox Feature		_		
inches)	Color (moist)	% Color (moist)	%	Type <sup>1</sup> Loc <sup>2</sup>	Texture	Re	marks
N/A	<u></u>						
	•	<u> </u>				<u>,                                    </u>	
		<u> </u>					
Type: C=Concentration	on, D=Depletion, RM=Reduce	ed Matrix, CS=Covered or Coa	ated Sand Grains	S.	<sup>2</sup> Location: PL=Pore Linin	g, M=Matrix	
Hydric Soil Indicators	s:			Indica	tors for Problematic Hyd	ric Soils <sup>3</sup> :	
Histosol (A1)		Sandy Gleyed Ma	atrix (S4)		•		
Histic Epipedon (A	A2)	Sandy Redox (S5			Coast Prairie Redox (A16	3)	
Black Histic (A3)	,	Stripped Matrix (S			Iron-Manganese Masses		
Hydrogen Sulfide	(A4)	Loamy Mucky Mir	,		Other (Explain in Remark	, ,	
Stratified Layers (		Loamy Gleyed Ma			(_Apidin in riomain	,	
2 cm Muck (A10)	,	Depleted Matrix (					
Depleted Below D	ark Surface (A11)	Redox Dark Surf		3 India	ators of hydrophytic vegeta	tion and wetland	
Thick Dark Surfac	, ,	Depleted Dark Su	, ,		rology must be present, ur		
Sandy Mucky Min		Redox Depressio			roblematic.	iless disturbed	
5 cm Mucky Peat	` '	Redox Depressio	IIS (FO)	OI F	noblematic.		
Restrictive Layer (if o	observed):						
Type: N/A							
Depth (inches):	N/A				Hydric Soil Present?	Yes X	No
* Soils are pres	sumed to be hydric due	to dominant obligate ve્	getation and i	nundation. So	oils are saturated/inun	dated during the d	ry season.
	sumed to be hydric due	to dominant obligate ve્	getation and i	nundation. So	oils are saturated/inun	dated during the d	ry season.
HYDROLOGY	,	to dominant obligate ve	getation and i	nundation. So	oils are saturated/inun	dated during the d	ry season.
HYDROLOGY Wetland Hydrology Ir	ndicators:		getation and i	nundation. So			
HYDROLOGY  Wetland Hydrology Ir	ndicators: nimum of one is required; che	ck all that apply)		nundation. So	Secondary Indica	ators (minimum of two	required)
HYDROLOGY  Vetland Hydrology In  Primary Indicators (mir  X Surface Water (A	ndicators: nimum of one is required; che	ck all that apply)Water-Stained Le	vaves (B9)	nundation. So	Secondary Indica	ators (minimum of two urface Soil Cracks (B6)	required)
HYDROLOGY  Wetland Hydrology In  Primary Indicators (mir  X Surface Water (A:  High Water Table	ndicators: nimum of one is required; che	ck all that apply) Water-Stained LeAquatic Fauna (B	paves (B9)	nundation. So	Secondary Indica	ators (minimum of two urface Soil Cracks (B6) rainage Patterns (B10)	required)
HYDROLOGY  Wetland Hydrology Ir  rimary Indicators (mir  X Surface Water (A  High Water Table  X Saturation (A3)	ndicators: nimum of one is required; che 1) (A2)	ck all that apply)  Water-Stained Le Aquatic Fauna (B True Aquatic Plar	paves (B9) (13) (hts (B14)	nundation. So	Secondary Indica St X Di	ators (minimum of two urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table	required)
IYDROLOGY  Vetland Hydrology Ir rimary Indicators (mir  X Surface Water (At High Water Table X Saturation (A3) Water Marks (B1)	ndicators: nimum of one is required; che 1) (A2)	ck all that apply)  Water-Stained Le Aquatic Fauna (B True Aquatic Plar Hydrogen Sulfide	paves (B9) i13) nts (B14) Odor (C1)		Secondary Indica Si X Di Di	ators (minimum of two urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table rayfish Burrows (C8)	required)
Wetland Hydrology In Primary Indicators (mir X Surface Water (At High Water Table X Saturation (A3) Water Marks (B1) Sediment Deposit	ndicators: nimum of one is required; che 1) (A2)	ck all that apply)  Water-Stained Le Aquatic Fauna (B True Aquatic Plar Hydrogen Sulfide Oxidized Rhizosp	paves (B9) (13) (13) (14) Odor (C1) (15) Odor (C1)		Secondary Indica Si X Di Di Ci	ators (minimum of two urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table rayfish Burrows (C8) aturation Visible on Ae	required) e (C2) rial Imagery (C9)
Vetland Hydrology In Primary Indicators (mir X Surface Water (A1 High Water Table X Saturation (A3) Water Marks (B1) Sediment Deposits (B3)	ndicators: nimum of one is required; che 1) (A2) s (B2)	ck all that apply)  Water-Stained Le Aquatic Fauna (B True Aquatic Plar Hydrogen Sulfide Oxidized Rhizosp Presence of Redu	eaves (B9) i13) its (B14) Odor (C1) wheres on Living luced Iron (C4)	Roots (C3)	Secondary Indica Si X Di Di Ci Si Si	ators (minimum of two urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table rayfish Burrows (C8) aturation Visible on Ae unted or Stressed Plai	required)  e (C2) rial Imagery (C9) nts (D1)
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Mytheration (Ba)  Algal Mat or Crust  Algal Mat or Crust  In Deposits (B3)  Algal Mat or Crust  Iron Deposits (B5)  Inundation Visible  Sparsely Vegetate  Field Observations:  Surface Water Present  Vater Table Present?  Saturation Present?	ndicators: nimum of one is required; che 1) (A2)  Is (B2) t (B4) To on Aerial Imagery (B7) ad Concave Surface (B8)  1?  Yes X Yes X Yes X	ck all that apply)  Water-Stained Le Aquatic Fauna (B True Aquatic Plar Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Thin Muck Surfac Gauge or Well Da Other (Explain in	eaves (B9) ints (B14) Odor (C1) wheres on Living luced Iron (C4) uction in Tilled Sobre (C7) ata (D9) Remarks)  0.5	Roots (C3)	Secondary Indicates SI X Di	ators (minimum of two urface Soil Cracks (B6) range Patterns (B10) ry-Season Water Table rayfish Burrows (C8) aturation Visible on Ae unted or Stressed Plar eomorphic Position (D: AC-Neutral Test (D5)	required) e (C2) rial Imagery (C9) rts (D1)
Wetland Hydrology In Primary Indicators (mir X Surface Water (A1 High Water Table X Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present Vater Table Present?	ndicators: nimum of one is required; che 1) (A2)  Is (B2) t (B4) To on Aerial Imagery (B7) ad Concave Surface (B8)  1?  Yes X Yes X Yes X	ck all that apply)  Water-Stained Le Aquatic Fauna (B True Aquatic Plar Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Thin Muck Surfac Gauge or Well Da Other (Explain in	eaves (B9) ints (B14) Odor (C1) wheres on Living luced Iron (C4) uction in Tilled Sobre (C7) ata (D9) Remarks)  0.5	Roots (C3)	Secondary Indica St X Di Co Co St St G X F	ators (minimum of two urface Soil Cracks (B6) range Patterns (B10) ry-Season Water Table rayfish Burrows (C8) aturation Visible on Ae unted or Stressed Plar eomorphic Position (D: AC-Neutral Test (D5)	required)  e (C2) rial Imagery (C9) nts (D1)
Wetland Hydrology In Primary Indicators (mir X Surface Water (A1 High Water Table X Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible Sparsely Vegetate Steld Observations: Surface Water Table Present? Saturation Present?	ndicators: nimum of one is required; che 1) (A2)  Is (B2) ) t (B4) ) on Aerial Imagery (B7) ed Concave Surface (B8)  1? Yes X	ck all that apply)  Water-Stained Le Aquatic Fauna (B True Aquatic Plar Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Thin Muck Surfac Gauge or Well Da Other (Explain in  No Depth (inches): No Depth (inches):	paves (B9) 113) Odor (C1) Sheres on Living suced Iron (C4) Iction in Tilled Scie (C7) Remarks)  0.5 0	Roots (C3)	Secondary Indica St X Di Co Co St St G X F	ators (minimum of two urface Soil Cracks (B6) range Patterns (B10) ry-Season Water Table rayfish Burrows (C8) aturation Visible on Ae unted or Stressed Plar eomorphic Position (D: AC-Neutral Test (D5)	required) e (C2) rial Imagery (C9) rts (D1)
Wetland Hydrology In Primary Indicators (mir X Surface Water (A1 High Water Table X Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible Sparsely Vegetate Water Table Present? Saturation Present? Includes capillary fring strong Indicators (B4) Includes Capillary fring Saturation Present?	ndicators: nimum of one is required; che 1) (A2)  Is (B2) ) t (B4) ) on Aerial Imagery (B7) ed Concave Surface (B8)  1? Yes X	ck all that apply)  Water-Stained Le Aquatic Fauna (B True Aquatic Plar Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Thin Muck Surfac Gauge or Well Da Other (Explain in	paves (B9) 113) Odor (C1) Sheres on Living suced Iron (C4) Iction in Tilled Scie (C7) Remarks)  0.5 0	Roots (C3)	Secondary Indica St X Di Co Co St St G X F	ators (minimum of two urface Soil Cracks (B6) range Patterns (B10) ry-Season Water Table rayfish Burrows (C8) aturation Visible on Ae unted or Stressed Plar eomorphic Position (D: AC-Neutral Test (D5)	required) e (C2) rial Imagery (C9) rts (D1)
Wetland Hydrology In Primary Indicators (mir X Surface Water (A1 High Water Table X Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible Sparsely Vegetate Water Table Present? Saturation Present? Includes capillary fring strong Indicators (B4) Includes Capillary fring Saturation Present?	ndicators: nimum of one is required; che 1) (A2)  Is (B2) ) t (B4) ) on Aerial Imagery (B7) ed Concave Surface (B8)  1? Yes X	ck all that apply)  Water-Stained Le Aquatic Fauna (B True Aquatic Plar Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Thin Muck Surfac Gauge or Well Da Other (Explain in  No Depth (inches): No Depth (inches):	paves (B9) 113) Odor (C1) Sheres on Living suced Iron (C4) Iction in Tilled Scie (C7) Remarks)  0.5 0	Roots (C3)	Secondary Indica St X Di Co Co St St G X F	ators (minimum of two urface Soil Cracks (B6) range Patterns (B10) ry-Season Water Table rayfish Burrows (C8) aturation Visible on Ae unted or Stressed Plar eomorphic Position (D: AC-Neutral Test (D5)	required) e (C2) rial Imagery (C9) rts (D1) 2)
MYDROLOGY  Wetland Hydrology In Primary Indicators (mir X Surface Water (A1 High Water Table X Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present Water Table Present? Saturation Present?	ndicators: nimum of one is required; che 1) (A2)  Is (B2) ) t (B4) ) on Aerial Imagery (B7) ed Concave Surface (B8)  1? Yes X	ck all that apply)  Water-Stained Le Aquatic Fauna (B True Aquatic Plar Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Thin Muck Surfac Gauge or Well Da Other (Explain in  No Depth (inches): No Depth (inches):	paves (B9) 113) Odor (C1) Sheres on Living suced Iron (C4) Iction in Tilled Scie (C7) Remarks)  0.5 0	Roots (C3)	Secondary Indica St X Di Co Co St St G X F	ators (minimum of two urface Soil Cracks (B6) range Patterns (B10) ry-Season Water Table rayfish Burrows (C8) aturation Visible on Ae unted or Stressed Plar eomorphic Position (D: AC-Neutral Test (D5)	required) e (C2) rial Imagery (C9) rts (D1) 2)
MYDROLOGY  Wetland Hydrology In Primary Indicators (mir X Surface Water (A1 High Water Table X Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present Water Table Present? Saturation Present?	ndicators: nimum of one is required; che 1) (A2)  Is (B2) ) t (B4) ) on Aerial Imagery (B7) ed Concave Surface (B8)  1? Yes X	ck all that apply)  Water-Stained Le Aquatic Fauna (B True Aquatic Plar Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Thin Muck Surfac Gauge or Well Da Other (Explain in  No Depth (inches): No Depth (inches):	paves (B9) 113) Odor (C1) Sheres on Living suced Iron (C4) Iction in Tilled Scie (C7) Remarks)  0.5 0	Roots (C3)	Secondary Indica St X Di Co Co St St G X F	ators (minimum of two urface Soil Cracks (B6) range Patterns (B10) ry-Season Water Table rayfish Burrows (C8) aturation Visible on Ae unted or Stressed Plar eomorphic Position (D: AC-Neutral Test (D5)	required) e (C2) rial Imagery (C9) rts (D1) 2)
Wetland Hydrology In Primary Indicators (mir X Surface Water (A1 High Water Table X Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible Sparsely Vegetate Steld Observations: Surface Water Table Present? Saturation Present. Sa	indicators: nimum of one is required; che 1) (A2)  Is (B2) ) to (B4) ) on Aerial Imagery (B7) ed Concave Surface (B8)  1? Yes X Yes X Yes X J Je)  Ital (stream gauge, monitoring	ck all that apply)  Water-Stained Le Aquatic Fauna (B True Aquatic Plar Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Thin Muck Surfac Gauge or Well Da Other (Explain in  No Depth (inches): No Depth (inches):	eaves (B9) (13) Ints (B14) Odor (C1) Otheres on Living luced Iron (C4) Iction in Tilled Scient (C9) Remarks)  0.5 0 Inspections), if a	Roots (C3) bils (C6)	Secondary Indica St X Di Co Co St St X Fr	ators (minimum of two urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table rayfish Burrows (C8) aturation Visible on Ae unted or Stressed Plar eomorphic Position (D: AC-Neutral Test (D5)	required) e (C2) rial Imagery (C9) nts (D1) 2)  Yes X
Wetland Hydrology In Primary Indicators (mir X Surface Water (A1 High Water Table X Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible Sparsely Vegetate Steld Observations: Surface Water Table Present? Saturation Present. Sa	indicators: nimum of one is required; che 1) (A2)  Is (B2) ) t (B4) ) on Aerial Imagery (B7) ed Concave Surface (B8)  1? Yes X Yes X Yes X Yes X A ge)  ata (stream gauge, monitoring	ck all that apply)  Water-Stained Le Aquatic Fauna (B True Aquatic Plar Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Thin Muck Surfac Gauge or Well De Other (Explain in  No Depth (inches): No Depth (inches): well, aerial photos, previous	eaves (B9) (13) Ints (B14) Odor (C1) Otheres on Living luced Iron (C4) Iction in Tilled Scient (C9) Remarks)  0.5 0 Inspections), if a	Roots (C3) bils (C6)	Secondary Indica St X Di Co Co St St X Fr	ators (minimum of two urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table rayfish Burrows (C8) aturation Visible on Ae unted or Stressed Plar eomorphic Position (D: AC-Neutral Test (D5)	required) e (C2) rial Imagery (C9) nts (D1) 2)  Yes X
Wetland Hydrology In Primary Indicators (mir X Surface Water (A1 High Water Table X Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible Sparsely Vegetate Steld Observations: Surface Water Table Present? Saturation Present? Includes capillary fring Describe Recorded Date (Bemarks:  This is a draina	indicators: nimum of one is required; che 1) (A2)  Is (B2) ) t (B4) ) on Aerial Imagery (B7) ed Concave Surface (B8)  1? Yes X Yes X Yes X Yes X A ge)  ata (stream gauge, monitoring	ck all that apply)  Water-Stained Le Aquatic Fauna (B True Aquatic Plar Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Thin Muck Surfac Gauge or Well De Other (Explain in  No Depth (inches): No Depth (inches): well, aerial photos, previous	eaves (B9) (13) Ints (B14) Odor (C1) Otheres on Living luced Iron (C4) Iction in Tilled Scient (C9) Remarks)  0.5 0 Inspections), if a	Roots (C3) bils (C6)	Secondary Indica St X Di Co Co St St X Fr	ators (minimum of two urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table rayfish Burrows (C8) aturation Visible on Ae unted or Stressed Plar eomorphic Position (D: AC-Neutral Test (D5)	required) e (C2) rial Imagery (C9) nts (D1) 2)  Yes X
Vetland Hydrology Intrimary Indicators (mir X Surface Water (A1 High Water Table X Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible Sparsely Vegetate Veter Table Present? Vater Table Present? Includes capillary fring Describe Recorded Datemarks:  This is a draina	indicators: nimum of one is required; che 1) (A2)  Is (B2) ) t (B4) ) on Aerial Imagery (B7) ed Concave Surface (B8)  1? Yes X Yes X Yes X Yes X A ge)  ata (stream gauge, monitoring	ck all that apply)  Water-Stained Le Aquatic Fauna (B True Aquatic Plar Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Thin Muck Surfac Gauge or Well De Other (Explain in  No Depth (inches): No Depth (inches): well, aerial photos, previous	eaves (B9) (13) Ints (B14) Odor (C1) Otheres on Living luced Iron (C4) Iction in Tilled Scient (C9) Remarks)  0.5 0 Inspections), if a	Roots (C3) bils (C6)	Secondary Indica St X Di Co Co St St X Fr	ators (minimum of two urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table rayfish Burrows (C8) aturation Visible on Ae unted or Stressed Plar eomorphic Position (D: AC-Neutral Test (D5)	required) e (C2) rial Imagery (C9) nts (D1) 2)  Yes X
Vetland Hydrology In rimary Indicators (mir X Surface Water (A1 High Water Table X Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible Sparsely Vegetate ield Observations: urface Water Present vater Table Present? atturation Present? includes capillary fring rescribe Recorded Datemarks:  This is a draina	indicators: nimum of one is required; che 1) (A2)  Is (B2) ) t (B4) ) on Aerial Imagery (B7) ed Concave Surface (B8)  1? Yes X Yes X Yes X Yes X A ge)  ata (stream gauge, monitoring	ck all that apply)  Water-Stained Le Aquatic Fauna (B True Aquatic Plar Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Thin Muck Surfac Gauge or Well De Other (Explain in  No Depth (inches): No Depth (inches): well, aerial photos, previous	eaves (B9) (13) Ints (B14) Odor (C1) Otheres on Living luced Iron (C4) Iction in Tilled Scient (C9) Remarks)  0.5 0 Inspections), if a	Roots (C3) bils (C6)	Secondary Indica St X Di Co Co St St X F Wetland Hydrology Pre	ators (minimum of two urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table rayfish Burrows (C8) aturation Visible on Ae unted or Stressed Plar eomorphic Position (D: AC-Neutral Test (D5)	required) e (C2) rial Imagery (C9) nts (D1) 2)  Yes X

Oak Creek/ City/County: Milwaukee IH-94 Mainline Sampling Date: 9/17/2009 Project/Site: Applicant/Owner: Sampling Point: W9-8 T-1 A(u) WDOT State: WI Investigator(s): Eric C. Parker Section, Township, Range: Section 19, T5N R22E Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): None Slope (%): 15% Datum: NA Lat: See Fig. 2 Long: See Fig. 2 Soil Map Unit Name: Blount silt loam (BIA) WWI Classification: None Are climatic / hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks) or Hydrology significantly disturbed? Are "Normal Circumstances" present? Are Vegetation Soil Yes X Nο Are Vegetation Soil or Hydrology naturally problematic? (if needed, explain any answers in Remarks) SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes No Х Is the Sampled Area No \_\_\_ Wetland Hydrology Present? Yes No Х within a Wetland? Remarks: VEGETATION - Use scientific names for plants Indicator Absolute % **Dominance Test Worksheet:** Free Stratum (Plot Size: N/A Number of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species Across All Strata: (B) 0% = Total Cover Percent of Dominant Species That Are OBL, FACW, or FAC: 43% \_ (A/B) Sapling/Shrub Stratum (Plot Size: Prevalence Index Worksheet: 1. N/A Total % Cover of: Multiply by: OBL species FACW species 20 10% x 2 = FAC species 25% x 3 = 75 FACU species 60% 240 x 4 = = Total Cover UPL species 17% x 5 : 85 Column Totals: 112% (A) 420 Herb Stratum (Plot Size: 5 ft. radius Prevalence Index = B/A = 3.75 1. Festuca elation 40% FACU 2. Daucus carota 10% Yes UPL Hydrophytic Vegetation Indicators: 3. Aster ericoides 10% Yes FACU Dominance Test is >50% Prevalence Index is ≤ 3.01 Poa pratensis 15% Yes FAC Morphological Adaptations<sup>1</sup> (Provide supporting 5. Aster drummondii 5% No UPL 10% 6. Solidago nemoralis Yes FACL data in Remarks or on separate sheet) Fragaria virginiana 10% Yes Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) FAC Asclepias verticillatus 2% Nο HPI Cornus foemina 10% Yes FACW 1 Indicators of hydric soil and wetland hydrology must 10 be present, unless disturbed or problematic. 112% = Total Cover Woody Vine Stratum (Plot Size: N/A Hydrophytic ) 1. N/A Vegetation Present? No X Yes = Total Cover 0% Remarks: (Include photo numbers here or on a separate sheet.) This is an upland, old field plant community. The plant community is weedy but stabilized.

SOIL Sampling Point: W9-8 T-1 A(u)

(inches)         Color (moist)           0-9         10YR 3/1           9-18         10YR 5/3	% Color (moist) %	Type <sup>1</sup> Loc <sup>2</sup>						
		Type <sup>1</sup> Loc <sup>2</sup>	Texture		Remarks			
9-18 10YR 5/3	100 None		Silty clay	Fill or cut area				
	100 None		Clay					
				-				
			_					
Type: C=Concentration, D=Depletion, RM=Rec	duced Matrix, CS=Covered or Coated Sai		<sup>2</sup> Location: PL=Pore Linin	_				
Hydric Soil Indicators: Histosol (A1)	Sandy Gleyed Matrix (S4		tors for Problematic Hyd	ric Soils <sup>3</sup> :				
Histic Epipedon (A2)	Sandy Redox (S5)	9	Coast Prairie Redox (A16	6)				
Black Histic (A3)	Stripped Matrix (S6)		Iron-Manganese Masses	,				
Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F	1)	Other (Explain in Remark					
Stratified Layers (A5)	Loamy Gleyed Matrix (F2	2)	• , ,	,				
2 cm Muck (A10)	Depleted Matrix (F3)							
Depleted Below Dark Surface (A11)	Redox Dark Surface (F6	urface (F6) <sup>3</sup> Indicators of hydrophytic vegetation and wetland						
Thick Dark Surface (A12)	Depleted Dark Surface (F		lrology must be present, ur	lless disturbed				
Sandy Mucky Mineral (S1) 5 cm Mucky Peat or Peat (S3)	Redox Depressions (F8)	or p	problematic.					
Restrictive Layer (if observed):								
Type: N/A								
Depth (inches): N/A	<u></u>		Hydric Soil Present?	Yes	No <u>X</u>			
Netland Hydrology Indicators: Primary Indicators (minimum of one is required;	, about all that apply)		Stunted or Stressed Plants (D1)					
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	Water-Stained Leaves (B Aquatic Fauna (B13) True Aquatic Plants (B14 Hydrogen Sulfide Odor (C Oxidized Rhizospheres oo Presence of Reduced Io Recent Iron Reduction in Thin Muck Surface (C7) Gauge or Well Data (D9)	t) C1) on Living Roots (C3) on (C4) Tilled Soils (C6)	SI	urface Soil Cracks (I rainage Patterns (B' ry-Season Water Ta rayfish Burrows (C8 aturation Visible on unted or Stressed F eomorphic Position	B6) 10) able (C2) 3) Aerial Imagery (C9) Plants (D1) (D2)			
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Leaves (B Aquatic Fauna (B13) True Aquatic Plants (B14 Hydrogen Sulfide Odor (C Oxidized Rhizospheres oo Presence of Reduced Io Recent Iron Reduction in Thin Muck Surface (C7) Gauge or Well Data (D9)	t) C1) on Living Roots (C3) on (C4) Tilled Soils (C6)	SI	urface Soil Cracks (I rainage Patterns (B' ry-Season Water Ta rayfish Burrows (C8 aturation Visible on unted or Stressed F eomorphic Position	B6) 10) able (C2) 3) Aerial Imagery (C9) Plants (D1) (D2)			

Oak Creek/

City/County: Milwaukee IH-94 Mainline Sampling Date: 9/17/2009 Project/Site: Applicant/Owner: Sampling Point: W9-8 T-1 B(w) WDOT State: WI Investigator(s): Eric C. Parker Section, Township, Range: Section 19, T5N R22E Landform (hillslope, terrace, etc.): Swale Local relief (concave, convex, none): Concave Slope (%): 2% Lat: See Fig. 2 Long: See Fig. 2 Datum: NA Soil Map Unit Name: Blount silt loam (BIA) WWI Classification: E2K Are climatic / hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks) Are Vegetation Are "Normal Circumstances" present? Soil or Hydrology \_\_\_\_\_significantly disturbed? Yes X or Hydrology Are Vegetation Soil naturally problematic? (if needed, explain any answers in Remarks) SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc. Yes X Hydrophytic Vegetation Present? No Hydric Soil Present? Yes X No Is the Sampled Area Wetland Hydrology Present? Х Yes No within a Wetland? This wetland is predominately a Typha spp. dominated shallow marsh ditch. The edge of the marsh grades to a narrow wet meadow wetland. VEGETATION - Use scientific names for plants Indicator Absolute % **Dominance Test Worksheet:** Free Stratum (Plot Size: N/A Number of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species Across All Strata: (B) 0% = Total Cover Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B) Sapling/Shrub Stratum (Plot Size: Prevalence Index Worksheet: 1. N/A Total % Cover of: Multiply by: OBL species 75 37% FACW species x 2 = FAC species 35% x 3 = 105 FACU species 19% x 4 = 76 = Total Cover UPL species x 5 = 330 166% Column Totals: (A) Herb Stratum (Plot Size: 5 ft. radius Prevalence Index = B/A = 1.99 1. Typha angustifolia 75% OBL 2. Geum aleppicum 25% Yes FAC Hydrophytic Vegetation Indicators: 3. Aster novae-angliae 20% FACW X Dominance Test is >50% Prevalence Index is ≤ 3.01 Euthamia graminifolia 15% No **FACW** Morphological Adaptations<sup>1</sup> (Provide supporting 5. Achillea millefolium No FACU 15% No 6. Solidago canadensis FACU data in Remarks or on separate sheet) Fragaria virginiana 10% No Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) FAC 8. Monarda fistulosa 2% Nο FΔCII Agrostis gigantea 2% Nο FACW 1 Indicators of hydric soil and wetland hydrology must 10 be present, unless disturbed or problematic. 166% = Total Cover Woody Vine Stratum N/A Hydrophytic ) 1. N/A Vegetation Yes X Present? No = Total Cover Remarks: (Include photo numbers here or on a separate sheet.) This is a shallow marsh/wet meadow plant community.

SOIL	Sampling Point: V	N9-8 T-1 B(w)

Profile Description:	(Describe to the depth nee	eded to docui	ment the indicato	r or confir	m the absen	ice of in	dicators.)			
Depth	Matrix		0-1(:t)	Redox Fea		. 2			Damada	
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
0-6	10YR 3/1	100	None				Silty clay loam	-		
6-15	2.5Y 5/2	100	10YR 4/6	20%	С	M	Silty clay loam			
<sup>1</sup> Type: C=Concentrat	tion, D=Depletion, RM=Redu	ced Matrix, CS	S=Covered or Coa	ted Sand G	rains.		<sup>2</sup> Location: PL=Pore Lini	ng, M=Matrix		
Hydric Soil Indicator	rs:					Indica	ators for Problematic Hyd	dric Soils <sup>3</sup> :		
Histosol (A1)			Sandy Gleyed Ma	trix (S4)			•			
Histic Epipedon (	(A2)		Sandy Redox (S5)	)			Coast Prairie Redox (A1	16)		
Black Histic (A3)			Stripped Matrix (S				Iron-Manganese Masse			
Hydrogen Sulfide	, ,		Loamy Mucky Min	. ,			Other (Explain in Remar	rks)		
Stratified Layers	· ·		Loamy Gleyed Ma	. ,						
2 cm Muck (A10)			Depleted Matrix (F			3				
	Dark Surface (A11)		Redox Dark Surfa	. ,			ators of hydrophytic veget			
Thick Dark Surfa	, ,		Depleted Dark Sur	. ,		hydrology must be present, unless disturbed or problematic.				
Sandy Mucky Mi 5 cm Mucky Pea			Redox Depression	is (F8)		OI	problematic.			
	, ,				ı					
Restrictive Layer (if Type: N/A	observea):									
Depth (inches):	N/A						Hydric Soil Present?	Yes X	No	
Deptil (illolles).	N/A						riyano com ricocini.	163 <u>X</u>		
Remarks:					•					
HYDROLOGY										
Wetland Hydrology	Indicators:									
Primary Indicators (m	inimum of one is required; ch	neck all that ap	oply)				Secondary Indic	cators (minimum of tw	vo required)	
Surface Water (A	A1)		Water-Stained Lea	aves (B9)			<b>X</b> S	Surface Soil Cracks (	B6)	
X High Water Table	e (A2)		Aquatic Fauna (B1	13)			<u> </u>	Orainage Patterns (B	10)	
X Saturation (A3)			True Aquatic Plan	ts (B14)			<u> </u>	Dry-Season Water Ta	able (C2)	
Water Marks (B1	,		Hydrogen Sulfide	. ,				Crayfish Burrows (C8		
Sediment Depos	, ,		Oxidized Rhizosph		•	23)		Saturation Visible on		
Drift Deposits (B:	,		Presence of Redu		,			Stunted or Stressed F	, ,	
Algal Mat or Crus Iron Deposits (B	, ,		Recent Iron Reduce Thin Muck Surface		a Soiis (C6)			Geomorphic Position FAC-Neutral Test (D5	, ,	
	e on Aerial Imagery (B7)		Gauge or Well Da	. ,				AO-Neutrai Test (Do	")	
	ted Concave Surface (B8)		Other (Explain in F	. ,						
						1				
Field Observations:			5 " " 1 )							
Surface Water Preser Water Table Present?	· · · · · · · · · · · · · · · · · · ·	No X No	Depth (inches): Depth (inches):	10	_					
Saturation Present?	? Yes X Yes X	No	Depth (inches):	10	-		Wetland Hydrology Pro	esent?	Yes X	No
(includes capillary frin	nge)		Deptir (iriches).	10	_		Wettand Try drology T I	cociii.	Tes_X	
Describe Recorded D	ata (stream gauge, monitorir	ng well, aerial	photos, previous in	nspections).	, if available:					
	J. J	3 - ,	, , ,		,					
Remarks:								_		
This wetland	is predominately a <i>Typi</i>	<i>na spp.</i> don	ninated shallov	v marsh d	litch. The	edge o	of the marsh grades to	a narrow wet me	eadow wetland.	
Ot	! ! Al		4 41 414-							
Standing water	er is present in the more	e central po	rtion of the dite	on.						

WETLAND DETERMINATION DATA FORM - Midwest Region Oak Creek/ IH-94 Mainline Sampling Date: <u>9/15/2009</u> City/County: Milwaukee Project/Site: Sampling Point: W9-9 T-1 A(u) Applicant/Owner: WDOT State: WI Eric C. Parker / Julie A. Paschal Investigator(s): Section, Township, Range: Section 19, T5N R22E Hillslope Local relief (concave, convex, none): Landform (hillslope, terrace, etc.): Concave Slope (%): 4% Lat: See Fig. 2 Long: See Fig. 2 Datum: NA Soil Map Unit Name: Blount silt loam (BIA) WWI Classification: None (if no, explain in Remarks) Are climatic / hydrologic conditions on the site typical for this time of year? Are Vegetation Soil \_\_\_\_\_ or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Are Vegetation Soil \_\_\_\_\_ or Hydrology naturally problematic? (if needed, explain any answers in Remarks) SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes\_\_\_\_ Hydric Soil Present? No Х Is the Sampled Area Yes No Yes Wetland Hydrology Present? No Х within a Wetland? Remarks: VEGETATION - Use scientific names for plants

ree Stratum (Plot Size: N/A	)	Absolute %	Dominant Species	Indicator Status	Dominance Test Worksh	eet:		
(1 lot 0.20. <u>121.</u>	,	L.OVE	Shariae	Statile	Number of Dominant Spec	ies		
1. N/A					That Are OBL, FACW, or		1 (A)	
2.	•				, , .			
3.					Total Number of Dominan	1		
4.					Species Across All Strata:		<b>2</b> (B)	
5.	•						(-/	
	•	0%	= Total Cover		Percent of Dominant Spec	ies		
					That Are OBL, FACW, or		<b>50</b> % (A/E	8)
								• •
apling/Shrub Stratum (Plot Size:	N/A	)			Prevalence Index Works	heet:		
1. N/A		,			Total % Cove		Multiply by	:
2.	•				OBL species		x 1 =	
3.	_				FACW species		x 2 =	_
4.	_				FAC species	60%	x 3 = 180	_
5	•				FACU species	35%	x 4 = 140	_
o	•	0%	= Total Cover		UPL species	26%	x 5 = 130	_
			- 10tai 0010i		Column Totals:	121%	(A) 450	(B)
					Goldmir Foldis.		(//)	_ (5)
erb Stratum (Plot Size: 5 ft. rac	dius	)			Prevalence Index	= B/A =	3.72	
1. Asclepias verticillata		20%	No	UPL	1 Tovalones index			_
2. Solidago canadensis	•	25%	Yes	FACU	Hydrophytic Vegetation	Indicators:		
3. Daucus carota	•	5%	No	UPL	Dominance Test is			
4. Poa pratensis	•	60%	Yes	FAC	Prevalence Index			
5. Aster drummondii	•	1%	No	UPL	Morphological Ad		ovide supporting	
6. Aster pilosus	•	5%	No	FACU	data in Remarks			
7. Aster ericoides	•	5%	No	FACU	Problematic Hydro			
8.	•			1 AOO	TTODICINATION TYCK	priyao vogot	ation (Explain)	
9.					1 Indicators of hydric soil a	and wetland h	drology must	
0.	•				be present, unless distur			
·	•	121%	= Total Cover		be present, unless distar	bed of problet	natio.	
		12170	- Total Gover					
Joody Vine Stratum (Plot Size:	N/A	)			Hydrophytic			
1. N/A		,			Vegetation			
2.	•				Present?	Yes	No X	
۷	•	0%	= Total Cover		Fiesent:	165		_
		0 /0	- TOTAL COVE					
emarks: (Include photo numbers here o	ronoo	oporato abaat \			1			
	попая	eparare sneet.)						

SOIL Sampling Point: W9-9 T-1 A(u)

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)  Depth Matrix Redox Features (Inches) Color (moist) % Color (moist) % Type¹ Loc² Texture Remarks  D-8 10YR 4/2 100 None Silty clay  B-18 10YR 5/3 100 None Silty clay  Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  Pydric Soil Indicators: Indicators for Problematic Hydric Soils³: Histosi (A1) Sandy Gleyed Matrix (S4) Histic Epipedon (A2) Sandy Redox (S5) Coast Prairie Redox (A16) Histic Epipedon (A2) Sirped Matrix (S6) Ton-Manganese Masses (F12) Hydrogen Sulfide (A4) Loarny Mucky Mineral (F1) Other (Explain in Remarks)  Stratified Layers (A5) Loarny Gleyed Matrix (F2) 2 cm Muck (A10) Depleted Matrix (F2) 2 cm Muck (Sulface (A11) Redox Depressions (F8) or problematic.  Thick Dark Surface (A12) Pepleted Dark Surface (F6) Pepleted Dark Surface (F6) Phydrology must be present, unless disturbed or problematic.  Restrictive Layer (If observed): Type: NA Depth (inches): N/A  Remarks:  Soils were historically graded. No hydric soil indicators observed. Soils were observed to be dry.
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.   Coation: PL=Pore Lining, M=Matrix
B-18 10 YR 5/3 100 None Silty clay  Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Sandy Redox (S5) Stripped Matrix (S6) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Stratified Layers (A5) Loamy Gleyed Matrix (F2) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Redox Dark Surface (F7) Redox Dark Surface (F8) Redox Depressions (F8)  Restrictive Layer (if observed): Type: N/A Depth (inches): N/A  Hydric Soil Present? Yes No X
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  Hydric Soil Indicators: Histosol (A1) Sandy Gleyed Matrix (S4) Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Stratified Layers (A5) Depleted Below Dark Surface (A12) Sandy Gleyed Matrix (F2) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (F6) Thick Dark Surface (A12) Sandy Mucky Mineral (F7) Redox Dark Surface (F7) Redox Depressions (F8)  Restrictive Layer (if observed): Type: N/A Depth (inches): N/A  Hydric Soil Present? Yes No X
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stripped Matrix (S6)  Loamy Mucky Mineral (F1)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Semantks:    Mydric Soil Indicators for Problematic Hydric Soils <sup>3</sup> :    Coast Prairie Redox (A16)   Iron-Manganese Masses (F12)   Other (Explain in Remarks)    Other (Explain in Remarks)    Indicators of Problematic Hydric Soils <sup>3</sup> :    Coast Prairie Redox (A16)   Iron-Manganese Masses (F12)   Other (Explain in Remarks)    Other (Explain in Remarks)    Indicators of Problematic Hydric Soils <sup>3</sup> :    Iron-Manganese Masses (F12)   Other (Explain in Remarks)    Other (Explain in Remarks)    Indicators of Problematic Hydric Soils <sup>3</sup> :    Iron-Manganese Masses (F12)   Other (Explain in Remarks)    Indicators of Problematic Hydric Soils <sup>3</sup> :   Iron-Manganese Masses (F12)   Other (Explain in Remarks)    Indicators of Problematic Hydric Soils <sup>3</sup> :   Iron-Manganese Masses (F12)   Other (Explain in Remarks)    Indicators of Problematic Hydric Soils Present (F12)   Other (Explain in Remarks)    Indicators of Problematic Hydric Soils Present (F12)   Other (Explain in Remarks)   Indicators of Problematic Hydric Soils Present (F12)   Other (Explain in Remarks)   Indicators of Problematic Hydric Soils Present (F12)   Iron-Manganese Masses (F12)   Other (Explain in Remarks)   Indicators of Problematic Hydric Soils Present (F12)   Iron-Manganese Masses (F12)   Other (Explain in Remarks)   Indicators of Problematic Hydric Soils Present (F12)   Iron-Manganese Masses (F12)   Other (Explain in Remarks)   Indicators of Problematic Hydric Soils Present (F12)   Iron-Manganese Masses (F12)   Iron-Manganese Masses (F12)   Other (Explain in Remarks)   Indicators of Problematic Hydric Soils Present (F12)   Iron-Manganese Masses (F12)
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Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stripped Matrix (S6)  Loamy Mucky Mineral (F1)  Depleted Below Dark Surface (A12)  Sandy Surface (A12)  Sandy Redox (P7)  Sandy Redox (P7)  Stratified Layers (A5)  Depleted Dark Surface (A12)  Sandy Mucky Mineral (S1)  Semarks:  Indicators for Problematic Hydric Soils <sup>3</sup> :  Coast Prairie Redox (A16)  Iron-Manganese Masses (F12)  Other (Explain in Remarks)  Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Indicators of Problematic Hydric Soils Present?  Iron-Manganese Masses (F12)  Other (Explain in Remarks)  Indicators of Problematic Hydric Soils <sup>3</sup> :  Iron-Manganese Masses (F12)  Other (Explain in Remarks)  Indicators of Problematic Hydric Soils Present (R12)  Iron-Manganese Masses (F12)  Other (Explain in Remarks)  Indicators of Problematic Hydric Soils Present (R12)  Iron-Manganese Masses (F12)  Other (Explain in Remarks)  Indicators of Problematic Hydric Soils Present (R12)  Iron-Manganese Masses (F12)  Other (Explain in Remarks)  Indicators of Problematic Hydric Soils Present (R12)  Iron-Manganese Masses (F12)  Other (Explain in Remarks)  Indicators of Problematic Hydric Soils Present (R12)  Iron-Manganese Masses (F12)  Other (Explain in Remarks)  Indicators of Problematic Hydric Soils Present (R12)  Iron-Manganese Masses (F12)  Other (Explain in Remarks)  Indicators of Problematic Hydric Soils Present (R12)  Iron-Manganese Masses (F12)  Other (Explain in Remarks)  Indicators of Problematic Hydric Soils Present (R12)  Iron-Manganese Masses (F12)  Other (Explain in Remarks)  Indicators of Problematic Hydric Soils Present (R12)  Iron-Manganese Masses (F12)  Other (Explain in Remarks)  Indicators of Problematic Hydric Soils Present (R12)  Iron-Manganese Masses (F12)  Other (Explain in Remarks)  Indicators of Problematic Hydric Soils Present (R12)  Indicators of Problematic Hydric Soils Present (R12)  Indicators of Problem
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stripped Matrix (S6)  Loamy Mucky Mineral (F1)  Depleted Below Dark Surface (A12)  Sandy Surface (A12)  Sandy Redox (P7)  Sandy Redox (P7)  Stratified Layers (A5)  Depleted Dark Surface (A12)  Sandy Mucky Mineral (S1)  Semarks:  Indicators for Problematic Hydric Soils <sup>3</sup> :  Coast Prairie Redox (A16)  Iron-Manganese Masses (F12)  Other (Explain in Remarks)  Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Indicators of Problematic Hydric Soils Present?  Iron-Manganese Masses (F12)  Other (Explain in Remarks)  Indicators of Problematic Hydric Soils <sup>3</sup> :  Iron-Manganese Masses (F12)  Other (Explain in Remarks)  Indicators of Problematic Hydric Soils Present (R12)  Iron-Manganese Masses (F12)  Other (Explain in Remarks)  Indicators of Problematic Hydric Soils Present (R12)  Iron-Manganese Masses (F12)  Other (Explain in Remarks)  Indicators of Problematic Hydric Soils Present (R12)  Iron-Manganese Masses (F12)  Other (Explain in Remarks)  Indicators of Problematic Hydric Soils Present (R12)  Iron-Manganese Masses (F12)  Other (Explain in Remarks)  Indicators of Problematic Hydric Soils Present (R12)  Iron-Manganese Masses (F12)  Other (Explain in Remarks)  Indicators of Problematic Hydric Soils Present (R12)  Iron-Manganese Masses (F12)  Other (Explain in Remarks)  Indicators of Problematic Hydric Soils Present (R12)  Iron-Manganese Masses (F12)  Other (Explain in Remarks)  Indicators of Problematic Hydric Soils Present (R12)  Iron-Manganese Masses (F12)  Other (Explain in Remarks)  Indicators of Problematic Hydric Soils Present (R12)  Iron-Manganese Masses (F12)  Other (Explain in Remarks)  Indicators of Problematic Hydric Soils Present (R12)  Iron-Manganese Masses (F12)  Other (Explain in Remarks)  Indicators of Problematic Hydric Soils Present (R12)  Indicators of Problematic Hydric Soils Present (R12)  Indicators of Problem
Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stripped Matrix (S6)  Loamy Mucky Mineral (F1)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Eadox Depressions (F8)  Redox Depressions (F8)  Restrictive Layer (if observed):  Type:  N/A  Remarks:  Coast Prairie Redox (A16)  Loanty Redox (S5)  Loanty Mucky (S6)  Loanty Mucky Mineral (F1)  Depleted Matrix (F2)  Sandy Mucky Mineral (S1)  Redox Dark Surface (F6)  Andicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Hydric Soil Present?  Yes  No  X  No  X  Remarks:
Histic Epipedon (A2)  Black Histic (A3)  Black Histic (A3)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stripped Matrix (S6)  Loamy Mucky Mineral (F1)  Stratified Layers (A5)  2 cm Muck (A10)  Depleted Matrix (F3)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Edward Depleted Dark Surface (F7)  Redox Depressions (F8)  Restrictive Layer (if observed):  Type: N/A  Depth (inches): N/A  Remarks:  Coast Prairie Redox (A16)  Iron-Manganese Masses (F12)  Other (Explain in Remarks)  Other (Explain in Remarks)  Iron-Manganese Masses (F12)  Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Stratified Layers (A5) Stratified Layers (A5) Depleted Matrix (F2) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Semmarks  Redox Depressions (F8)
Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10)  Depleted Matrix (F2)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (F1)  Depleted Dark Surface (F6)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sem Mucky Mineral (S1)  Fedox Depressions (F8)  Redox Depressions (F8)  Redox Depressions (F8)  Restrictive Layer (if observed):  Type: N/A  Depth (inches): N/A  No X  Remarks:
Stratified Layers (A5)  2 cm Muck (A10)  Depleted Matrix (F2)  Depleted Matrix (F3)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Som Mucky Peat or Peat (S3)  Restrictive Layer (if observed):  Type: N/A  Depth (inches): N/A  Loamy Gleyed Matrix (F2)  Depleted Matrix (F2)  Depleted Matrix (F2)  Redox Dark Surface (F6)  hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Type: N/A  Hydric Soil Present? Yes No X
Depleted Matrix (F3) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Som Mucky Peat or Peat (S3)  Restrictive Layer (if observed): Type: N/A Depth (inches): N/A  Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8)  Problematic.  3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  4 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  4 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  4 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  4 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  4 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  5 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  5 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  5 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  6 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  6 Indicators of hydrology must be present, unless disturbed or problematic.  7 Indicators of hydrology must be present, unless disturbed hydrology must be present, unless disturb
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Som Mucky Peat or Peat (S3)  Restrictive Layer (if observed): Type: N/A Depth (inches): N/A  Remarks:  Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8)  Redox Dark Surface (F7) Redox Dark Surface (F7) Redox Dark Surface (F6) Nydrology must be present, unless disturbed or problematic.  Hydric Soil Present? Yes No X
Sandy Mucky Mineral (S1) Redox Depressions (F8) or problematic.    5 cm Mucky Peat or Peat (S3)
5 cm Mucky Peat or Peat (S3)  Restrictive Layer (if observed):
Restrictive Layer (if observed):   Type: N/A
Type:         N/A           Depth (inches):         N/A           Hydric Soil Present?         Yes
Depth (inches):         N/A         Hydric Soil Present?         Yes         No_X           Remarks:
Remarks:
Soils were historically graded. No hydric soil indicators observed. Soils were observed to be dry.
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)
Water Marks (B1)Hydrogen Sulfide Odor (C1)Crayfish Burrows (C8)
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)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5)
Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)
Field Observations:
Field Observations:
Field Observations:   Surface Water Present?
Field Observations:  Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches):
Field Observations:   Surface Water Present?
Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No Concludes capillary fringe)
Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No Concludes capillary fringe)
Field Observations:  Surface Water Present? Yes No X Depth (inches):  Water Table Present? Yes No X Depth (inches):  Saturation Present? Yes No X Depth (inches):  (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Field Observations:  Surface Water Present? Yes No X Depth (inches):  Water Table Present? Yes No X Depth (inches):  Saturation Present? Yes No X Depth (inches):  (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Remarks:
Field Observations:  Surface Water Present? Yes No X Depth (inches):  Water Table Present? Yes No X Depth (inches):  Saturation Present? Yes No X Depth (inches):  (includes capillary fringe)  Wetland Hydrology Present? Yes No  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Field Observations:  Surface Water Present? Yes No X Depth (inches):  Water Table Present? Yes No X Depth (inches):  Saturation Present? Yes No X Depth (inches):  (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Remarks:
Field Observations:  Surface Water Present? Yes No X Depth (inches):  Water Table Present? Yes No X Depth (inches):  Saturation Present? Yes No X Depth (inches):  (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Remarks:
Field Observations:  Surface Water Present? Yes No X Depth (inches):  Water Table Present? Yes No X Depth (inches):  Saturation Present? Yes No X Depth (inches):  (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Remarks:
Field Observations:  Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No Cincludes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Remarks:
Field Observations:  Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No Cincludes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Remarks:
Field Observations:  Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No Cincludes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Remarks:
Field Observations:  Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No Cincludes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Remarks:

Oak Creek/ IH-94 Mainline City/County: Milwaukee Sampling Date: <u>9/15/2009</u> Project/Site: Sampling Point: W9-9 T-1 B(w) Applicant/Owner: WDOT State: WI Eric C. Parker / Julie A. Paschal Investigator(s): Section, Township, Range: Section 19, T5N R22E Landform (hillslope, terrace, etc.): Toe of hillslope Local relief (concave, convex, none): Concave Slope (%): 2% Lat: See Fig. 2 Long: See Fig. 2 Datum: NA Soil Map Unit Name: Blount silt loam (BIA) WWI Classification: None (if no, explain in Remarks) Are climatic / hydrologic conditions on the site typical for this time of year? Are Vegetation Soil \_\_\_\_\_ or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Are Vegetation Soil \_\_\_\_\_ or Hydrology \_\_\_\_\_ naturally problematic? (if needed, explain any answers in Remarks) SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc. Yes X Hydrophytic Vegetation Present? Hydric Soil Present? Yes X No \_ Is the Sampled Area Yes X No Wetland Hydrology Present? Yes Х No within a Wetland? Remarks: arch/wat maadaw watland within a drainage

GETATION - Use scientific names for plan	Absolute %	Dominant	Indicator	Dominance Test Worksheet:
<u>e Stratum</u> (Plot Size: <u>N/A</u> )	Cover	Species	Status	
N/A				Number of Dominant Species That Are OBL, FACW, or FAC:  2 (A)
				That Are OBL, FACW, or FAC.
				Total Number of Dominant
				Species Across All Strata: 2 (B)
	0%	= Total Cover		Percent of Dominant Species
	0 /6	- Total Gover		That Are OBL, FACW, or FAC: 100% (A/B)
				· · · · · · · · · · · · · · · · · · ·
lling/Shrub Stratum (Plot Size: N/A	)			Prevalence Index Worksheet:
N/A				Total % Cover of:         Multiply by:           OBL species         12%         x 1 =         12
				FACW species $\frac{12\%}{11\%} \times 2 = \frac{12}{22}$
				FAC species 80% x 3 = 240
				FACU species x 4 =
	0%	= Total Cover		UPL species x 5 =
				Column Totals: 103% (A) 274 (B)
o Stratum (Plot Size: 5 ft. radius	<b>\</b>			Prevalence Index = B/A = 2.66
Juncus tenuis	, 50%	Yes	FAC	Frevalence index = B/A = 2.00
Poa pratensis	30%	Yes	FAC	Hydrophytic Vegetation Indicators:
Typha angustifolia	2%	No	OBL	X Dominance Test is >50%
Carex vulpinoidea	10%	No	OBL	X Prevalence Index is ≤ 3.0 <sup>1</sup>
Aster novae-angliae	5%	No	FACW	Morphological Adaptations <sup>1</sup> (Provide supporting
Phalaris arundinacea	1%	No	FACW	data in Remarks or on separate sheet)
Agrostis gigantea	5%	No	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
				1 Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
	103%	= Total Cover		
ody Vine Stratum (Plot Size: N/A	)			Hydrophytic
N/A	,			Vegetation
				Present? Yes X No
	0%	= Total Cover		

SOIL	Sampling Point:	W9-9 T-1 B(w)
		•

Depth	(Besonde to the depth nee	eded to docur	ment the indicato	r or confirm	the absen	ce of in	dicators.)				
	Matrix		O-1 (it)	Redox Feat		. 2					
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	R	emarks		
0-7	10YR 4/2	100	None				Silty clay loam				
7-15	7.5YR 5/2	100	10YR 4/6	5%	С	M	Silty clay				
											_
											_
Type: C=Concentration	on, D=Depletion, RM=Redu	ced Matrix, CS	S=Covered or Coat	ted Sand Gra	ains.		<sup>2</sup> Location: PL=Pore Linin	g, M=Matrix			
Hydric Soil Indicators	s:					Indica	ators for Problematic Hydi	ric Soils³:			
Histosol (A1)			Sandy Gleyed Mat								
Histic Epipedon (A	A2)		Sandy Redox (S5)				_ Coast Prairie Redox (A16	,			
Black Histic (A3)	(4.4)		Stripped Matrix (St	,			_ Iron-Manganese Masses Other (Explain in Remark				
Hydrogen Sulfide Stratified Layers (	• •		Loamy Mucky Min Loamy Gleyed Ma	, ,			Other (Explain in Remark	S)			
2 cm Muck (A10)	(40)		Depleted Matrix (F								
	Dark Surface (A11)		Redox Dark Surfa			3 Indic	ators of hydrophytic vegetal	tion and wetland			
Thick Dark Surface	Depleted Dark Sur	face (F7)			drology must be present, un						
Sandy Mucky Min	Redox Depression	ıs (F8)		or <sub>l</sub>	problematic.						
5 cm Mucky Peat	or Peat (S3)										
Restrictive Layer (if o	observed):										
Type: N/A											
Depth (inches):	N/A						Hydric Soil Present?	Yes X	No		
Remarks:											
HYDROLOGY											
Wetland Hydrology I	ndicators:										
Primary Indicators (min	nimum of one is required; ch	neck all that ap	oply)				Secondary Indica	tors (minimum of two	required)		
Surface Water (A	1)		Water-Stained Lea	aves (B9)			Sı	ırface Soil Cracks (B6	6)		
X High Water Table	(A2)		Aquatic Fauna (B1	,				ainage Patterns (B10	,		
Saturation (A3)			True Aquatic Plant	. ,				y-Season Water Tabl	e (C2)		
Water Marks (B1) Sediment Deposit			Hydrogen Sulfide ( Oxidized Rhizosph	. ,	an Danta (C			ayfish Burrows (C8)		C0)	
	• •		Oxidized Hillzospi	IGIGS OII LIVII		·3/	C-	sturation Vicible on Ac	rial Imagory /	U3)	
			Presence of Reduc	ced Iron (C4)		3)		aturation Visible on Acturation Visible on Acturation Visible on Acturate on A		,	
Drift Deposits (B3	•		Presence of Reduce Recent Iron Reduced Recent Iron Reduced Recent Iron Reduced Recent Iron Reduced Recent R	, ,	)	3)	St	unted or Stressed Pla	ints (D1)	,	
	t (B4)		Presence of Reduce Recent Iron Reduce Thin Muck Surface	tion in Tilled	)	3)	St		ints (D1)	·	
Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5	t (B4)		Recent Iron Reduc Thin Muck Surface Gauge or Well Dat	etion in Tilled e (C7) ta (D9)	)	3)	St	unted or Stressed Pla eomorphic Position (D	ints (D1)	ŕ	
Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Inundation Visible	t (B4) )		Recent Iron Reduc Thin Muck Surface	etion in Tilled e (C7) ta (D9)	)	3)	St	unted or Stressed Pla eomorphic Position (D	ints (D1)	·	
Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Inundation Visible Sparsely Vegetate	t (B4) ) e on Aerial Imagery (B7)		Recent Iron Reduc Thin Muck Surface Gauge or Well Dat	etion in Tilled e (C7) ta (D9)	)	(3)	St	unted or Stressed Pla eomorphic Position (D	ints (D1)		
Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Inundation Visible Sparsely Vegetate Field Observations:	t (B4) ) e on Aerial Imagery (B7) ed Concave Surface (B8)		Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in F	etion in Tilled e (C7) ta (D9)	)	23)	St	unted or Stressed Pla eomorphic Position (D	ints (D1)		
Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Inundation Visible Sparsely Vegetate	t (B4) ) e on Aerial Imagery (B7) ed Concave Surface (B8)  t? Yes	No_X	Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in F Depth (inches):	etion in Tilled e (C7) ta (D9)	)	(3)	St	unted or Stressed Pla eomorphic Position (D	ints (D1)		
Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present Water Table Present? Saturation Present?	t (B4) ) o on Aerial Imagery (B7) ed Concave Surface (B8)  t? Yes Yes Yes		Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in F	etion in Tilled e (C7) ta (D9)	)	23)	St	unted or Stressed Pla eomorphic Position (E AC-Neutral Test (D5)	ints (D1)	, 	No
Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Inundation Visible Sparsely Vegetate Field Observations: Surface Water Presen Water Table Present?	t (B4) ) o on Aerial Imagery (B7) ed Concave Surface (B8)  t? Yes Yes Yes	No X	Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in F Depth (inches):_ Depth (inches):_	etion in Tilled e (C7) ta (D9)	)	(3)	St X FA	unted or Stressed Pla eomorphic Position (E AC-Neutral Test (D5)	nts (D1)		No
Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Inundation Visible Sparsely Vegetate Field Observations: Surface Water Presen Water Table Present? (includes capillary fring	t (B4) ) o on Aerial Imagery (B7) ed Concave Surface (B8)  t? Yes Yes Yes	No X No X No X	Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in F Depth (inches): Depth (inches): Depth (inches):	etion in Tilled e (C7) la (D9) Remarks)	Soils (C6)	33)	St X FA	unted or Stressed Pla eomorphic Position (E AC-Neutral Test (D5)	nts (D1)	<u> </u>	No
Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Inundation Visible Sparsely Vegetate Field Observations: Surface Water Presen Water Table Present? (includes capillary fring	t (B4) ) e on Aerial Imagery (B7) ed Concave Surface (B8)  t? Yes Yes Yes Ge)	No X No X No X	Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in F Depth (inches): Depth (inches): Depth (inches):	etion in Tilled e (C7) la (D9) Remarks)	Soils (C6)	33)	St X FA	unted or Stressed Pla eomorphic Position (E AC-Neutral Test (D5)	nts (D1)	· · · · · · · · · · · · · · · · · · ·	No
Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Inundation Visible Sparsely Vegetate Field Observations: Surface Water Presen Water Table Present? (includes capillary fring	t (B4) ) e on Aerial Imagery (B7) ed Concave Surface (B8)  t? Yes Yes Yes Ge)	No X No X No X	Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in F Depth (inches): Depth (inches): Depth (inches):	etion in Tilled e (C7) la (D9) Remarks)	Soils (C6)	3)	St X FA	unted or Stressed Pla eomorphic Position (E AC-Neutral Test (D5)	nts (D1)	<u> </u>	No
Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary fring Describe Recorded Da	t (B4) ) e on Aerial Imagery (B7) ed Concave Surface (B8)  t? Yes Yes Yes Ge)	No X No X No X	Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in F Depth (inches): Depth (inches): Depth (inches):	etion in Tilled e (C7) la (D9) Remarks)	Soils (C6)	(3)	St X FA	unted or Stressed Pla eomorphic Position (E AC-Neutral Test (D5)	nts (D1)		No
Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present Water Table Present? (includes capillary fring) Describe Recorded Da	t (B4) ) e on Aerial Imagery (B7) ed Concave Surface (B8)  t? Yes Yes Yes Ge)  ata (stream gauge, monitoring)	No X No X No X	Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in F Depth (inches): Depth (inches): Depth (inches):	etion in Tilled e (C7) ia (D9) Remarks)	Soils (C6)		St GG X F/	unted or Stressed Pla eomorphic Position (D AC-Neutral Test (D5)	Yes	<u>-</u>	
Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present Water Table Present? (includes capillary fring) Describe Recorded Da  Remarks: This sample pe	t (B4) ) e on Aerial Imagery (B7) ed Concave Surface (B8)  t? Yes Yes Yes ge)  ata (stream gauge, monitoring)	No X No X No X	Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in F Depth (inches): Depth (inches): Depth (inches):	etion in Tilled e (C7) ia (D9) Remarks)	Soils (C6)		St GG X F/	unted or Stressed Pla eomorphic Position (D AC-Neutral Test (D5)	Yes	<u>-</u>	
Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present Water Table Present? (includes capillary fring) Describe Recorded Da	t (B4) ) e on Aerial Imagery (B7) ed Concave Surface (B8)  t? Yes Yes Yes ge)  ata (stream gauge, monitoring)	No X No X No X	Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in F Depth (inches): Depth (inches): Depth (inches):	etion in Tilled e (C7) ia (D9) Remarks)	Soils (C6)		St GG X F/	unted or Stressed Pla eomorphic Position (D AC-Neutral Test (D5)	Yes	<u>-</u>	
Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present Water Table Present? (includes capillary fring) Describe Recorded Da  Remarks: This sample pe	t (B4) ) e on Aerial Imagery (B7) ed Concave Surface (B8)  t? Yes Yes Yes ge)  ata (stream gauge, monitoring)	No X No X No X	Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in F Depth (inches): Depth (inches): Depth (inches):	etion in Tilled e (C7) ia (D9) Remarks)	Soils (C6)		St GG X F/	unted or Stressed Pla eomorphic Position (D AC-Neutral Test (D5)	Yes	<u>-</u>	
Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present Water Table Present? (includes capillary fring) Describe Recorded Da  Remarks: This sample pe	t (B4) ) e on Aerial Imagery (B7) ed Concave Surface (B8)  t? Yes Yes Yes ge)  ata (stream gauge, monitoring)	No X No X No X	Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in F Depth (inches): Depth (inches): Depth (inches):	etion in Tilled e (C7) ia (D9) Remarks)	Soils (C6)		St GG X F/	unted or Stressed Pla eomorphic Position (D AC-Neutral Test (D5)	Yes	<u>-</u>	
Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present Water Table Present? (includes capillary fring) Describe Recorded Da  Remarks: This sample pe	t (B4) ) e on Aerial Imagery (B7) ed Concave Surface (B8)  t? Yes Yes Yes ge)  ata (stream gauge, monitoring)	No X No X No X	Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in F Depth (inches): Depth (inches): Depth (inches):	etion in Tilled e (C7) ia (D9) Remarks)	Soils (C6)		St GG X F/	unted or Stressed Pla eomorphic Position (D AC-Neutral Test (D5)	Yes	<u>-</u>	
Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present Water Table Present? (includes capillary fring) Describe Recorded Da  Remarks: This sample pe	t (B4) ) e on Aerial Imagery (B7) ed Concave Surface (B8)  t? Yes Yes Yes ge)  ata (stream gauge, monitoring)	No X No X No X	Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in F Depth (inches): Depth (inches): Depth (inches):	etion in Tilled e (C7) ia (D9) Remarks)	Soils (C6)		St GG X F/	unted or Stressed Pla eomorphic Position (D AC-Neutral Test (D5)	Yes	<u>-</u>	
Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present Water Table Present? (includes capillary fring) Describe Recorded Da  Remarks: This sample pe	t (B4) ) e on Aerial Imagery (B7) ed Concave Surface (B8)  t? Yes Yes Yes ge)  ata (stream gauge, monitoring)	No X No X No X	Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in F Depth (inches): Depth (inches): Depth (inches):	etion in Tilled e (C7) ia (D9) Remarks)	Soils (C6)		St GG X F/	unted or Stressed Pla eomorphic Position (D AC-Neutral Test (D5)	Yes	<u>-</u>	
Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present Water Table Present? (includes capillary fring) Describe Recorded Da  Remarks: This sample pe	t (B4) ) e on Aerial Imagery (B7) ed Concave Surface (B8)  t? Yes Yes Yes ge)  ata (stream gauge, monitoring)	No X No X No X	Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in F Depth (inches): Depth (inches): Depth (inches):	etion in Tilled e (C7) ia (D9) Remarks)	Soils (C6)		St GG X F/	unted or Stressed Pla eomorphic Position (D AC-Neutral Test (D5)	Yes	<u>-</u>	

Oak Creek/ Sampling Date: <u>9/9/2009</u> IH-94 Mainline Project/Site: City/County: Milwaukee Sampling Point: W10-1 T-1 A(u) Applicant/Owner: WDOT State: WI Marcus S. Anderson / Tina M. Myers Section, Township, Range: Section 30, T5N R22E Investigator(s): Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): None Datum: NA Slope (%): 2-3% Lat: See Fig. 2 Long: See Fig. 2 Ashkum silty clay loam (AsA) WWI Classification: E2K Soil Map Unit Name: Are climatic / hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks) Soil or Hydrology Are "Normal Circumstances" present? Are Vegetation significantly disturbed? Are Vegetation Soil \*\*X or Hydrology naturally problematic? (if needed, explain any answers in Remarks) SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes \_\_\_\*X\_\_\_ Hydric Soil Present? Yes No Is the Sampled Area Wetland Hydrology Present? No within a Wetland? Yes Х \* The vegetation is naturally problematic; this is a degraded plant community with only two dominant species-one FACW species and one FACU species. \*\* The soils are naturally problematic due to a deep, dark A horizon. This area is higher in the elevation than the adjacent wetland, has questionable vegetation, and shows no signs of wetland hydrology. It is GRAEF's professional opinion that this area is non-wetland. The area appears to have been drained as a result of ditching. **VEGETATION** - Use scientific names for plants Absolute % Dominant **Dominance Test Worksheet:** Free Stratum (Plot Size: N/A Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: (B) = Total Cover 0% Percent of Dominant Species That Are OBL. FACW, or FAC: 50% (A/B) Prevalence Index Worksheet: apling/Shrub Stratum (Plot Size: N/A ) 1. N/A Multiply by: OBL species FACW species 60% x 2 120 FAC species 240 FACU species = Total Cover **UPL** species x 5 : 360 Column Totals: (A) Herb Stratum (Plot Size: 5 ft. radius Prevalence Index = B/A = 3.00 Phalaris arundinacea 60% **Hydrophytic Vegetation Indicators:** Cirsium arvense 60% Dominance Test is >50% Prevalence Index is ≤ 3.01 Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on separate sheet) Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 120% (Plot Size: Voody Vine Stratum N/A Hydrophytic 1. **N/A** Vegetation Present? 0% = Total Cover Remarks: (Include photo numbers here or on a separate sheet.) The vegetation is problematic; this is a degraded plant community with only two dominant species-one FACW species and one FACU species. No other species were observed in this area.

SOIL Sampling Point: W10-1 T-1 A(u)

Profile Description: (C	Describe to the depth ne	eded to docur	ment the indicato	or or confire	n the abser	ice of in	dicators.)					<b>=</b>	
Depth (2	Matrix	caca to accur	nent the malaute	Redox Fea		.00 01 111	idioatoro.,						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks				
0-25	10YR 2/1	100	None				Silt loam						
25-27	10YR 2/1	100	7.5YR 4/6	1%	С	М	Silt loam						
<sup>1</sup> Type: C=Concentration	n, D=Depletion, RM=Redu	ced Matrix, CS	S=Covered or Coa	ted Sand G	rains.		<sup>2</sup> Location: PL=Pore Lini	ng, M=Matrix					
Hydric Soil Indicators:	:					Indica	ators for Problematic Hyd	dric Soils³:					
Histosol (A1)	2)		Sandy Gleyed Ma				Ot Dusinis Davis (A4	0)					
Histic Epipedon (A2 Black Histic (A3)	2)		Sandy Redox (S5) Stripped Matrix (S				Coast Prairie Redox (A1 Iron-Manganese Masse						
Hydrogen Sulfide (A	A4)		Loamy Mucky Min	,			Other (Explain in Remar	. ,					
Stratified Layers (A			Loamy Gleyed Ma					,					
2 cm Muck (A10)													
	Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Redox Dark Surface (F6) Depleted Dark Surface (F7)					<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed							
Sandy Mucky Mine	, ,		Depleted Dark Su Redox Depressior				drology must be present, u problematic.	nless disturbed					
5 cm Mucky Peat o	15 (ГО)		OI	problematic.									
Restrictive Layer (if ob					1								
Type: N/A	oserveu).												
Depth (inches):	N/A						Hydric Soil Present?	Yes	No	Х			
. , ,													
HYDROLOGY													
	diameters.												
Wetland Hydrology Inc	mum of one is required; cl	hook all that ar	only)				Socondary India	ators (minimum c	of two required)				
Surface Water (A1)			Water-Stained Lea	avec (RQ)				Surface Soil Crack					
High Water Table (			Aquatic Fauna (B					Prainage Patterns	. ,				
Saturation (A3)			True Aquatic Plan	ts (B14)				Dry-Season Water	Table (C2)				
Water Marks (B1)			Hydrogen Sulfide	. ,				Crayfish Burrows (	. ,				
Sediment Deposits	(B2)		Oxidized Rhizospl			(3)		Saturation Visible		/ (C9)			
Drift Deposits (B3) Algal Mat or Crust (	(B4)		Presence of Redu Recent Iron Redu		,			Stunted or Stresse Geomorphic Positi	. ,				
Iron Deposits (B5)	(54)		Thin Muck Surface		a oono (oo)			AC-Neutral Test					
	on Aerial Imagery (B7)		Gauge or Well Da						,				
Sparsely Vegetated	d Concave Surface (B8)		Other (Explain in I	Remarks)									
Field Observations:													
Surface Water Present?	Yes	No X	Depth (inches):										
Water Table Present?	Yes	No X	Depth (inches):		_								
Saturation Present? (includes capillary fringe	Yes	No X	Depth (inches):		_		Wetland Hydrology Pro	esent?	Yes_		No_	<u> X</u>	
Describe Recorded Data	a (stream gauge, monitorio	ng well, aerial	pnotos, previous i	nspections)	if available:								
Remarks:													
This area is hig	her in the elevation th	nan the adja	cent wetland a	nd appeai	s to have	been d	Irained as a result of o	litching. No w	etland hydrolo	gy ind	licato	rs	
observed.													

Oak Creek/

Project/Site:	IH-94 Mainlin	е				City/County: Milwaukee Sampling Date: 9/9/2009
Applicant/Owner:	WDOT					State: WI Sampling Point: W10-1 T-1 B(w)
Investigator(s):	Marcus S. An	derson	/ Tina M. Myers	i		Section, Township, Range: Section 30, T5N R22E
Landform (hillslope, te	errace, etc.):		Hillslope			Local relief (concave, convex, none): Concave
Slope (%): 0-1%		Lat	See Fig. 2		Long: See	e Fig. 2 Datum: NA
Soil Map Unit Name:	Ashk	um silty	clay loam (AsA	A)		WWI Classification: E2K
Are climatic / hydrolog	gic conditions on th	ne site ty	pical for this time			Yes X No (if no, explain in Remarks)
Are Vegetation			or Hydrology		antly disturbed?	Are "Normal Circumstances" present?  Yes X  No
Are Vegetation	Soil		or Hydrology	natural	ly problematic?	(if needed, explain any answers in Remarks)
SUMMARY OF FIND	INGS Attach si	te map	showing sampl	ing point locati	ons, transects, in	mportant features, etc.
Hydrophytic Vegetation	on Present?		Yes X	No		
Hydric Soil Present?			Yes X			Is the Sampled Area Yes X No
Wetland Hydrology Pr	resent?		Yes X	_ No		within a Wetland?
Remarks:						
VEGETATION - Use s	scientific names fo	r plants.	Absolute %	Dominant	Indicator	
Tree Stratum (Plot Si	ize: <b>N/A</b>	)	Cover	Species	Status	Dominance Test Worksheet:
1. <b>N/A</b> 2.		_				Number of Dominant Species That Are OBL, FACW, or FAC:  2 (A)
3.		_				Total Number of Dominant
4.		_				Species Across All Strata: 2 (B)
·		_	0%	= Total Cover		Percent of Dominant Species
						That Are OBL, FACW, or FAC:(A/B)
Sapling/Shrub Stratun	m (Plot Size:	N/A	)			Prevalence Index Worksheet:  Total % Cover of: Multiply by:
2.		_				OBL species x 1 =
_		_				FACW species x 2 =
4		_				FAC species x 3 =
5		_	0%	= Total Cover		FACU species
			078	- Total Gover		Column Totals: (A) (B)
Herb Stratum (Plot Si	ize: <b>5 ft. r</b>	adius	)			Prevalence Index = B/A =
1. Typha angustifo	olia	_	50%	Yes	OBL	
2. Phalaris arundir	nacea	_	60%	Yes	FACW	Hydrophytic Vegetation Indicators:
3		_				X Dominance Test is >50% Prevalence Index is ≤ 3.0¹
5.		_				Morphological Adaptations <sup>1</sup> (Provide supporting
						data in Remarks or on separate sheet)
7		_				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
9.		_				1 Indicators of hydric soil and wetland hydrology must
10.		_				be present, unless disturbed or problematic.
			110%	= Total Cover		
Woody Vine Stratum  1. N/A	(Plot Size:	<u>N/A</u>	)			Hydrophytic Vegetation
2		_	0%	= Total Cover		Present? Yes <u>X</u> No
Remarks: (Include phe This is a ditch	oto numbers here		. ,	y.		

SOIL Sampling Point: W10-1 T-1 B(w)

F													
Profile Description:	(Describe to the depth nee	eded to docur	ment the indicato	r or confirn	n the absen	ce of in	dicators.)						
Depth	Matrix			Redox Fea			_						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks				
0-16	10YR 2/1	100	None				Silt loam						
16-22	10YR 2/1	100	10YR 4/4	2%	С	М	Silt loam						
22-24	10YR 2/1	70	None				Silt loam	Small shells ob	served				
	10YR 5/2	30	10YR 5/6	10%	С	М	Silt loam	<u> </u>	00.100				
	10111 3/2		101113/0	10 /6		IVI	Silt Ioaiii						
1							21 51 5 1						
Type: C=Concentrati	ion, D=Depletion, RM=Redu	ced Matrix, CS	S=Covered or Coa	ted Sand Gi	ains.		<sup>2</sup> Location: PL=Pore Lin	ing, M=Matrix					
Hydric Soil Indicator	rs:					Indica	ators for Problematic Hy	dric Soils <sup>3</sup> :					
Histosol (A1)			Sandy Gleyed Ma										
Histic Epipedon (	A2)		Sandy Redox (S5)				Coast Prairie Redox (A	,					
Black Histic (A3)			Stripped Matrix (S		Iron-Manganese Masses (F12)								
Hydrogen Sulfide	• •		Loamy Mucky Min	, ,			Other (Explain in Rema	irks)					
Stratified Layers	, ,		Loamy Gleyed Ma										
2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6)							ators of hydrophytic year	tation and watland					
	X Thick Dark Surface (A12)  Depleted Dark Surface (F7)							Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed					
Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Redox Depressions (F8)						or problematic.							
Sandy Mucky Mineral (S1) Som Mucky Peat or Peat (S3)  Redox Depressions (F8)							problematic.						
					Т								
Restrictive Layer (if	observed):												
Type: N/A													
Depth (inches):	N/A						Hydric Soil Present?	Yes X	No				
Remarks:													
HYDROLOGY													
Wetland Hydrology I	ndiantara:												
		and the stand	amb A				Casandani Indi	antara (minimum of to					
	inimum of one is required; cl			(Da)			_	cators (minimum of ty					
Surface Water (A	,		Water-Stained Lea	. ,				Surface Soil Cracks (	,				
High Water Table Saturation (A3)	e (A2)		Aquatic Fauna (B1 True Aquatic Plan					Drainage Patterns (B Dry-Season Water Ta					
Water Marks (B1)	)		Hydrogen Sulfide										
Sediment Deposi	,		Oxidized Rhizosph	. ,	ing Roots (C	Crayfish Burrows (C8)  ts (C3)  X Saturation Visible on Aerial Imagery (C9)							
Drift Deposits (B3	• •		Presence of Redu			s (C3) X Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)							
Algal Mat or Crus	,		Recent Iron Reduc		,	• • • • • • • • • • • • • • • • • • • •							
Iron Deposits (B5			Thin Muck Surface		, ,			FAC-Neutral Test (D5	, ,				
Inundation Visible	e on Aerial Imagery (B7)		Gauge or Well Da	ta (D9)									
Sparsely Vegetat	ted Concave Surface (B8)		Other (Explain in F	Remarks)									
Field Ober 11													
Field Observations:													
Surface Water Present		No X	Depth (inches): Depth (inches):		_								
Water Table Present? Saturation Present?		No X No X	Depth (inches):		_		Wetland Hydrology P	recent?	Voc. V	No			
(includes capillary fring	ge) Yes	NO X	Deptil (iliches).		-		Wetland Hydrology F	esent:	Yes X	No			
	ata (stream gauge, monitorii visible on aerial photog		photos, previous i	nspections),	if available:								
Remarks:			,						•				
riomano.													

Oak Creek/

	IH-94 Mainline			City/County: Milwaukee Sampling Date: 9/2/2009
Applicant/Owner:	WDOT			State: WI Sampling Point: W10-3 T-1 A(u)
nvestigator(s):	Tina M. Myers / .	Julie A. Paschal		Section, Township, Range: Section 29, T5N R22E
andform (hillslope, ter	rrace, etc.):	Hillslope		Local relief (concave, convex, none): Concave
Slope (%): 20%		Lat: See Fig. 2	Lone	g: See Fig. 2 Datum: NA
Soil Map Unit Name:		on silt loam (Mma)		WWI Classification: None
Are climatic / hydrologi				Yes X No (if no, explain in Remarks)
Are Vegetation	Soil _	or Hydrology	significantly disturb	
Are Vegetation	Soil	or Hydrology	naturally problema	tic? (if needed, explain any answers in Remarks)
SUMMARY OF FINDI	NGS Attach site	map showing sampli	ing point locations, transe	cts, important features, etc.
Hydrophytic Vegetation	n Present?	Yes	No X	_
Hydric Soil Present?		Yes	No X	Is the Sampled Area Yes NoX
Wetland Hydrology Pre	esent?	Yes	No X	within a Wetland?
VEGETATION - Use s	cientific names for pl	lants. Absolute %	Dominant Indicator	
Tree Stratum (Plot Siz	ze: <u>N/A</u> )	Absolute %	Species Status	Dominance rest worksneet.
1. <b>N/A</b> 2.				Number of Dominant Species That Are OBL, FACW, or FAC:  1 (A)
3.				Total Number of Dominant
4.				Species Across All Strata: 2 (B)
5.		0%	= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: 50% (A/B)
Sapling/Shrub Stratum  1. N/A  2  3  4  5	ı (Plot Size: N	0%	= Total Cover	Prevalence Index Worksheet:
Herb Stratum (Plot Siz 1. <b>Solidago canade</b>		ius ) 75%	Yes FACU	Prevalence Index = B/A = 3.54
2. Phalaris arundina 3. Cirsium arvense 4. 5.		25% 10%	Yes FACW No FACU	Hydrophytic Vegetation Indicators:  Dominance Test is >50% Prevalence Index is ≤ 3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
6 7 8				Problematic Hydrophytic Vegetation (Explain)
6. 7. 8. 9.		110%	= Total Cover	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7. 8. 9.	(Plot Size: N		= Total Cover	<sup>1</sup> Indicators of hydric soil and wetland hydrology must

SOIL Sampling Point: W10-3 T-1 A(u)

	Color (moist)	%	Color (moist)	Redox Feat	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Re	emarks	
	OYR 2/1	100	None				Silt loam			
	OYR 2/1	50	None				Silt loam			
8-22	OYR 4/3	50	7.5YR 4/6	5%	С	М	Loamy sand			
0-22 1	JTR 4/3		7.5111 4/0	3%		IVI	Loanly Sand			
<u> </u>										
Гуре: C=Concentration, D	=Depletion, RM=Reduced	d Matrix. CS	S=Covered or Coate	ed Sand Gra	ains.		<sup>2</sup> Location: PL=Pore Lining,	. M=Matrix		
lydric Soil Indicators:		,				Indica	tors for Problematic Hydric			
Histosol (A1)			Sandy Gleyed Matr	ix (S4)						
Histic Epipedon (A2)			Sandy Redox (S5)				Coast Prairie Redox (A16)			
Black Histic (A3)		Stripped Matrix (S6	,			Iron-Manganese Masses (F	,			
Hydrogen Sulfide (A4)		Loamy Mucky Mine	. ,			Other (Explain in Remarks)	)			
Stratified Layers (A5)			Loamy Gleyed Mati	. ,						
2 cm Muck (A10)			Depleted Matrix (F3			3				
Depleted Below Dark S	, ,		Redox Dark Surfac				ators of hydrophytic vegetation			
Thick Dark Surface (A	,		Depleted Dark Surf	. ,			drology must be present, unle	ess disturbed		
Sandy Mucky Mineral ( 5 cm Mucky Peat or Pe		<u> </u>	Redox Depressions	S (F8)		or p	oroblematic.			
estrictive Layer (if obser	1 7									
Type: N/A										
Depth (inches):	/A						Hydric Soil Present?	Yes	No <u>X</u>	
emarks:										
The soils are very	drv									
The sons are very	uiy.									
HYDROLOGY										
Vetland Hydrology Indica	tors:									
rimary Indicators (minimu		k all that an	nnly)				Secondary Indicate	ors (minimum of two	required)	
Surface Water (A1)	ir or one to required; error		Water-Stained Leav	(OC (BQ)				face Soil Cracks (B6		
				. ,				,	,	
High Water Table (A2)			Aquatic Fauna (B13					inage Patterns (B10)	,	
Saturation (A3)			True Aquatic Plants	, ,				-Season Water Table	e (G2)	
Water Marks (B1)			Hydrogen Sulfide C	. ,	D . (00			yfish Burrows (C8)	(00)	
	2)		Oxidized Rhizosphe			5)		uration Visible on Ae		
Sediment Deposits (B2			Presence of Reduc	. ,				nted or Stressed Pla	. ,	
Drift Deposits (B3)			Recent Iron Reduct		Soils (C6)			omorphic Position (D	02)	
Drift Deposits (B3) Algal Mat or Crust (B4)				(C7)			FAC	C-Neutral Test (D5)		
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)			Thin Muck Surface							
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A	erial Imagery (B7)		Gauge or Well Data	(D9)						
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	erial Imagery (B7)			(D9)						
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co	erial Imagery (B7)		Gauge or Well Data	(D9)						
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co ield Observations:	erial Imagery (B7) encave Surface (B8)		Gauge or Well Data Other (Explain in R	(D9)						
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co leld Observations: urface Water Present?	erial Imagery (B7) encave Surface (B8) Yes		Gauge or Well Data Other (Explain in Re Depth (inches):	a (D9) emarks)						
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co ield Observations: urface Water Present? //ater Table Present?	rerial Imagery (B7) Incave Surface (B8)  Yes Yes	No X No X	Gauge or Well Data Other (Explain in Re Depth (inches): Depth (inches):	a (D9) emarks)				ent?	Yes	No. 3
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A	erial Imagery (B7) encave Surface (B8) Yes	No_X	Gauge or Well Data Other (Explain in Re Depth (inches):	a (D9) emarks)			Wetland Hydrology Prese	ent?	Yes	No
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co eld Observations: urface Water Present? atter Table Present? atturation Present? acturation Present?	rerial Imagery (B7) Incave Surface (B8)  Yes Yes Yes Yes	No X No X No X	Gauge or Well Data Other (Explain in Reduced Properties of Proper	a (D9) emarks)	if available:			ent?	Yes	No
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co leid Observations: urface Water Present? later Table Present? aturation Present? includes capillary fringe)	rerial Imagery (B7) Incave Surface (B8)  Yes Yes Yes Yes	No X No X No X	Gauge or Well Data Other (Explain in Reduced Properties of Proper	a (D9) emarks)	if available:			ent?	Yes	No
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co ield Observations: urface Water Present? Atter Table Present? atturation Present? includes capillary fringe)	rerial Imagery (B7) Incave Surface (B8)  Yes Yes Yes Yes	No X No X No X	Gauge or Well Data Other (Explain in Reduced Properties of Proper	a (D9) emarks)	if available:			ent?	Yes	No
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co ield Observations: urface Water Present? Vater Table Present? aturation Present?	rerial Imagery (B7) Incave Surface (B8)  Yes Yes Yes Yes	No X No X No X	Gauge or Well Data Other (Explain in Reduced Properties of Proper	a (D9) emarks)	if available:			ent?	Yes	No
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co ield Observations: urface Water Present? //ater Table Present? aturation Present? noludes capillary fringe) escribe Recorded Data (s	rerial Imagery (B7) Incave Surface (B8)  Yes Yes Yes Yes	No X No X No X	Gauge or Well Data Other (Explain in Reduced Properties of Proper	a (D9) emarks)	if available:			ent?	Yes	No
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co ield Observations: urface Water Present? //ater Table Present? aturation Present? noludes capillary fringe) escribe Recorded Data (s	rerial Imagery (B7) Incave Surface (B8)  Yes Yes Yes Yes	No X No X No X	Gauge or Well Data Other (Explain in Reduced Properties of Proper	a (D9) emarks)	if available:			ent?	Yes	No
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co ield Observations: urface Water Present? Atter Table Present? atturation Present? noludes capillary fringe) escribe Recorded Data (seemarks:	rerial Imagery (B7) Incave Surface (B8)  Yes Yes Yes Yes Tream gauge, monitoring	No X No X No X	Gauge or Well Data Other (Explain in Re Depth (inches): Depth (inches): Depth (inches): Depth (inches):	a (D9) emarks) spections), i		v wetla				No
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co leid Observations: urface Water Present? later Table Present? aturation Present? acturation Present? includes capillary fringe) escribe Recorded Data (seemarks: This sample point	ream gauge, monitoring	No X No X No X well, aerial pope adjace	Gauge or Well Data Other (Explain in Ri Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches):	a (D9) emarks) spections), i	et meadow		Wetland Hydrology Prese	nning beneath th		No
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co ield Observations: urface Water Present? Pater Table Present? aturation Present? acturation Prese	ream gauge, monitoring	No X No X No X well, aerial pope adjace	Gauge or Well Data Other (Explain in Ri Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches):	a (D9) emarks) spections), i	et meadow		Wetland Hydrology Prese	nning beneath th		No
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Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co eld Observations: urface Water Present? attration Present? attration Present? acturation Present?	ream gauge, monitoring	No X No X No X well, aerial pope adjace	Gauge or Well Data Other (Explain in Ri Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches):	a (D9) emarks) spections), i	et meadow		Wetland Hydrology Prese	nning beneath th		No
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co eld Observations: Inface Water Present? atter Table Present? atturation Present? cludes capillary fringe) escribe Recorded Data (semarks: This sample point	ream gauge, monitoring	No X No X No X well, aerial pope adjace	Gauge or Well Data Other (Explain in Ri Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches):	a (D9) emarks) spections), i	et meadow		Wetland Hydrology Prese	nning beneath th		No
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co leid Observations: urface Water Present? later Table Present? aturation Present? acturation Present? includes capillary fringe) escribe Recorded Data (seemarks: This sample point	ream gauge, monitoring	No X No X No X well, aerial pope adjace	Gauge or Well Data Other (Explain in Ri Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches):	a (D9) emarks) spections), i	et meadow		Wetland Hydrology Prese	nning beneath th		No

Oak Creek/ IH-94 Mainline Sampling Date: <u>9/2/2009</u> Project/Site: City/County: Milwaukee Applicant/Owner: WDOT State: WI Sampling Point: W10-3 T-1 B(w) Tina M. Myers / Julie A. Paschal Section, Township, Range: Section 29, T5N R22E Investigator(s): Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): Concave Slope (%): 0-2% Lat: See Fig. 2 Long: See Fig. 2 Datum: NA Sebewa silt loam (Sm) WWI Classification: T3/E2K Soil Map Unit Name: Are climatic / hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks) Soil Are Vegetation or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X Are Vegetation Soil or Hydrology naturally problematic? (if needed, explain any answers in Remarks) SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc. Yes X Hydrophytic Vegetation Present? No Hydric Soil Present? Yes X No Is the Sampled Area X No Wetland Hydrology Present? Х Yes No within a Wetland? Remarks: This is a wet meadow/shallow marsh wetland located adjacent to Oak Creek running beneath the Ryan Road northbound exit ramp. East of this area, the wetland transitions into a forested riparian wetland. VEGETATION - Use scientific names for plants Indicator Absolute % **Dominance Test Worksheet:** Free Stratum (Plot Size: N/A Number of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species Across All Strata: (B) 0% = Total Cover Percent of Dominant Species 100% (A/B) That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot Size: Prevalence Index Worksheet: Total % Cover of: Multiply by: 1. N/A OBL species FACW species x 2 = FAC species x 3 = **FACU** species x 4 = = Total Cover **UPL** species x 5 : Column Totals: (A) Herb Stratum (Plot Size: 5 ft. radius Prevalence Index = B/A = Phalaris arundinacea 75% **FACW** Typha angustifolia 25% OBL Hydrophytic Vegetation Indicators: 3. Cirsium arvense FACU X Dominance Test is >50% Prevalence Index is ≤ 3.01 Solidago gigantea 20% FACW Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on separate sheet) Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) 1 Indicators of hydric soil and wetland hydrology must 10 be present, unless disturbed or problematic. 125% = Total Cover Woody Vine Stratum (Plot Size: N/A Hydrophytic 1. N/A Vegetation Present? Yes X No = Total Cover 0% Remarks: (Include photo numbers here or on a separate sheet.) This is a shallow marsh/wet meadow plant community dominated by invasive Phalaris arundinacea and Typha spp.

SOIL Sampling Point: W10-3 T-1 B(w)

Type: N/A Depth (inches): N/A  Hydric Soil Present? Yes X No  Remarks: Shells observed within the soil profile from 6-16 inches.  HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Hydrology Indicators (minimum of two required) Surface Water (A1) Hydrology Indicators (minimum of two required) Surface Water (A1) Hydrology Indicators (minimum of two required) Surface Water (A1) Hydrology Indicators (minimum of two required) Surface Water (A1) Hydrology Indicators (minimum of two required) Surface Soil Cracks (B6) For Janiage Patterns (B10) X Drainage Patterns (B10) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Sediment Deposits (B2) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)  Field Observations: Surface Water Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No Depth (inches):	1 Type: C=Concentration, D=1 Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) X Depleted Below Dark Su Thick Dark Surface (A12) Sandy Mucky Mineral (S 5 cm Mucky Peat or Pea Restrictive Layer (if observe Type: N/A Depth (inches): N/A Remarks: Shells observed with	rface (A11) 1) 1) t (S3)	100	S=Covered or Coat Sandy Gleyed Matis Sandy Redox (S5) Stripped Matrix (S6 Loamy Mucky Mine Loamy Gleyed Matis Depleted Matrix (F6 Redox Dark Surfa Depleted Dark Surfa	rix (S4)  3) eral (F1) trix (F2) 3) ce (F6) face (F7)		PL/M Silt  2 Loc  Indicators for Other  3 Indicators or hydrology or probler	cation: PL=Pore Lin or Problematic Hy st Prairie Redox (A Manganese Masse er (Explain in Rema of hydrophytic vege or must be present, in	rdric Soils <sup>3</sup> :  .16) .es (F12) .trks)  tation and wetland unless disturbed		
Type: C-Concentration, D-Depletion, RM-Reduced Matrix, CS-Covered or Coated Sand Grains.   *Location: PL-Pore Lining, M-Matrix   *Hydric Soil Indicators:   *Histosoi (A1)   *Sandy, Gleyed Matrix (S4)   *Sandy Grains (S5)   *Coast Prairie Redox (A16)   *Sandy Redox (S5)   *Coast Prairie Redox (A16)   *Sandy Redox (S5)   *Sa	Hydric Soil Indicators: Histosol (A1) Histosel (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) X Depleted Below Dark Su Thick Dark Surface (A12) Sandy Mucky Mineral (S 5 cm Mucky Peat or Pea Restrictive Layer (if observe Type: N/A Depth (inches): N/A Remarks: Shells observed with	rface (A11) 1) 1) t (S3) ed):	Matrix, CS	S=Covered or Coat Sandy Gleyed Mati Sandy Redox (S5) Stripped Matrix (S6 Loamy Mucky Mine Loamy Gleyed Mati Depleted Matrix (F6 Redox Dark Surfa Depleted Dark Surfa	rix (S4)  3) eral (F1) trix (F2) 3) ce (F6) face (F7)		<sup>2</sup> Loc Indicators for Coas Iron Other  3 Indicators or hydrology or probler	or Problematic Hy st Prairie Redox (A Manganese Masse er (Explain in Rema of hydrophytic vege r must be present, a matic.	rdric Soils <sup>3</sup> :  .16) .es (F12) .trks)  tation and wetland unless disturbed		
Hydric Soll Indicators:  Histoso (A1)  Sandy Gleyed Matrix (S4)  Black Histic (A3)  Sandy Redox (S5)  Black Histic (A3)  Sirripped Matrix (S6)  Black Histic (A3)  Sirripped Matrix (S6)  Black Histic (A3)  Soll Praintine Redox (A16)  Ton-Wanganese Masses (F12)  Other (Explain in Remarks)  Tother (Explain in Remarks)  Tother (Explain in Remarks)  Thick Dark Surface (A11)  Redox Dark Surface (F6)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Fedox Depressions (F8)  Redox Depressions (F8)  Remarks:  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Fedox Depressions (F8)  Remarks:  Thick Dark Surface (To Problematic	Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) X Depleted Below Dark Su Thick Dark Surface (A12 Sandy Mucky Mineral (S 5 cm Mucky Peat or Pea Restrictive Layer (if observed Type: N/A Depth (inches): N/A Remarks: Shells observed with	rface (A11) ) 1) t (S3) ed):		Sandy Gleyed Mati Sandy Redox (S5) Stripped Matrix (S6 Loamy Mucky Mine Loamy Gleyed Mat Depleted Matrix (F: Redox Dark Surfa Depleted Dark Surfa	rix (S4) 6) eral (F1) trix (F2) 3) ce (F6) face (F7)	ains.	Coas Iron-Other	or Problematic Hy st Prairie Redox (A Manganese Masse er (Explain in Rema of hydrophytic vege r must be present, a matic.	rdric Soils <sup>3</sup> :  .16) .es (F12) .trks)  tation and wetland unless disturbed		
Notice Soil Indicators:  Histosci (A1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Sorripped Matrix (S6)  Black Histic (A3)  Stripped Matrix (S6)  Loamy Mucky Mineral (F1)  Stratified Layers (A5)  Loamy Gleyed Matrix (F2)  Zom Muck (A10)  Depleted Matrix (F2)  Zom Muck (A10)  Depleted Matrix (F2)  Depleted Dark Surface (A11)  Redox Dark Surface (F3)  Sondy Mucky Mineral (S1)  Redox Depressions (F8)  Present (Boserved):  Type: M/A  Depth (inches): M/A  Netracks:  Shells observed within the soil profile from 6-16 inches.   WYOROLOGY  Welland Hydrology Indicators:  Within High Water Table (A2)  Sondy Mucky Mineral (S1)  Sondy Mineral (S	Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) X Depleted Below Dark Su Thick Dark Surface (A12 Sandy Mucky Mineral (S 5 cm Mucky Peat or Pea Restrictive Layer (if observed Type: N/A Depth (inches): N/A Remarks: Shells observed with	rface (A11) ) 1) t (S3) ed):		Sandy Gleyed Mati Sandy Redox (S5) Stripped Matrix (S6 Loamy Mucky Mine Loamy Gleyed Mat Depleted Matrix (F: Redox Dark Surfa Depleted Dark Surfa	rix (S4) 6) eral (F1) trix (F2) 3) ce (F6) face (F7)	ains.	Coas Iron-Other	or Problematic Hy st Prairie Redox (A Manganese Masse er (Explain in Rema of hydrophytic vege r must be present, a matic.	rdric Soils <sup>3</sup> :  .16) .es (F12) .trks)  tation and wetland unless disturbed		
Holicators: Histosol (A1) Histosol (A1) Histosol (A2) Sandy Redox (S5) Soli Prairie Redox (A16) Horo-Manganese Masses (F12) Under (Explain in Remarks)  Trin-Manganese Masses (F12) Under	Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) X Depleted Below Dark Su Thick Dark Surface (A12 Sandy Mucky Mineral (S 5 cm Mucky Peat or Pea Restrictive Layer (if observed Type: N/A Depth (inches): N/A Remarks: Shells observed with	rface (A11) ) 1) t (S3) ed):		Sandy Gleyed Mati Sandy Redox (S5) Stripped Matrix (S6 Loamy Mucky Mine Loamy Gleyed Mat Depleted Matrix (F: Redox Dark Surfa Depleted Dark Surfa	rix (S4) 6) eral (F1) trix (F2) 3) ce (F6) face (F7)	ains.	Coas Iron-Other	or Problematic Hy st Prairie Redox (A Manganese Masse er (Explain in Rema of hydrophytic vege r must be present, a matic.	rdric Soils <sup>3</sup> :  .16) .es (F12) .trks)  tation and wetland unless disturbed		
Notice Soil Indicators:  Histosci (A1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Sorripped Matrix (S6)  Black Histic (A3)  Stripped Matrix (S6)  Loamy Mucky Mineral (F1)  Stratified Layers (A5)  Loamy Gleyed Matrix (F2)  Zom Muck (A10)  Depleted Matrix (F2)  Zom Muck (A10)  Depleted Matrix (F2)  Depleted Dark Surface (A11)  Redox Dark Surface (F3)  Sondy Mucky Mineral (S1)  Redox Depressions (F8)  Present (Boserved):  Type: M/A  Depth (inches): M/A  Netracks:  Shells observed within the soil profile from 6-16 inches.   WYOROLOGY  Welland Hydrology Indicators:  Within High Water Table (A2)  Sondy Mucky Mineral (S1)  Sondy Mineral (S	Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) X Depleted Below Dark Su Thick Dark Surface (A12 Sandy Mucky Mineral (S 5 cm Mucky Peat or Pea Restrictive Layer (if observed Type: N/A Depth (inches): N/A Remarks: Shells observed with	rface (A11) ) 1) t (S3) ed):		Sandy Gleyed Mati Sandy Redox (S5) Stripped Matrix (S6 Loamy Mucky Mine Loamy Gleyed Mat Depleted Matrix (F: Redox Dark Surfa Depleted Dark Surfa	rix (S4) 6) eral (F1) trix (F2) 3) ce (F6) face (F7)	ains.	Coas Iron-Other	or Problematic Hy st Prairie Redox (A Manganese Masse er (Explain in Rema of hydrophytic vege r must be present, a matic.	rdric Soils <sup>3</sup> :  .16) .es (F12) .trks)  tation and wetland unless disturbed		
Hydric Soil Indicators:  Histos (A1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Sandy Redox (S5)  Black Histic (A3)  Stripped Matrix (S6)  Black Histic (A3)  Stripped Matrix (S6)  Loamy Gleyed Matrix (F2)  2 cm Musk (A10)  Depleted Matrix (F2)  2 cm Musk (A10)  Depleted Matrix (F2)  Sandy Mucky Mineral (F1)  Sandy Mucky Mineral (F1)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Redox Depressions (F8)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Some Mucky Mineral (S1)  Some Mucky Mineral (S1)  Depleted Dark Surface (F7)  Redox Depressions (F8)  Hydric Soil Present?  Hydric Soil Present, unless disturbed or problematic.  **Propriet Matrix (B4)  **Proprie	Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) X Depleted Below Dark Su Thick Dark Surface (A12 Sandy Mucky Mineral (S 5 cm Mucky Peat or Pea Restrictive Layer (if observed Type: N/A Depth (inches): N/A Remarks: Shells observed with	rface (A11) ) 1) t (S3) ed):		Sandy Gleyed Mati Sandy Redox (S5) Stripped Matrix (S6 Loamy Mucky Mine Loamy Gleyed Mat Depleted Matrix (F: Redox Dark Surfa Depleted Dark Surfa	rix (S4) 6) eral (F1) trix (F2) 3) ce (F6) face (F7)	ains.	Coas Iron-Other	or Problematic Hy st Prairie Redox (A Manganese Masse er (Explain in Rema of hydrophytic vege r must be present, a matic.	rdric Soils <sup>3</sup> :  .16) .es (F12) .trks)  tation and wetland unless disturbed		
Histic Epipedon (A2) Sandy Redox (S5) Sirpped Matrix (S4) Histic Epipedon (A2) Slady Redox (S5) Sirpped Matrix (S6) Sirpped Ma	Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) X Depleted Below Dark Su Thick Dark Surface (A12 Sandy Mucky Mineral (S 5 cm Mucky Peat or Pea Restrictive Layer (if observed) Type: N/A Depth (inches): N/A Remarks: Shells observed with	) 1) t (S3) ed):		Sandy Redox (S5) Stripped Matrix (S6 Loamy Mucky Mine Loamy Gleyed Mat Depleted Matrix (F3 Redox Dark Surfa Depleted Dark Surfa	6) eral (F1) trix (F2) 3) ce (F6) face (F7)		Coas Iron- Other	st Prairie Redox (A Manganese Masse er (Explain in Rema of hydrophytic vege er must be present, matic.	.16) ps (F12) arks) tation and wetland unless disturbed		
Histic Epipedon (A2) Sandy Redox (S5) Coast Prairie Redox (A16) Cother (Explain in Remarks)  Statilitied Layers (A5) Loamy Mucky Mineral (F1) Cother (Explain in Remarks)  Z com Muck (A10) Depited Matrix (F2) Depited Matrix (F2) Depited Matrix (F3) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Pack Surface (A12) Depited Dark Surface (F7) Redox Dark Surface (F7) Redox Dark Surface (F7) Redox Dark Surface (F7) Redox Depressions (F8) Problematic.  Set mucky Peat or Peat (S3)  Restrictive Layer (If observed):  Type: N/A  Depth (inches): N/A  N/BROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Surface (A12) Surface (A13) Surface (A13) Surface (A13) Surface (A13) Surface (A13) Surface (A14) Surface (A15) Surface (A15) Surface (A15) Surface (A16) Surface	Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) X Depleted Below Dark Su Thick Dark Surface (A12 Sandy Mucky Mineral (S 5 cm Mucky Peat or Pea Restrictive Layer (if observed Type: N/A Depth (inches): N/A Remarks: Shells observed with	) 1) t (S3) ed):		Sandy Redox (S5) Stripped Matrix (S6 Loamy Mucky Mine Loamy Gleyed Mat Depleted Matrix (F3 Redox Dark Surfa Depleted Dark Surfa	6) eral (F1) trix (F2) 3) ce (F6) face (F7)		Iron-Othe	Manganese Masse er (Explain in Rema of hydrophytic vege r must be present, i matic.	es (F12) arks) tation and wetland unless disturbed		
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Redox Dark Surface (A11)	X Depleted Below Dark Su Thick Dark Surface (A12 Sandy Mucky Mineral (S 5 cm Mucky Peat or Pea Restrictive Layer (if observed Type: N/A Depth (inches): N/A Remarks: Shells observed with	) 1) t (S3) ed):	F	Redox Dark Surface Depleted Dark Surf	ce (F6) face (F7)		hydrology or probler	must be present, matic.	unless disturbed		
Trick Dark Surface (A12)	Thick Dark Surface (A12 Sandy Mucky Mineral (S 5 cm Mucky Peat or Pea Restrictive Layer (if observed N/A Depth (inches): N/A Remarks: Shells observed with	) 1) t (S3) ed):	F	Depleted Dark Sur	face (F7)		hydrology or probler	must be present, matic.	unless disturbed		
Sandy Mucky Mineral (S1)	Sandy Mucky Mineral (S 5 cm Mucky Peat or Pea  Restrictive Layer (if observed Type: N/A Depth (inches): N/A  Remarks: Shells observed with  HYDROLOGY	1) t (S3) ed):	F	•	. ,		or probler	matic.			
Restrictive Layer (if observed): Type: NA Depth (inches): NIA Hydric Soil Present? Yes X No  Remarks: Shells observed within the soil profile from 6-16 inches.  HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Hydrology Indicators (minimum of two required) High Water Table (A2) X Aquatic Fauna (B13) X Saturation (A3) True Aquatic Plants (B14) Hydrology Sudice Plants (B14) Sediment Deposits (B2) Nater Marks (B1) Sediment Deposits (B2) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Indicators (Minimum of two required) Sediment Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Indicators (Minimum of two required) Sediment Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Indicator (Minimum of two required) Sediment Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Indicator (Minimum of two required) Sediment Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Titled Soils (C6) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)  Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Yes X No Methods Present? Yes No Depth (inches): Yes X No Methods Present? Yes No Depth (inches): Yes X No Yes Yes X No Depth (inches): Yes X No Yes Yes X No	5 cm Mucky Peat or Pea  Restrictive Layer (if observed to be peak of the peak	t (S3) ed):		Redox Depression:	s (F8)				Vos. V		
Restrictive Layer (if observed): Type: N/A Depth (inches): N/A Depth (inches): N/A  Hydric Soil Present? Yes X No  Remarks: Shells observed within the soil profile from 6-16 inches.  HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Surface Water (A1) Surface Water (A1) Surface Soil Cracks (B6) High Water Table (A2) X Aquatic Fauna (B13) X Darianage Patterns (B10) Dry-Season Water Table (C2) Water Marks (B1) Algal Mat or Crust (B4) In Presence of Reduced Iron (C4) In Deposits (B3) Presence of Reduced Iron (C4) In Deposits (B3) In Recent Iron Reduction in Tilled Soils (C6) In Indator Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)  Field Observations: Surface Water Present? Ves X No Depth (inches): Water Table Present? Ves X No Depth (inches): Wetland Hydrology Present? Ves X No Depth (inches): Wetland Hydrology Present? Ves X No Depth (inches): Wetland Hydrology Present? Ves X No Depth (inches):	Restrictive Layer (if observed Type: N/A Depth (inches): N/A Depth (inches): N/A Remarks: Shells observed with HYDROLOGY	ed):	rom 6-16				Hydi		Vos V		
Type: N/A Depth (inches): N/A  Hydric Soil Present? Yes X No  Remarks: Shells observed within the soil profile from 6-16 inches.  HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Hydrology Indicators (minimum of two required) Surface Water (A1) Hydrology Indicators (minimum of two required) Surface Water (A1) Hydrology Indicators (minimum of two required) Surface Water (A1) Hydrology Indicators (minimum of two required) Surface Water (A1) Hydrology Indicators (minimum of two required) Surface Soil Cracks (B6) For Janiage Patterns (B10) X Drainage Patterns (B10) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Sediment Deposits (B2) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)  Field Observations: Surface Water Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No Depth (inches):	Type: N/A  Depth (inches): N/A  Remarks:  Shells observed with	· \	rom 6-16				Hydi		Vos V		
Remarks: Shells observed within the soil profile from 6-16 inches.  Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  Surface Water (A2)  Surface Water (A3)  Surface Soil Cracks (B6)  Tue Aquatic Plants (B14)  Dry-Season Water Table (C2)  Water Marks (B1)  Sediment Deposits (B2)  Surface Water (A3)  Surface Soil Cracks (B6)  Tue Aquatic Plants (B14)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Other (Explain in Remarks)  Wetland Hydrology Present?  Yes  No  Depth (inches):  Wetland Hydrology Present?  Yes  No  Depth (inches):  Yes  No  Wetland Hydrology Present?  Yes  No  Wetland Hydrology Present?  Yes  No  Wetland Hydrology Present?	Remarks: Shells observed with		rom 6-16				Hydi		Voc V		
Shells observed within the soil profile from 6-16 inches.  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  X Saturation (A3)  X Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Other (Explain in Remarks)  Field Observations:  Surface Water Present?  Yes  No  X Depth (inches):  Wetland Hydrology Present?  Yes  X No  Depth (inches):  Wetland Hydrology Present?  Yes  X No  No  Wetland Hydrology Present?  Yes  X No  Wetland Hydrology Present?	Shells observed with	hin the soil profile fr	rom 6-16		ŀ		iiyu	ric Soil Present?	162 X	No	
Shells observed within the soil profile from 6-16 inches.  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  X Saturation (A3)  X Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Other (Explain in Remarks)  Field Observations:  Surface Water Present?  Yes  No  X Depth (inches):  Wetland Hydrology Present?  Yes  X No  Depth (inches):  Wetland Hydrology Present?  Yes  X No  No  Wetland Hydrology Present?  Yes  X No  Wetland Hydrology Present?	Shells observed with	hin the soil profile fr	rom 6-16								
Surface Water (A1)											
High Water Table (A2)  X Aquatic Fauna (B13)  X Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Inundation Visible on Aerial Imagery (B7)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Suturation (A3)  X Drainage Patterns (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)  FAC-Neutral Test (D5)  FAC-Neutral Test (D5)  Sparsely Vegetated Concave Surface (B8)  Other (Explain in Remarks)  Field Observations:  Surface Water Present?  Water Table Present?  Yes  No  Depth (inches):  Saturation (Present?  Yes  No  Depth (inches):  Saturation (Present?  Yes  No  Depth (inches):  Saturation (Present?  Yes  No  Depth (inches):  Yes  No  Depth (inches):  Saturation (Present?  Yes  No  Depth (inches):  Yes  No  Depth (inches):  Yes  No  No  Depth (inches):  Saturation Present?  Yes  No  No  Depth (inches):  Yes  No  No  Depth (inches):  Yes  No  No  No  Depth (inches):  Yes  No  No  Depth (inches):  Yes  No  No  Depth (inches):  Yes  No  No  No  No  Depth (inches):  Yes  No  No  No  Depth (inches):  No  No  No  Depth (inches):  No  No  No  No  No  No  No  No  No  N		of one is required; check									
X Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2)  Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8)  Sediment Deposits (B2) X 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)  Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2)  Iron Deposits (B5) Thin Muck Surface (C7) X FAC-Neutral Test (D5)  Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9)  Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)  Field Observations:  Surface Water Present? Yes No X Depth (inches):  Water Table Present? Yes No Depth (inches):  Saturation (C3) Saturation Visible on Aerial Imagery (C9)  Thin Muck Surface (C7) X FAC-Neutral Test (D5)  A FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes X No Depth (inches):					, ,					, ,	
Water Marks (B1)	. , ,				,				-	, ,	
Sediment Deposits (B2) X 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)  Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2)  Iron Deposits (B5) Thin Muck Surface (C7) X FAC-Neutral Test (D5)  Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)  Field Observations:  Surface Water Present? Yes No X Depth (inches):  Water Table Present? Yes No X Depth (inches):  Saturation Visible on Aerial Imagery (C9)  Staturation Visible on Aerial Imagery (C9)  Geomorphic Position (D2)  FAC-Neutral Test (D5)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes X No	• • •				, ,				•	, ,	
Drift Deposits (B3) Algal Mat or Crust (B4) Inon Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)  Field Observations:  Water Table Present?  Yes No X Depth (inches): Saturation Present?  Yes X No Depth (inches): Saturation Present?  Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): Yes X No No Depth (inches): Yes X No No Depth (inches): Yes X No No No Depth (inches): Yes X No						na Booto (C	2)		,	,	
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Sparsely Vegetated Concave Surface (B8)Other (Explain in Remarks)State   Concave Surface (B8)State   Concave Surfa		rial Imagery (B7)			. ,					( - /	
Surface Water Present?         Yes         No         X         Depth (inches):           Water Table Present?         Yes         No         X         Depth (inches):         Wetland Hydrology Present?         Yes         X         No           Saturation Present?         Yes         X         No         Depth (inches):         7         Wetland Hydrology Present?         Yes         X         No	Sparsely Vegetated Con	cave Surface (B8)									
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				' ' -		•					
3-7		Yes X	No	Depth (inches):	7	•	Weti	land Hydrology Pr	resent?	Yes X	No_
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Saturation Present? (includes capillary fringe)	Yes X	No	Depth (inches):	_	if available:	Wetl	land Hydrology Pr	resent?	Yes_X_	N
	Oak Creek is visible	on the aerial as wer	ii as soiii	e ligiter tones i	iii Soille at	ujaceni an	eas sugges	ting dominance	OI FIIAIAIIS AII	unumacea .	
Oak Creek is visible on the aerial as well as some lighter tones in some adjacent areas suggesting dominance of Phalaris arundinacea.											
Oak Greek is visible on the aerial as wen as some lighter tones in some adjacent areas suggesting dominance of Finalaris arunumacea.	Remarks:										
Can Greek is visible on the aerial as well as some lighter tones in some adjacent areas suggesting dominance of Finalars arundinacea.	Remarks:	allow march wotlan	d is locat	tod adiacont to	Oak Crool	k which is	procumod	to provide wetle	and hydrology	This area is at a lo	wor
Remarks:				-			produnica	o provide welle	and nyurology.	Timo di od io di d io	
Remarks: This wet meadow/shallow marsh wetland is located adjacent to Oak Creek which is presumed to provide wetland hydrology. This area is at a lower	cicvation in the tope	grapity than the sur	· · · · · · · · · · · · · · · · · · ·	g apiana misio	pcs.						
Remarks:											
Remarks: This wet meadow/shallow marsh wetland is located adjacent to Oak Creek which is presumed to provide wetland hydrology. This area is at a lower											
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Remarks: This wet meadow/shallow marsh wetland is located adjacent to Oak Creek which is presumed to provide wetland hydrology. This area is at a lower											
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WETLAND DETERMINATION DATA FORM - Midwest Region Oak Creek/ Sampling Date: 9/9/2009 Project/Site: IH-94 Mainline City/County: Milwaukee Sampling Point: W10-4 T-2 A(u) Applicant/Owner: WDOT State: WI Investigator(s): Marcus S. Anderson / Tina M. Myers Section, Township, Range: Section 29, T5N R22E Slight hillslope Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): None Long: See Fig. 2 Slope (%): 1-3% Lat: See Fig. 2 Datum: NA Soil Map Unit Name: Sebewa silt loam (Sm) WWI Classification: None Are climatic / hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks) Soil \_\_\_\_\_ or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Are Vegetation Are Vegetation Soil \_\_\_\_ or Hydrology naturally problematic? (if needed, explain any answers in Remarks) SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes\_\_\_\_ Hydric Soil Present? Yes X No \_ Is the Sampled Area Yes\_\_\_\_\_ No\_\_\_ Yes Wetland Hydrology Present? No within a Wetland? Remarks: VEGETATION - Use scientific names for plants Absolute % Indicator

Tree Stratum (Plot Size: 30 ft. radius )	Cover	Species	Status	Dominance rest worksheet.
1. Fagus grandifolia	10%	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2				Total Number of Dominant Species Across All Strata: (B)
<u>.                                    </u>	10%	= Total Cover		Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
Sapling/Shrub Stratum (Plot Size: N/A 1. N/A	)			Prevalence Index Worksheet:  Total % Cover of:  Multiply by:
2. 3. 4.				OBL species
5	0%	= Total Cover		UPL species
Herb Stratum (Plot Size: 5 ft. radius  1. Phalaris arundinacea	90%	Yes	FACW	Prevalence Index = B/A = 2.43
2. Cirsium arvense 3. 4. 5. 6. 7. 8.		No		Hydrophytic Vegetation Indicators:
9.		= Total Cover		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot Size: N/A  1. N/A  2	0%	= Total Cover		Hydrophytic Vegetation Present? Yes No_X_

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

Phalaris arundinacea becomes more dense downslope within the wetland boundaries and the *Cirsium arvense* is no longer present. The vegetation at this sample point meets the Prevalence Index and the FAC-Neutral Test but does not meet the Dominance Test. In addition, there were no wetland hydrology indicators observed at this sample point. *Phalaris arundinacea* is an opportunistic species often found within upland areas. It is professional opinion that this is an upland, old field plant community.

SOIL Sampling Point: W10-4 T-2 A(u)

**Type: C=Concentration, D=Depletion, RM=Reduced Mat  **Hydric Soil Indicators:*  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  5 cm Mucky Peat or Peat (S3)	% Color (moist)  None  100 10YR 4/4  trix, CS=Covered or Coate  Sandy Gleyed Matr Sandy Redox (S5) Stripped Matrix (S6 Loamy Mucky Mine Loamy Gleyed Matr Loamy Gleyed Matr Depleted Matrix (F3 X Redox Dark Surfac Depleted Dark Surf	ix (S4) ) oral (F1) rix (F2)	Indicators for P	n: PL=Pore Lining, roblematic Hydric airie Redox (A16) ganese Masses (F	Soils <sup>3</sup> :		
8-20  1 Type: C=Concentration, D=Depletion, RM=Reduced Mat Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) 5 cm Mucky Peat or Peat (S3)	Sandy Gleyed Matr Sandy Redox (S5) Stripped Matrix (S6 Loamy Mucky Mine Loamy Gleyed Matr Depleted Matrix (F6 X Redox Dark Surface	ed Sand Grains. ix (S4) ) ral (F1) rix (F2)	<sup>2</sup> Locatio Indicators for P Coast PrIron-Mar	n: PL=Pore Lining, roblematic Hydric airie Redox (A16) ganese Masses (F	Soils <sup>3</sup> :		
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 c m Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) 5 cm Mucky Peat or Peat (S3)	Sandy Gleyed Matr Sandy Redox (S5) Stripped Matrix (S6 Loamy Mucky Mine Loamy Gleyed Matr Depleted Matrix (F3 X Redox Dark Surfac	ix (S4) ) oral (F1) rix (F2)	Indicators for P	roblematic Hydric airie Redox (A16) ganese Masses (F	Soils <sup>3</sup> :		
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) 5 cm Mucky Peat or Peat (S3)	Sandy Gleyed Matr Sandy Redox (S5) Stripped Matrix (S6 Loamy Mucky Mine Loamy Gleyed Matr Depleted Matrix (F3 X Redox Dark Surfac	ix (S4) ) oral (F1) rix (F2)	Indicators for P	roblematic Hydric airie Redox (A16) ganese Masses (F	Soils <sup>3</sup> :		
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) 5 cm Mucky Peat or Peat (S3)	Sandy Gleyed Matr Sandy Redox (S5) Stripped Matrix (S6 Loamy Mucky Mine Loamy Gleyed Matr Depleted Matrix (F3 X Redox Dark Surfac	ix (S4) ) oral (F1) rix (F2)	Indicators for P	roblematic Hydric airie Redox (A16) ganese Masses (F	Soils <sup>3</sup> :		<u> </u>
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) 5 cm Mucky Peat or Peat (S3)	Sandy Gleyed Matr Sandy Redox (S5) Stripped Matrix (S6 Loamy Mucky Mine Loamy Gleyed Matr Depleted Matrix (F3 X Redox Dark Surfac	ix (S4) ) oral (F1) rix (F2)	Indicators for P	roblematic Hydric airie Redox (A16) ganese Masses (F	Soils <sup>3</sup> :		
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) 5 cm Mucky Peat or Peat (S3)	Sandy Redox (S5) Stripped Matrix (S6 Loamy Mucky Mine Loamy Gleyed Matrix Depleted Matrix (F3 X Redox Dark Surface	eral (F1) rix (F2)	Coast Pr	airie Redox (A16) ganese Masses (F			
Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  5 cm Mucky Peat or Peat (S3)	Sandy Redox (S5) Stripped Matrix (S6 Loamy Mucky Mine Loamy Gleyed Matrix Depleted Matrix (F3 X Redox Dark Surface	eral (F1) rix (F2)	Iron-Mar	ganese Masses (F	12)		
Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) 5 cm Mucky Peat or Peat (S3)	Stripped Matrix (S6 Loamy Mucky Mine Loamy Gleyed Matrix Depleted Matrix (F3 X Redox Dark Surface	ral (F1) rix (F2)	Iron-Mar	ganese Masses (F	12)		
Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) 5 cm Mucky Peat or Peat (S3)	Loamy Mucky Mine Loamy Gleyed Matri Depleted Matrix (F3 X Redox Dark Surface	ral (F1) rix (F2)		•			
Stratified Layers (A5)  2 cm Muck (A10)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  5 cm Mucky Peat or Peat (S3)	Loamy Gleyed Matrix Depleted Matrix (F3 X Redox Dark Surface	rix (F2)		xplain in Remarks)	,		
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) 5 cm Mucky Peat or Peat (S3)	X Redox Dark Surfac	3)		,			
Thick Dark Surface (A12) Sandy Mucky Mineral (S1) 5 cm Mucky Peat or Peat (S3)		-,					
Sandy Mucky Mineral (S1) 5 cm Mucky Peat or Peat (S3)	Depleted Dark Surf			drophytic vegetatio			
5 cm Mucky Peat or Peat (S3)		, ,		st be present, unle	ss disturbed		
• • • • • • • • • • • • • • • • • • • •	Redox Depressions	s (F8)	or problemati	C.			
Restrictive Layer (if observed):							
Type: N/A  Depth (inches): N/A			Hydric S	ioil Present?	Yes X	No	
Remarks:							
HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all to surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)	Water-Stained Leav Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduc	3) s (B14) bdor (C1) eres on Living Roots (Ceed Iron (C4) ition in Tilled Soils (C6) (C7) a (D9)		Surfa Drai  Dry- Cray Satu Stun Geo	rs (minimum of two race Soil Cracks (B6) nage Patterns (B10) Season Water Table fish Burrows (C8) rration Visible on Aerited or Stressed Plar morphic Position (D2-Neutral Test (D5)	e (C2) rial Imagery (C9) nts (D1)	_
Field Observations:							
Surface Water Present? Yes No Water Table Present? Yes No Saturation Present? Yes No (includes capillary fringe)	X Depth (inches):		Wetland	Hydrology Prese	nt?	Yes	No X

Oak Creek/ IH-94 Mainline Sampling Date: 9/9/2009 Project/Site: City/County: Milwaukee Sampling Point: W10-4 T-2 B(w) Applicant/Owner: WDOT State: WI Investigator(s): Marcus S. Anderson Section, Township, Range: Section 29, T5N R22E Local relief (concave, convex, none): Landform (hillslope, terrace, etc.): Depression Concave Slope (%): 0-1% Lat: See Fig. 2 Long: See Fig. 2 Datum: NA Soil Map Unit Name: Sebewa silt loam (Sm) WWI Classification: None (if no, explain in Remarks) Are climatic / hydrologic conditions on the site typical for this time of year? Soil \_\_\_\_\_ or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes X Are Vegetation Are Vegetation Soil \_\_\_\_ or Hydrology naturally problematic? (if needed, explain any answers in Remarks) SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc. Yes X Hydrophytic Vegetation Present? No Yes X No \_\_\_\_ Hydric Soil Present? Yes X No \_ Is the Sampled Area Yes Х Wetland Hydrology Present? No within a Wetland? Remarks: This is a wet meadow wetland within a drainage area along IH-94 at the Ryan Road interchange.

Tree Stratum (Plot Size: N/A  1. N/A  2.	,	Cover				
1. <b>N/A</b>			Species	Status	Number of Dominant Species	
2.					That Are OBL, FACW, or FAC:	
	-				(' ')	
3.	-				Total Number of Dominant	
4.					Species Across All Strata: 1 (B)	
5.					(=)	
-	-	0%	= Total Cover		Percent of Dominant Species	
					That Are OBL, FACW, or FAC: 100% (A/B)	
apling/Shrub Stratum (Plot Size:	N/A	)			Prevalence Index Worksheet:	-
1. <b>N/A</b>		,			Total % Cover of: Multiply by:	
2.	-				OBL species x 1 =	
3.	-				FACW species x 2 =	
4.					FAC species x 3 =	
5.					FACU species x 4 =	
-	-	0%	= Total Cover		UPL species	
					Column Totals: (A) (B)	()
						,
Herb Stratum (Plot Size: 5 ft. ra	dius	)			Prevalence Index = B/A =	
1. Phalaris arundinacea		100%	Yes	FACW	Trovalonos indox = 5/71 =	
2.	-				Hydrophytic Vegetation Indicators:	
3.					X Dominance Test is >50%	
4.					Prevalence Index is ≤ 3.0 <sup>1</sup>	
					Morphological Adaptations <sup>1</sup> (Provide supporting	
5	-				data in Remarks or on separate sheet)	
6	-				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
7					rroblematic riyurophytic vegetation (Explain)	
8					1 Indicators of hydric soil and wetland hydrology must	
9					be present, unless disturbed or problematic.	
10	-	100%	= Total Cover		be present, unless disturbed or problematic.	
		100%	= Total Cover			
Voody Vine Stratum (Plot Size:	NI/A	,			Under a best c	
• •	N/A	)			Hydrophytic	
1. N/A	-				Vegetation	
2	-	0%	= Total Cover		Present? Yes X No No	
		0%	= Total Cover			

The plant community at this sample point is a Phalaris arundinacea monotype.

Sampling Point: W10-4 T-2 B(w) Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Depth Matrix (inches Color (moist) % 10YR 2/1 Silt loam )-6 100 10YR 4/4 -18 10YR 2/1 100 10% С М Silt loam Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix Hydric Soil Indicators: Indicators for Problematic Hydric Soils<sup>3</sup>: Sandy Gleyed Matrix (S4) Histosol (A1) Histic Epipedon (A2) Coast Prairie Redox (A16) Sandy Redox (S5) Stripped Matrix (S6) Iron-Manganese Masses (F12) Black Histic (A3) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Other (Explain in Remarks) Stratified Layers (A5) Loamy Gleyed Matrix (F2) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) X Redox Dark Surface (F6) <sup>3</sup> Indicators of hydrophytic vegetation and wetland Thick Dark Surface (A12) Depleted Dark Surface (F7) hydrology must be present, unless disturbed Sandy Mucky Mineral (S1) Redox Depressions (F8) or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: N/A Depth (inches): N/A **Hydric Soil Present?** Yes X No\_ Remarks:

SOIL

HYDROLOGY		
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check a	ill that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)	Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks)	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) X Geomorphic Position (D2) X FAC-Neutral Test (D5)
Water Table Present? Yes N	Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches): Il, aerial photos, previous inspections), if available:	Wetland Hydrology Present? Yes X No
Remarks: This wetland is within a drainage area alo	ng IH-94 at the Ryan Road interchange.	



# APPENDIX D WETS Analysis

#### **WETS Analysis**

Project Site: IH 94 (North - South)

Period of interest: May - July County: Milwaukee

Long-term rainfall records (from WETS table)

		3 years in 10	Normal	3 years in 10				
	Month	less than	INUITIAI	greater than				
1st month prior:	July	2.40	3.58	4.28				
2nd month prior:	June	2.34	3.56	4.28				
3rd month prior:	May	1.80	3.06	3.71				

Sum = **10.20** 

Site determination

_								
	Site	Condition	Condition**	Month				
	Rainfall (in)	Dry/Normal*/Wet	Value	Weight	Product			
	2.30	Dry	1	3	3			
	6.11	Wet	3	2	6			
	2.80	Normal	2	1	2			
Sum =	11.21			Sum*** =	11			

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

Determination: Wet

Dry

\*\*Condition value: \*\*\*If sum is:

X Normal

Dry = 1 6 to 9 then period has been drier than normal

Normal = 2 10 to 14 then period has been normal

Wet = 3 15 to 18 then period has been wetter than normal

Precipitation data source: MILWAUKEE MITCHELL AP, WI839

WETS Station: MILWAUKEE MITCHELL AP, WI839

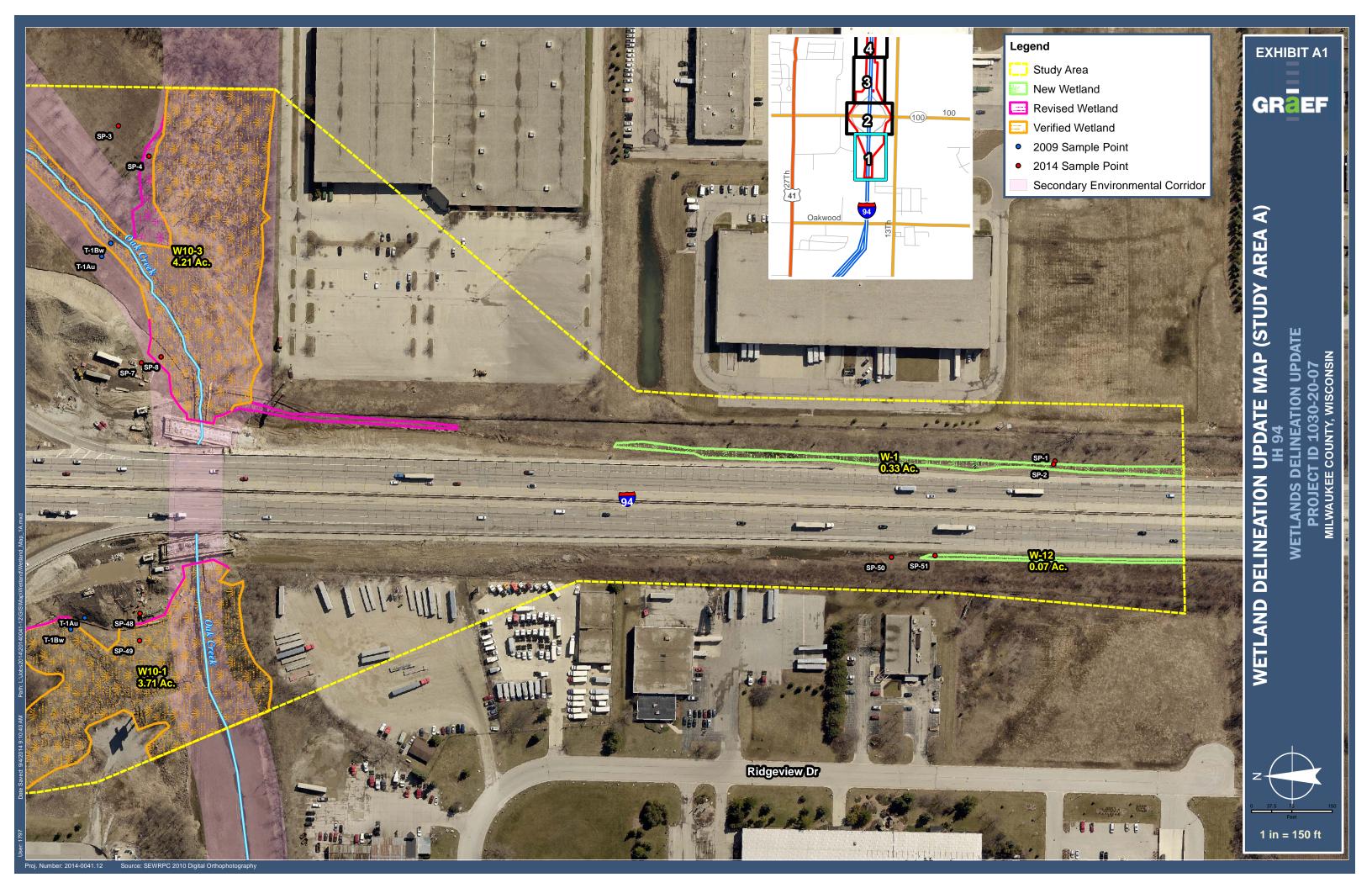
Reference:

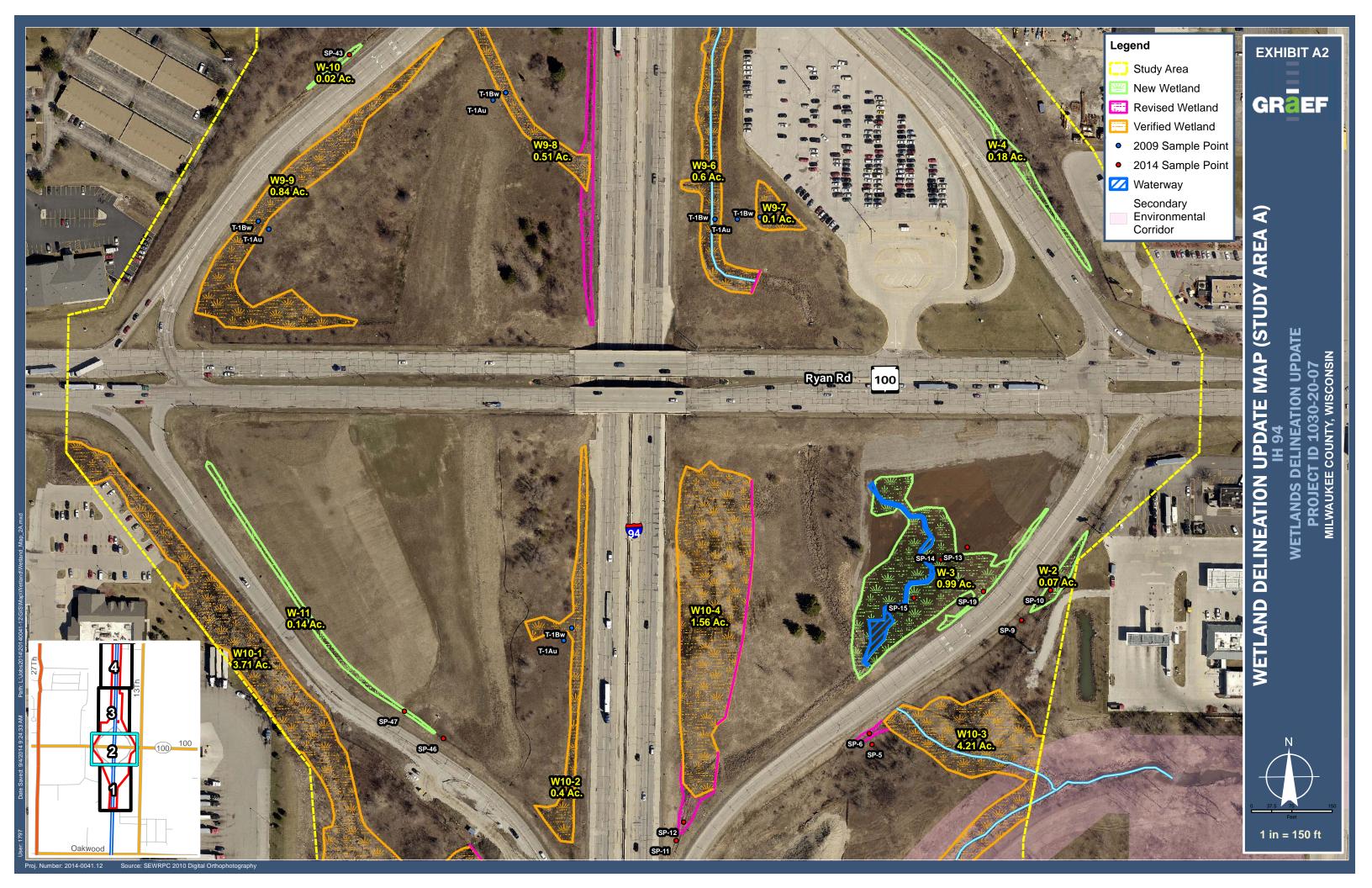
Donald E.Woodward, ed. 1997. *Hydrology Tools for Wetland Determination*, Chapter 19. Engineering Field Handbook. U.S. Department of Agriculture, Natural Resources Conservation Service, Fort Worth, TX.

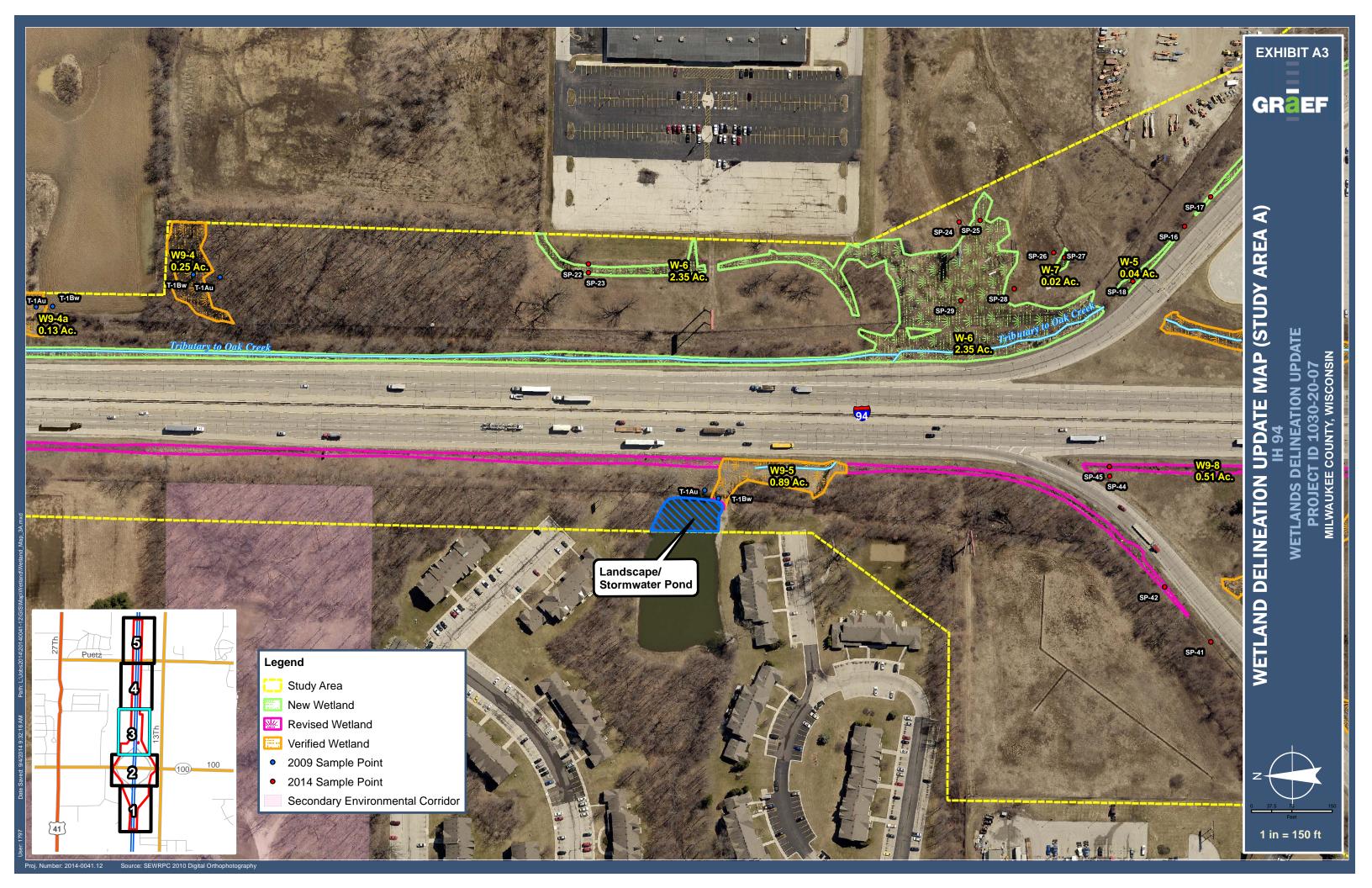


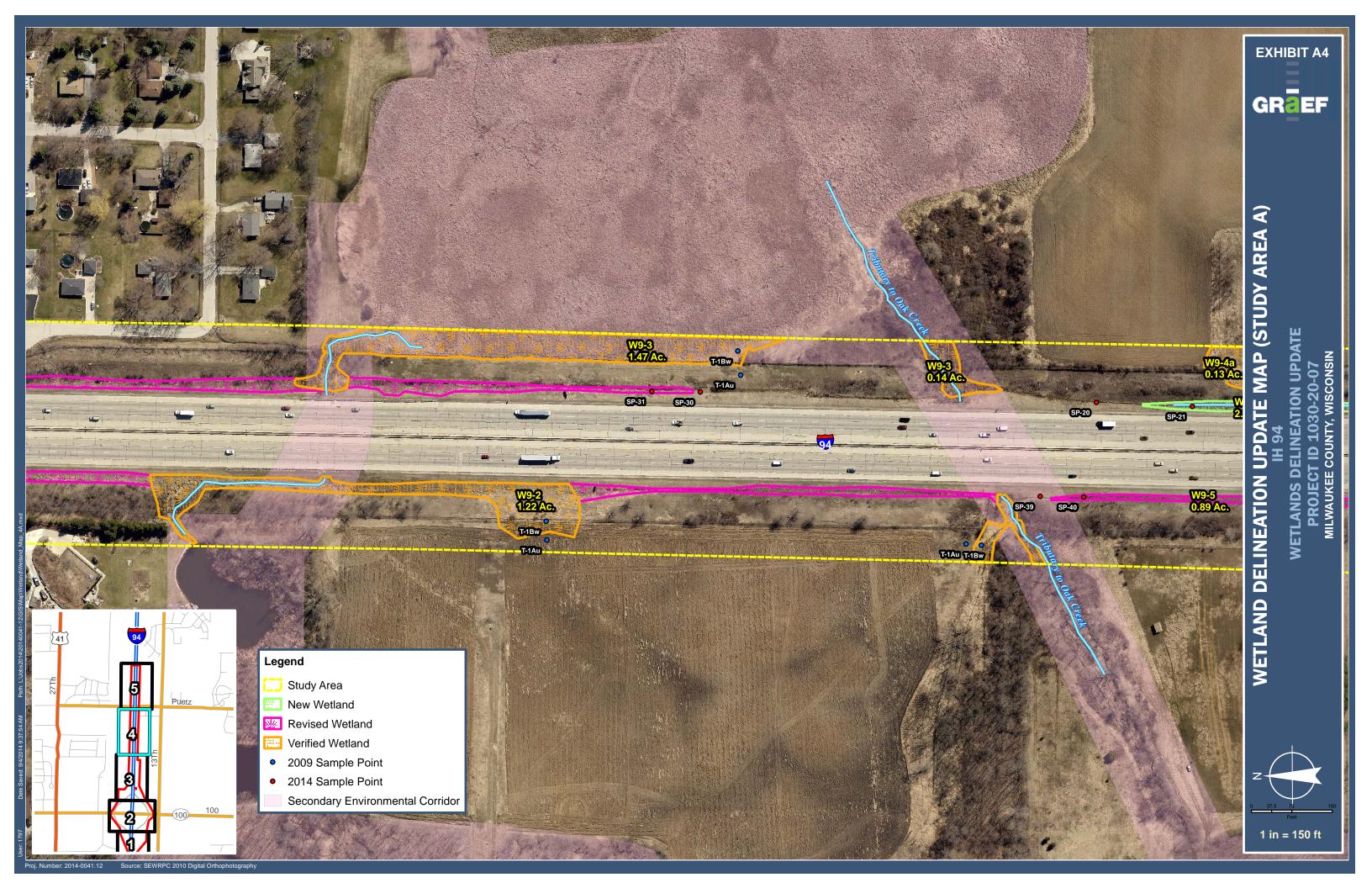
### **APPENDIX E**

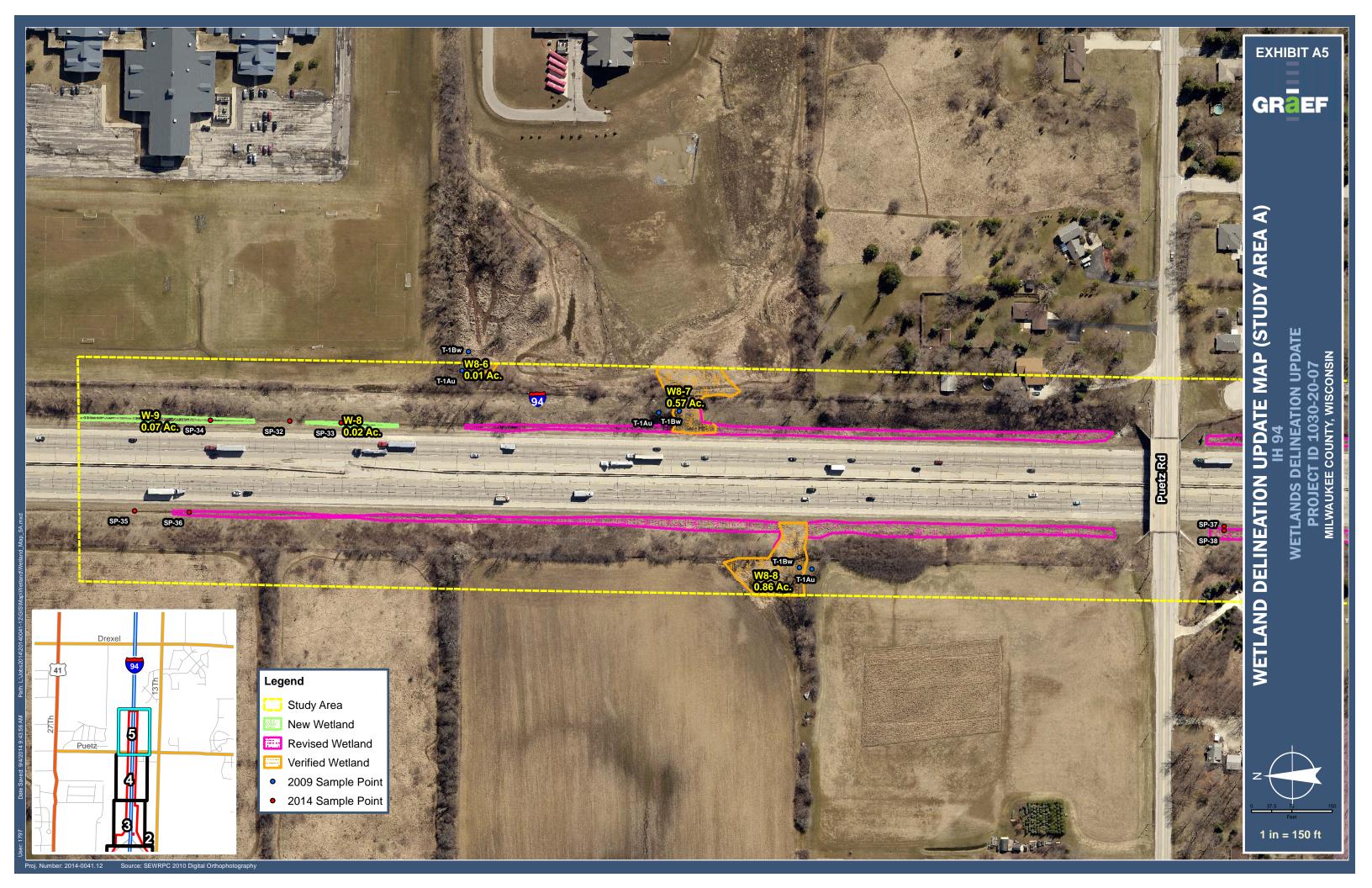
## 2014 Wetland Delineation Map

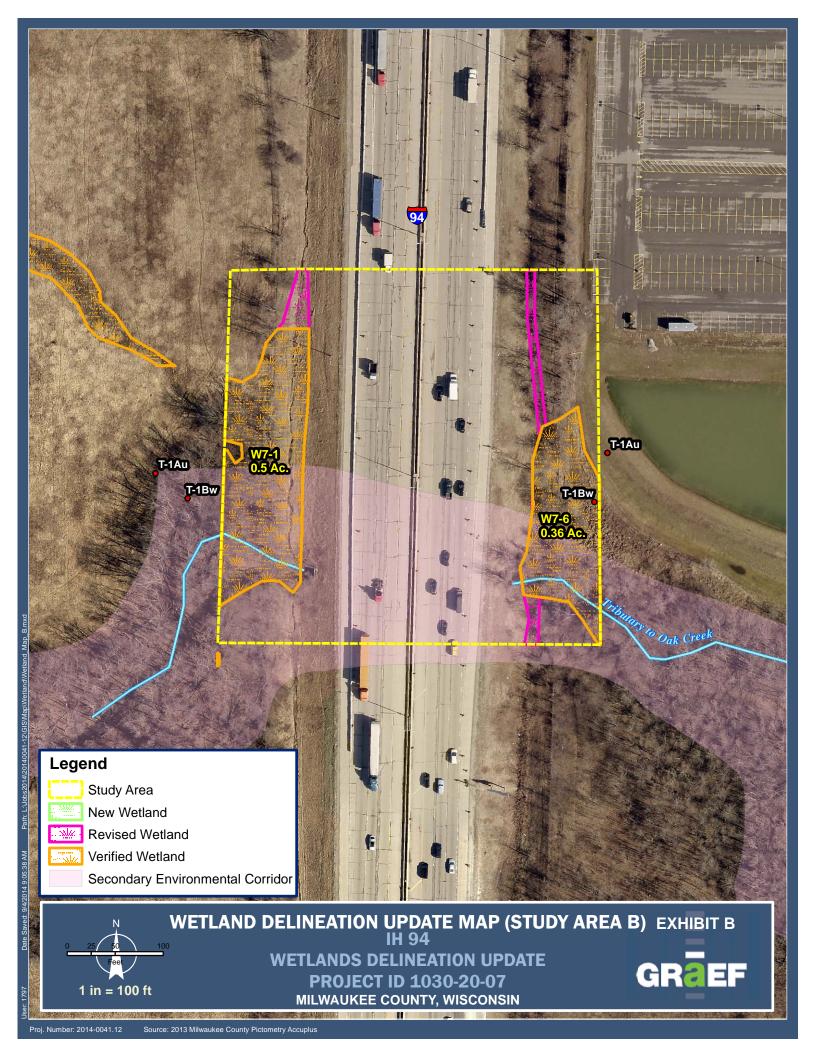














# APPENDIX F Site Photographs



IH 94 (N-S Freeway) Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 1

**Direction of View:** 

North

Comment:

Photo of wetland W-1 contained within a roadside ditch.



Photo #: 2

**Direction of View:** 

East

Comment:

Upland sample point SP-1. Paired with SP-2.



IH 94 (N-S Freeway) Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 3

**Direction of View:** 

West

Comment:

Wetland W-1 sample point SP-2. Paired with SP-1.



Photo #: 4

**Direction of View:** 

West

Comment:

South boundary of wetland W10-3 was revised due to the construction of a off ramp bridge over Oak Creek and associated rip rap.



IH 94 (N-S Freeway) Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 5

**Direction of View:** 

North

Comment:

Upland sample point SP-3. Paired with SP-4.



Photo #: 6

**Direction of View:** 

South-southwest

Comment:

Wetland W10-3 sample point SP-4. Paired with SP-3. North boundary was revised and an increase in wetland area resulted.



IH 94 (N-S Freeway) Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 7

**Direction of View:** 

Northeast

Comment:

Southern end of wetland W10-3 was expanded to include a wetland within a ditch.



Photo #: 8

**Direction of View:** 

West

Comment:

Upland sample point SP-5. Paired with SP-6.



IH 94 (N-S Freeway) Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 9

**Direction of View:** 

West

Comment:

Wetland W10-3 sample point SP-6. Paired with SP-5. W10-3 was expanded to include a wetland area within a ditch.



Photo #: 10

**Direction of View:** 

North

Comment:

Upland sample point SP-7. Paired with SP-8.



IH 94 (N-S Freeway) Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 11

**Direction of View:** 

South

#### Comment:

Wetland W10-3 sample point SP-7. Boundary revised due to permitted roadway improvement resulting in fill and change to wetland boundary location.



Photo #: 12

**Direction of View:** 

South

Comment:

Upland sample point SP-9. Paired with SP-10



IH 94 (N-S Freeway) Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 13

**Direction of View:** 

North

Comment:

Wetland W-2 sample point SP-10. Paired with SP-9.



Photo #: 14

**Direction of View:** 

South

Comment:

View of revised eastern boundary of wetland W10-4 as a result of the construction of a new off ramp from IH 94 towards STH 100.



IH 94 (N-S Freeway) Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 15

**Direction of View:** 

South-southwest

Comment:

Upland sample point SP-11. Paired with SP-12.



Photo #: 16

**Direction of View:** 

North

Comment:

Wetland W10-4 sample point SP-12. Paired with SP-11.



IH 94 (N-S Freeway) Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 17

**Direction of View:** 

East

Comment:

Upland sample point SP-13. Paired with SP-14 and SP-15.



Photo #: 18

**Direction of View:** 

Southwest

Comment:

Wetland W-3 sample point SP-14.



IH 94 (N-S Freeway) Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 19

**Direction of View:** 

Southwest

Comment:

Wetland W-3 sample point SP-15.



Photo #: 20

**Direction of View:** 

West

Comment:

Wetland W-3 sample point SP-19. Wetland area located on a side slope.



IH 94 (N-S Freeway) Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 21

**Direction of View:** 

South

Comment:

Upland sample point SP-16. Paired with SP-17 and SP-18.



Photo #: 22

**Direction of View:** 

East

Comment:

Wetland W-4 sample point SP-17.



IH 94 (N-S Freeway) Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 23

**Direction of View:** 

East

Comment:

Wetland W-5 sample point SP-18.



Photo #: 24

**Direction of View:** 

South

Comment:

Upland sample point SP-20. Paired with SP-21.



IH 94 (N-S Freeway) Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 25

**Direction of View:** 

East

Comment:

Wetland W-6 sample point SP-21.



Photo #: 26

**Direction of View:** 

East

Comment:

Upland sample point SP-22. Paired with SP-23.



IH 94 (N-S Freeway) Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 27

**Direction of View:** 

West

Comment:

Wetland W-6 sample point SP-23.



Photo #: 28

**Direction of View:** 

East-northeast

Comment:

Upland sample point SP-24. Paired with SP-25.



IH 94 (N-S Freeway) Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 29

**Direction of View:** 

Southwest

Comment:

Wetland W-6 sample point SP-25.



Photo #: 30

**Direction of View:** 

East

Comment:

Upland sample point SP-26. Paired with SP-27.



IH 94 (N-S Freeway) Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 31

**Direction of View:** 

Southwest

Comment:

Wetland W-7 sample point SP-27.



Photo #: 32

**Direction of View:** 

Southeast

Comment:

Upland sample point SP-28. Paired with SP-29.



IH 94 (N-S Freeway) Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 33

**Direction of View:** 

East

Comment:

Wetland W-6 sample point SP-29.



Photo #: 34

**Direction of View:** 

Southeast

Comment:

Southern end of W9-6 was revised due to permitted roadway improvements resulting in fill and change in the boundary. Tributary to Oak Creek flows into culvert.



IH 94 (N-S Freeway) Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 35

**Direction of View:** 

South

Comment:

Upland sample point SP-30. Paired with SP-31.



Photo #: 36

**Direction of View:** 

North

Comment:

Wetland W9-3 sample point SP-31.



IH 94 (N-S Freeway) Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 37

**Direction of View:** 

East

Comment:

Upland sample point SP-32. Paired with SP-33 and SP-34.



Photo #: 38

**Direction of View:** 

South

Comment:

Wetland W-8 sample point SP-33.



IH 94 (N-S Freeway) Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 39

**Direction of View:** 

East

Comment:

Wetland W-9 sample point SP-34.



Photo #: 40

**Direction of View:** 

North

Comment:

Upland sample point SP-35. Paired with SP-36.



IH 94 (N-S Freeway) Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 41

**Direction of View:** 

West

Comment:

Wetland W8-8 sample point SP-36.



Photo #: 42

**Direction of View:** 

East

Comment:

Upland sample point SP-37. Paired with SP-38.



IH 94 (N-S Freeway) Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 43

**Direction of View:** 

West

Comment:

Wetland W9-2 sample point SP-38.



Photo #: 44

**Direction of View:** 

North

Comment:

Upland sample point SP-39. Paired with SP-40.



IH 94 (N-S Freeway) Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 45

**Direction of View:** 

South

Comment:

Wetland W9-5 sample point SP-40.



Photo #: 46

**Direction of View:** 

Northeast

Comment:

Upland sample point SP-41. Paired with SP-42 and SP-43.



IH 94 (N-S Freeway) Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 47

**Direction of View:** 

West

Comment:

Wetland W9-5 sample point SP-42.



Photo #: 48

**Direction of View:** 

West

Comment:

Wetland W-10 sample point SP-43.



IH 94 (N-S Freeway) Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 49

**Direction of View:** 

South

Comment:

Upland sample point SP-44. Paired with SP-45.



Photo #: 50

**Direction of View:** 

South

Comment:

Wetland W9-8 sample point SP-45.



IH 94 (N-S Freeway) Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 51

**Direction of View:** 

Southeast

Comment:

Upland sample point SP-46. Paired with SP-47.



Photo #: 52

**Direction of View:** 

North-northwest

Comment:

Wetland W-11 sample point SP-47.



IH 94 (N-S Freeway) Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 53

**Direction of View:** 

East

Comment:

Upland sample point SP-48. Paired with SP-49.



Photo #: 54

**Direction of View:** 

West

Comment:

Wetland W10-1 sample point SP-49.

## **SITE PHOTOGRAPHS**



IH 94 (N-S Freeway) Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 55

**Direction of View:** 

South

Comment:

Upland sample point SP-50. Paired with SP-51.



Photo #: 56

**Direction of View:** 

South

Comment:

Wetland W-12 sample point SP-51.



# **APPENDIX G**

# 2014 Wetland Determination Data Forms

Landform (hillslope, terrace, etc.): Backslope  Slope: 25.0% 14.0  Lat.:  Soil Map Unit Name: Morley silt loam (MzdB2), Not hydric  Are climatic/hydrologic conditions on the site typical for this time of year? Yes  Are Vegetation    , Soil    , or Hydrology    significantly dis  Are Vegetation    , Soil    , or Hydrology    naturally probl  SUMMARY OF FINDINGS - Attach site map showing sam  Hydrophytic Vegetation Present? Yes	Long.:  No Osturbed? ematic? ematic?  pling po  Is t with  point is local	(If no, e: Are "No (If need int location the Sampled Anin a Wetland cated in an unit	Datum:  WWI classification: None  xplain in Remarks.)  ormal Circumstances" present?  Area d? Yes No   No   upland.
Landform (hillslope, terrace, etc.): Backslope  Slope: 25.0% 14.0  Lat.:  Soil Map Unit Name: Morley silt loam (MzdB2), Not hydric  Are climatic/hydrologic conditions on the site typical for this time of year? Yes  Are Vegetation    , Soil    , or Hydrology    significantly dis  Are Vegetation    , Soil    , or Hydrology    naturally probl  SUMMARY OF FINDINGS - Attach site map showing sam  Hydrophytic Vegetation Present? Yes	Long.:  Long.:  No Osturbed?  ematic?  ematic?  point is located in the second in the	(If no, e: Are "No (If nee int locatio ne Sampled Join a Wetland cated in an u	Datum:  WWI classification: None  xplain in Remarks.)  ormal Circumstances" present?  Area d? Yes No  No  Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC:  O (A)  Total Number of Dominant Species Across All Strata:  Percent of dominant Species  Percent of dominant Species  Datum:  Ves No  No  No  No  No  Area (Page 1988)  No  No  No  No  No  No  No  No  No  N
Soil Map Unit Name: Morley silt loam (MzdB2), Not hydric  Are climatic/hydrologic conditions on the site typical for this time of year?  Yes  Are Vegetation  , Soil  , or Hydrology	Point is located by the standard cover    Output    Dominar    Species: Rel.Strat   Cover    Output    Out	(If no, e: Are "No (If nee int location ne Sampled Anin a Wetland cated in an unit	Datum:  WWI classification: None  xplain in Remarks.)  ormal Circumstances" present?  Area dd? Yes No No  Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC:  O (A)  Total Number of Dominant Species Percent of dominant Species  Percent of dominant Species  Datum:  None  Yes No (C)  No (C)  No (C)  No (D)  No (D
Soil Map Unit Name: Morley silt loam (MzdB2), Not hydric  Are climatic/hydrologic conditions on the site typical for this time of year?  Yes  Are Vegetation , Soil , or Hydrology , significantly displayed are Vegetation , Soil , or Hydrology , naturally problem are Vegetation , Soil , or Hydrology , naturally problem are Vegetation Present?  Hydrophytic Vegetation Present? Yes No  Hydric Soil Present? Yes No   Wetland Hydrology Present? Yes No   Remarks:  This point is located on the side slope alongside IH 94.  None of the three parameters have been met at this point. Thus, this  VEGETATION - Use scientific names of plants.  Tree Stratum (Plot size: 30' r )   Absolute % Cover    1.	Point is located by the standard cover    Output    Dominar    Species: Rel.Strat   Cover    Output    Out	Are "No (If nee int location he Sampled Anin a Wetland cated in an unit to Status	WWI classification: None  xplain in Remarks.)  ormal Circumstances" present?  reded, explain any answers in Remarks.)  ons, transects, important features, etc.  Area d? Yes No   Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC:  O (A)  Total Number of Dominant Species Across All Strata:  Percent of dominant Species
Soil Map Unit Name: Morley silt loam (MzdB2), Not hydric  Are climatic/hydrologic conditions on the site typical for this time of year?  Yes  Are Vegetation , Soil , or Hydrology , significantly displayed are Vegetation , Soil , or Hydrology , naturally problem are Vegetation , Soil , or Hydrology , naturally problem are Vegetation Present?  Hydrophytic Vegetation Present? Yes No  Hydric Soil Present? Yes No   Wetland Hydrology Present? Yes No   Remarks:  This point is located on the side slope alongside IH 94.  None of the three parameters have been met at this point. Thus, this  VEGETATION - Use scientific names of plants.  Tree Stratum (Plot size: 30' r )   Absolute % Cover    1.	Point is located by the standard cover    Output    Dominar    Species: Rel.Strat   Cover    Output    Out	Are "No (If nee int location he Sampled Anin a Wetland cated in an unit to Status	pormal Circumstances" present?  Peded, explain any answers in Remarks.)  Pons, transects, important features, etc.  Area d?  Pominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC:  O  O  O  O  O  O  O  O  O  O  O  O  O
Are climatic/hydrologic conditions on the site typical for this time of year?  Yes  Are Vegetation	point is local point	Are "No (If nee int location he Sampled Anin a Wetland cated in an unit to Status	pormal Circumstances" present?  Peded, explain any answers in Remarks.)  Pons, transects, important features, etc.  Area d?  Pominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC:  O  O  O  O  O  O  O  O  O  O  O  O  O
Are Vegetation	point is local point	Are "No (If nee int location he Sampled Anin a Wetland cated in an unit to Status	ormal Circumstances" present?  Yes No obligation and answers in Remarks.)  Ons, transects, important features, etc.  Area d? Yes No obligation  Inpland.  Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  Percent of dominant Species  Percent of dominant Species
SUMMARY OF FINDINGS - Attach site map showing sam  Hydrophytic Vegetation Present? Yes No ● Hydric Soil Present? Yes No ● Wetland Hydrology Present? Yes No ●  Remarks: This point is located on the side slope alongside IH 94. None of the three parameters have been met at this point. Thus, this  VEGETATION - Use scientific names of plants.    Tree Stratum (Plot size: 30' r )	point is low  Dominar  Species: Rel.Strat Cover  0.0% 0.0% 0.0% 0.0%	int location in a Wetland cated in an until indicator Status	pons, transects, important features, etc.  Area d? Yes No   Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC:  O (A)  Total Number of Dominant Species Across All Strata:  Percent of dominant Species
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? No Wetland Hydrology P	point is located by the second	ne Sampled Anin a Wetland	Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC:  O (A)  Total Number of Dominant Species Across All Strata:  Percent of dominant Species
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:  This point is located on the side slope alongside IH 94.  None of the three parameters have been met at this point. Thus, this  VEGETATION - Use scientific names of plants.  VEGETATION - Use scientific names of plants.  Absolute % Cover  1.  2.  3.  4.  5.  Sapling/Shrub Stratum (Plot size: 15' r )  1.  2.  3.  4.  5.  O  Sapling/Shrub Stratum (Plot size: 15' r )  1.  2.  3.  4.  5.  O  O  O  Sapling/Shrub Stratum (Plot size: 15' r )  1.  O  O  O  O  O  O  O  O  O  O  O  O  O	point is located by the point	cated in an u	Area d? Yes No No Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  1 (B)  Percent of dominant Species
Hydric Soil Present?  Wetland Hydrology Present?  Remarks: This point is located on the side slope alongside IH 94. None of the three parameters have been met at this point. Thus, this  VEGETATION - Use scientific names of plants.  Tree Stratum (Plot size: 30' r )	Dominar Species Rel.Strat Cover 0.0% 0.0% 0.0% 0.0% 0.0%	t Indicator Status	Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  Dominance Test worksheet:  0 (A)  Total Number of Dominant Species Across All Strata:  1 (B)
Hydric Soil Present?  Wetland Hydrology Present?  Remarks: This point is located on the side slope alongside IH 94. None of the three parameters have been met at this point. Thus, this  VEGETATION - Use scientific names of plants.  Tree Stratum (Plot size: 30' r )	Dominar Species Rel.Strat Cover 0.0% 0.0% 0.0% 0.0% 0.0%	t Indicator Status	Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  Dominance Test worksheet:  0 (A)  Total Number of Dominant Species Across All Strata:  1 (B)
Remarks: This point is located on the side slope alongside IH 94. None of the three parameters have been met at this point. Thus, this  VEGETATION - Use scientific names of plants.  Tree Stratum (Plot size: 30' r )	Dominar Species Rel.Strat Cover  0.0% 0.0% 0.0% 0.0%	t Indicator Status	Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  1 (B)  Percent of dominant Species
Remarks: This point is located on the side slope alongside IH 94. None of the three parameters have been met at this point. Thus, this  VEGETATION - Use scientific names of plants.  Tree Stratum (Plot size: 30' r )	Dominar Species Rel.Strat Cover 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	t Indicator Status	Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  1 (B)  Percent of dominant Species
This point is located on the side slope alongside IH 94.  None of the three parameters have been met at this point. Thus, this  VEGETATION - Use scientific names of plants.  Tree Stratum (Plot size: 30' r )	Dominar Species Rel.Strat Cover 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	t Indicator Status	Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  1 (B)  Percent of dominant Species
Tree Stratum (Plot size: 30' r )	Species   Rel.Strat   Cover   0.0%	Indicator	Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  1 (B)  Percent of dominant Species
1.       0         2.       0         3.       0         4.       0         5.       0         Sapling/Shrub Stratum (Plot size: 15' r )       )         1.       0         2.       0         3.       0	0.0% 0.0% 0.0% 0.0% 0.0%		That are OBL, FACW, or FAC:  O (A)  Total Number of Dominant Species Across All Strata:  1 (B)  Percent of dominant Species
2.       0         3.       0         4.       0         5.       0         Sapling/Shrub Stratum (Plot size: 15' r )         1.       0         2.       0         3.       0	0.0% 0.0% 0.0% 0.0%	=	Total Number of Dominant Species Across All Strata:  1 (B)  Percent of dominant Species
3. 0 4. 0 5. 0 Sapling/Shrub Stratum (Plot size: 15' r ) 1. 0 2. 0 3. 0	0.0% 0.0%	=	Species Across All Strata: 1 (B)  Percent of dominant Species
4.       0         5.       0         Sapling/Shrub Stratum (Plot size: 15' r )       )         1.       0         2.       0         3.       0	0.0%	=	Percent of dominant Species
Sapling/Shrub Stratum (Plot size: 15' r )     1.		ver	
Sapling/Shrub Stratum (Plot size: 15' r )         1.       0         2.       0         3.       0	= Total Cc	ver	That Are OBL, FACW, or FAC: 0.0% (A/B)
1. 0 2. 0 3. 0			
2. 0 3. 0			Prevalence Index worksheet:
3. 0	0.0%		Total % Cover of: Multiply by:
	0.0%		OBL species 0 x 1 = 0
<b>1 4.</b>	0.0%		FACW species 15 x 2 = 30
	0.0%		FAC species 25 x 3 = 75
	= Total Co	Ver	FACU species $\frac{78}{5}$ $\times 4 = \frac{312}{25}$ UPL species $\frac{78}{5}$ $\times 5 = \frac{25}{25}$
Herb Stratum (Plot size: 5' r )			
1, Festuca rubra 75	61.0%		Column Totals: 123 (A) 442 (B)
2. Cornus racemosa 15	12.2%		Prevalence Index = B/A = 3.593
3. Poa pratensis 10	8.1%	FAC	Hydrophytic Vegetation Indicators:
4. Daucus carota 5 5. Euthamia graminifolia 5	4.1%	FACW	1 - Rapid Test for Hydrophytic Vegetation
6. Symphyotrichum novae-angliae 5	4.1%	FACW	2 - Dominance Test is > 50%
7. Vitis riparia 5	4.1%	FACW	$\Box$ 3 - Prevalence Index is ≤3.0 $^1$
8. Parthenocissus quinquefolia 3	2.4%	FACU	4 - Morphological Adaptations 1 (Provide supporting
9. 0	0.0%		data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
10.	0.0%		
Woody Vine Stratum (Plot size: 30' r )	= Total Co	ver	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. 0	0.0%		, , , , , , , , , , , , , , , , , , , ,
2. 0	0.0%		Hydrophytic
0	= Total Co	ver	Vegetation Present? Yes ○ No ●
	70(4) 00		

Depth	Matrix			dox Featu			absence of indicators.)		
	(moist)	%	Color (moist)	%	Туре	Loc2	Texture		Remarks
0-14 10YR	4/2	100					Silty Clay Loam		
14-20 10YR	4/4	50					Sandy Clay Loam		
10YR	4/2	50							
								_	
oe: C=Concentration	, D=Depletion	n, RM=Reduc	ed Matrix, CS=Cover	ed or Coate	d Sand Gra	ins.	Location: PL=Pore Lining	. M=Matrix.	
dric Soil Indicator	s:						Indicators for Prob	lematic Hydri	c Soils <sup>3</sup> :
Histosol (A1)			Sandy Gleyed	l Matrix (S4	)		Coast Prairie Red	-	
Histic Epipedon (A2	)		Sandy Redox	(S5)			Dark Surface (S7)	` ,	
Black Histic (A3) Hydrogen Sulfide (A	.4)		Stripped Mati	ix (S6)			☐ Iron Manganese I		
Stratified Layers (A			Loamy Mucky				☐ Very Shallow Dar		)
2 cm Muck (A10)	)		Loamy Gleye		2)		Other (Explain in		,
Depleted Below Dar	k Surface (A1	1)	Depleted Mat				Ciriei (Expiaiii iii	Nemaiks)	
Thick Dark Surface	•	'/	Redox Dark S	, ,					
Sandy Muck Minera	` '		Depleted Dar	,	-7)		3 Indicators of hydro		
5 cm Mucky Peat or	` '		Redox Depre	ssions (F8)			wetland hydrolo unless disturbe	gy must be pre d or problemat	
trictive Layer (if o	bserved):								
Type: None	•								_
							Hydric Soil Present?	Yes 🔾	No 💿
Depth (inches): NA marks: appears to be a recriterion for hydri						_	Hydric Soil Present?	Yes 🔾	No •
Depth (inches): NA marks: appears to be a recriterion for hydri							Hydric Soil Present?	Yes O	No •
Depth (inches): NA marks: appears to be a rucriterion for hydri	c soil is not						Hydric Soil Present?	Yes O	No •
Depth (inches): NA marks: appears to be a recriterion for hydri	c soil is not	met at this	point.						No   n of two required)
Depth (inches): NA narks: appears to be a recriterion for hydri	c soil is not	met at this	point.	ned Leaves	(B9)		Secondary Indic		
Depth (inches): NA marks: appears to be a recriterion for hydri DROLOGY cland Hydrology In mary Indicators (mini Surface Water (A1)	c soil is not  ndicators: mum of one is	met at this	point.		(B9)		Secondary India	ators (minimun	
Depth (inches): NA marks: appears to be a recriterion for hydri DROLOGY  Cland Hydrology In ary Indicators (mini Surface Water (A1) High Water Table (A)	c soil is not  ndicators: mum of one is	met at this	point.  neck all that apply)  Water-Stair	ına (B13)	` ,		Secondary India Surface Soi	ators (minimun Cracks (B6)	n of two required)
Depth (inches): NA marks: appears to be a recriterion for hydri  DROLOGY cland Hydrology Inary Indicators (mini Surface Water (A1) High Water Table (A Saturation (A3)	c soil is not  ndicators: mum of one is	met at this	neck all that apply)  Water-Stair Aquatic Fau	ina (B13) ic Plants (B <sup>r</sup>	14)		Secondary India Surface Soi	ators (minimun Cracks (B6) utterns (B10) Water Table (C	n of two required)
Depth (inches): NA narks: appears to be a recriterion for hydri  DROLOGY cland Hydrology Ir nary Indicators (mini Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1)	adicators: mum of one is	met at this	neck all that apply)  Water-Stair Aquatic Fau True Aquat	ina (B13) ic Plants (B <sup>.</sup> Sulfide Odor	14) · (C1)	oots (C3)	Secondary India  Surface Soi  Drainage Pa  Dry Season  Crayfish Bu	ators (minimun Cracks (B6) utterns (B10) Water Table (C	n of two required)
Depth (inches): NA narks: appears to be a recriterion for hydri  DROLOGY cland Hydrology Inary Indicators (mini Surface Water (A1) High Water Table (# Saturation (A3) Water Marks (B1) Sediment Deposits	adicators: mum of one is	met at this	neck all that apply)  Water-Stair Aquatic Fau True Aquat	ina (B13) ic Plants (B' Gulfide Odor nizospheres	14) (C1) on Living F	oots (C3)	Secondary India Surface Soi Drainage Para Dry Season Crayfish Bu Saturation	ators (minimum Cracks (B6) Itterns (B10) Water Table (C crows (C8)	n of two required) (22) Imagery (C9)
Depth (inches): NA marks: appears to be a recriterion for hydrical papears to	adicators: mum of one is	met at this	neck all that apply)  Water-Stair Aquatic Fau True Aquat Hydrogen S Oxidized Rh	ina (B13) ic Plants (B' Gulfide Odor nizospheres	14) (C1) on Living F ron (C4)		Secondary India  Surface Soi  Drainage Poi  Dry Season  Crayfish But  Saturation  Stunted or	ators (minimun Cracks (B6) atterns (B10) Water Table (C crows (C8) Visible on Aerial	n of two required) (22) Imagery (C9)
Depth (inches): NA marks: appears to be a recriterion for hydri  DROLOGY  Eland Hydrology In mary Indicators (mini Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust (Iron Deposits (B5)	ndicators: mum of one is	met at this	neck all that apply)  Water-Stair Aquatic Fau True Aquat Hydrogen S Oxidized Rh	ina (B13) ic Plants (B' Gulfide Odor nizospheres f Reduced I n Reduction	14) (C1) on Living Fron (C4) in Tilled Sc		Secondary India  Surface Soi  Drainage Poi  Dry Season  Crayfish But  Saturation  Stunted or	ators (minimum Cracks (B6) htterns (B10) Water Table (C crows (C8) /isible on Aerial Stressed Plants : Position (D2)	n of two required) (22) Imagery (C9)
Depth (inches): NA marks: appears to be a recriterion for hydri  DROLOGY  Cland Hydrology In ary Indicators (mini Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (Iron Deposits (B5) Inundation Visible of	ndicators: mum of one is A2) (B2) n Aerial Imag	met at this s required; cf	neck all that apply)  Water-Stair Aquatic Fau True Aquat Hydrogen S Oxidized Rh Presence o Recent Iror	ina (B13) ic Plants (Bi sulfide Odor nizospheres f Reduced I n Reduction Surface (C7	14) (C1) on Living Fron (C4) in Tilled Sc		Secondary India Surface Soi Drainage Poi Dry Season Crayfish Bu Saturation Stunted or Geomorphi	ators (minimum Cracks (B6) htterns (B10) Water Table (C crows (C8) /isible on Aerial Stressed Plants : Position (D2)	n of two required) (22) Imagery (C9)
Depth (inches): NA marks: appears to be a recriterion for hydri  DROLOGY  Cland Hydrology In ary Indicators (minimary Indicators (minimary Indicators (Marks (B1)) Sediment Deposits (B1) Sediment Deposits (B3) Algal Mat or Crust (Iron Deposits (B5)) Inundation Visible of	ndicators: mum of one is A2) (B2) n Aerial Imag	met at this s required; cf	meck all that apply)  Water-Stair Aquatic Fau True Aquat Hydrogen S Oxidized Ri Presence o Recent Iror Thin Muck Gauge or V	ina (B13) ic Plants (Bi sulfide Odor nizospheres f Reduced I n Reduction Surface (C7	14) on Living R ron (C4) in Tilled Sc )		Secondary India Surface Soi Drainage Poi Dry Season Crayfish Bu Saturation Stunted or Geomorphi	ators (minimum Cracks (B6) htterns (B10) Water Table (C crows (C8) /isible on Aerial Stressed Plants : Position (D2)	n of two required) (22) Imagery (C9)
Depth (inches): NA marks: appears to be a recriterion for hydri  DROLOGY  tland Hydrology In ary Indicators (mini Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust (Iron Deposits (B5) Inundation Visible of Sparsely Vegetated	ndicators: mum of one is A2) (B2) n Aerial Imag	met at this s required; cf	meck all that apply)  Water-Stair Aquatic Fau True Aquat Hydrogen S Oxidized Ri Presence o Recent Iror Thin Muck Gauge or V	ina (B13) ic Plants (Bi sulfide Odor nizospheres f Reduced I n Reduction Surface (C7 /ell Data (D	14) on Living R ron (C4) in Tilled Sc )		Secondary India Surface Soi Drainage Poi Dry Season Crayfish Bu Saturation Stunted or Geomorphi	ators (minimum Cracks (B6) htterns (B10) Water Table (C crows (C8) /isible on Aerial Stressed Plants : Position (D2)	n of two required) (22) Imagery (C9)
Depth (inches): NA marks: appears to be a recriterion for hydrical papears (Band Hydrology Ir any Indicators (minimary Indicators (minimary Indicators (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (Iron Deposits (B5) Inundation Visible of Sparsely Vegetated dobservations:	ndicators: mum of one is  (B2)  (B4)  In Aerial Imag Concave Surf	met at this s required; ct	neck all that apply)  Water-Stair Aquatic Fau True Aquat Hydrogen S Oxidized Ri Presence o Recent Iror Thin Muck Gauge or V Other (Exp.	ina (B13) ic Plants (B' sulfide Odor nizospheres f Reduced I n Reduction Surface (C7 /ell Data (D ain in Rema	14) on Living R ron (C4) in Tilled Sc )		Secondary India Surface Soi Drainage Poi Dry Season Crayfish Bu Saturation Stunted or Geomorphi	ators (minimum Cracks (B6) htterns (B10) Water Table (C crows (C8) /isible on Aerial Stressed Plants : Position (D2)	n of two required) (22) Imagery (C9)
Depth (inches): NA marks: appears to be a recriterion for hydri  DROLOGY  tland Hydrology In mary Indicators (mini Surface Water (A1) High Water Table (A) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (Iron Deposits (B5) Inundation Visible of Sparsely Vegetated  Id Observations: face Water Present?	ndicators: mum of one is A2) (B2) B4) In Aerial Imag Concave Surf	met at this s required; ch erry (B7) face (B8)  No •	neck all that apply)  Water-Stair Aquatic Fau True Aquat Hydrogen S Oxidized Ri Presence o Recent Iror Thin Muck Gauge or V Other (Exp	ina (B13) ic Plants (B' sulfide Odor nizospheres f Reduced I n Reduction Surface (C7 /ell Data (D ain in Rema	14) on Living R ron (C4) in Tilled Sc )		Secondary India Surface Soi Drainage Poi Dry Season Crayfish Bu Saturation Stunted or Geomorphi	ators (minimum Cracks (B6) htterns (B10) Water Table (C crows (C8) /isible on Aerial Stressed Plants : Position (D2)	n of two required) (22) Imagery (C9)
Depth (inches): NA marks: appears to be a recriterion for hydri  DROLOGY tland Hydrology Informary Indicators (miniterion (A3)) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (Iron Deposits (B5) Inundation Visible of Sparsely Vegetated  Id Observations: face Water Present?	ndicators: mum of one is  (B2)  (B2)  A2)  Oncave Surf  Yes	met at this  s required; ct  erry (B7) face (B8)  No  No  No	neck all that apply)  Water-Stair Aquatic Fau True Aquat Hydrogen S Oxidized Ri Presence o Recent Iror Thin Muck Gauge or V Other (Exp	ina (B13) ic Plants (Bisulfide Odornizospheres Freduced In Reduction Surface (C7 /ell Data (Data in Remains):	14) on Living R ron (C4) in Tilled Sc )	ils (C6)	Secondary India  Surface Soi  Drainage Port  Crayfish Burell Saturation of Geomorphi  FAC-Neutra	ators (minimun Cracks (B6) htterns (B10) Water Table (C crows (C8) /isible on Aerial Stressed Plants : Position (D2) I Test (D5)	n of two required) (22) Imagery (C9) (D1)
Depth (inches): NA marks:  appears to be a recriterion for hydri  DROLOGY  Cland Hydrology In ary Indicators (mini Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (Iron Deposits (B5) Inundation Visible of Sparsely Vegetated  d Observations:  area Water Present?  area Table Present?  arration Present?	dicators: mum of one is  A2)  (B2)  B4)  In Aerial Imag  Concave Surf	met at this  s required; ct  ery (B7) face (B8)  No  No	neck all that apply)  Water-Stair Aquatic Fau True Aquat Hydrogen S Oxidized Ri Presence o Recent Iror Thin Muck Gauge or V Other (Exp	ina (B13) ic Plants (B' ic Plants (D' ic Plants (D' ic Plants (B' ic Pla	14) on Living R ron (C4) in Tilled Sc )	ils (C6)	Secondary India Surface Soi Drainage Poi Dry Season Crayfish Bu Saturation Stunted or Geomorphi	ators (minimum Cracks (B6) Itterns (B10) Water Table (Corrows (C8) Visible on Aerial Stressed Plants Position (D2) Test (D5)	n of two required) (22) Imagery (C9) (D1)
Depth (inches): NA marks: appears to be a recriterion for hydri  DROLOGY  Cland Hydrology In ary Indicators (mini Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (Iron Deposits (B5) Inundation Visible of Sparsely Vegetated  d Observations: are Water Present? are Table Present? uration Present? ludes capillary fringe	dicators: mum of one is  A2)  (B2)  B4)  In Aerial Imag Concave Surf  Yes  Yes  Yes	met at this  s required; cf  ery (B7) Face (B8)  No  No  No  No  No  No  No  No  No  No	neck all that apply)  Water-Stair Aquatic Fau True Aquat Hydrogen S Oxidized Ri Presence o Recent Iror Thin Muck Gauge or V Other (Exp	ina (B13) ic Plants (B' ic Pla	14) on Living R ron (C4) in Tilled Sc ) 9) arks)	ils (C6)	Secondary India Surface Soi Drainage Pa Dry Season Crayfish Bu Saturation Stunted or Geomorphi FAC-Neutra	ators (minimun Cracks (B6) htterns (B10) Water Table (C crows (C8) /isible on Aerial Stressed Plants : Position (D2) I Test (D5)	n of two required) (22) Imagery (C9) (D1)
Depth (inches): NA marks: appears to be a recriterion for hydri  DROLOGY  Cland Hydrology In ary Indicators (mini Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (Iron Deposits (B5) Inundation Visible of Sparsely Vegetated  d Observations: ace Water Present? aration Present? urdes capillary fringe cribe Recorded Date	dicators: mum of one is  (B2)  (B2)  A2)  (Concave Surf  Yes  Yes  (Contain I mag  Yes  Yes  (Contain I mag  Yes	met at this  s required; ct  ery (B7) face (B8)  No  gauge, mor	meck all that apply)  Water-Stair Aquatic Fau True Aquat Hydrogen S Oxidized Ri Presence o Recent Iror Thin Muck Gauge or V Other (Exp	ina (B13) ic Plants (Bisulfide Odornizospheres if Reduced I in Reduction Surface (C7 /ell Data (Data in Remains):	on Living R ron (C4) in Tilled Sc ) 9) arks)	Wetl	Secondary India Surface Soi Drainage Pa Dry Season Crayfish Bu Saturation Stunted or Geomorphi FAC-Neutra	ators (minimun Cracks (B6) htterns (B10) Water Table (C crows (C8) /isible on Aerial Stressed Plants : Position (D2) I Test (D5)	n of two required) (22) Imagery (C9) (D1)
Depth (inches): NA marks: appears to be a recriterion for hydri  DROLOGY  Cland Hydrology In ary Indicators (mini Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (Iron Deposits (B5) Inundation Visible of Sparsely Vegetated  d Observations: Face Water Present? Face Water Present? Face Water Present? Face Table Present? Face Water Present?	dicators: mum of one is  (B2)  (B2)  A2)  (Concave Surf  Yes  Yes  (Contain I mag  Yes  Yes  (Contain I mag  Yes	met at this  s required; ct  ery (B7) face (B8)  No  gauge, mor	neck all that apply)  Water-Stair Aquatic Fau True Aquat Hydrogen S Oxidized Ri Presence o Recent Iror Thin Muck Gauge or V Other (Exp	ina (B13) ic Plants (Bisulfide Odornizospheres if Reduced I in Reduction Surface (C7 /ell Data (Data in Remains):	on Living R ron (C4) in Tilled Sc ) 9) arks)	Wetl	Secondary India Surface Soi Drainage Pa Dry Season Crayfish Bu Saturation Stunted or Geomorphi FAC-Neutra	ators (minimun Cracks (B6) htterns (B10) Water Table (C crows (C8) /isible on Aerial Stressed Plants : Position (D2) I Test (D5)	n of two required) (22) Imagery (C9) (D1)

Project/Site: IH 94 (N-S Freeway)		Cit	y/County:	Milwaukee C	ounty	Sampling Date:	01-Aug-14
Applicant/Owner: Wisconsin Department	of Transportation			State:	Samp	oling Point:	SP-2
Investigator(s): Ron Londre, Geof Parish			Section, Town	nship, Range:	s 30 T 5N	R 22E	
Landform (hillslope, terrace, etc.): Toeslo	ope			Local relief (c	oncave, convex, none):	concave	_
Slope: 2.0% 1.1 • Lat.:			Long.:			Datum:	
Soil Map Unit Name: Morley silt loam	(MzdR2) Not bydric				WWI classific	cation: None	
Are climatic/hydrologic conditions on the s		ear? Yes	● No ○	(If no. ex	plain in Remarks.)	_None	
Are Vegetation , Soil .		ignificantly dis		•	ormal Circumstances" pre	sent? Yes	No O
		aturally proble			·	30111.	
	. , , , , , , , , , , , , , , , , , , ,	<i>y</i> 1			ded, explain any answers		
SUMMARY OF FINDINGS - A	ttach site map show	wing sam <sub>l</sub>	pling poir	nt location	ns, transects, imp	oortant features	, etc.
Hydrophytic Vegetation Present?	Yes ● No ○						
Hydric Soil Present?	Yes ● No ○			e Sampled A n a Wetland			
Wetland Hydrology Present?	Yes ● No ○						
Remarks:			<u> </u>				
This point is located in a roadside of	ditch. All three paramete	ers have bee	n met at thi	s point. Thu	us, this point is located	d in a wetland.	
Wetland ID: W-1							
<b>VEGETATION -</b> Use scien	ntific names of plan	nts	Dominant				
VEGETATION 036 36161	Terrie frames of plan	Absolute	- Species?	Indicator	Dominance Test wo	rkshooti	
_Tree Stratum_(Plot size: 12' x 235'	)	% Cover	Cover	Status			
1		0	0.0%		<ul> <li>Number of Dominant S</li> <li>That are OBL, FACW, G</li> </ul>		1 (A)
2		0	0.0%		Total Number of Domi	nant	<del></del>
3			0.0%		Species Across All Stra		1 (B)
4 5.		0	0.0%		Percent of dominan	t Species	
3		0 0	= Total Cove	. — —	That Are OBL, FACV		0.0% (A/B)
Sapling/Shrub Stratum (Plot size: 12'	x 58' )		= TOTAL COVE	31	Prevalence Index wo	orkshoot:	
1		0	0.0%		Total % Cover		V:
2.		0	0.0%		OBL species	90 x 1 =	90
3.		0	0.0%		FACW species	10 x 2 =	20
4		0	0.0%		FAC species	0 x 3 =	0
5			0.0%		FACU species	11 x 4 =	44
Herb Stratum (Plot size: 5' r	)		= Total Cove	er	UPL species	0 x 5 =	0
1. Typha angustifolia		90	<b>✓</b> 81.1%	OBL	Column Totals:	111 (A)	154 (B)
2. Solidago gigantea		10	9.0%	FACW	Prevalence Inde	ex = B/A = 1.	387
3. Solidago canadensis		5	4.5%	FACU	Hydrophytic Vegetat	tion Indicators:	
4. Festuca rubra		3	2.7%	FACU		r Hydrophytic Vegeta	ation
5. Sonchus arvensis 6.		3	2.7%	FACU	2 - Dominance To	est is > 50%	
7.		0	0.0%		✓ 3 - Prevalence In	ndex is ≤3.0 <sup>1</sup>	
8.		0 0	0.0%		4 - Morphologica	I Adaptations <sup>1</sup> (Pro	vide supporting
9.		0	0.0%			or on a separate she	•
10.		0	0.0%		-	rophytic Vegetation	
Woody Vine Stratum (Plot size: 12' x	235' \	111	= Total Cove	er		ic soil and wetland h	
1.	,	0	0.0%				J•
2.		0	0.0%		Hydrophytic		
		0	= Total Cove	er	Vegetation Present? Yes	s • No O	
					-		
Remarks: (Include photo numbers	here or on a separate s	heet.)					
Vegetation at this point is represen	'	,	munity.				
The criterion for hydrophytic veget			ž				

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Indicator   Control   Co	Profile Description: Depth	(Describe to )  Matrix	tne deptn n	leeded to docu	ment the indi Redox Feati		nfirm the	absence of indicators.)	
6-15 109% 5/2 60 7.59% 5/6 10 C M Sity Clay beam    Fis-20			%	Color (mois			Loc <sup>2</sup>	Texture	Remarks
The 2D 1187K S/T 90 7.59K S/E 10 C M Sitry Clay  gree C-Concentration, D-Depletion, RM-Reduced Matrix, CS-Covered or Coated Sericl Grains.  prints 501 Indicators:	0-6 10YF	R 2/2	100					Silt Loam	
per C-Connentration D-Depletion. ISM-Reduced Matrix. CS-Covered or Coated Send Grains.  Protection:    Historia Coli Indicators:	6-15 10YF	R 5/2	80	7.5YR 5	6/6 20	С	М	Silty Clay Loam	
Historia (A1)	15-20 10YF	R 5/1	90	7.5YR 5	10	С	М	Silty Clay	
Historia (A1)									
Historia (A1) Historia (A2) Black Histric (A3) Black Histric (A4) Black Histric (A3) Black Histric (A1) Blac			n, RM=Reduc	ced Matrix, CS=C	overed or Coat	ed Sand Gra	ains.	Eocation: PL=Pore Lining. M	=Matrix.
listic Epipedon (A2)	<u>.</u>	ors:						Indicators for Problem	atic Hydric Soils <sup>3</sup> :
Secondary Indicators (minimum of two required)    Secondary Indicators (minimum of two required)   Secondary Indicators (minimum of two required)   Secondary Indicators (minimum of two required)   Secondary Indicators (minimum of two required)   Secondary Indicators (minimum of two required)   Surface Water (A1)	Black Histic (A3) Hydrogen Sulfide Stratified Layers (A10) 2 cm Muck (A10) Depleted Below Date (A10) Thick Dark Surface Sandy Muck Miner	(A4) A5) ark Surface (A1 e (A12) al (S1)	1)	Stripped Loamy N Loamy C Depleted Redox D Depleted	Matrix (S6) Mucky Mineral ( Sleyed Matrix (F3) Matrix (F3) Mark Surface (F6) Dark Surface	5) (F7)		Dark Surface (S7)  Iron Manganese Mass Very Shallow Dark Su Other (Explain in Rem  3 Indicators of hydrophy wetland hydrology r	res (F12) rface (TF12) narks) tic vegetation and nust be present,
Type: None Depth (Inches): NA  **Marks:    Appears to be a roadside fill soil and thus disturbed.   Certiferion for hydric soil is met at this point.  **TOROLOGY  **Estand Hydrology Indicators: mary Indicators (minimum of one is required: check all that apply)    Secondary Indicators (minimum of two required)   Surface Water (A1)								uniess disturbed of	problematic.
mary Indicators (minimum of one is required: check all that apply)  Secondary Indicators (minimum of two required)  Surface Water (A1)	il appears to be a								
Surface Water (A1)									
High Water Table (A2)	rimary Indicators (mii	nimum of one i	s required; c	heck all that app	ly)			Secondary Indicator	s (minimum of two required)
rface Water Present? Yes No Depth (inches): ater Table Present? Yes No Depth (inches): turation Present? cludes capillary fringe) scribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: evious delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos marks:	High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible	(A2) (B2) (B4) on Aerial Imag		Aquati True A Hydrog Oxidize Preser Recen Thin M Gauge	c Fauna (B13)  quatic Plants (I gen Sulfide Odo ed Rhizosphere ace of Reduced t Iron Reductio luck Surface (C or Well Data (	B14) or (C1) ss on Living F Iron (C4) n in Tilled Sc 7)		☐ Drainage Patter☐ Dry Season Wa☐ Crayfish Burrow☐ Saturation Visib☐ Stunted or Stree☐ Geomorphic Po	ns (B10) ter Table (C2) vs (C8) le on Aerial Imagery (C9) ssed Plants (D1) sition (D2)
cludes capillary fringe)  Yes No Depth (inches):  Scribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  evious delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos  marks:	ield Observations: urface Water Present? /ater Table Present?	Yes	O No (	Dept	h (inches):		_ Wet	and Hydrology Present?	Yes   No
evious delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos marks:	ncludes capillary fring	(C)		·		previous ir	nspection:	s), if available:	
	evious delineation			_					
	emarks:								

Project/Site: <u>IH 94 (N-S Freeway)</u>	Ci	ty/County:	Milwaukee C	ounty	Sampling Da	ate:01-Aug-14
Applicant/Owner: Wisconsin Department of Transpo	rtation		State:	WI	Sampling Point:	SP-3
Investigator(s): Ron Londre, Geof Parish		Section, Tow	nship, Range:	S 30 T	5N R 22E	
Landform (hillslope, terrace, etc.): Shoulder slope			Local relief (c	oncave, convex, no	one): convex	_
Slope: 0.0% 0.0 • Lat.:		Long.:			- Datum:	
Soil Map Unit Name: Aztalan loam (AsA), not h	vdric .			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	classification: None	
Are climatic/hydrologic conditions on the site typical f		No ○	(If no ex	plain in Remarks.)		
Are Vegetation , Soil , or Hydrol	or this time or year.		,	ormal Circumstance		res ● No ○
					ргозопи.	03 0 110 0
Are Vegetation  , Soil , or Hydrol	31		•		nswers in Remarks.)	_
SUMMARY OF FINDINGS - Attach sit		pling poi	nt locatio	ns, transects	, important feat	ures, etc.
Hydrophytic Vegetation Present? Yes	No 💿					
Hydric Soil Present? Yes	No 💿		ie Sampled A in a Wetland		No 💿	
Wetland Hydrology Present? Yes	No •					
Remarks:						
None of the parameters have been met at the	is point. Thus, this point i	s located in	an upland.			
<b>VEGETATION -</b> Use scientific na	mes of plants.	Dominan				
	Absolute	<ul><li>Species?</li><li>Rel.Strat.</li></ul>	Indicator	Dominance Te	st worksheet:	
Tree Stratum (Plot size: 30' r	% Cover	Cover	Status	<ul> <li>Number of Domi</li> </ul>	inant Species	
1		0.0%		That are OBL, FA		(A)
2		0.0%		Total Number of	Dominant	
3	0	0.0%		Species Across A	All Strata:	(B)
5.		0.0%		Percent of dor	minant Species	
	0	= Total Cov	/er		FACW, or FAC:	50.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15' r				Prevalence Ind	ex worksheet:	
1.	0	0.0%				iply by:
2.	0	0.0%		OBL species	0 x 1	= 0
3	0	0.0%		FACW species	s <u>85</u> x 2	= 170
4	0	0.0%		FAC species	x 3	
5		0.0%		FACU species		
Herb Stratum (Plot size: 5' r )	0	= Total Cov	/er	UPL species	5 x 5	= 25
1. Euthamia graminifolia	60	50.0%	FACW	Column Total	ls: 120 (A)	315 (B)
2. Solidago canadensis		20.8%		Prevalence	e Index = B/A =	2.625
3. Solidago gigantea		12.5%		Hydrophytic Ve	egetation Indicators:	
4. Agrimonia gryposepala 5. Crataegus punctata		4.2%	FACU	1 - Rapid To	est for Hydrophytic \	/egetation
6. Vitis riparia	5	4.2%	FACW	2 - Domina	nce Test is > 50%	
7. Ulmus americana	3	2.5%	FACW	✓ 3 - Prevaler	nce Index is $\leq$ 3.0 <sup>1</sup>	
8. Phalaris arundinacea	2	1.7%	FACW		logical Adaptations <sup>1</sup> narks or on a separa	(Provide supporting
9.	0	0.0%			c Hydrophytic Vegeta	•
10.	0	0.0%				
Woody Vine Stratum (Plot size: 30' r	120	= Total Cov	/er		f hydric soil and wetl less disturbed or pro	land hydrology must oblematic.
1.	0	0.0%			-	
2.	0	0.0%		Hydrophytic		
	0	= Total Cov	/er	Vegetation Present?	Yes O No 💿	
Remarks: (Include photo numbers here or or This point is located in a mesic to wet-mesic	praire plant community.					
The criterion for hydrophytic vegetation is no	t met at this point.					

Sampling Point: SP-3

Depth	i ipuon: (De	Scribe to t Matrix	e ueptn N	ceueu to		tne inai dox Feati		tne	absence of indicators.)	
(inches)	Color (		%	Color (		%	Type	Loc2	Texture	Remarks
0-13	10YR	3/2	100						Silty Clay Loam	
3-20	10YR	4/2	75	7.5YR	4/4	15	С	М	Sandy Clay Loam	
				10YR	4/1	10	D	М		
								-		
					-					
e: C=Con	centration, D	 D=Depletion	. RM=Reduc	ed Matrix.	CS=Covere	ed or Coat	ed Sand Gra	ins.	Location: PL=Pore Lining. M=	Matrix.
	Indicators:		.,						Indicators for Problem	
Histosol (	(A1)			Sa	ndy Gleyed	Matrix (S	4)			•
	pedon (A2)			☐ Sai	ndy Redox	(S5)			Coast Prairie Redox (A Dark Surface (S7)	16)
Black Hist	` '			Str	ipped Matri	ix (S6)			Iron Manganese Masso	os (E12)
	Sulfide (A4)			Lo:	amy Mucky	Mineral (f	F1)		Very Shallow Dark Sur	
2 cm Mud	Layers (A5)			_ Loa	amy Gleyec	d Matrix (F	2)			
	Below Dark S	Surfaco (A1	1)	_	pleted Matr				Other (Explain in Remains	arks)
	k Surface (A	•	1)	_	dox Dark S	,	<i>'</i>			
	uck Mineral (S	,			pleted Dark		. ,		<sup>3</sup> Indicators of hydrophyt	
,	cky Peat or Pe	,		∐ Re	dox Depres	sions (F8)	)		wetland hydrology m unless disturbed or	
trictive L	ayer (if obs	erved):								
Type: N	one									
Depth (inc	hes): NA								Hydric Soil Present?	Yes 🔾 No 🖲
emarks:										
ne criterion	for hydric s	soil is not	met at this	point.						
/DROLC	OGY									
-	Irology Indi			1 11 . 11					Constants to Poster	( - 1 - 1
1	ators (minimu	um of one is	s requirea; ci		11.37		(5.5)			(minimum of two required)
1	Vater (A1)				Water-Stain		(B9)		Surface Soil Crac	` '
, ,	er Table (A2)	)			Aquatic Fau		24.1		☐ Drainage Patterr	
Saturation	` /				Frue Aquati				☐ Dry Season Wat	
] Water Ma	, ,	2)			Hydrogen S			(02)	Crayfish Burrows	
1	Deposits (B2	2)					s on Living F	(C3)	Stunted or Stres	e on Aerial Imagery (C9)
Drift Depo		`			Presence of			ilo (C()		, ,
] Algal Mat ] Iron Depo	or Crust (B4	)					n in Tilled So	nis (Co)	Geomorphic Pos	
_	on Visible on A	Aorial Imag	on. (P7)		Thin Muck S				FAC-Neutral res	(D3)
1	Vegetated Co				Gauge or W					
) Sparsery	vegetated co	oncave Sun	ace (BO)		Other (Expla	ain in Rem	iarks)			
eld Observ	ations:									
rface Water		Yes <sup>(</sup>	O No @		Depth (inc	:hes):				
ater Table P		Yes <sup>(</sup>				_		_		
turation Pre					Depth (inc	_		Wet	and Hydrology Present?	Yes O No 💿
cludes capil		Yes (	O No @	)	Depth (inc	ches):		_		
scribe Red	corded Data	a (stream	gauge, moi	nitoring w	vell, aerial	photos,	previous ir	nspections	s), if available:	
evious deli	ineation, Dì	NR WWI n	nap, NRCS	Soils map	o, Topogra	aphic ma	p, Aerial p	hotos		
marks:										
	WETS analy				vas within	a norma	al range.			
			met at this							

Project/Site: IH 94 (N-S Freeway)		Cit	ty/County:	Milwaukee C	ounty	Sampling Date:	01-Aug-14
Applicant/Owner: Wisconsin Departmen	t of Transportation			State:	WI Sampli	ng Point:	SP-4
Investigator(s): Ron Londre, Geof Parisl	h		Section, Town	nship, Range:	s 30 T 5N	R 22E	
Landform (hillslope, terrace, etc.): Foots	slope			Local relief (c	oncave, convex, none): (	concave	•
Slope: 3.0% 1.7 • Lat.:			Long.:		=	Datum:	
Soil Map Unit Name: Aztalan Ioam (A	AsA) not hydric				WWI classifica	tion: None	
Are climatic/hydrologic conditions on the		ar? Yes (	● No ○	(If no. ex	plain in Remarks.)	non. <u>None</u>	
Are Vegetation , Soil		gnificantly dis			ormal Circumstances" prese	ent? Yes	No O
		9			·	5110.	
	3 03	aturally proble			ded, explain any answers i		
SUMMARY OF FINDINGS - A	ttach site map shov	ving sam	pling poir	nt location	ns, transects, imp	ortant features	, etc.
Hydrophytic Vegetation Present?	Yes ● No ○						
Hydric Soil Present?	Yes ● No ○			e Sampled A n a Wetland			
Wetland Hydrology Present?	Yes ● No ○				165 0 160 0		
Remarks:			<u> </u>				
All three parameters have been m	et at this point. Thus, this	s point is lo	cated in a w	etland.			
Wetland ID: W10-3							
<b>VEGETATION -</b> Use scie	entific names of plan	ts	Dominant				
		Absolute	- Species?		Dominance Test work	rsheet:	
Tree Stratum (Plot size: 30' r	)	% Cover	Cover	Status	<ul> <li>Number of Dominant Sp</li> </ul>		
1. Acer negundo		15	75.0%	FAC	That are OBL, FACW, or		5 (A)
2. Acer saccharinum		5	25.0%	FACW	Total Number of Domina	ant .	
3			0.0%		Species Across All Strata		5 (B)
4 5.		0	0.0%		Percent of dominant	Species	
J		20	= Total Cove		That Are OBL, FACW		).0% (A/B)
Sapling/Shrub Stratum (Plot size: 15	5' r )		- Total Cove	51	Prevalence Index wor	ksheet:	
1. Acer negundo		10	<b>✓</b> 66.7%	FAC	Total % Cover		<b>/</b> :
2. Sambucus nigra		5	<b>✓</b> 33.3%	FACW	OBL species	0 x 1 =	0
3.		0	0.0%		FACW species	120 x 2 =	240
4			0.0%		FAC species	28 x 3 =	84
5.		0	0.0%		FACU species	3 x 4 =	12
Herb Stratum (Plot size: 5' r	)	15	= Total Cove	er	UPL species	0 x 5 =	0
1. Phalaris arundinacea		80	<b>✓</b> 69.0%	FACW	Column Totals:	151 (A)	336 (B)
2. Solidago gigantea		15	12.9%	FACW	Prevalence Index	c = B/A = 2.	225_
3. Vitis riparia		10	8.6%	FACW	Hydrophytic Vegetation	on Indicators:	
Arisaema triphyllum     Rhamnus cathartica		5	4.3%	FACW	1 - Rapid Test for	Hydrophytic Vegeta	tion
6. Maianthemum racemosum		3	2.6%	FACU FACU	<b>✓</b> 2 - Dominance Tes	st is > 50%	
7.		3 0	0.0%	1 // (0	✓ 3 - Prevalence Ind	ex is ≤3.0 <sup>1</sup>	
8.		0	0.0%		4 - Morphological	Adaptations 1 (Pro	vide supporting
9.		0	0.0%			r on a separate sne ophytic Vegetation	
10.		0	0.0%		-		
Woody Vine Stratum (Plot size: 30'	r )	116	= Total Cove	er	<sup>1</sup> Indicators of hydric be present, unless dis		
1.		0	0.0%				
2.		0	0.0%		Hydrophytic		
		0	= Total Cove	er	Vegetation Present? Yes	No	
Remarks: (Include photo numbers	s here or on a separate sh	neet.)					
This point is located in a wooded							
The criterion for hydrophytic vege	tation is met at this point						

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

	Matı	rix			Red	ox Featu	ıres			
Depth inches) Co	olor (moist		%	Color (r		%	Туре	Loc <sup>2</sup>	Texture	Remarks
0-18 10	YR 2/	2/1	100						Sandy Clay Loam	
8-24 10	YR 6/	/1	70	10YR	5/6	15	С	М	Sandy Clay Loam	
				10YR	5/1	10	D	М		
				10YR	6/6	5	С	М		
			_							
$\equiv$ $\equiv$		==	=:							
oe: C=Concentrat		oletion, R	M=Reduce	ed Matrix, (	CS=Covere	d or Coate	ed Sand Gra	ins.	Location: PL=Pore Lining. M	=Matrix.
dric Soil Indicat	tors:					M. I. 1. (C.	4)		Indicators for Problem	natic Hydric Soils <sup>3</sup> :
Histosol (A1) Histic Epipedon Black Histic (A3) Hydrogen Sulfide Stratified Layers 2 cm Muck (A10 Depleted Below Thick Dark Surfa Sandy Muck Min	e (A4) (A5) ) Dark Surfac	ce (A11)		San Stri Loa Loa Dep Rec	ndy Gleyed ndy Redox ( ipped Matrix amy Mucky amy Gleyed oleted Matri dox Dark Su oleted Dark	(S5) x (S6) Mineral (F Matrix (F ix (F3) urface (F6	-1) 2)		Coast Prairie Redox ( Dark Surface (S7) Iron Manganese Mas Very Shallow Dark St Other (Explain in Rer	ses (F12)  urface (TF12)  marks)  ytic vegetation and
5 cm Mucky Pea	` ′	22)		Rec	dox Depress	sions (F8)			wetland hydrology unless disturbed o	
Type: None  Depth (inches): Nemarks:			this poin	t.					Hydric Soil Present?	Yes   No
Type: None Depth (inches): Nemarks: e criterion for hy	NA vdric soil is	s met at	this poin	t.					Hydric Soil Present?	Yes  No
Type: None Depth (inches): Nemarks: e criterion for hy  YDROLOGY etland Hydrology	vdric soil is	s met at			t apply)					Yes  No  vrs (minimum of two required)
Type: None	y Indicator ninimum of A1) e (A2) iits (B2) i3) st (B4) 55) le on Aerial	s met at	equired; ch	eck all tha	Vater-Staine quatic Faur frue Aquatic lydrogen Su exidized Rhi resence of	na (B13)  Plants (E ulfide Odo zospheres Reduced Reductior urface (CT ell Data (E	814) r (C1) s on Living R Iron (C4) n in Tilled So 7)		Secondary Indicato  Surface Soil Cr  Drainage Patte  Dry Season Wa  Crayfish Burrov  Saturation Visil	ars (minimum of two required) acks (B6) rns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) assed Plants (D1) active (D2)
Type: None Depth (inches): Nemarks: e criterion for hy  YDROLOGY  Tetland Hydrology imary Indicators (name and the second and	y Indicator ininimum of A1) e (A2) its (B2) ist (B4) ist (B4) ited Concave ited Con	I Imagery Yes O Yes O Yes O Yes O Team gar	(B7) (B8)  No   No   No   uge, mon	eck all tha	Vater-Staine  Aquatic Faur  Aquatic Faur  Aquatic Faur  Aquatic Faur  Aquatic Faur  Aquatic  Aquatic	na (B13)  Plants (Eulfide Odo zospheres Reduced Reductior urface (Cital Data (Eulfin in Rem hes): hes): photos,	previous ir	wetla	Secondary Indicato Surface Soil Cr Drainage Patte Dry Season Wa Crayfish Burrov Saturation Visit Stunted or Stre Geomorphic Po	ars (minimum of two required) acks (B6) rns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) assed Plants (D1) active (D2)

Project/Site: IH 94 (N-S Freeway)		Cit	y/County:	Milwaukee C	ounty	Sampling Date	e:01-Aug-14
Applicant/Owner: Wisconsin Departmen	t of Transportation			State:	WI	Sampling Point:	SP-5
Investigator(s): Ron Londre, Geof Parisl			Section, Town	nship, Range:	s 30 T	5N R 22E	
Landform (hillslope, terrace, etc.): Sumi					oncave, convex, n		_
	IIIIL			Local relief (c	oncave, convex, n		
Slope: 2.0% 1.1 • Lat.:			Long.:			Datum: _	
Soil Map Unit Name: <u>Matherton silt</u>	oam (MmA), not hydric				WWI c	lassification: None	
Are climatic/hydrologic conditions on the	site typical for this time of y	<sub>/ear?</sub> Yes (	● No ○	(If no, ex	plain in Remarks.)		
Are Vegetation , Soil .	, or Hydrology	significantly dist	turbed?	Are "No	rmal Circumstance	es" present? Yes	s   No
Are Vegetation , Soil .	, or Hydrology $\Box$ r	naturally proble	matic?	(If need	ded. explain anv ar	nswers in Remarks.)	
SUMMARY OF FINDINGS - A							res, etc.
Hydrophytic Vegetation Present?	Yes O No O					· ·	,
Hydric Soil Present?	Yes ○ No ●			e Sampled A in a Wetland		. (2)	
Wetland Hydrology Present?	Yes ○ No •		Withi	ın a welland	l? Yes 🔾 N	<b>NO</b>	
Remarks:							
None of the parameters have bee  VEGETATION - Use scie	· 		Dominant - Species?		Dominance Te	at washahaati	
Tree Stratum (Plot size: 30' r	)	% Cover	Rel.Strat. Cover	Indicator Status			
1.	_	0	0.0%		<ul> <li>Number of Dom That are OBL, Fa</li> </ul>		1 (A)
2.		0	0.0%				
3.		0	0.0%		Total Number of Species Across A		3 (B)
4.		0	0.0%		op 66.65 7.6.655 7	ottata.	
5.		0	0.0%			minant Species	33.3% (A/B)
			= Total Cov	er	That Are OBL,	FACW, or FAC:	(/(8)
Sapling/Shrub Stratum (Plot size: 15	<u>'' r                                  </u>		_		Prevalence Ind	lex worksheet:	
		0	0.0%		Total %	Cover of: Multiple	y by:
2			0.0%		OBL species	x 1 =	
3		0	0.0%		FACW specie		
4			0.0%		FAC species	x 3 =	15
5			0.0%		FACU species		
Herb Stratum (Plot size: 5' r	)		= Total Cov	er	UPL species	3 x 5 =	15
1. Solidago canadensis		40_	<b>✓</b> 33.9%	FACU	Column Tota	ls: <u>118</u> (A)	420 (B)
2. Phalaris arundinacea		25	<b>✓</b> 21.2%	FACW	Prevalenc	e Index = B/A =	3.559
3. Monarda fistulosa		25	<b>✓</b> 21.2%	FACU		egetation Indicators:	
4. Asclepias syriaca		10	8.5%	FACU		est for Hydrophytic Ve	getation
5. Cirsium arvense		5	4.2%	FACU	_	nce Test is > 50%	getation
6. Poa pratensis		5	4.2%	FAC		nce Index is $\leq$ 3.0 $^1$	
7. Parthenocissus quinquefolia		5	4.2%	FACU		logical Adaptations $^{1}$ (	Drovide supporting
8. Coronilla varia		3	2.5%	UPL	data in Ren	narks or on a separate	sheet)
10.			0.0%		☐ Problemati	c Hydrophytic Vegetat	ion <sup>1</sup> (Explain)
		0	0.0%		<sup>1</sup> Indicators of	f hydric soil and wetlar	nd hydrology must
Woody Vine Stratum (Plot size: 30'	r)	118	= Total Cov	er		less disturbed or probl	
1.		0	0.0%				
2.		0	0.0%		Hydrophytic Vegetation		
		0	= Total Cov	er	Present?	Yes O No 💿	
Remarks: (Include photo numbers	s here or on a separate s	sheet.)					
This point is located in a old field		•					
The criterion for hydrophytic vege		point.					

ppe: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.    Poper	Texture  Silty Clay Loam  Silty Clay Loam  Silty Clay Loam  Silty Clay Loam  Decation: PL=Pore Lining. M=  Indicators for Problem  Coast Prairie Redox (A  Dark Surface (S7)  Iron Manganese Mass  Very Shallow Dark Sur  Other (Explain in Rem  3 Indicators of hydrophyt wetland hydrology nunless disturbed or	natic Hydric Soils <sup>3</sup> :  A16)  ses (F12)  urface (TF12)  narks)  ttic vegetation and must be present,
ppe: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.    Poper	Silty Clay Loam  Silty Clay Loam  Silty Clay Loam  Coation: PL=Pore Lining. M=  Indicators for Problem  Coast Prairie Redox (A  Dark Surface (S7)  Iron Manganese Mass  Very Shallow Dark Sur  Other (Explain in Rem  3 Indicators of hydrophyty wetland hydrology nunless disturbed or	natic Hydric Soils <sup>3</sup> :  A16)  ses (F12)  urface (TF12)  narks)  tic vegetation and must be present, r problematic.
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  ydric Soil Indicators:    Histosol (A1)	Cation: PL=Pore Lining. M=  Indicators for Problem  Coast Prairie Redox (A  Dark Surface (S7)  Iron Manganese Mass  Very Shallow Dark Sur  Other (Explain in Rem  Indicators of hydrophyt wetland hydrology nunless disturbed or	natic Hydric Soils <sup>3</sup> :  A16)  ses (F12)  urface (TF12)  narks)  tic vegetation and must be present, r problematic.
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  ydric Soil Indicators:    Histosol (A1)	Indicators for Problem Coast Prairie Redox (ADDark Surface (S7) Iron Manganese Mass Very Shallow Dark Sur Other (Explain in Rem  Indicators of hydrophyt wetland hydrology nunless disturbed or	natic Hydric Soils <sup>3</sup> :  A16)  ses (F12)  urface (TF12)  narks)  tic vegetation and must be present, r problematic.
Histosol (A1)  Histosol (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Muck Mineral (S1)  Stratified Layer (if observed):  Type: None  Depth (inches): NA   DROLOGY  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Sandy Redox (S5)  Stripped Matrix (S6)  Loamy Mucky Mineral (F1)  Loamy Gleyed Matrix (F2)  Depleted Matrix (F3)  Redox Dark Surface (F6)  Depleted Dark Surface (F7)  Redox Depressions (F8)	Indicators for Problem  Coast Prairie Redox (A  Dark Surface (S7)  Iron Manganese Mass  Very Shallow Dark Sur  Other (Explain in Rem  Indicators of hydrophyty wetland hydrology nunless disturbed or	natic Hydric Soils <sup>3</sup> :  A16)  ses (F12)  urface (TF12)  narks)  tic vegetation and must be present, r problematic.
Histosol (A1)  Histosol (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Muck Mineral (S1)  Stratified Layer (if observed):  Type: None  Depth (inches): NA   DROLOGY  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Sandy Redox (S5)  Stripped Matrix (S6)  Loamy Mucky Mineral (F1)  Loamy Gleyed Matrix (F2)  Depleted Matrix (F3)  Redox Dark Surface (F6)  Depleted Dark Surface (F7)  Redox Depressions (F8)	Indicators for Problem  Coast Prairie Redox (A  Dark Surface (S7)  Iron Manganese Mass  Very Shallow Dark Sur  Other (Explain in Rem  Indicators of hydrophyty wetland hydrology nunless disturbed or	natic Hydric Soils <sup>3</sup> :  A16)  ses (F12)  urface (TF12)  narks)  tic vegetation and must be present, r problematic.
Histosol (A1) Sandy Gleyed Matrix (S4)  Histosol (A2) Sandy Redox (S5)  Black Histic (A3) Stripped Matrix (S6)  Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1)  Stratified Layers (A5) Loamy Gleyed Matrix (F2)  2 cm Muck (A10) Depleted Matrix (F3)  Depleted Below Dark Surface (A11) Redox Dark Surface (F6)  Thick Dark Surface (A12) Depleted Dark Surface (F7)  Sandy Muck Mineral (S1) Redox Depressions (F8)  strictive Layer (if observed):  Type: None Depth (inches): NA  PROROLOGY  Strictive Layer (Matrix (F3))  PROLOGY  Strictive Layer (Matrix (F3))  Depleted Matrix (S4)  Depleted Matrix (S6)  Loamy Mucky Mineral (F1)  Depleted Matrix (F2)  Depleted Matrix (S6)  Loamy Mucky Mineral (F1)  Redox Dark Surface (F6)  Redox Depressions (F8)	Indicators for Problem  Coast Prairie Redox (A  Dark Surface (S7)  Iron Manganese Mass  Very Shallow Dark Sur  Other (Explain in Rem  Indicators of hydrophyty wetland hydrology nunless disturbed or	natic Hydric Soils <sup>3</sup> :  A16)  ses (F12)  urface (TF12)  narks)  tic vegetation and must be present, r problematic.
Histosol (A1) Sandy Gleyed Matrix (S4) Histic Epipedon (A2) Sandy Redox (S5) Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Stratified Layers (A5) Loamy Gleyed Matrix (F2) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Muck Mineral (S1) Redox Depressions (F8)  Strictive Layer (if observed): Type: None Depth (inches): NA  marks: criterion for hydric soil is not met at this point.	Coast Prairie Redox (A Dark Surface (S7) Iron Manganese Mass Very Shallow Dark Sur Other (Explain in Rem  3 Indicators of hydrophyt wetland hydrology nunless disturbed or	ses (F12)  Inface (TF12)  Inarks)  Itic vegetation and must be present, r problematic.
Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Muck Mineral (S1)  5 cm Mucky Peat or Peat (S3)  Strictive Layer (if observed):  Type: None  Depth (inches): NA  DROLOGY  Redox Dark Surface (A11)  Thick Dark Surface (A12)  Depleted Dark Surface (F6)  Redox Depressions (F8)  Depleted Dark Surface (F7)  Redox Depressions (F8)  Depleted Dark Surface (F7)  Redox Depressions (F8)  Depth (inches): NA  Depth (inches): NA  DROLOGY  Redox Depressions (F8)	Dark Surface (S7)  Iron Manganese Mass  Very Shallow Dark Sur  Other (Explain in Rem  Indicators of hydrophytic wetland hydrology nunless disturbed or	ses (F12)  Inface (TF12)  Inarks)  Itic vegetation and must be present, r problematic.
Type: None Depth (inches): NA  emarks: e criterion for hydric soil is not met at this point.  TDROLOGY  etland Hydrology Indicators: mary Indicators (minimum of one is required; check all that apply)	Hydric Soil Present?	Yes ○ No ●
nary Indicators (minimum of one is required; check all that apply)		
	Secondary Indicator	rs (minimum of two required)
Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)  True Aquatic Plants (B14)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres on Living Roots (C3)  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Thin Muck Surface (C7)  Gauge or Well Data (D9)  Other (Explain in Remarks)		rns (B10) ter Table (C2) vs (C8) ble on Aerial Imagery (C9) sssed Plants (D1) sition (D2)
cludes capillary fringe)  Yes  No  Depth (inches):  Scribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), i	d Hydrology Present?  if available:	Yes ○ No •
evious delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos emarks: used on a WETS analysis, antecedent precipitation was within a normal range.		

Project/Site: IH 94 (N-S Freeway)	Cit	ty/County:	Milwaukee C	ounty	Sampling Date:	04-Aug-14
Applicant/Owner: Wisconsin Department of Transportation			State:	WI Samplir	ng Point:	SP-6
Investigator(s): Ron Londre, Geof Parish		Section, Tow	nship, Range:	s 30 T 5N	R 22E	
Landform (hillslope, terrace, etc.): Toeslope/ditch			Local relief (c	oncave, convex, none): C	oncave	_
Slope: 2.0% 1.1 • Lat.:		Long.:		_	Datum:	
				WWI classificat		
Soil Map Unit Name: Matherton silt loam (MmA), not hydric  Are climatic/hydrologic conditions on the site typical for this time of y	Yes (	● No ○	(If no ex	plain in Remarks.)	on. <u>None</u>	
	ignificantly dis			,	nt? Yes	No O
				rmal Circumstances" prese		1100
Are Vegetation  , Soil  , or Hydrology	aturally proble	ematic?	(If need	ded, explain any answers in	Remarks.)	
SUMMARY OF FINDINGS - Attach site map show	wing sam <sub>l</sub>	pling poi	nt locatio	ns, transects, impo	rtant features	, etc.
Hydrophytic Vegetation Present? Yes   No						
Hydric Soil Present? Yes   No			e Sampled A in a Wetland			
Wetland Hydrology Present? Yes ● No ○		With	iii a wedano	· res © No C		
Remarks:		ı				
This point is located in a roadside ditch. All three paramete	ers have bee	n met at th	is point. Thu	ıs, this point is located i	n a wetland.	
Wetland ID: W10-3						
<b>VEGETATION -</b> Use scientific names of plan	ntc	Dominant				
Ose scientific fiames of plan		- Species?		Daminana Tastuusik	-1	
Tree Stratum (Plot size: 15' x 100' )	Absolute % Cover	Rel.Strat. Cover	Indicator Status	Dominance Test works		
1	0	0.0%		<ul> <li>Number of Dominant Spe That are OBL, FACW, or</li> </ul>		3 (A)
2.	0	0.0%		Tatal Niverbar of Danier		_
3	0	0.0%		Total Number of Domina Species Across All Strata:		3 (B)
4	0	0.0%		Descent of descions (		_
5	0	0.0%		Percent of dominant S That Are OBL, FACW,		0.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15' x 100' )		= Total Cov	er	Drovelones Indoversal		
1	0	0.0%		Prevalence Index work Total % Cover of		<i>.</i> /·
2.	0	0.0%			60 x 1 =	60
3.	0	0.0%		FACW species	65 x 2 =	130
4	0	0.0%		FAC species	0 x 3 =	0
5.		0.0%		FACU species	3 x 4 =	12
Herb Stratum (Plot size: 5' r )		= Total Cov	er	UPL species	0 x 5 =	0
1. Phalaris arundinacea	60_	<b>✓</b> 46.9%	FACW	Column Totals:	128 (A)	202 (B)
2. Scirpus atrovirens	30	23.4%	OBL	Prevalence Index	= B/A = 1.	 578
3. Typha angustifolia	30	23.4%	OBL	Hydrophytic Vegetatio	n Indicators:	
4. Solidago gigantea	5	3.9%	FACW	✓ 1 - Rapid Test for H		ntion
5. Parthenocissus quinquefolia 6.	3	2.3%	FACU	✓ 2 - Dominance Test		
7.	0 0	0.0%		<b>✓</b> 3 - Prevalence Inde	ex is ≤3.0 <sup>1</sup>	
8.	0	0.0%		4 - Morphological	Adaptations 1 (Pro	vide supporting
9.	0	0.0%		data in Remarks or	•	•
10.	0	0.0%		Problematic Hydro		
Woody Vine Stratum (Plot size: 15' x 100' )	128	= Total Cov	er	<sup>1</sup> Indicators of hydric be present, unless dis		
1.	0	0.0%		se present, unless uis	sea or probleme	
2.	0	0.0%		Hydrophytic		
	0	= Total Cov	er	Vegetation Present? Yes	● No ○	
		. 5.5.	-	<del></del>		
Remarks: (Include photo numbers here or on a separate s	heet.)					
This point is located in a plant community representative of	f a wet mea	dow / shall	ow marsh.			
The criterion for hydrophytic vegetation is met at this poin	t.					

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

ofile Description: (De Depth	escribe to t Matrix	ine deptin n	leeded to docu	Redox Feati			absence of indicators.)		
	(moist)	%	Color (mois	st) %	Туре	Loc2	Texture	F	Remarks
0-14 10YR	2/1	95	7.5YR	4/6 5	С	M	Silty Clay Loam		
14-24 10YR	5/2	90	7.5YR	5/6 10	С	М	Silty Clay Loam		
	·								
				<del></del>					
	,								
								_	
							. —		
pe: C=Concentration,		ı, RM=Reduc	ced Matrix, CS=0	Covered or Coat	ed Sand Gra	ins.	Location: PL=Pore Lining		
dric Soil Indicators:	ł			N	4)		Indicators for Prob	lematic Hydric	: Soils <sup>3</sup> :
Histosol (A1) Histic Epipedon (A2)				Gleyed Matrix (S	4)		Coast Prairie Red	ox (A16)	
Black Histic (A3)				Redox (S5)			☐ Dark Surface (S7)		
Hydrogen Sulfide (A4	)			d Matrix (S6)			☐ Iron Manganese I	Masses (F12)	
Stratified Layers (A5)				Mucky Mineral (			Very Shallow Dar	Surface (TF12)	
2 cm Muck (A10)				Gleyed Matrix (F	2)		Other (Explain in		
Depleted Below Dark	Surface (A1	1)		d Matrix (F3)	`			, , , , , , , , , , , , , , , , , , , ,	
Thick Dark Surface (A	,	,		Dark Surface (F6			2		
Sandy Muck Mineral	,			d Dark Surface			3 Indicators of hydro		
5 cm Mucky Peat or F	, ,		☐ Redox L	Depressions (F8)	)		wetland hydrolo unless disturbe	gy must be pres d or problemati	
trictive Layer (if ob	served):								
Type: None	•								_
								🔾	No O
Depth (inches): NA							Hydric Soil Present?	Yes 💿	NO U
Depth (inches): NA marks: appears to be a roa criterion for hydric							Hydric Soil Present?	Yes •	NO C
marks: appears to be a roa							Hydric Soil Present?	Yes 🔍	NO C
marks: appears to be a roa criterion for hydric  DROLOGY  tland Hydrology Inc	soil is met	at this poi	nt.						
marks: appears to be a roacriterion for hydric  DROLOGY tland Hydrology Incomory Indicators (minim	soil is met	at this poi	nt.	oly)			Secondary Indic	ators (minimum	of two required)
marks: appears to be a roacriterion for hydric  DROLOGY  Eland Hydrology Inc.  mary Indicators (minim  Surface Water (A1)	soil is met	at this poi	nt.  heck all that app  Water	-Stained Leaves	s (B9)		Secondary India	ators (minimum Cracks (B6)	
parks:  appears to be a roacriterion for hydric  DROLOGY  cland Hydrology Indicators (minim Surface Water (A1)  High Water Table (A2)	soil is met	at this poi	nt.  heck all that app  Water  Aquat	-Stained Leaves ic Fauna (B13)	,		Secondary India Surface Soi	ators (minimum Cracks (B6) atterns (B10)	of two required)
parks: appears to be a roacriterion for hydric  DROLOGY  Cland Hydrology Inc. ary Indicators (minim Surface Water (A1) High Water Table (A2) Saturation (A3)	soil is met	at this poi	heck all that app Water Aquat	r-Stained Leaves ic Fauna (B13) Aquatic Plants (I	314)		Secondary India  Surface Soi  Drainage Pa	ators (minimum Cracks (B6) utterns (B10) Water Table (C:	of two required)
marks: appears to be a roacriterion for hydric  DROLOGY  tland Hydrology Incary Indicators (minim Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1)	soil is met	at this poi	heck all that app Water Aquat True /	r-Stained Leaves ic Fauna (B13) Aquatic Plants (F gen Sulfide Odd	314) or (C1)		Secondary India  Surface Soi  Drainage Pa  Dry Season  Crayfish Bu	ators (minimum Cracks (B6) atterns (B10) Water Table (C: rrows (C8)	of two required)
parks: appears to be a roacriterion for hydric  DROLOGY  Cland Hydrology Inchary Indicators (minim Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (E	soil is met	at this poi	heck all that app	r-Stained Leaves ic Fauna (B13) Aquatic Plants (F gen Sulfide Odd red Rhizosphere	314) or (C1) s on Living F	oots (C3)	Secondary India Surface Soi Drainage Port Dry Season Crayfish Bu	ators (minimum Cracks (B6) atterns (B10) Water Table (C. rrows (C8) /isible on Aerial	of two required)  2)  Imagery (C9)
processing to be a road criterion for hydric criterion (A2) criterion (A3) criterion	licators: num of one is	at this poi	heck all that app Water Aquat True / Hydro	r-Stained Leaves ic Fauna (B13) Aquatic Plants (I agen Sulfide Odc red Rhizosphere nce of Reduced	314) or (C1) s on Living F Iron (C4)		Secondary India  Surface Soi  Drainage P.  Dry Season  Crayfish Bu  Saturation  Stunted or	ators (minimum Cracks (B6) atterns (B10) Water Table (Ca Trows (C8) /isible on Aerial Stressed Plants (	of two required)  2)  Imagery (C9)
processing to be a road criterion for hydric criterion for hydric processing to be a road criterion for hydric processing to the criterion for hydric processing to be a road criterion for hydric processing the processing to be a road criterion for hydric processing the proces	licators: num of one is	at this poi	heck all that app Water Aquat True Hydro Oxidiz Prese	Stained Leaves ic Fauna (B13) Aquatic Plants (I gen Sulfide Odd red Rhizosphere nce of Reduced at Iron Reduction	314) or (C1) s on Living F Iron (C4) n in Tilled Sc		Secondary India Surface Soi Drainage Po Dry Season Crayfish Bu Saturation Stunted or Geomorphi	ators (minimum Cracks (B6) atterns (B10) Water Table (Corrows (C8) Visible on Aerial Stressed Plants (Corrows (D2)	of two required)  2)  Imagery (C9)
processits (B3) Algal Mat or Crust (B5) Aronary Eland Hydrology Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B1) Iron Deposits (B5)	licators: um of one is	at this poi	heck all that app Water Aquat True / Hydro Oxidiz Prese Recer	r-Stained Leaves ic Fauna (B13) Aquatic Plants (I agen Sulfide Odc ted Rhizosphere nce of Reduced at Iron Reduction Muck Surface (C	314) or (C1) s on Living F Iron (C4) n in Tilled Sc 7)		Secondary India  Surface Soi  Drainage P.  Dry Season  Crayfish Bu  Saturation  Stunted or	ators (minimum Cracks (B6) atterns (B10) Water Table (Corrows (C8) Visible on Aerial Stressed Plants (Corrows (D2)	of two required)  2)  Imagery (C9)
processing to be a road criterion for hydric criterion (A1) and the criterion for hydric crit	licators: um of one is 2) Aerial Imag	at this poi	heck all that app Water Aquat True / Hydro Oxidiz Prese Recer	r-Stained Leaves ic Fauna (B13) Aquatic Plants (I agen Sulfide Odc ed Rhizosphere nce of Reduced at Iron Reduction Muck Surface (C e or Well Data (I	B14) or (C1) s on Living F Iron (C4) n in Tilled Sc 7)		Secondary India Surface Soi Drainage Po Dry Season Crayfish Bu Saturation Stunted or Geomorphi	ators (minimum Cracks (B6) atterns (B10) Water Table (Corrows (C8) Visible on Aerial Stressed Plants (Corrows (D2)	of two required)  2)  Imagery (C9)
DROLOGY  Cland Hydrology Inc.  Burface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Inundation Visible on	licators: um of one is 2) Aerial Imag	at this poi	heck all that app Water Aquat True / Hydro Oxidiz Prese Recer	r-Stained Leaves ic Fauna (B13) Aquatic Plants (I agen Sulfide Odc ted Rhizosphere nce of Reduced at Iron Reduction Muck Surface (C	B14) or (C1) s on Living F Iron (C4) n in Tilled Sc 7)		Secondary India Surface Soi Drainage Po Dry Season Crayfish Bu Saturation Stunted or Geomorphi	ators (minimum Cracks (B6) atterns (B10) Water Table (Corrows (C8) Visible on Aerial Stressed Plants Corrows (D2)	of two required)  2)  Imagery (C9)
processing to be a road criterion for hydric criterion for hydric criterion for hydric processing to the processing to t	licators: um of one is 2) Aerial Imag	at this poi	heck all that app Water Aquat True / Hydro Oxidiz Prese Recer	r-Stained Leaves ic Fauna (B13) Aquatic Plants (I gen Sulfide Odc red Rhizosphere nce of Reduced at Iron Reduction Muck Surface (C e or Well Data (I	B14) or (C1) s on Living F Iron (C4) n in Tilled Sc 7)		Secondary India Surface Soi Drainage Po Dry Season Crayfish Bu Saturation Stunted or Geomorphi	ators (minimum Cracks (B6) atterns (B10) Water Table (Corrows (C8) Visible on Aerial Stressed Plants Corrows (D2)	of two required)  2)  Imagery (C9)
processing to be a road criterion for hydric criterion for hydric criterion for hydric processing to be a road	licators: sum of one is 2) 4) Aerial Imag	ery (B7) ace (B8)	heck all that app Water Aquat Hydro Oxidiz Prese Recer Thin M	r-Stained Leaves ic Fauna (B13) Aquatic Plants (I agen Sulfide Odd red Rhizosphere nce of Reduced at Iron Reduction Muck Surface (C e or Well Data (I (Explain in Rem	B14) or (C1) s on Living F Iron (C4) n in Tilled Sc 7)		Secondary India Surface Soi Drainage Po Dry Season Crayfish Bu Saturation Stunted or Geomorphi	ators (minimum Cracks (B6) atterns (B10) Water Table (Corrows (C8) Visible on Aerial Stressed Plants Corrows (D2)	of two required)  2)  Imagery (C9)
marks: appears to be a roa criterion for hydric  DROLOGY  tland Hydrology Inc. mary Indicators (minim Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C  Id Observations: face Water Present?	licators: um of one is  2)  Aerial Imag	ery (B7) face (B8)	heck all that app Water Aquat True A Hydro Oxidiz Prese Recer Thin N Gauge	r-Stained Leaves ic Fauna (B13) Aquatic Plants (I agen Sulfide Odd red Rhizosphere nce of Reduced at Iron Reduction Muck Surface (C e or Well Data (I (Explain in Remark th (inches):	B14) or (C1) s on Living F Iron (C4) n in Tilled Sc 7)		Secondary India Surface Soi Drainage Po Dry Season Crayfish Bu Saturation Stunted or Geomorphi	ators (minimum Cracks (B6) atterns (B10) Water Table (Corrows (C8) Visible on Aerial Stressed Plants Corrows (D2)	of two required)  2)  Imagery (C9)
marks: appears to be a roa criterion for hydric  DROLOGY  tland Hydrology Inc. mary Indicators (minim Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C  Id Observations: face Water Present? ter Table Present?	licators: num of one is  2)  Aerial Imag concave Surf	ery (B7) ace (B8)  No	heck all that app Water Aquat True / Hydro Oxidiz Prese Recer Thin N Gauge	r-Stained Leaves ic Fauna (B13) Aquatic Plants (I agen Sulfide Odd red Rhizosphere nce of Reduced at Iron Reduction Muck Surface (C e or Well Data (I (Explain in Rem	B14) or (C1) s on Living F Iron (C4) n in Tilled Sc 7)	ils (C6)	Secondary India  Surface Soi  Drainage Port  Crayfish But  Saturation of Stunted or  Geomorphi  FAC-Neutra	ators (minimum Cracks (B6) atterns (B10) Water Table (C: crows (C8) /isible on Aerial Stressed Plants c: Position (D2)	of two required)  2)  Imagery (C9)
processing to be a road criterion for hydric criter	licators: um of one is  2)  Aerial Imag	ery (B7) ace (B8)  No	heck all that app Water Aquat True / Hydro Oxidiz Prese Recer Thin N Gauge	r-Stained Leaves ic Fauna (B13) Aquatic Plants (I agen Sulfide Odd red Rhizosphere nce of Reduced at Iron Reduction Muck Surface (C e or Well Data (I (Explain in Remark th (inches):	B14) or (C1) s on Living F Iron (C4) n in Tilled Sc 7)	ils (C6)	Secondary India Surface Soi Drainage Po Dry Season Crayfish Bu Saturation Stunted or Geomorphi	ators (minimum Cracks (B6) atterns (B10) Water Table (C: crows (C8) /isible on Aerial Stressed Plants c: Position (D2)	of two required)  2)  Imagery (C9) (D1)
marks: appears to be a roacriterion for hydric  DROLOGY  tland Hydrology Inc. ary Indicators (minim Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C  d Observations: ace Water Present? er Table Present? uration Present?	licators: sum of one is  2)  Aerial Imag concave Surf  Yes  Yes  Yes	ery (B7) ace (B8)  No  No	heck all that app Water Aquat True A Hydro Oxidiz Prese Recer Thin N Gauge Other	r-Stained Leaves ic Fauna (B13) Aquatic Plants (I ugen Sulfide Odc ed Rhizosphere nce of Reduced at Iron Reduction Muck Surface (C e or Well Data (I (Explain in Remark):  th (inches):	B14) or (C1) s on Living F Iron (C4) n in Tilled Sc 7) D9) narks)	ils (C6)	Secondary India Surface Soi Drainage Pa Dry Season Crayfish Bu Saturation Stunted or Geomorphi FAC-Neutra	ators (minimum Cracks (B6) atterns (B10) Water Table (C: crows (C8) /isible on Aerial Stressed Plants c: Position (D2)	of two required)  2)  Imagery (C9) (D1)
processing to be a road criterion for hydric criter	licators: sum of one is  2)  Aerial Imag concave Surf  Yes  Yes  (a (stream	ery (B7) ace (B8)  No ace (B8)  No agauge, mo	heck all that app Water Aquat True / Hydro Oxidiz Prese Recer Thin M Gauge Other  Dep Dep	r-Stained Leaves ic Fauna (B13) Aquatic Plants (I gen Sulfide Odd red Rhizosphere nce of Reduced at Iron Reduction Muck Surface (C e or Well Data (I (Explain in Rem th (inches):	previous ir	Weti	Secondary India Surface Soi Drainage Pa Dry Season Crayfish Bu Saturation Stunted or Geomorphi FAC-Neutra	ators (minimum Cracks (B6) atterns (B10) Water Table (C: crows (C8) /isible on Aerial Stressed Plants c: Position (D2)	of two required)  2)  Imagery (C9) (D1)
marks: appears to be a roacriterion for hydric  DROLOGY  cland Hydrology Inc. ary Indicators (minim Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Drift Deposits (B5) Inundation Visible on Sparsely Vegetated C  d Observations: ace Water Present? aration Present? uration Present? uration Present? uration Present? uration Present? uration Present? uration Present?	licators: sum of one is  2)  Aerial Imag concave Surf  Yes  Yes  (a (stream	ery (B7) ace (B8)  No ace (B8)  No agauge, mo	heck all that app Water Aquat True / Hydro Oxidiz Prese Recer Thin M Gauge Other  Dep Dep	r-Stained Leaves ic Fauna (B13) Aquatic Plants (I gen Sulfide Odd red Rhizosphere nce of Reduced at Iron Reduction Muck Surface (C e or Well Data (I (Explain in Rem th (inches):	previous ir	Weti	Secondary India Surface Soi Drainage Pa Dry Season Crayfish Bu Saturation Stunted or Geomorphi FAC-Neutra	ators (minimum Cracks (B6) atterns (B10) Water Table (C: crows (C8) /isible on Aerial Stressed Plants c: Position (D2)	of two required)  2)  Imagery (C9) (D1)

Project/Site: IH 94 (N-S Freeway)		Cit	y/County:	Milwaukee C	ounty	Sampling Date:	04-Aug-14
Applicant/Owner: Wisconsin Departmer	nt of Transportation			State:	WI	Sampling Point:	SP-7
Investigator(s): Ron Londre, Geof Paris	h	S	Section, Tow	nship, Range:	s 30 T	5N R 22E	
Landform (hillslope, terrace, etc.): Foot	slope			Local relief (c	oncave, convex, no	one): concave	_
Slope: 5.0% 2.9 • Lat.:						Datum:	
			Long.: _		24.0.4/		
Soil Map Unit Name: <u>Matherton silt</u>		- Voc (	• No O	/16 == = =		assification: None	
Are climatic/hydrologic conditions on the		cui:		•	plain in Remarks.)	s" present? Yes	No ○
Are Vegetation , Soil .	, or Hydrology   s	gnificantly dist	:urbed?	Are "No	rmal Circumstance	s" present? Yes	• No U
Are Vegetation, Soil	, or Hydrology 🔲 n	aturally proble	matic?	(If need	ded, explain any ar	swers in Remarks.)	
SUMMARY OF FINDINGS - A	Attach site map show	wing samp	oling poi	nt locatio	ns, transects	, important feature	s, etc.
Hydrophytic Vegetation Present?	yes ○ No ●						
Hydric Soil Present?	Yes ○ No ●			e Sampled A			
Wetland Hydrology Present?	Yes O No •		with	in a Wetland	l? Yes O N	lo 🕑	
Remarks:	163 0 110 0						
Area recently filled (permitted fill None of the parameters have bee	n met at this point. Thus	this point is		an upland.	new normal circ	umstance.	
	\	Absolute	Species? Rel.Strat.	Indicator	Dominance Tes	st worksheet:	
Tree Stratum (Plot size: 30' r 1.		% Cover	Cover	Status	Number of Domi		0 (A)
_			0.0%		That are OBL, FA	ACW, OF FAC:	0 (A)
3		0	0.0%		Total Number of Species Across A		1 (p)
4.		0	0.0%		species Across A	III Sti ata.	1 (B)
5.		0	0.0%		Percent of don		0.0% (A/B)
		0	= Total Cov	er	Inat Are OBL,	FACW, or FAC:	3.070 (A/B)
Sapling/Shrub Stratum (Plot size: 15	5' r)				Prevalence Ind	ex worksheet:	
		0	0.0%		Total %	Cover of: Multiply	by:
2		0	0.0%		OBL species	0 x 1 =	0
3		0	0.0%		FACW species		16
5.		0 0	0.0%		FAC species	5 × 3 =	15
		0	= Total Cov	er	FACU species UPL species	80 x 4 = 0 x 5 =	320
Herb Stratum (Plot size: 5' r	)			CI	·		
1. Lolium multiflorum			80.6%	<u>FACU</u>	Column Total	s: <u>93</u> (A)	351 (B)
2. Phalaris arundinacea		8	8.6%	FACW	Prevalence	e Index = B/A =	3.774_
Medicago sativa     Barbarea vulgaris		5	5.4%	FACU	Hydrophytic Ve	getation Indicators:	
5.			0.0%	FAC	1 - Rapid Te	est for Hydrophytic Vege	tation
6.		0	0.0%			nce Test is > 50%	
7.		0	0.0%			ice Index is $\leq$ 3.0 <sup>1</sup>	
8.		0	0.0%		4 - Morphol	ogical Adaptations $^1$ (Properties of the $^1$ (Properties of the $^1$	ovide supporting
9.		0	0.0%			arks or on a separate sr : Hydrophytic Vegetation	
10.		0	0.0%				
Woody Vine Stratum (Plot size: 30'	r )	93	= Total Cov	er		hydric soil and wetland less disturbed or probler	
1.		0	0.0%			<u> </u>	
2.		0	0.0%		Hydrophytic		
		0	= Total Cov	er	Vegetation Present?	Yes O No •	
Remarks: (Include photo numbers	s here or on a separate s	neet.)					
Vegetation is significantly disturbed			annual rye	being recer	ntly planted.		
The criterion for hydrophytic vege			,	S	• •		

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

	th needed to document the indicator or confirm Redox Features	the absence of indicators.)
Depth Matrix (inches) Color (moist) %	Color (moist) % Type Loc	Texture Remarks
0-15 10YR 3/1 100		Silty Clay Loam
15-24 10YR 2/1 100		Muck native soil layer
pe: C=Concentration, D=Depletion, RM=Re	educed Matrix, CS=Covered or Coated Sand Grains.	Eocation: PL=Pore Lining. M=Matrix.
ydric Soil Indicators:		Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Muck Mineral (S1) 5 cm Mucky Peat or Peat (S3)	Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8)	Coast Prairie Redox (A16)  Dark Surface (S7)  Iron Manganese Masses (F12)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)   Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Depth (inches): NA emarks:  I is disturbed as a result of ~15" of fill.		Hydric Soil Present? Yes No •
e criterion for hydric soil is not met at t		
YDROLOGY etland Hydrology Indicators: imary Indicators (minimum of one is required	this point.	Secondary Indicators (minimum of two required)
e criterion for hydric soil is not met at t YDROLOGY etland Hydrology Indicators:	this point.	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)
PUROLOGY  Petland Hydrology Indicators:  Imary Indicators (minimum of one is required  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Petla Observations:  Inface Water Present?  Saturation Present?  Surface Water Present?  Surface Wa	d: check all that apply)  Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C1) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks)  Depth (inches): Depth (inches):	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)
POROLOGY  Petland Hydrology Indicators: Imary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)  Peld Observations: Inface Water Present? Ves Notaturation Present?	this point.  d: check all that apply)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)  True Aquatic Plants (B14)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres on Living Roots (C1)  Recent Iron Reduction in Tilled Soils (C6)  Thin Muck Surface (C7)  Gauge or Well Data (D9)  Other (Explain in Remarks)	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: IH 94 (N-S Freeway)		Cit	y/County:	Milwaukee C	ounty		Sampling Date:	04-Aug-14
Applicant/Owner: Wisconsin Departmen	t of Transportation			State:	WI	Sampling	Point:	SP-8
Investigator(s): Ron Londre, Geof Parish	١	S	Section, Tow	nship, Range:	s 19	5N	R 22E	
Landform (hillslope, terrace, etc.): Toes	lope			Local relief (c	oncave, convex,	none): cor	ncave	
Slope: 1.0% 0.6 • Lat.:			Long.:				Datum:	
Soil Map Unit Name: Ashkum silty cl	ay loam (AsA). All hydric		~-		WWI	classificatio	n: None	
Are climatic/hydrologic conditions on the		ar? Yes	• No O	(If no, ex	plain in Remarks.		TVOITE	
Are Vegetation . Soil		gnificantly dist	urbed?	Are "No	ormal Circumstand	es" present	yes	● No ○
Are Vegetation , Soil ,		iturally proble			ded, explain any a	·		
					. ,		ŕ	_
SUMMARY OF FINDINGS - A		ing samp	oling poli	nt locatio	ns, transect	s, impor	tant feature	es, etc.
Hydrophytic Vegetation Present?	Yes No O		Te th	e Sampled A	rea			
Hydric Soil Present?	Yes No O			in a Wetland		No O		
Wetland Hydrology Present?	Yes ⊙ No ○							
Area recently filled (permitted fill) All three parameters have been m  VEGETATION - Use scie	et at this point. Thus, this	s point is loc	Dominant	vetland.	new normal cir			
_Tree Stratum _(Plot size: _30' r	)	Absolute % Cover	Rel.Strat. Cover	Indicator Status				
1.		0	0.0%		<ul> <li>Number of Dor That are OBL,</li> </ul>			1 (A)
2.		0	0.0%		Total Number o	of Dominant		_
3			0.0%		Species Across		_	2 (B)
4 5.			0.0%		Doroont of do	minant Cr		
3		0	0.0%		Percent of do That Are OBL			50.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15	'r )		= Total Cov	ei	Prevalence In	dov works	hooti	
1.		0	0.0%			Cover of:		bv:
2.		0	0.0%		OBL species		) x 1 =	0
3.		0	0.0%		FACW speci	es 4	0 x 2 =	80
4.		0	0.0%		FAC species	1	0 x 3 =	30
5.			0.0%		FACU specie	_	0 x 4 =	240
Herb Stratum (Plot size: 5' r	)	0	= Total Cov	er	UPL species		) x 5 =	0
1. Lolium multiflorum		_60_	<b>4</b> 54.5%	FACU	Column Tota	als:11	0 (A)	350(B)
2. Phalaris arundinacea		30	27.3%	FACW	Prevalen	ce Index =	= B/A =	3.182
3. Barbarea vulgaris		10	9.1%	FAC	Hydrophytic V			_
4. Persicaria pensylvanica		10	9.1%	FACW		-	drophytic Vege	etation
5. 6.			0.0%		2 - Domin	-		
7.		0	0.0%		3 - Prevale	ence Index	c is ≤3.0 <sup>1</sup>	
8.		0	0.0%					rovide supporting
9.		0	0.0%				on a separate sl	•
10.		0	0.0%		✓ Problemat	tic Hydrop	hytic Vegetatio	n ¹ (Explain)
Mandy Vina Charter / District 201	· \	110	= Total Cov	er	1 Indicators	of hydric s	oil and wetland Irbed or problei	hydrology must
Woody Vine Stratum (Plot size: 30'	)				ne present, u	iness distu	n bea or problet	nauc.
1 2.		0 0	0.0%		Hydrophytic			
<u> </u>		0	= Total Cov	er	Vegetation Present?	Yes 🖲	No O	
			- TOTAL COV	CI	i icsenti		-	
Remarks: (Include photo numbers	here or on a separate sh	eet.)						
Vegetation is significantly disturbe		•	annual rve	beina recer	ntly planted			
Vegetation at a representative local	ation ~20' south of this p	oint: Herb s	tratum: Ph	alaris arundi	nacea (95%),			
reference vegetation and presence that under normal circumstances t						ion is met	at this point.	It is anticipated

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

D CP CI	Matrix			dox Featu			absence of indicators.)		
inches) Color (m		%	Color (moist)	%	Туре	Loc <sup>2</sup>	Texture		emarks
0-6 10YR	3/1	100				_	Silty Clay Loam	fill layer	
6-20 10YR	2/1	95	7.5YR 4/6	5	С	M	Peaty Muck	native soil	layer
20-24 10YR	4/2	90	7.5YR 4/6	10	C	M	Silt Loam		
20-24 101K	4/2		7.51K 4/0				- SIII LOGIII		
								_	
ype: C=Concentration, D=	- Denletion	RM-Reduc	ed Matrix CS-Cover	ed or Coate	ed Sand Gra	ins	Leocation: PL=Pore Lining	n M-Matriy	
vdric Soil Indicators:	Depiction,	, ravi racado	ed Matrix, 00 oover	- Ca 01 00at	ou ourid Gre				G-11- 3-
Histosol (A1)			Sandy Gleye	d Matrix (S4	1)		Indicators for Pro	olematic Hydric	Soils :
Histic Epipedon (A2)			Sandy Redox		• /		Coast Prairie Rec	` '	
Black Histic (A3)			Stripped Mat				☐ Dark Surface (S7	•	
] Hydrogen Sulfide (A4)			Loamy Muck	. ,	1)		Iron Manganese	Masses (F12)	
Stratified Layers (A5)			Loamy Gleye				Very Shallow Dar	k Surface (TF12)	
2 cm Muck (A10)			Depleted Ma		,		Other (Explain in	Remarks)	
Depleted Below Dark Su	•	1)	Redox Dark		)				
Thick Dark Surface (A12	2)		Depleted Dai				3 Indicators of hydro	anhytic vogotation	and
Sandy Muck Mineral (S1	1)		Redox Depre		,		mulcators or myun	ogy must be prese	
5 cm Mucky Peat or Pea	• •						unless disturb	ed or problematic	
strictive Layer (if obse	erved):								
Type: None							Under Call Boson and	· · ·	
Depth (inches): NA			<u></u>				Hydric Soil Present?	Yes 🖲	No O
emarks:									
I is disturbed as a resule criterion for hydric so			point						
e criterion for hydric sc			point.						
			point.						
Control of the contro	oil is still r	met at this					Cocondony ladi	cotors (minimum	of two required)
Coriterion for hydric so  CDROLOGY  Etland Hydrology Indic	oil is still r	met at this	heck all that apply)					cators (minimum o	of two required)
DROLOGY  Etland Hydrology Indice mary Indicators (minimum Surface Water (A1)	oil is still r	met at this	heck all that apply)		(B9)		✓ Surface So	il Cracks (B6)	of two required)
DROLOGY  Stland Hydrology Indice mary Indicators (minimum  Surface Water (A1)  High Water Table (A2)	oil is still r	met at this	heck all that apply)  Water-Stai	una (B13)	,		Surface So  Drainage P	il Cracks (B6) atterns (B10)	<u> </u>
TDROLOGY  Stland Hydrology Indice Mary Indicators (minimum  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	oil is still r	met at this	heck all that apply)  Water-Stai  Aquatic Far  True Aquat	una (B13) tic Plants (E	314)		Surface So Drainage P Dry Seasor	il Cracks (B6) atterns (B10) n Water Table (C2	<u> </u>
TDROLOGY  Stland Hydrology Indice Mary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	cators:	met at this	heck all that apply)  Water-Stai  Aquatic Fai  True Aquati  Hydrogen S	una (B13) tic Plants (E Sulfide Odo	314) r (C1)		Surface So  Drainage P  Dry Seasor  Crayfish Bu	il Cracks (B6) atterns (B10) n Water Table (C2 urrows (C8)	)
TDROLOGY  Itland Hydrology Indices  To a surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)	cators:	met at this	heck all that apply)  Water-Stai  Aquatic Fai  True Aquati  Hydrogen :  Oxidized R	una (B13) tic Plants (E Sulfide Odo hizospheres	314) r (C1) s on Living F	Roots (C3)	Surface So  Drainage P  Dry Seasor  Crayfish Bu  Saturation	il Cracks (B6) atterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial I	) magery (C9)
TDROLOGY  Itland Hydrology Indice Mary Indicators (minimum  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)	cators:	met at this	heck all that apply)  Water-Stail Aquatic Far True Aquat Hydrogen S Oxidized R	una (B13) tic Plants (E Sulfide Odo hizospheres of Reduced	814) r (C1) s on Living F Iron (C4)		Surface So  Drainage P  Dry Seasor  Crayfish Bu  Saturation  Stunted or	il Cracks (B6) atterns (B10) n Water Table (C2 urrows (C8) Visible on Aerial I Stressed Plants (I	) magery (C9)
TDROLOGY  Etland Hydrology Indice mary Indicators (minimum) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	cators:	met at this	heck all that apply)  Water-Stail Aquatic Far True Aquati Hydrogen S Oxidized R Presence co	una (B13) tic Plants (E Sulfide Odo hizospheres of Reduced n Reduction	814) r (C1) s on Living F Iron (C4) n in Tilled Sc		Surface So  Drainage P  Dry Seasor  Crayfish Bu  Saturation  Stunted or  Geomorph	il Cracks (B6) atterns (B10) n Water Table (C2 urrows (C8) Visible on Aerial I Stressed Plants (I c Position (D2)	) magery (C9)
**Procedure of the control of the co	cators: m of one is	met at this	heck all that apply)  Water-Stai  Aquatic Fai  True Aquati  Hydrogen S  Oxidized R  Presence of  Recent Iro	una (B13) tic Plants (E Sulfide Odo hizospheres of Reduced n Reduction Surface (C	s14) r (C1) s on Living F Iron (C4) n in Tilled Sc		Surface So  Drainage P  Dry Seasor  Crayfish Bu  Saturation  Stunted or  Geomorph	il Cracks (B6) atterns (B10) n Water Table (C2 urrows (C8) Visible on Aerial I Stressed Plants (I	) magery (C9)
Proposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Active Control of C	cators:  In of one is  erial Image	required; cl	heck all that apply)  Water-Stai  Aquatic Fai  True Aquati  Hydrogen !  Oxidized R  Presence of  Recent Iro  Thin Muck  Gauge or V	una (B13) tic Plants (E Sulfide Odo hizospheres of Reduced in Reduction Surface (C' Vell Data (E	r (C1) s on Living F Iron (C4) n in Tilled Sc 7)		Surface So  Drainage P  Dry Seasor  Crayfish Bu  Saturation  Stunted or  Geomorph	il Cracks (B6) atterns (B10) n Water Table (C2 urrows (C8) Visible on Aerial I Stressed Plants (I c Position (D2)	) magery (C9)
TDROLOGY  Stland Hydrology Indicemary Indicators (minimum) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	cators:  In of one is  erial Image	required; cl	heck all that apply)  Water-Stai  Aquatic Fai  True Aquati  Hydrogen !  Oxidized R  Presence of  Recent Iro  Thin Muck  Gauge or V	una (B13) tic Plants (E Sulfide Odo hizospheres of Reduced n Reduction Surface (C	r (C1) s on Living F Iron (C4) n in Tilled Sc 7)		Surface So  Drainage P  Dry Seasor  Crayfish Bu  Saturation  Stunted or  Geomorph	il Cracks (B6) atterns (B10) n Water Table (C2 urrows (C8) Visible on Aerial I Stressed Plants (I c Position (D2)	) magery (C9)
Procedure of the control of the cont	cators:  In of one is  erial Image	required; cl	heck all that apply)  Water-Stai  Aquatic Fai  True Aquati  Hydrogen !  Oxidized R  Presence of  Recent Iro  Thin Muck  Gauge or V	una (B13) tic Plants (E Sulfide Odo hizospheres of Reduced in Reduction Surface (C' Vell Data (E	r (C1) s on Living F Iron (C4) n in Tilled Sc 7)		Surface So  Drainage P  Dry Seasor  Crayfish Bu  Saturation  Stunted or  Geomorph	il Cracks (B6) atterns (B10) n Water Table (C2 urrows (C8) Visible on Aerial I Stressed Plants (I c Position (D2)	) magery (C9)
Particular of the control of the con	cators: m of one is erial Image	required; cl	heck all that apply)  Water-Stail Aquatic Fall True Aquatic Hydrogen to the control of the contr	una (B13) tic Plants (E Sulfide Odo hizospheres of Reduced n Reductior Surface (C Vell Data (E	r (C1) s on Living F Iron (C4) n in Tilled Sc 7)		Surface So  Drainage P  Dry Seasor  Crayfish Bu  Saturation  Stunted or  Geomorph	il Cracks (B6) atterns (B10) n Water Table (C2 urrows (C8) Visible on Aerial I Stressed Plants (I c Position (D2)	) magery (C9)
Petland Hydrology Indicemary Indicators (minimum)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Acceptable (A2)  Sparsely Vegetated Consected Observations:	cators: m of one is erial Image ncave Surfa	required; cl	heck all that apply)  Water-Stail Aquatic Fail True Aquati Hydrogen : Oxidized R Presence of Recent Iro Thin Muck Gauge or V Other (Exp	una (B13) tic Plants (E Sulfide Odo hizospheres of Reduced on Reduction Surface (C Vell Data (E Idain in Rem	r (C1) s on Living F Iron (C4) n in Tilled Sc 7)		Surface So  Drainage P  Dry Seasor  Crayfish Bu  Saturation  Stunted or  Geomorph	il Cracks (B6) atterns (B10) n Water Table (C2 urrows (C8) Visible on Aerial I Stressed Plants (I c Position (D2)	) magery (C9)
Procedure of the control of the cont	erial Imagencave Surfa	required; cl	heck all that apply)  Water-Stail Aquatic Fail True Aquati Hydrogen: Oxidized R Presence of Recent Iro Thin Muck Gauge or W Other (Exp	una (B13) tic Plants (E Sulfide Odo hizospheres of Reduced on Reduction Surface (C Vell Data (E Idain in Rem	r (C1) s on Living F Iron (C4) n in Tilled Sc 7)	pils (C6)	Surface So Drainage P Dry Seasor Crayfish Bu Saturation Stunted or Geomorph FAC-Neutra	il Cracks (B6) atterns (B10) n Water Table (C2 urrows (C8) Visible on Aerial I Stressed Plants (I ic Position (D2) al Test (D5)	magery (C9)
Procedure of the control of the cont	cators: m of one is erial Image ncave Surfa	required; cl	heck all that apply)  Water-Stail Aquatic Fail True Aquati Hydrogen: Oxidized R Presence of Recent Iro Thin Muck Gauge or W Other (Exp	una (B13) tic Plants (E Sulfide Odo hizospheres of Reduced on Reduction Surface (C' Vell Data (E lain in Rem	r (C1) s on Living F Iron (C4) n in Tilled Sc 7)	pils (C6)	Surface So  Drainage P  Dry Seasor  Crayfish Bu  Saturation  Stunted or  Geomorph	il Cracks (B6) atterns (B10) n Water Table (C2 urrows (C8) Visible on Aerial I Stressed Plants (I ic Position (D2) al Test (D5)	) magery (C9)
Procession for hydric solutions of the control of t	erial Image ncave Surfa  Yes  Yes  Yes	required; cl	heck all that apply)  Water-Stail Aquatic Fail True Aquati Hydrogen: Oxidized R Presence of Recent Iro Thin Muck Gauge or V Other (Exp	una (B13) tic Plants (E Sulfide Odo hizospheres of Reduced on Reduction Surface (C Vell Data (E Idain in Rem oches):	s14) r (C1) s on Living F Iron (C4) n in Tilled Sc 7) D9)	wet	Surface So Drainage P Dry Seasor Crayfish Bu Saturation Stunted or Geomorph FAC-Neutra	il Cracks (B6) atterns (B10) n Water Table (C2 urrows (C8) Visible on Aerial I Stressed Plants (I ic Position (D2) al Test (D5)	magery (C9)
Procession for hydric solutions and the control of	erial Image ncave Surfa  Yes  Yes  (stream of	required; cl	heck all that apply)  Water-Stail Aquatic Fail True Aquati Hydrogen to the control of the contro	una (B13) tic Plants (E Sulfide Odo hizospheres of Reduced on Reduction Surface (C Vell Data (E Idlain in Rem oches): oches): oches):	r (C1) r (C1) s on Living F Iron (C4) n in Tilled Sc 7) 299) arks)	wet	Surface So Drainage P Dry Seasor Crayfish Bu Saturation Stunted or Geomorph FAC-Neutra	il Cracks (B6) atterns (B10) n Water Table (C2 urrows (C8) Visible on Aerial I Stressed Plants (I ic Position (D2) al Test (D5)	magery (C9)
Processor of the proces	erial Image ncave Surfa  Yes  Yes  (stream of	required; cl	heck all that apply)  Water-Stail Aquatic Fail True Aquati Hydrogen to the control of the contro	una (B13) tic Plants (E Sulfide Odo hizospheres of Reduced on Reduction Surface (C Vell Data (E Idlain in Rem oches): oches): oches):	r (C1) r (C1) s on Living F Iron (C4) n in Tilled Sc 7) 299) arks)	wet	Surface So Drainage P Dry Seasor Crayfish Bu Saturation Stunted or Geomorph FAC-Neutra	il Cracks (B6) atterns (B10) n Water Table (C2 urrows (C8) Visible on Aerial I Stressed Plants (I ic Position (D2) al Test (D5)	magery (C9)

roject/Site: _IH 94 (N-S Freeway)	Cit	y/County:	Milwaukee C	County Sampling Date: 04-Aug-14
Applicant/Owner: Wisconsin Department of Transportation			State:	WI Sampling Point: SP-9
nvestigator(s): Ron Londre, Geof Parish		Section, Tow	nship, Range:	
andform (hillslope, terrace, etc.): Toeslope/ditch			Local relief (d	concave, convex, none): concave
Slope: 5.0% 2.9 • Lat.:		Long.:		Datum:
soil Map Unit Name: Blount silt Ioam (BIA), Not hydric				WWI classification: None
are climatic/hydrologic conditions on the site typical for this time of	<sub>vear?</sub> Yes (	● No ○	(If no, ex	xplain in Remarks.)
re Vegetation □ , Soil ✓ , or Hydrology □	significantly dis	turbed?	Are "No	ormal Circumstances" present? Yes  No  No
are Vegetation , Soil , or Hydrology	naturally proble			eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map sho				
	Julia Sam			his, transcets, important reatures, etc.
			e Sampled A	
		with	in a Wetland	d? Yes ○ No •
Wetland Hydrology Present? Yes V No   Remarks:				
This point is located in a roadside ditch.  None of the three parameters have been met at this point  VEGETATION - Use scientific names of plants		Dominant - Species? Rel.Strat.	:	Dominance Test worksheet:
Tree Stratum (Plot size: 30' r )	% Cover	Cover	Status	Number of Dominant Species
1. Fraxinus pennsylvanica		62.5%	FACW	That are OBL, FACW, or FAC:  1 (A)
2. Crataegus punctata		37.5%	UPL	Total Number of Dominant
3 4.		0.0%		Species Across All Strata: 4 (B)
5.	0 0	0.0%		Percent of dominant Species
	8	= Total Cov	er	That Are OBL, FACW, or FAC: 25.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15' r )				Prevalence Index worksheet:
1. Crataegus punctata	3	100.0%	UPL	Total % Cover of: Multiply by:
2.	0	0.0%		OBL species 0 x 1 = 0
3		0.0%		FACW species $33 \times 2 = 66$
4 5.	0	0.0%		FAC species $15 \times 3 = 45$
	3	0.0%		FACU species 83 x 4 = 332
Herb Stratum (Plot size: 5' r )		= Total Cov	er	UPL species 6 x 5 = 30
1. Festuca rubra		39.7%	FACU	Column Totals: (A) (B)
2. Solidago canadensis		23.8%	FACU	Prevalence Index = B/A = 3.453
3. Agrostis gigantea		15.9%	FACW	Hydrophytic Vegetation Indicators:
Poa pratensis     Euthamia graminifolia	15	11.9%	FACW FACW	1 - Rapid Test for Hydrophytic Vegetation
Parthenocissus quinquefolia	_ 5	2.4%	FACU	2 - Dominance Test is > 50%
7. Vitis riparia	3	2.4%	FACW	3 - Prevalence Index is ≤3.0 <sup>1</sup>
8.	0	0.0%		4 - Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet)
9.	0	0.0%		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
10.	0	0.0%		
Woody Vine Stratum (Plot size: 30' r )	126	= Total Cov	er	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	0	0.0%		
1.		0.0%		Hydrophytic
2.	0			
	0	= Total Cov	er	Vegetation Present? Yes ○ No ●

Depth	ription: (De	Scribe to t Matrix	ne aeptn n	eeded to c		tne indi dox Featu		ntirm the	absence of indicators.)	
(inches)	Color (		%	Color (r		%	Type	Loc2	Texture	Remarks
0-14	10YR	2/1	100						Silty Clay Loam	
14-24	10YR	5/4	70	10YR	5/8	10	С	М	Silty Clay Loam	
	10YR	2/1	10	10YR	5/1	10	D	М		
na: C-Cor	centration, D		PM-Peduc	od Matrix (		ad or Coat	ed Sand Gra	ine	Location: PL=Pore Lining. M	Matrix
	Indicators:	- Depletion	, KWI-Keduc	eu Matrix, (	55-C0VC16	su or coat	ea Sana Gre	1113.		
Histosol (				San	ıdy Gleyed	Matrix (S	4)		Indicators for Problem	•
	pedon (A2)				idy Redox		,		Coast Prairie Redox (	A16)
Black His	` '			Stri	pped Matr	ix (S6)			☐ Dark Surface (S7)	(F12)
	Sulfide (A4)			Loa	my Mucky	Mineral (F	<del>-</del> 1)		Iron Manganese Mass	
	Layers (A5)			Loa	my Gleyed	d Matrix (F	2)		☐ Very Shallow Dark Su	
2 cm Mud	Below Dark S	Surface (A1	1)	'	oleted Mati	` '			Other (Explain in Rem	narks)
	k Surface (A	,	1)	_	lox Dark S	,	,			
	uck Mineral (S	,			oleted Dark		. ,		<sup>3</sup> Indicators of hydrophy	
,	cky Peat or Pe	′		☐ Rec	lox Depres	ssions (F8)			wetland hydrology r unless disturbed o	
trictive L	ayer (if obs	erved):								
Type: N	one									
Depth (inc	thes): NA								Hydric Soil Present?	Yes No 💿
/DROL(	OGY drology Indi	icators:								
•	ators (minimu		required; c	heck all tha	t apply)				Secondary Indicator	rs (minimum of two required)
Surface V	Vater (A1)			W	/ater-Stain	ed Leaves	(B9)		Surface Soil Cra	acks (B6)
High Wat	er Table (A2)	)		□ A	quatic Fau	na (B13)			☐ Drainage Patter	rns (B10)
Saturatio	n (A3)			T	rue Aquati	c Plants (E	314)		☐ Dry Season Wa	ter Table (C2)
Water Ma	arks (B1)			Пн	ydrogen S	ulfide Odo	r (C1)		Crayfish Burrow	vs (C8)
	Deposits (B2	2)					s on Living F	Roots (C3)		ole on Aerial Imagery (C9)
Drift Dep					resence of					ssed Plants (D1)
	or Crust (B4)	)					n in Tilled So	ils (C6)	✓ Geomorphic Po	
	osits (B5)	A	(DZ)		hin Muck S				FAC-Neutral Te	st (D5)
	on Visible on A Vegetated Co				auge or W					
spaisely	vegetateu CC	nicave suri	dce (Do)		ther (Expl	ain in Rem	iarks)			
d Observ	ations:									
ace Water	Present?	Yes (	O No @		Depth (inc	ches):		_		
ter Table F	resent?	Yes (	O No		Depth (inc	ches):				
uration Pre	esent?	Yes (			Depth (inc	_		Wet	and Hydrology Present?	Yes O No 💿
	llary fringe)								- \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
				_					s), if available:	
	ineation, DN	NK AAAAI U	iap, NRCS	Soiis map	, ropogra	apnic ma	p, aerial p	1010S		
narks:	A/ETC and	olo cata-	odopt =====	initation :			l ropes			
	WETS analy		edent prec met at this		as Witnir	i a norma	ai range.			
e criterion										

Project/Site: IH 94 (N-S Freeway)		Cit	y/County:	Milwaukee Co	ounty	Sampling Date:	04-Aug-14
Applicant/Owner: Wisconsin Department of	f Transportation			State:	_WIS	ampling Point:	SP-10
Investigator(s): Ron Londre, Geof Parish		9	Section, Town	nship, Range:	s 30 T 5	N R 22E	_
Landform (hillslope, terrace, etc.): Toeslop	pe/ditch			Local relief (c	oncave, convex, none	e): concave	_
Slope: 2.0% 1.1 • Lat.:			Long.:			- Datum:	
Soil Map Unit Name: Blount silt loam (	PIA Moiss Apris Enjage	ialf)			\/\/\/\ clas:	sification: None	
Are climatic/hydrologic conditions on the sit		(	● No ○	(If no ex	plain in Remarks.)	Mone	
, , ,		gnificantly dis		•	rmal Circumstances"	nresent? Yes (	● No ○
		aturally proble				present.	
	•			`	ded, explain any answ	,	
SUMMARY OF FINDINGS - Att		ving sam	pling poli	nt location	ns, transects, i	mportant reature	s, etc.
, , ,	Yes • No O		Ts th	e Sampled A	rea		
	Yes No O			in a Wetland		$\circ$	
	Yes ● No ○						
Remarks:	t-l- All tlans a resum at a			to a state The	Alete estea te te e	at a d tar a constitue of	
This point is located in a roadside di Wetland ID: W-2	tcn. All three paramete	rs nave bee	n met at tn	is point. Thu	is, this point is loca	ated in a wetland.	
<b>VEGETATION -</b> Use scien	tific names of plan	ts.	Dominant Species?				
Tree Stratum (Plot size: 25' x 115'	)	Absolute % Cover	Rel.Strat. Cover	Indicator Status	Dominance Test	worksheet:	
1.	<b>—</b> ′	0	0.0%	Status	<ul> <li>Number of Domina</li> <li>That are OBL, FACN</li> </ul>		1 (A)
2.		0	0.0%		That are OBE, TACK	W, OF TAC.	
3.		0	0.0%		Total Number of Do Species Across All S		1 (B)
4.		0	0.0%		·	_	
5			0.0%		Percent of doming That Are OBL, FA		00.0% (A/B)
Conline/Chruh Ctratum / Diet size. 25' v	20' \		= Total Cov	er			
Sapling/Shrub Stratum (Plot size: 25' x	)	0	0.00/		Prevalence Index		
1. 2.		0 0	0.0%		Total % Co OBL species	ver of: Multiply to 20 x 1 =	<u>20</u>
3.		0	0.0%		FACW species	92 x 2 =	184
4.		0	0.0%		FAC species	0 x 3 =	0
5.		0	0.0%		FACU species	3 x 4 =	12
Herb Stratum (Plot size: 5'r	)	0	= Total Cov	er	UPL species	16 x 5 =	80
1. Phalaris arundinacea	_	90	<b>✓</b> 68.7%	FACW	Column Totals:	131 (A)	296 (B)
2. Typha angustifolia		20	15.3%	OBL	Prevalence I	${\text{ndex} = B/A} = 2$	2.260
3. Ribes missouriense		8	6.1%	UPL		etation Indicators:	
4. Dipsacus laciniatus		8	6.1%	UPL		: for Hydrophytic Vege	tation
5. Solidago canadensis		3	2.3%	FACU	_	e Test is > 50%	
6. Euthamia graminifolia 7.		2	1.5%	FACW	<b>✓</b> 3 - Prevalence	Index is $\leq$ 3.0 <sup>1</sup>	
8.		0	0.0%			ical Adaptations 1 (Pr	
9.		0	0.0%			ks or on a separate sh	•
10.		0	0.0%			lydrophytic Vegetation	1 (Explain)
Woody Vino Ctratum (Diet size, 251 v.1	15' \	131	= Total Cov	er		ydric soil and wetland s disturbed or problen	
Woody Vine Stratum (Plot size: 25' x 1	)		0.0%		be present, unles	s alstarbed of problem	iuuci
1 2.		0 0	0.0%		Hydrophytic		
		0	= Total Cov	er	Vegetation Present?	Yes • No O	
			. 3.41 000	<del></del> :			
Remarks: (Include photo numbers h	ere or on a separate sh	neet.)					
Vegetation at this point is representa	ative of a wet meadow	/ shallow m	arsh plant (	community.			
The criterion for hydrophytic vegetal	tion is met at this point			-			

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

		ribe to t latrix	he depth ne		ent the indi Redox Feat		nfirm the	absence of indicators.)	
Depth (inches)	Color (m		%	Color (moist)	%	Type	Loc <sup>2</sup>	Texture	Remarks
0-15	10YR	2/1	100					Silty Clay Loam	
15-24	10YR	5/1	85	10YR 5/6	15	С	М	Silty Clay	
		Depletion	, RM=Reduce	d Matrix, CS=Co\	vered or Coat	ed Sand Gra	ins.	Eocation: PL=Pore Lining. M=	
Hydric Soil I  Histosol (A				Sandy Clay	ed Matrix (S	4)		Indicators for Problem	atic Hydric Soils <sup>3</sup> :
Black Histi Hydrogen Stratified I 2 cm Mucl Depleted I Thick Dark	Sulfide (A4) Layers (A5)	)	1)	Sandy Red Stripped M Loamy Mu Loamy Gle Depleted N Redox Dar	ox (S5) atrix (S6) cky Mineral ( yed Matrix (F	F1) 		Coast Prairie Redox (# Dark Surface (\$7) Iron Manganese Mass Very Shallow Dark Sur Other (Explain in Rem  3 Indicators of hydrophyt wetland hydrology n	es (F12)  face (TF12)  arks)  ic vegetation and hust be present,
5 cm Mucl	ky Peat or Pea	t (S3)			(, ,	,		unless disturbed or	problematic.
Remarks: Soil appears t The criterion t	for hydric so								
Wetland Hyd		torci							
•	٠.		required; che	eck all that apply)				Secondary Indicator	s (minimum of two required)
Saturation Water Mar Sediment Drift Depo Algal Mat Iron Depo Inundation	er Table (A2) (A3) rks (B1) Deposits (B2) osits (B3) or Crust (B4)			Aquatic I True Aqu Hydroge Oxidized Presence Recent I Thin Muc	ained Leaves Fauna (B13) uatic Plants (i n Sulfide Odo Rhizosphere e of Reduced ron Reductio ck Surface (C r Well Data ( xplain in Ren	314) or (C1) s on Living F Iron (C4) n in Tilled Sc 7)	` ′	Surface Soil Cra Drainage Patter Dry Season Wat Crayfish Burrow Saturation Visib Stunted or Stres Geomorphic Pos	ns (B10) for Table (C2) s (C8) le on Aerial Imagery (C9) ssed Plants (D1) sition (D2)
Field Observa	ations:								
Surface Water		Yes (		•	(inches):		-		
Water Table Pr Saturation Pres				•	(inches):		Wet	land Hydrology Present?	Yes   No
(includes capill	ary fringe)	Yes (		· · · · · · · · · · · · · · · · · · ·	(inches):	nrevious ir		s), if available:	
			-	oils map, Topo				o,, ii avaliabio.	
Remarks:				<u>-</u>	J =F.110 1110	- / · · · · · · · · · · · · · · · ·			
	VETS analysi for hydrolog			itation was a v t.	vithin a nor	mal range.			

Project/Site: H 94 (N-S Freeway)	City/0	County:	Milwaukee C	county Sampling Date: 04-Aug-14
Applicant/Owner: Wisconsin Department of Transportation			State:	WI Sampling Point: SP-11
nvestigator(s): Ron Londre, Geof Parish	Sec	ction, Towr	nship, Range:	S 30 T 5N R 22E
andform (hillslope, terrace, etc.): Backslope			Local relief (c	concave, convex, none): convex
Slope: 10.0% 5.7 • Lat.:		Long.:		- Datum:
Soil Map Unit Name: Matherton silt loam (MmA), not hydric	,	_		
Are climatic/hydrologic conditions on the site typical for this time of		No O	(If no, ex	kplain in Remarks.)
Are Vegetation . , Soil . , or Hydrology	significantly distur	bed?	Are "No	ormal Circumstances" present? Yes  No O
Are Vegetation , Soil , or Hydrology	naturally problema			ded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map sho				
Hydrophytic Vegetation Present? Yes No •	- Julia	<b>.</b>		ins, transcess, important reatures, etc.
Hydric Soil Present?  Yes No  No			e Sampled A	
		withi	n a Wetland	d? Yes ○ No •
Wetland Hydrology Present? Yes ○ No ●  Remarks:				
This point is located on the backslope of a roadside swall None of the parameters have been met at this point. The <b>VEGETATION -</b> Use scientific names of plants of the parameters have been met at this point.	ants.	Dominant Species?	•	Dominance Test worksheet:
Tree Stratum (Plot size: 30' r	% Cover	Cover	Status	Number of Dominant Species
1	0	0.0%		That are OBL, FACW, or FAC:  0 (A)
2		0.0%		Total Number of Dominant
3 4.		0.0%		Species Across All Strata: 1 (B)
5.	0	0.0%		Percent of dominant Species
·		Total Cov	er	That Are OBL, FACW, or FAC: 0.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15' r )				Prevalence Index worksheet:
1.	0	0.0%		Total % Cover of: Multiply by:
2.	0	0.0%		OBL species 0 x 1 = 0
3		0.0%		FACW species $13 \times 2 = 26$
4		0.0%		FAC species $0 \times 3 = 0$
5		0.0%		FACU species 95 x 4 = 380
Herb Stratum (Plot size: 5' r )	0 =	Total Cov	er	UPL species $0 \times 5 = 0$
1. Bromus inermis	80	74.1%	FACU	Column Totals: 108 (A) 406 (B)
2. Phalaris arundinacea	10	9.3%	FACW	Prevalence Index = B/A = 3.759
3. Cirsium arvense	5	4.6%	FACU	Hydrophytic Vegetation Indicators:
4. Melilotus alba 5. Sonchus arvensis	_ 5 _	4.6%	FACU	1 - Rapid Test for Hydrophytic Vegetation
6. Agrostis gigantea	_ 5 _	4.6% 2.8%	FACU FACW	2 - Dominance Test is > 50%
7.		0.0%	171044	$\Box$ 3 - Prevalence Index is ≤3.0 $^1$
8.		0.0%		4 - Morphological Adaptations 1 (Provide supporting
0	0 [	0.0%		data in Remarks or on a separate sheet)
9.		0.0%		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
10.				
10.		Total Cov	er	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
10	108 =	Total Cov	er	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
10.			er 	be present, unless disturbed or problematic.  Hydrophytic
Woody Vine Stratum (Plot size: 30' r )  1.	0 0	Total Cov		be present, unless disturbed or problematic.

rofile Description: (Describe to th	е аертп пее		tne indication for the state of		firm the	absence of indicators.)	
Depth Matrix (inches) Color (moist)	%	Color (moist)		s Type <sup>†</sup>	Loc <sup>2</sup>	Texture	Remarks
0-10 10YR 3/1	100					Silty Clay Loam	
10-20 10YR 5/3	50	10YR 5/2	40	D	М	Sandy Clay Loam	
10YR 5/4	10						
		<del></del>					
pe: C=Concentration, D=Depletion,	DM Poducod	Matrix CS Covere	od or Coated 9	Sand Crain		Eocation: PL=Pore Lining. M=	Matrix
rdric Soil Indicators:	RIVI=REGUCEG	Matrix, C3=Covere	ed or coated .	Saliu Glali	15.		
Histosol (A1)		☐ Sandy Gleyed	Matrix (S4)			Indicators for Problem	•
Histic Epipedon (A2)		Sandy Redox				Coast Prairie Redox (A	116)
Black Histic (A3)		Stripped Matri	ix (S6)			☐ Dark Surface (S7)	(510)
Hydrogen Sulfide (A4)		Loamy Mucky	Mineral (F1)			☐ Iron Manganese Mass	
Stratified Layers (A5)		Loamy Gleyed	Matrix (F2)			☐ Very Shallow Dark Sur	
2 cm Muck (A10)  Depleted Below Dark Surface (A11)	<b>\</b>	Depleted Matr	` '			Other (Explain in Rem	arks)
Thick Dark Surface (A11)	)	Redox Dark Su	` '				
Sandy Muck Mineral (S1)		Depleted Dark	, ,	)		<sup>3</sup> Indicators of hydrophyt	
5 cm Mucky Peat or Peat (S3)		Redox Depres	ssions (F8)			wetland hydrology n unless disturbed or	
strictive Layer (if observed):							
Type: None							
Depth (inches): NA						Hydric Soil Present?	Yes O No 💿
il appears to be a roadside fill soi e criterion for hydric soil is not m							
e criterion for hydric soil is not m							
e criterion for hydric soil is not m	et at this po	oint.				Secondary Indicator	s (minimum of two required)
'DROLOGY etland Hydrology Indicators:	et at this po	ck all that apply)	ed Leaves (B	9)		Secondary Indicator  Surface Soil Cra	
TDROLOGY  Petland Hydrology Indicators: mary Indicators (minimum of one is in the content of the	et at this po	ck all that apply)	•	9)			cks (B6)
TDROLOGY etland Hydrology Indicators: mary Indicators (minimum of one is a Surface Water (A1)	et at this po	ck all that apply)  Water-Staine Aquatic Fau	•	,		Surface Soil Cra	cks (B6) ns (B10)
**DROLOGY**  etland Hydrology Indicators: mary Indicators (minimum of one is in a surface Water (A1)  High Water Table (A2)	et at this po	ck all that apply)  Water-Stain Aquatic Faul True Aquatic	na (B13)	)		Surface Soil Cra	cks (B6) ns (B10) er Table (C2)
TDROLOGY  etland Hydrology Indicators: mary Indicators (minimum of one is recommended)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)	et at this po	ck all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen Staine Oxidized Rh	na (B13) c Plants (B14) ulfide Odor (C izospheres or	) C1) n Living Ro	oots (C3)	Surface Soil Cra Drainage Patter Dry Season Wat Crayfish Burrow Saturation Visib	cks (B6) ns (B10) er Table (C2) s (C8) e on Aerial Imagery (C9)
TDROLOGY  etland Hydrology Indicators: mary Indicators (minimum of one is r  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)	et at this po	ck all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen Staine Oxidized Rh Presence of	na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iron	) C1) n Living Ro n (C4)		Surface Soil Cra Drainage Patter Dry Season Wat Crayfish Burrow Saturation Visib Stunted or Stres	cks (B6) ns (B10) er Table (C2) s (C8) e on Aerial Imagery (C9) ssed Plants (D1)
**TOROLOGY**  Petland Hydrology Indicators: mary Indicators (minimum of one is reflected by the state of the	et at this po	ck all that apply)  Water-Staine Aquatic Faue True Aquatic Hydrogen Staine Oxidized Rh Presence of Recent Iron	na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iron Reduction in	) C1) n Living Ro n (C4)		Surface Soil Cra Drainage Patter Dry Season Wat Crayfish Burrow Saturation Visib Stunted or Stres	cks (B6) ns (B10) er Table (C2) s (C8) e on Aerial Imagery (C9) ssed Plants (D1) sition (D2)
CDROLOGY  Stland Hydrology Indicators: mary Indicators (minimum of one is recomply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	required; chec	ck all that apply)  Water-Staine Aquatic Faue True Aquatic Hydrogen Staine Oxidized Rh Presence of Recent Iron Thin Muck S	na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iron Reduction in Surface (C7)	) C1) n Living Ro n (C4) ı Tilled Soi		Surface Soil Cra Drainage Patter Dry Season Wat Crayfish Burrow Saturation Visib Stunted or Stres	cks (B6) ns (B10) er Table (C2) s (C8) e on Aerial Imagery (C9) ssed Plants (D1) sition (D2)
DROLOGY  tland Hydrology Indicators: mary Indicators (minimum of one is researched) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imager	required; chec	ck all that apply)  Water-Stain Aquatic Faul True Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W	na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iron Reduction in Surface (C7) (ell Data (D9)	) C1) n Living Ro n (C4) ı Tilled Soi		Surface Soil Cra Drainage Patter Dry Season Wat Crayfish Burrow Saturation Visib Stunted or Stres	cks (B6) ns (B10) er Table (C2) s (C8) e on Aerial Imagery (C9) ssed Plants (D1) sition (D2)
DROLOGY  tland Hydrology Indicators: mary Indicators (minimum of one is researched)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)	required; chec	ck all that apply)  Water-Stain Aquatic Faul True Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W	na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iron Reduction in Surface (C7)	) C1) n Living Ro n (C4) ı Tilled Soi		Surface Soil Cra Drainage Patter Dry Season Wat Crayfish Burrow Saturation Visib Stunted or Stres	cks (B6) ns (B10) er Table (C2) s (C8) e on Aerial Imagery (C9) ssed Plants (D1) sition (D2)
Criterion for hydric soil is not medical criterion for hydric soil is not medi	required; chec	ck all that apply)  Water-Stain Aquatic Faul True Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W	na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iron Reduction in Surface (C7) (ell Data (D9)	) C1) n Living Ro n (C4) ı Tilled Soi		Surface Soil Cra Drainage Patter Dry Season Wat Crayfish Burrow Saturation Visib Stunted or Stres	cks (B6) ns (B10) er Table (C2) s (C8) e on Aerial Imagery (C9) ssed Plants (D1) sition (D2)
Proposition (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imager Sparsely Vegetated Concave Surface	required; chec	ck all that apply)  Water-Stain Aquatic Faul True Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W	na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iron Reduction in Surface (C7) (ell Data (D9) ain in Remark	) C1) n Living Ro n (C4) ı Tilled Soi		Surface Soil Cra Drainage Patter Dry Season Wat Crayfish Burrow Saturation Visib Stunted or Stres	cks (B6) ns (B10) er Table (C2) s (C8) e on Aerial Imagery (C9) ssed Plants (D1) sition (D2)
Procedure criterion for hydric soil is not many indicators:    Surface Water (A1)	required; chec	ck all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iron Reduction in Surface (C7) (ell Data (D9) ain in Remark	) C1) n Living Ro n (C4) ı Tilled Soi		Surface Soil Cra Drainage Patter Dry Season Wat Crayfish Burrow Saturation Visib Stunted or Stres	cks (B6) ns (B10) er Table (C2) s (C8) e on Aerial Imagery (C9) ssed Plants (D1) sition (D2) st (D5)
Particular of the present?  Proposition of the present of the present?  Proposition of the present of th	required; chec	ck all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in Surface (C7) fell Data (D9) ain in Remark	) C1) n Living Ro n (C4) ı Tilled Soi	s (C6)	Surface Soil Cra Drainage Patter Dry Season Wat Crayfish Burrow Saturation Visib Stunted or Stres	cks (B6) ns (B10) er Table (C2) s (C8) e on Aerial Imagery (C9) ssed Plants (D1) sition (D2)
Procedure criterion for hydric soil is not many indicators:  The surface water (A1)  High water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imager  Sparsely Vegetated Concave Surface  Tace water Present?  Ster Table Present?	required; check  Ty (B7)  The (B8)  No   No   No   No   No   No   No   No	ck all that apply)  Water-Staine Aquatic Faun True Aquatic Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Explain	na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iron Reduction in Surface (C7) (ell Data (D9) ain in Remark ches):	) C1) n Living Re n (C4) i Tilled Soi	s (C6)	Surface Soil Cra Drainage Patter Dry Season Wat Crayfish Burrow Saturation Visib Stunted or Stres Geomorphic Pos FAC-Neutral Tes	cks (B6) ns (B10) er Table (C2) s (C8) e on Aerial Imagery (C9) ssed Plants (D1) sition (D2) st (D5)
Criterion for hydric soil is not medical criterion for hydric soil is not medi	required; check  required; check  required; check  No  No  No  auge, monitor	ck all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen Staine Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Explain	na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in Surface (C7) fell Data (D9) ain in Remark ches): ches):	) C1) n Living Ro n (C4) n Tilled Soi	wetla	Surface Soil Cra Drainage Patter Dry Season Wat Crayfish Burrow Saturation Visib Stunted or Stres Geomorphic Pos FAC-Neutral Tes	cks (B6) ns (B10) er Table (C2) s (C8) e on Aerial Imagery (C9) ssed Plants (D1) sition (D2) st (D5)
DROLOGY  tland Hydrology Indicators: mary Indicators (minimum of one is recovered by the content of the content	required; check  required; check  required; check  No  No  No  auge, monitor	ck all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen Staine Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Explain	na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in Surface (C7) fell Data (D9) ain in Remark ches): ches):	) C1) n Living Ro n (C4) n Tilled Soi	wetla	Surface Soil Cra Drainage Patter Dry Season Wat Crayfish Burrow Saturation Visib Stunted or Stres Geomorphic Pos FAC-Neutral Tes	cks (B6) ns (B10) er Table (C2) s (C8) e on Aerial Imagery (C9) ssed Plants (D1) sition (D2) st (D5)
Criterion for hydric soil is not me criterion for hydric soil is n	required; check check check check; check check check check; check che	bint.  ck all that apply)  Water-Staine Aquatic Faue True Aquatic Hydrogen Staine Presence of Recent Iron Thin Muck S Gauge or W Other (Explaine)  Depth (incepto Depth (in	na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iron Reduction in Surface (C7) (ell Data (D9) ain in Remark ches): ches): photos, pre aphic map, A	) C1) n Living Re n (C4) Tilled Soi (s)	wetla	Surface Soil Cra Drainage Patter Dry Season Wat Crayfish Burrow Saturation Visib Stunted or Stres Geomorphic Pos FAC-Neutral Tes	cks (B6) ns (B10) er Table (C2) s (C8) e on Aerial Imagery (C9) ssed Plants (D1) sition (D2) st (D5)

roject/Site:IH 94 (N-S Freeway)	City/	County:	Milwaukee C	County Sampling Date: 04-Aug-14
pplicant/Owner: Wisconsin Department of Transportation			State:	WI Sampling Point: SP-12
nvestigator(s): Ron Londre, Geof Parish	Se	ction, Town	ship, Range:	S 30 T 5N R 22E
andform (hillslope, terrace, etc.): Footslope/swale		L	ocal relief (c	concave, convex, none): concave
lope: 0.0% 0.0 • Lat.:		Long.:		- Datum:
oil Map Unit Name: Matherton silt loam (MmA), not hydr	ic			WWI classification: None
re climatic/hydrologic conditions on the site typical for this time		No O	(If no e)	xplain in Remarks.)
re Vegetation	significantly distu		•	ormal Circumstances" present?  Yes  No  No
	3			ormal ellounistations procedur.
re Vegetation	naturally problem	natic'?	(If nee	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map sh	nowing sampl	ling poin	t locatio	ns, transects, important features, etc.
Hydrophytic Vegetation Present? Yes   No				
Hydric Soil Present? Yes  No O			Sampled A	
Wetland Hydrology Present? Yes   No		- Vicini	ra wedan	res © NO C
Remarks:		<u> </u>		
This point is located in a roadside swale.				
All three parameters have been met at this point. Thus,	this point is loca	ted in a we	etland.	
<b>VEGETATION -</b> Use scientific names of p	lants	Dominant		
ose scientific fiames of p		Species?	Indicate	Dominance Test worksheet:
Tree Stratum (Plot size: 40' x 70' )	% Cover	Rel.Strat. Cover	Indicator Status	
1	0	0.0%		Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)
2.	0	0.0%		T I I I I I I I I I I I I I I I I I I I
3		0.0%		Total Number of Dominant Species Across All Strata: 1 (B)
4		0.0%		
5		0.0%		Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15' r )	0 =	= Total Cove	Г	
1	0 [	0.0%		Prevalence Index worksheet:  Total % Cover of: Multiply by:
2.		0.0%		Total % Cover of: Multiply by:  OBL species 0 x 1 = 0
3.		0.0%		FACW species $95 \times 2 = 190$
4.	0	0.0%		FAC species $0 \times 3 = 0$
5.	0	0.0%		FACU species $3 \times 4 = 12$
Herb Stratum (Plot size: 5' r )	0 =	Total Cove	г	UPL species 0 x 5 = 0
1. Phalaris arundinacea	95	96.9%	FACW	Column Totals: 98 (A) 202 (B)
Cirsium arvense		3.1%	FACU	Prevalence Index = $B/A = 2.061$
3.		0.0%		
4.	0	0.0%		Hydrophytic Vegetation Indicators:
5.	0	0.0%		1 - Rapid Test for Hydrophytic Vegetation
6.	0 [	0.0%		2 - Dominance Test is > 50%
7.	0	0.0%		3 - Prevalence Index is ≤3.0 ¹
8.		0.0%		<ul> <li>4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)</li> </ul>
9. 10.		0.0%		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
10.		0.0%		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 40' x 70'	98 =	= Total Cove	Г	be present, unless disturbed or problematic.
1.		0.0%		
	0	0.0%		Hydrophytic Vegetation
2.				
2	0 =	Total Cove	Γ	Present? Yes   No

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

ofile Description: (D Depth	Pescribe to 1  Matrix	tne depth n	leeded to d		ox Featu		nfirm the	absence of indicators.)	
	(moist)	%	Color (ı		%	Туре	Loc2	Texture	Remarks
0-15 10YR	3/1	92	10YR	5/2	3	D	М	Silty Clay Loam	
10YR	5/4	3	7.5YR	5/6	3	С	М		
15-24 10YR	4/2	90	7.5YR	5/6	5	С	M	Silty Clay Loam	
10YR	2/1	5							
= $=$									
		_				_			
pe: C=Concentration,	D=Depletion	n, RM=Reduc	ced Matrix, (	CS=Covere	d or Coate	ed Sand Gra	ins.	Location: PL=Pore Lining. N	1=Matrix.
dric Soil Indicators	s:							Indicators for Proble	matic Hydric Soils <sup>3</sup> :
Histosol (A1)			_	ndy Gleyed	•	4)		Coast Prairie Redox	(A16)
Histic Epipedon (A2)	)			ndy Redox (				Dark Surface (S7)	(1110)
Black Histic (A3) Hydrogen Sulfide (A	4)		_	ipped Matri	. ,			☐ Iron Manganese Mas	sses (F12)
Stratified Layers (A5			_	amy Mucky	•	,		Very Shallow Dark S	
2 cm Muck (A10)	')			my Gleyed	,	2)		Other (Explain in Re	, ,
Depleted Below Dark	k Surface (A1	11)		oleted Matr	. ,			☐ Other (Explain in Re	narks)
Thick Dark Surface (	•	,		dox Dark Su	,	•			
Sandy Muck Mineral	. ,			oleted Dark				3 Indicators of hydroph	ytic vegetation and
5 cm Mucky Peat or	` '		☐ Rec	dox Depres	sions (F8)			wetland hydrology unless disturbed of	
strictive Layer (if ol	bserved):								
Type: None									
Depth (inches): NA									
emarks: il appears to be a ro e criterion for hydric				d.				Hydric Soil Present?	Yes  No
emarks: il appears to be a ro e criterion for hydric	c soil is met			d.				Hydric Soil Present?	Yes ♥ No ∪
emarks:  il appears to be a ro e criterion for hydric  fDROLOGY  etland Hydrology In	c soil is met	t at this poi	nt.						ors (minimum of two required)
emarks:  il appears to be a ro e criterion for hydric  fDROLOGY  etland Hydrology In	c soil is met	t at this poi	nt.		ed Leaves	(B9)			ors (minimum of two required)
emarks: I appears to be a role criterion for hydric  CDROLOGY  etland Hydrology In imary Indicators (mining)	c soil is met	t at this poi	nt.	t apply)		(B9)		Secondary Indicato	ors (minimum of two required) racks (B6)
Permarks:  I appears to be a role criterion for hydric  I appears to be a role criterion for hydric  I DROLOGY  Petland Hydrology In imary Indicators (mining appears)  Surface Water (A1)	c soil is met	t at this poi	nt.	t apply) Vater-Staine	na (B13)	,		Secondary Indicate Surface Soil Cr	ors (minimum of two required) racks (B6)
TOROLOGY  etland Hydrology In mary Indicators (minir Surface Water (A1) High Water Table (A	c soil is met	t at this poi	nt.  check all tha	t apply) Vater-Staine quatic Faur	na (B13) : Plants (E	314)		Secondary Indicate Surface Soil Cr	ors (minimum of two required) racks (B6) erns (B10) ater Table (C2)
Permarks: I appears to be a role criterion for hydric  POROLOGY  Petland Hydrology In mary Indicators (mining Surface Water (A1) I High Water Table (A) Saturation (A3)	dicators: num of one is	t at this poi	theck all tha	t apply) Vater-Staind quatic Faur True Aquatic lydrogen Su	na (B13) : Plants (E ulfide Odo	314)	Roots (C3)	Secondary Indicato Surface Soil Cr Drainage Patte Dry Season W Crayfish Burro	ors (minimum of two required) racks (B6) erns (B10) ater Table (C2)
Permarks: I appears to be a role criterion for hydric POROLOGY  Petland Hydrology In mary Indicators (minin I Surface Water (A1) I High Water Table (A I Saturation (A3) Water Marks (B1) Sediment Deposits (I) I Drift Deposits (II)	dicators: mum of one is	t at this poi	theck all tha	t apply) Vater-Staind quatic Faur True Aquatic lydrogen Su	na (B13) : Plants (E ulfide Odo zospheres	314) r (C1) s on Living F	Roots (C3)	Secondary Indicate Surface Soil Cr Drainage Patte Dry Season W Crayfish Burro Saturation Visi Stunted or Str	ors (minimum of two required) eacks (B6) erns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1)
Property of the control of the contr	dicators: mum of one is	t at this poi	check all tha	t apply) Vater-Staine quatic Faur True Aquatic lydrogen Su Dixidized Rhi Tresence of	na (B13) : Plants (E ulfide Odo zospheres Reduced Reductior	814) r (C1) s on Living F Iron (C4) n in Tilled Sc		Secondary Indicate Surface Soil Cr Drainage Patte Dry Season W Crayfish Burro Saturation Visi Stunted or Str. Geomorphic Pattern	ors (minimum of two required) racks (B6) erns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) position (D2)
Pemarks: I appears to be a role criterion for hydric process.  PROLOGY  Petland Hydrology In imary Indicators (mining process.) Surface Water (A1) High Water Table (A) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B) I ron Deposits (B5)	dicators: mum of one is  (2)  (34)	t at this poi	check all tha	t apply) Vater-Staind Quatic Faur True Aquatic lydrogen Su Oxidized Rhi Tresence of Pecent Iron Thin Muck S	na (B13)  Plants (E  Plants (E  Reduced  Reduction  Reface (C	s14) r (C1) s on Living F Iron (C4) n in Tilled Sc		Secondary Indicate Surface Soil Cr Drainage Patte Dry Season W Crayfish Burro Saturation Visi Stunted or Str	ors (minimum of two required) racks (B6) erns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) position (D2)
TOROLOGY  Petland Hydrology In mary Indicators (Minimary Indicators (Min	dicators: mum of one is  B2)  B4)	s required; o	check all tha	t apply) Vater-Staine quatic Faur True Aquatic lydrogen So exidized Rhi resence of elecent Iron chin Muck S Gauge or We	na (B13) E Plants (E ulfide Odo zospheres Reduced Reductior urface (C ell Data (E	r (C1) s on Living F Iron (C4) n in Tilled Sc 7)		Secondary Indicate Surface Soil Cr Drainage Patte Dry Season W Crayfish Burro Saturation Visi Stunted or Str. Geomorphic Pattern	ors (minimum of two required) racks (B6) erns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) position (D2)
Permarks: I appears to be a role criterion for hydric process of the criterion for hydric process.  POROLOGY  Petland Hydrology In the mary Indicators (mining process) Surface Water (A1) High Water Table (A1) Saturation (A3) Water Marks (B1) Sediment Deposits (B1) Sediment Deposits (B3) Algal Mat or Crust (B1) Iron Deposits (B5)	dicators: mum of one is  B2)  B4)	s required; o	check all tha	t apply) Vater-Staind Quatic Faur True Aquatic lydrogen Su Oxidized Rhi Tresence of Pecent Iron Thin Muck S	na (B13) E Plants (E ulfide Odo zospheres Reduced Reductior urface (C ell Data (E	r (C1) s on Living F Iron (C4) n in Tilled Sc 7)		Secondary Indicate Surface Soil Cr Drainage Patte Dry Season W Crayfish Burro Saturation Visi Stunted or Str. Geomorphic Pattern	ors (minimum of two required) racks (B6) erns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) position (D2)
PROLOGY  POROLOGY  Petland Hydrology In imary Indicators (minir)  Surface Water (A1)  High Water Table (A Saturation (A3)  Water Marks (B1)  Sediment Deposits (B3)  Algal Mat or Crust (B Iron Deposits (B5)  Inundation Visible or Sparsely Vegetated (Control of the Control of t	dicators: mum of one is  B2)  B2)  Aerial Imag Concave Surf	s required; c	check all tha	t apply) Vater-Staine quatic Faur rue Aquatic lydrogen Sc existing School resence of execent Iron thin Muck S Gauge or Wo	na (B13)  Plants (Eulfide Odo Zosphere: Reduced Reductior urface (C' ell Data (I	r (C1) s on Living F Iron (C4) n in Tilled Sc 7)		Secondary Indicate Surface Soil Cr Drainage Patte Dry Season W Crayfish Burro Saturation Visi Stunted or Str. Geomorphic Pattern	ors (minimum of two required) racks (B6) erns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) position (D2)
rDROLOGY  etland Hydrology In imary Indicators (Minir Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (E Iron Deposits (B5) Inundation Visible or	dicators: mum of one is  2)  B2)  B2)  Aerial Imag Concave Surf	s required; cogery (B7) face (B8)	theck all tha	t apply) Vater-Staine quatic Faur True Aquatic lydrogen So exidized Rhi resence of elecent Iron chin Muck S Gauge or We	na (B13)  Plants (Eulfide Odo Zosphere: Reduced Reductior urface (C' ell Data (I	r (C1) s on Living F Iron (C4) n in Tilled Sc 7)		Secondary Indicate Surface Soil Cr Drainage Patte Dry Season W Crayfish Burro Saturation Visi Stunted or Str. Geomorphic Pattern	ors (minimum of two required) racks (B6) erns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) position (D2)
emarks: il appears to be a ro e criterion for hydric  YDROLOGY  etland Hydrology In imary Indicators (minir  Surface Water (A1)  High Water Table (A  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B3)  Algal Mat or Crust (B  Iron Deposits (B5)  Inundation Visible or  Sparsely Vegetated (C)  eld Observations:	dicators: mum of one is  B2)  B2)  Aerial Imag Concave Surf	s required; cogery (B7) face (B8)	theck all tha	t apply) Vater-Staine quatic Faur rue Aquatic lydrogen Sc existing School resence of execent Iron thin Muck S Gauge or Wo	na (B13)  In Plants (Eulfide Odo In Zospheres Reduced Reduction In Plants (Eulfide Odo In Remember (Companies) In Remember (Barren) In	r (C1) s on Living F Iron (C4) n in Tilled Sc 7)	pils (C6)	Secondary Indicator  Surface Soil Cri Drainage Patter  Dry Season W  Crayfish Burro  Saturation Visi Stunted or Str.  Geomorphic Property FAC-Neutral Trees	ors (minimum of two required) racks (B6) erns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) osition (D2) est (D5)
emarks: il appears to be a ro e criterion for hydric  YDROLOGY  etland Hydrology In imary Indicators (minir  Surface Water (A1)  High Water Table (A Saturation (A3)  Water Marks (B1)  Sediment Deposits (B3)  Algal Mat or Crust (E Iron Deposits (B5)  Inundation Visible or Sparsely Vegetated of eld Observations: urface Water Present? atter Table Present?	dicators: mum of one is  B2)  B2)  Aerial Imag Concave Surf  Yes Yes	gery (B7) face (B8)  No	theck all tha	t apply) Vater-Staine quatic Faur True Aquatic lydrogen So existized Rhi resence of execent Iron Thin Muck S Gauge or We Other (Explain	na (B13)  Plants (Eulfide Odo zospheres Reduced Reductior urface (C' ell Data (I' in in Rem hes):	r (C1) s on Living F Iron (C4) n in Tilled Sc 7)	pils (C6)	Secondary Indicate Surface Soil Cr Drainage Patte Dry Season W Crayfish Burro Saturation Visi Stunted or Str. Geomorphic Pattern	ors (minimum of two required) racks (B6) erns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) position (D2)
PROLOGY  etland Hydrology In imary Indicators (miniral)  Surface Water (A1)  High Water Table (A1)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B3)  Algal Mat or Crust (B1)  Iron Deposits (B5)  Inundation Visible or Sparsely Vegetated (C1)  eld Observations:  urface Water Present?  ater Table Present?  uturation Present?  includes capillary fringe)	dicators: mum of one is  12)  134)  14)  15)  16)  17)  18)  18)  19)  19)  19)  19)  19)  19	gery (B7) face (B8)  No (	check all tha	t apply) Vater-Staine quatic Faur frue Aquatic lydrogen So existized Rhi resence of execent Iron thin Muck S Gauge or We other (Explain Depth (inc	na (B13)  It Plants (Eulfide Odo Zospheres Reduced Reduction urface (C'ell Data (Iinin in Rem hes): hes):	s14) r (C1) s on Living F Iron (C4) n in Tilled Sc 7) 29) aarks)	wetl	Secondary Indicate Surface Soil Cr Drainage Patte Dry Season W Crayfish Burro Saturation Visi Stunted or Str Geomorphic P FAC-Neutral Tr	ors (minimum of two required) racks (B6) erns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) osition (D2) est (D5)
Property of the property of th	dicators: mum of one is  (A)  (B2)  (B2)  (B2)  (C)  (C)  (C)  (C)  (C)  (C)  (C)  (	gery (B7) face (B8)  No Q gauge, mo	theck all tha	t apply) Vater-Staine quatic Faur irue Aquatic lydrogen Si oxidized Rhi resence of ecent Iron ihin Muck S Gauge or We other (Explain Depth (inc Depth (inc	na (B13)  Plants (Eulfide Odo zospheres Reduced Reductior urface (C' ell Data (I in in Rem hes): hes): photos,	r (C1) r (C1) s on Living F Iron (C4) n in Tilled Sc 7) D9) arks)	wetl	Secondary Indicate Surface Soil Cr Drainage Patte Dry Season W Crayfish Burro Saturation Visi Stunted or Str Geomorphic P FAC-Neutral Tr	ors (minimum of two required) racks (B6) erns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) osition (D2) est (D5)
PROLOGY  Part and Hydrology In Mary Indicators (Minimary Indicators (Min	dicators: mum of one is  (A)  (B2)  (B2)  (B2)  (C)  (C)  (C)  (C)  (C)  (C)  (C)  (	gery (B7) face (B8)  No Q gauge, mo	theck all tha	t apply) Vater-Staine quatic Faur irue Aquatic lydrogen Si oxidized Rhi resence of ecent Iron ihin Muck S Gauge or We other (Explain Depth (inc Depth (inc	na (B13)  Plants (Eulfide Odo zospheres Reduced Reductior urface (C' ell Data (I in in Rem hes): hes): photos,	r (C1) r (C1) s on Living F Iron (C4) n in Tilled Sc 7) D9) arks)	wetl	Secondary Indicate Surface Soil Cr Drainage Patte Dry Season W Crayfish Burro Saturation Visi Stunted or Str Geomorphic P FAC-Neutral Tr	ors (minimum of two required) racks (B6) erns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) osition (D2) est (D5)

Landform (hillslope, terrace, etc.): Footslope  Slope: 3.0% 1.7 Lat::  Soil Map Unit Name: Blount silt loam (BIA). Not hydric  Are climatic/hydrologic conditions on the site typical for this time of year? Yes Are Vegetation , Soil , or Hydrology , significantly disturnance of the year of Hydrology and turally problems.  SUMMARY OF FINDINGS - Attach site map showing samplificantly disturnance of the year of Hydrology and turally problems.  SUMMARY OF FINDINGS - Attach site map showing samplificantly disturnance of Hydrology Present? Yes No   Hydrology Present? Yes No   Wetland Hydrology Present? Yes No   Wetland Hydrology Present? Yes No   Wetland Hydrology Present? Yes No   WEGETATION - Use scientific names of plants.  VEGETATION - Use scientific names of plants.  Tree Stratum (Plot size: 30'r )   1.	Long.:  No (ibed? atic?  Ing point lough in a very second in an under the content of the content	ampled Area a Wetland? Yes O No  upland.
Investigator(s): Ron Londre, Geof Parish  Sec Landform (hillslope, terrace, etc.): Footslope  Slope: 3.0% 1.7 Lat.:  Soil Map Unit Name: Blount silt loam (BIA), Not hydric  Are climatic/hydrologic conditions on the site typical for this time of year? Yes  Are Vegetation , Soil , or Hydrology , significantly disture Are Vegetation , Soil , or Hydrology , naturally problems  SUMMARY OF FINDINGS - Attach site map showing sampli  Hydrophytic Vegetation Present? Yes No   Hydric Soil Present? Yes No   Wetland Hydrology Present? Yes No   Wetland Hydrology Present? Yes No   Wetgerarks: This point is located in a basin.  None of the parameters have been met at this point. Thus, this point is located in a basin.  None of the parameters have been met at this point. Thus, this point is located in a basin.  None of the parameters have been met at this point. Thus, this point is located in a basin.  Summarks: Tree Stratum (Plot size: 30' r )	Long.:  No () bed? atic?  Ing point lo  Is the San within a V  cated in an u  cominant Species? tel.Strat. Cover  0.0% 0.0% 0.0% Total Cover	ip, Range: S 30 T 5N R 22E cal relief (concave, convex, none): concave    Datum:
Landform (hillslope, terrace, etc.): Footslope  Slope: 3.0% 1.7 Lat:  Soil Map Unit Name: Blount silt loam (BIA), Not hydric  Are climatic/hydrologic conditions on the site typical for this time of year? Yes Are Vegetation , Soil , or Hydrology , significantly disturn Are Vegetation , Soil , or Hydrology , naturally problems  SUMMARY OF FINDINGS - Attach site map showing samplificantly disturn Are Vegetation Present? Yes No  Hydrocomplete Vegetation Present? Yes No  Hydric Soil Present? Yes No  Wetland Hydrology Present? Yes No   Wetland Hydrology Present? Yes No   Wetland Hydrology Present? Yes No   WEGETATION - Use scientific names of plants.  VEGETATION - Use scientific names of plants.  Tree Stratum (Plot size: 30' r )	No (libed? atic?  Is the San within a V  cated in an u  contact in an u  c	Datum:  WWI classification: None  (If no, explain in Remarks.)  Are "Normal Circumstances" present? Yes No O  (If needed, explain any answers in Remarks.)  Ilocations, transects, important features, etc.  Sampled Area a Wetland? Yes No O  In upland.  Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC: 0 (A)  Total Number of Dominant Species Across All Strata: 3 (B)  Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
Solpe: 3.0% 1.7 Lat.:  Soll Map Unit Name: Blount silt loam (BIA), Not hydric  Are climatic/hydrologic conditions on the site typical for this time of year? Yes  Are Vegetation , Soll , or Hydrology , significantly disture are Vegetation , Soll , or Hydrology , naturally problems  SUMMARY OF FINDINGS - Attach site map showing samplified by the size of the parameters are proposed by the size of the parameters have been met at this point. Thus, this point is located in a basin.  None of the parameters have been met at this point. Thus, this point is located in a basin.  None of the parameters have been met at this point. Thus, this point is located in a basin.  None of the parameters have been met at this point. Thus, this point is located in a basin.  Tree Stratum (Plot size: 30' r )	No (libed? atic?  Is the San within a V  cated in an u  contact in an u  c	WWI classification: None  (If no, explain in Remarks.)  Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.)  Ilocations, transects, important features, etc.  Ampled Area a Wetland? Yes No (a)  Indicator Status  Number of Dominant Species That are OBL, FACW, or FAC: 0 (A)  Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
Soil Map Unit Name: Blount silt loam (BlA), Not hydric  Are climatic/hydrologic conditions on the site typical for this time of year? Yes Are Vegetation	Is the San within a Vocated in an uncertainty of the San within a Vocated in an uncertainty of the Species?  Is the San within a Vocated in an uncertainty of the San within a Vocated in an uncertainty of the Species?  Indicated in an uncertainty of the San within a Vocated in a Vocated in an uncertainty of the San within a Vocated in an uncertainty of the San within a Vocated in an uncertainty of the San within a Vocated in an uncer	WWI classification: None  (If no, explain in Remarks.)  Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.)  locations, transects, important features, etc.  sampled Area a Wetland? Yes No (a)  upland.  Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC: 0 (A)  Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
Are climatic/hydrologic conditions on the site typical for this time of year? Yes Are Vegetation	Is the San within a V	(If no, explain in Remarks.)  Are "Normal Circumstances" present?  (If needed, explain any answers in Remarks.)  Ilocations, transects, important features, etc.  Sampled Area a Wetland?  Yes No   No   upland.  Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC:  Dominant Species Across All Strata:  Percent of dominant Species That Are OBL, FACW, or FAC:  O 0,0%  (A/B)
Are Vegetation	Is the San within a V	Are "Normal Circumstances" present?  (If needed, explain any answers in Remarks.)  Ilocations, transects, important features, etc.  Sampled Area a Wetland?  Yes No   No   No   Indicator Status  Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  Percent of dominant Species That Are OBL, FACW, or FAC:  O (A/B)
SUMMARY OF FINDINGS - Attach site map showing samplish Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Pr	Is the San within a V  coated in an u  cominant Species? Rel.Strat. Cover St  0.0%  0.0%  0.0%  Total Cover	(If needed, explain any answers in Remarks.)  locations, transects, important features, etc.  ampled Area a Wetland? Yes No   upland.  Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  Percent of dominant Species That Are OBL, FACW, or FAC:  0 (A)  One (A/B)
Hydrophytic Vegetation Present? Yes No  Hydric Soil Present? Yes No  Wetland Hydrology Present? Yes No  Remarks: This point is located in a basin. None of the parameters have been met at this point. Thus, this point is located in a basin.  VEGETATION - Use scientific names of plants.  Tree Stratum (Plot size: 30' r )  Absolute % Cover	Is the San within a V	Indicator Status  Number of Dominant Species That are OBL, FACW, or FAC:  Description of Dominant Species Across All Strata:  Percent of dominant Species That Are OBL, FACW, or FAC:  Output  Output
Hydrophytic Vegetation Present? Yes No ● Hydric Soil Present? Yes No ● Wetland Hydrology Present? Yes No ● Remarks: This point is located in a basin. None of the parameters have been met at this point. Thus, this point is located in a basin.  VEGETATION - Use scientific names of plants.  Tree Stratum (Plot size: 30' r )	Is the San within a V	An wetland? Yes No No version in upland.  Indicator Status  Number of Dominant Species That are OBL, FACW, or FAC:  O (A)  Total Number of Dominant Species Across All Strata:  Percent of dominant Species That Are OBL, FACW, or FAC:  O.0% (A/B)
Hydric Soil Present?  Wetland Hydrology Present?  Remarks: This point is located in a basin.  None of the parameters have been met at this point. Thus, this point is located in a basin.  VEGETATION - Use scientific names of plants.  Tree Stratum (Plot size: 30' r )	coated in an u cominant Species? Rel.Strat. O.0% O.0% O.0% O.0% Total Cover	ndicator Status  Number of Dominant Species That are OBL, FACW, or FAC:  Percent of dominant Species That Are OBL, FACW, or FAC:  O (A)  O (B)
Hydric Soil Present?  Wetland Hydrology Present?  Remarks: This point is located in a basin.  None of the parameters have been met at this point. Thus, this point is located in a basin.  VEGETATION - Use scientific names of plants.  Tree Stratum (Plot size: 30' r )	coated in an u cominant Species? Rel.Strat. O.0% O.0% O.0% O.0% Total Cover	ndicator Status  Number of Dominant Species That are OBL, FACW, or FAC:  Percent of dominant Species That Are OBL, FACW, or FAC:  O (A)  O (B)
Remarks: This point is located in a basin. None of the parameters have been met at this point. Thus, this point is located in a basin.  VEGETATION - Use scientific names of plants.  Tree Stratum (Plot size: 30' r )	coated in an u cominant species? Rel.Strat. Cover  0.0% 0.0% 0.0% 0.0% Total Cover	ndicator Status  Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  Percent of dominant Species That Are OBL, FACW, or FAC:  0 (A)  (A)  (B)
Remarks: This point is located in a basin. None of the parameters have been met at this point. Thus, this point is located in a basin.  VEGETATION - Use scientific names of plants.  Tree Stratum (Plot size: 30' r )	O.0%	ndicator Status  Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  Percent of dominant Species That Are OBL, FACW, or FAC:  0 (A)  (B)
This point is located in a basin.  None of the parameters have been met at this point. Thus, this point is located in a basin.  VEGETATION - Use scientific names of plants.  Tree Stratum (Plot size: 30' r )	O.0%	ndicator Status  Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  Percent of dominant Species That Are OBL, FACW, or FAC:  0 (A)  (B)
Tree Stratum (Plot size: 30' r )       Absolute % Cover         1.       0         2.       0         3.       0         4.       0         5.       0         Sapling/Shrub Stratum (Plot size: 15' r )       0         1.       0         2.       0         3.       0         4.       0         5.       0         Herb Stratum (Plot size: 5' r )       0         1. Elymus canadensis       30         2. Lotus corniculatus       25	O.0%	Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  Percent of dominant Species That Are OBL, FACW, or FAC:  0 (A)  (B)
Tree Stratum (Plot size: 30' r )       % Cover         1.       0         2.       0         3.       0         4.       0         5.       0         Sapling/Shrub Stratum (Plot size: 15' r )       0         1.       0         2.       0         3.       0         4.       0         5.       0         Herb Stratum (Plot size: 5' r )       0         1. Elymus canadensis       30         2. Lotus corniculatus       25	Cover St   0.0%   0.0%   0.0%   0.0%   0.0%   Total Cover	Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  Percent of dominant Species That Are OBL, FACW, or FAC:  0 (A)  (B)
2.	0.0% 0.0% 0.0% 0.0% Total Cover	That are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  Percent of dominant Species That Are OBL, FACW, or FAC:  0 (A)  (B)
2.	0.0% 0.0% 0.0% Total Cover	Species Across All Strata: 3 (B)  Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
4.	0.0% 0.0% Total Cover	Species Across All Strata: 3 (B)  Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
5. 0 0 = Sapling/Shrub Stratum (Plot size: 15' r ) 1. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0% Total Cover	That Are OBL, FACW, or FAC: 0.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15' r )  1.	Total Cover	That Are OBL, FACW, or FAC: 0.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15' r )         1.       0         2.       0         3.       0         4.       0         5.       0         Herb Stratum (Plot size: 5' r )       0         1. Elymus canadensis       30         2. Lotus corniculatus       25	1	
1.       0         2.       0         3.       0         4.       0         5.       0         Herb Stratum (Plot size: 5' r )       0         1. Elymus canadensis       30         2. Lotus corniculatus       25	0.0%	Prevalence Index worksheet:
2. 0 □ 3. 0 □ 4. 0 □ 5. 0 □ Herb Stratum (Plot size: 5' r ) 0 =  1. Elymus canadensis 30 ✓ 2. Lotus corniculatus 25 ✓	0.076	Total % Cover of: Multiply by:
3. 0	0.0%	Total % Cover of: Multiply by:  OBL species 3 x 1 = 3
4. 0 □ 5. 0 □ Herb Stratum (Plot size: 5' r ) 0 =  1 Elymus canadensis 30 ▼ 2. Lotus corniculatus 25 ▼	0.0%	FACW species $5 \times 2 = 10$
Herb Stratum (Plot size: 5' r )       0       =         1, Elymus canadensis       30       ✓         2, Lotus corniculatus       25       ✓	0.0%	FAC species 7 x 3 = 21
1 Elymus canadensis 30 2. Lotus corniculatus 25	0.0%	FACU species 88 x 4 = 352
1. Elymus canadensis302. Lotus corniculatus25	Total Cover	UPL species 10 x 5 = 50
2. Lotus corniculatus 25	26.5% FA	FACU Column Totals: 113 (A) 436 (B)
		FACIL
3. Melilotus alba 25 ✓		FACU FIEVAIETICE TITIDEX = B/A = 3.000
4. Daucus carota	8.8% UP	Hydrophytic Vegetation Indicators:
5. Agrostis gigantea 5	4.4% FA	1 - Rapid Test for Hydrophytic Vegetation
6. Plantago major 5	4.4% FA	FAC  3 - Prevalence Index is ≤ 3.0 ¹
7. Trifolium repens 5		FACU $4$ - Morphological Adaptations $1$ (Provide supportin
8. Asclepias incarnata 3		data in Remarks or on a separate sheet)
9. Ambrosia artemisiifolia 3 10. Rumex crispus 2		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
113 –	1.8% FA	FAC 1 Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 30' r )	rotal COVEI	be present, unless disturbed or problematic.
10	0.0%	
2	0.0%	Hydrophytic Vegetation
0 =	Total Cover	Present? Yes No •
Remarks: (Include photo numbers here or on a separate sheet.)  The criterion for hydrophytic vegetation is not met at this point.		

		scribe to t	he depth ne	eded to do		the indi		nfirm the	absence of indicators.)	
Depth (inches)	Color (n		%	Color (m		%	Type	Loc <sup>2</sup>	Texture	Remarks
0-10	10YR	2/1	60	5YR	4/4	5	С		Silty Clay Loam	
	10YR	3/2	35							
10-20	10YR	5/3	90	10YR	5/6	3	С		Silty Clay Loam	
				10YR	6/1	20	D	M		
		_		_		_		_		
Гуре: C=Concent	tration, D	=Depletion	, RM=Reduce	d Matrix, CS	S=Covere	d or Coat	ed Sand Gra	ins.	Location: PL=Pore Lining. M	=Matrix.
Hydric Soil Indi  Histosol (A1)	icators:								Indicators for Problem	natic Hydric Soils <sup>3</sup> :
Histic Epipedd Black Histic ( Hydrogen Sul Stratified Laye 2 cm Muck (A Depleted Belc Thick Dark Su Sandy Muck (A 5 cm Mucky F	A3) Iffide (A4) ers (A5) A10) DW Dark S Urface (A1 Mineral (S	2)	1)	Sand Stripp Loam Loam Deple Redo	y Gleyed y Redox ( ped Matrix ny Mucky ny Gleyed eted Matri x Dark Su eted Dark x Depress	(S5) x (S6) Mineral (F Matrix (F ix (F3) urface (F6 Surface (	E1) 2) ) (F7)		Coast Prairie Redox ( Dark Surface (S7) Iron Manganese Mas Very Shallow Dark St Other (Explain in Rer  3 Indicators of hydrophy wetland hydrology unless disturbed of	ses (F12)  urface (TF12)  narks)  vitic vegetation and  must be present,
estrictive Laye	r (if obse	erved):								
Type: None	:									
Depth (inches)	):_NA			_					Hydric Soil Present?	Yes O No 💿
he criterion for	Y									
<b>/etland Hydrol</b> rimary Indicators			required: che	ck all that :	annly)				Secondary Indicato	rs (minimum of two required)
Surface Wate		III OI OIIE IS	required, che		ter-Staine	nd Loavos	(PO)		Surface Soil Cr	
High Water T	. ,			=	uatic Faur		(09)		Drainage Patte	` '
Saturation (A					ie Aquatio		314)		Dry Season Wa	
Water Marks	(B1)				drogen Su				Crayfish Burrov	vs (C8)
Sediment Dep	oosits (B2	)		Oxi	dized Rhi	zosphere:	s on Living F	Roots (C3)	Saturation Visil	ole on Aerial Imagery (C9)
Drift Deposits	s (B3)			Pre	sence of	Reduced	Iron (C4)		Stunted or Stre	essed Plants (D1)
Algal Mat or (				☐ Red	cent Iron	Reduction	n in Tilled So	oils (C6)	✓ Geomorphic Po	
	. ,				n Muck S	•	•		☐ FAC-Neutral Te	est (D5)
Inundation Vi				☐ Gai	uge or We	ell Data (I	09)			
Sparsely Vege	etated Co	ncave Surfa	ace (B8)	☐ Oth	ner (Expla	in in Rem	arks)			
eld Observatio	ons:							1		
urface Water Pre		Yes (	O No •	D	epth (incl	hes):				
ater Table Prese		Yes (			epth (incl			_		
aturation Present								Wet	land Hydrology Present?	Yes O No 💿
ncludes capillary	fringe)	Yes (			epth (incl		mmard- 1	=	a) if a valled-	
				_					s), if available:	
evious delinea emarks:	ation, DN	NLZ AN AN IL	іар, ічксэ 5	онь тнар,	rupugra	ihi iir III9	р, ленагр	110102		
ernarks. ased on a WET	rs analy	sis anton	edent nrecin	itation wa	s within	a norm	al range			
e criterion for						J . 1011110				

Project/Site: IH 94 (N-S Freeway)		Cit	ty/County:	Milwaukee C	ounty	Sar	mpling Date: .	04-Aug-14
Applicant/Owner: Wisconsin Departmen	it of Transportation			State:	WI	Sampling Poi	int:	SP-14
Investigator(s): Ron Londre, Geof Parisl	n		Section, Tow	nship, Range:	s 30 T	5N F	R 22E	
Landform (hillslope, terrace, etc.): Toes	lope			Local relief (c	concave, convex, n	one): conca	ve	_
Slope: 0.0% 0.0 • Lat.:			Long.:				Datum:	
Soil Map Unit Name: Blount silt loam	a (PIA) Not bydric				\\\\\\\\\\\	classification: _	None	
Are climatic/hydrologic conditions on the		voar? Yes (	● No ○	(If no. ex	xplain in Remarks.)	_	NOTIC	
Are Vegetation, Soil		significantly dis		•	ormal Circumstance		Yes	No ○
	, ,	0				•		- 110 -
Are Vegetation, Soil	, or Hydrology	naturally proble	ematic?	(It need	eded, explain any ar	nswers in Rem	arks.)	
SUMMARY OF FINDINGS - A	ttach site map sho	wing sam	pling poi	nt locatio	ns, transects	, importa	nt feature	s, etc.
Hydrophytic Vegetation Present?	Yes ● No ○							
Hydric Soil Present?	Yes ● No ○			ne Sampled A nin a Wetland		No O		
Wetland Hydrology Present?	Yes ● No ○		****	in a wedana	·· res ③ r	WO C		
Remarks:								
This point is located in a basin.								
All three parameters have been m	et at this point. Thus, th	nis point is lo	cated in a v	wetland.				
<b>VEGETATION -</b> Use scie	ntific names of pla	nto	Dominant					
AEGELATION - OSE SCIE	intific fiames of pia		- Species?		<del></del>			
Tree Stratum (Plot size: 30' r	)	Absolute % Cover	Rel.Strat. Cover	Indicator Status	Dominance Te		t:	
1.	<u> </u>	0	0.0%		<ul> <li>Number of Dom That are OBL, Fa</li> </ul>			1 (A)
2.		0	0.0%				_	
3.		0	0.0%		Total Number of Species Across A			2 (B)
4.		0	0.0%		ghanna.		_	
5.		0	0.0%		Percent of dor That Are OBL,			50.0% (A/B)
(District 11	-1 ,		= Total Cov	/er			Αυ.	
Sapling/Shrub Stratum (Plot size: 15	) <u> </u>	_	00/		Prevalence Ind			
1. 2.			0.0%		-	Cover of:	Multiply	
3.		0 0	0.0%		OBL species FACW specie		x 1 = x 2 =	
4.		0	0.0%		FACW species  FAC species	es 0 3	x 2 = x 3 =	0
5.		0	0.0%		FACU species	-	× 4 =	160
Herb Stratum (Plot size: 5' r	1	0	= Total Cov	/er	UPL species	0	x 5 =	0
		FO	<b>✓</b> 51.0%	OBL	Column Tota	lls: 98	(A)	224 (B)
1. Juncus canadensis			<b>✓</b> 51.0% <b>✓</b> 40.8%				_	
Elymus canadensis     Asclepias incarnata		<u>40</u> 5	5.1%	FACU OBL	Prevalenc	e Index = B	/A =	2.286
4. Rumex crispus		3	3.1%	FAC	Hydrophytic Ve	-		
5.		0	0.0%		I — ·	est for Hydro		tation
6.		0	0.0%			nce Test is >		
7.		0	0.0%			nce Index is		
8.		0	0.0%		4 - Morpho data in Rer	logical Adapt marks or on a	tations + (Pr separate si	rovide supporting neet)
9. 10.			0.0%				=	n <sup>1</sup> (Explain)
10		0	0.0%				_	hydrology must
Woody Vine Stratum (Plot size: 30'	r)	98	= Total Cov	/er	be present, un			
		0	0.0%					
1		0	0.0%		Hydrophytic Vegetation			
1. 2.						Yes 💿	No O	
		0	= Total Cov	/er	Present?	165	110	
		0	= Total Cov	/er	Present?			
	s here or on a separate s		= Total Cov	/er	Present?			
2.	dow.	sheet.)	= Total Cov	/er 	Present?			

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Loc²	Texture	Remarks
Silty Cl	ay Loam	
M Silty Cl	ay Loam	
М		
- Pocation	PI =Pore Lining M=	Matrix
		-
	•	16)
	` '	(510)
	•	
	Other (Explain in Rema	arks)
<sup>3</sup> In	dicators of hydrophyti	c vegetation and
	wetland hydrology m	ust be present,
<u> </u>	uriless disturbed of	рговієтнаціс.
Hydric	Soil Present?	Yes 💿 No 🔾
<u> </u>		
	Secondary Indicators	s (minimum of two required)
	Secondary Indicators  Surface Soil Crac	
		cks (B6)
	Surface Soil Crad	cks (B6) ns (B10)
	Surface Soil Crac Drainage Patterr	cks (B6) as (B10) er Table (C2)
ots (C3)	Surface Soil Crac Drainage Patterr Dry Season Wate Crayfish Burrows	cks (B6) as (B10) er Table (C2)
	Surface Soil Crac Drainage Patterr Dry Season Wate Crayfish Burrows Saturation Visible Stunted or Stres	cks (B6) as (B10) er Table (C2) s (C8) e on Aerial Imagery (C9) sed Plants (D1)
ots (C3)	Surface Soil Crac Drainage Patterr Dry Season Wate Crayfish Burrows Saturation Visible Stunted or Stres Geomorphic Pos	cks (B6) as (B10) er Table (C2) s (C8) e on Aerial Imagery (C9) sed Plants (D1) ition (D2)
	Surface Soil Crac Drainage Patterr Dry Season Wate Crayfish Burrows Saturation Visible Stunted or Stres	cks (B6) as (B10) er Table (C2) s (C8) e on Aerial Imagery (C9) sed Plants (D1) ition (D2)
	Surface Soil Crac Drainage Patterr Dry Season Wate Crayfish Burrows Saturation Visible Stunted or Stres Geomorphic Pos	cks (B6) as (B10) er Table (C2) s (C8) e on Aerial Imagery (C9) sed Plants (D1) ition (D2)
	Surface Soil Crac Drainage Patterr Dry Season Wate Crayfish Burrows Saturation Visible Stunted or Stres Geomorphic Pos	cks (B6) as (B10) er Table (C2) s (C8) e on Aerial Imagery (C9) sed Plants (D1) ition (D2)
	Surface Soil Crac Drainage Patterr Dry Season Wate Crayfish Burrows Saturation Visible Stunted or Stres Geomorphic Pos	cks (B6) as (B10) er Table (C2) s (C8) e on Aerial Imagery (C9) sed Plants (D1) ition (D2)
	Surface Soil Crac Drainage Patterr Dry Season Wate Crayfish Burrows Saturation Visible Stunted or Stres Geomorphic Pos	cks (B6) as (B10) er Table (C2) s (C8) e on Aerial Imagery (C9) sed Plants (D1) ition (D2)
	Surface Soil Crac Drainage Patterr Dry Season Wate Crayfish Burrows Saturation Visible Stunted or Stres Geomorphic Pos	cks (B6) as (B10) er Table (C2) s (C8) e on Aerial Imagery (C9) sed Plants (D1) ition (D2)
(C6)	Surface Soil Crac Drainage Patterr Dry Season Wate Crayfish Burrows Saturation Visible Stunted or Stres Geomorphic Pos	cks (B6) as (B10) er Table (C2) s (C8) e on Aerial Imagery (C9) sed Plants (D1) ition (D2)
(C6)  Wetland Hydi	Surface Soil Crac Drainage Patterr Dry Season Wate Crayfish Burrows Saturation Visible Stunted or Stres Geomorphic Pos FAC-Neutral Tes	cks (B6) as (B10) er Table (C2) s (C8) e on Aerial Imagery (C9) sed Plants (D1) ition (D2) t (D5)
Wetland Hydenections), if available	Surface Soil Crac Drainage Patterr Dry Season Wate Crayfish Burrows Saturation Visible Stunted or Stres Geomorphic Pos FAC-Neutral Tes	cks (B6) as (B10) er Table (C2) s (C8) e on Aerial Imagery (C9) sed Plants (D1) ition (D2) t (D5)
(C6)  Wetland Hydi	Surface Soil Crac Drainage Patterr Dry Season Wate Crayfish Burrows Saturation Visible Stunted or Stres Geomorphic Pos FAC-Neutral Tes	cks (B6) as (B10) er Table (C2) s (C8) e on Aerial Imagery (C9) sed Plants (D1) ition (D2) t (D5)
Wetland Hydenections), if available	Surface Soil Crac Drainage Patterr Dry Season Wate Crayfish Burrows Saturation Visible Stunted or Stres Geomorphic Pos FAC-Neutral Tes	cks (B6) as (B10) er Table (C2) s (C8) e on Aerial Imagery (C9) sed Plants (D1) ition (D2) t (D5)
	s. £ocation: Indi  Indi Indi	s.

Project/Site: IH 94 (N-S Freeway)		Cit	ty/County:	Milwaukee C	ounty	;	Sampling Date:	04-Aug-14
Applicant/Owner: Wisconsin Departmen	nt of Transportation			State:	WI	Sampling F	Point:	SP-15
Investigator(s): Ron Londre, Geof Paris	sh	· ·	Section, Tow	nship, Range:	s 30 T	5N	R 22E	
Landform (hillslope, terrace, etc.): Flat				Local relief (c	concave, convex, n	one): cond	cave	_
Slope: 0.0% 0.0 • Lat.:			Long.:			_	Datum:	
	- loam (MgA), Not hydric				W/WI c	classification:		
Are climatic/hydrologic conditions on the		Yes (	● No ○	(If no. ex	«plain in Remarks.)		None	
Are Climatic/nydrologic conditions on the Are Vegetation   , Soil	,,	ignificantly dis		•	ormal Circumstance		Yes	● No ○
	5 55					'		0 100 0
Are Vegetation  , Soil .	, or Hydrology 🔲 n	aturally proble	ematic?	(If need	ded, explain any ar	nswers in Re	marks.)	
SUMMARY OF FINDINGS - A	Attach site map show	wing sam	pling poi	nt locatio	ns, transects	, import	ant feature	s, etc.
Hydrophytic Vegetation Present?	Yes ● No ○							
Hydric Soil Present?	Yes ● No ○			ne Sampled A nin a Wetland				
Wetland Hydrology Present?	Yes ● No ○		***************************************	III a Welland	‼ Yes ⊙r	<b>VO</b> $\bigcirc$		
Remarks:								
This point is located in a basin.								
All three parameters have been n	net at this point. Thus, thi	is point is lo	cated in a w	wetland.				
<b>VEGETATION -</b> Use scie	entific names of plan		Dominant					
VEGETATION - USE SCIE			- Species?		B			
Tree Stratum (Plot size: 30' r	)	Absolute % Cover	Rel.Strat. Cover	Indicator Status	Dominance Te			
1.		0	0.0%		<ul> <li>Number of Dom That are OBL, Fa</li> </ul>			2 (A)
2.		0	0.0%				_	
3.		0	0.0%		Total Number of Species Across A			2 (B)
4.		0	0.0%				_	
5		0	0.0%		Percent of dor That Are OBL,			00.0% (A/B)
Sapling/Shrub Stratum (Plot size: 1	E'r \		= Total Cov	er/er				
1.	,	0	0.0%		Prevalence Ind	<b>lex worksh</b> Cover of:		la.,.
2.		0	0.0%		OBL species	Cover or:	Multiply x 1 =	88
3.		0	0.0%		FACW specie	_	x 2 =	0
4.		0	0.0%		FAC species	0	x 3 =	0
5.		0	0.0%		FACU species	s 0	x 4 =	0
Herb Stratum (Plot size: 5' r	)	0	= Total Cov	/er	UPL species	0	x 5 =	0
1. Typha angustifolia	<b>—</b> ′	40	<b>✓</b> 45.5%	OBL	Column Tota	ls: 88	— (A)	88 (B)
Schoenoplectus tabernaemontani			<b>✓</b> 34.1%		Provolono	e Index =		1.000
3. Eleocharis obtusa		15	17.0%	OBL				1.000
4. Alisma subcordatum		3	3.4%	OBL	Hydrophytic Ve	-		
5.		0	0.0%		✓ 1 - Rapid To	=		tation
6.		0	0.0%		✓ 2 - Domina ✓ 3 - Prevaler			
7.			0.0%					rovide supporting
8. 9.			0.0%		data in Rer	narks or or	aptations = (Pr 1 a separate sh	reet)
10.		0	0.0%		☐ Problemati	c Hydroph	ytic Vegetatio	n <sup>1</sup> (Explain)
10.		0	0.0%		<sup>1</sup> Indicators o	f hvdric so	il and wetland	hydrology must
Woody Vine Stratum (Plot size: 30'	<u>'r</u> )	88	= Total Cov	/er	be present, un			
1		0	0.0%					
2			0.0%		Hydrophytic Vegetation			
		0	= Total Cov	/er	Present?	Yes 💿	No O	
Remarks: (Include photo number	s here or on a separate s	heet.)						
This point is located in a shallow								
The criterion for hydrophytic vege	etation is met at this point	ſ.						

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

	cribe to t Matrix	ne aeptn ne	eeaea to ao	cument the II Redox Fe		ntirm the	absence of indicators.)		
nches) Color (m	oist)	%	Color (mo	oist) %	туре Туре	Loc2	Texture		Remarks
0-7 10YR	3/2	95	10YR	4/6 5	C C	M	Silty Clay Loam		
7-20 10YR	5/3	95	10YR	5/1 5	5 C	M	Silty Clay Loam		
								_	
								_	
							. —		
		-					2		
pe: C=Concentration, D=	Depletion	, RM=Reduce	ed Matrix, CS	=Covered or C	oated Sand Gra	iins.	Legation: PL=Pore Linin		
dric Soil Indicators:				01	(0.4)		Indicators for Pro	olematic Hydri	c Soils <sup>3</sup> :
Histosol (A1) Histic Epipedon (A2)				Gleyed Matrix	(54)		Coast Prairie Rec	ox (A16)	
Black Histic (A3)				Redox (S5)			☐ Dark Surface (S7	)	
Hydrogen Sulfide (A4)				ed Matrix (S6)			☐ Iron Manganese	Masses (F12)	
Stratified Layers (A5)				y Mucky Minera			Very Shallow Dar		)
2 cm Muck (A10)				y Gleyed Matrix			Other (Explain in		
Depleted Below Dark Su	urface (A1	1)		ted Matrix (F3)				,	
Thick Dark Surface (A12	•	•		Dark Surface			2		
Sandy Muck Mineral (S1				ted Dark Surfa	, ,		3 Indicators of hydro	ophytic vegetation ogy must be pres	
5 cm Mucky Peat or Pea	•		☐ Redox	Depressions (	(F8)			ed or problemati	
trictive Layer (if obse	rved):								
Type: None	-							_	_
-									No O
Depth (inches): NA							Hydric Soil Present?	Yes 💿	140 🔾
Depth (inches): NA marks: is disturbed due to re- criterion for hydric so				asin. Erosion	netting is sti	II present		Yes •	NO C
marks: is disturbed due to re				asin. Erosion	netting is sti	II present		Yes •	
marks: is disturbed due to re criterion for hydric so  DROLOGY  tland Hydrology Indica	ators:	at this poir	nt.		netting is sti	II present	on the ground.		
narks: is disturbed due to re criterion for hydric so  DROLOGY cland Hydrology Indicators (minimum	ators:	at this poir	nt.	pply)		II present	on the ground.  Secondary Indi	cators (minimum	o of two required)
marks: is disturbed due to re criterion for hydric so  DROLOGY cland Hydrology Indicators (minimum Surface Water (A1)	ators:	at this poir	neck all that a	pply) er-Stained Lea	ves (B9)	ll present	on the ground.  Secondary Indi	cators (minimum il Cracks (B6)	
marks: is disturbed due to re criterion for hydric so  DROLOGY  cland Hydrology Indicators (minimum Surface Water (A1) High Water Table (A2)	ators:	at this poir	neck all that a	pply) er-Stained Lea atic Fauna (B1	ves (B9) 3)	II present	on the ground.  Secondary Indi Surface So Drainage P	cators (minimum il Cracks (B6) atterns (B10)	of two required)
processing the state of the sta	ators:	at this poir	neck all that a	pply) er-Stained Lea atic Fauna (B1 e Aquatic Plant	ves (B9) 3) s (B14)	II present	on the ground.  Secondary Indi  Surface So  Drainage P  Dry Seasor	cators (minimum il Cracks (B6) atterns (B10) n Water Table (C	of two required)
marks: is disturbed due to recriterion for hydric so  DROLOGY  cland Hydrology Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	ators: n of one is	at this poir	neck all that a	pply) er-Stained Lea atic Fauna (B1 e Aquatic Plant rogen Sulfide (	ves (B9) 3) s (B14) Odor (C1)		on the ground.  Secondary Indi Surface So Drainage P Dry Seasor Crayfish Bu	cators (minimum il Cracks (B6) atterns (B10) n Water Table (C urrows (C8)	o of two required)
marks: is disturbed due to recriterion for hydric so  DROLOGY  cland Hydrology Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	ators: n of one is	at this poir	neck all that a	pply) er-Stained Lea atic Fauna (B1 e Aquatic Plant rogen Sulfide ( dized Rhizosph	ves (B9) 3) s (B14) Odor (C1) eres on Living I		on the ground.  Secondary Indi Surface So Drainage P Dry Seasor Crayfish Bu Saturation	cators (minimum il Cracks (B6) atterns (B10) n Water Table (C irrows (C8) Visible on Aerial	of two required)  2)  Imagery (C9)
marks: is disturbed due to recriterion for hydric so  DROLOGY  Cland Hydrology Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	ators: n of one is	at this poir	neck all that a	pply) er-Stained Lea atic Fauna (B1 e Aquatic Plant rogen Sulfide ( dized Rhizosphe sence of Reduc	ves (B9) 3) s (B14) Odor (C1) eres on Living I ted Iron (C4)	Roots (C3)	on the ground.  Secondary Indi Surface So Drainage P Dry Seasor Crayfish Bu Saturation Stunted or	cators (minimum il Cracks (B6) atterns (B10) n Water Table (C urrows (C8) Visible on Aerial Stressed Plants	of two required)  2)  Imagery (C9)
marks: is disturbed due to recriterion for hydric so  DROLOGY  Cland Hydrology Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	ators: n of one is	at this poir	neck all that a  Wat Aqu True Hyd Oxic Pres	pply) er-Stained Lea atic Fauna (B1 e Aquatic Plant rogen Sulfide ( dized Rhizosphesence of Reduce	ves (B9) 3) s (B14) Odor (C1) eres on Living I ced Iron (C4)	Roots (C3)	Secondary Indi Surface So Drainage P Dry Seasor Crayfish Bu Saturation Stunted or Geomorph	cators (minimum il Cracks (B6) atterns (B10) n Water Table (C urrows (C8) Visible on Aerial Stressed Plants c Position (D2)	of two required)  2)  Imagery (C9)
marks: is disturbed due to re criterion for hydric so  DROLOGY  Cland Hydrology Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	ators: n of one is	at this poir	neck all that a  Wat Aqu True Hyd Oxic Pres Rece	pply) er-Stained Lea atic Fauna (B1 e Aquatic Plant rogen Sulfide ( dized Rhizosphesence of Reduce an Muck Surface	ves (B9) 3) s (B14) Odor (C1) eres on Living I ted Iron (C4) stion in Tilled So	Roots (C3)	on the ground.  Secondary Indi Surface So Drainage P Dry Seasor Crayfish Bu Saturation Stunted or	cators (minimum il Cracks (B6) atterns (B10) n Water Table (C urrows (C8) Visible on Aerial Stressed Plants c Position (D2)	of two required)  2)  Imagery (C9)
processing the processing of t	ators: n of one is	at this poir	neck all that a  Wat Aqu True Hyd Oxic Pres Rec Thir	pply) er-Stained Lea atic Fauna (B1 e Aquatic Plant rogen Sulfide ( dized Rhizosphe sence of Reducent Iron Reducent in Muck Surface ge or Well Dat	ves (B9) 3) s (B14) Odor (C1) eres on Living I ded Iron (C4) ction in Tilled So	Roots (C3)	Secondary Indi Surface So Drainage P Dry Seasor Crayfish Bu Saturation Stunted or Geomorph	cators (minimum il Cracks (B6) atterns (B10) n Water Table (C urrows (C8) Visible on Aerial Stressed Plants c Position (D2)	of two required)  2)  Imagery (C9)
marks: is disturbed due to re criterion for hydric so  DROLOGY  Cland Hydrology Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae	ators: n of one is	at this poir	neck all that a  Wat Aqu True Hyd Oxic Pres Rec Thir	pply) er-Stained Lea atic Fauna (B1 e Aquatic Plant rogen Sulfide ( dized Rhizosphesence of Reduce an Muck Surface	ves (B9) 3) s (B14) Odor (C1) eres on Living I ded Iron (C4) ction in Tilled So	Roots (C3)	Secondary Indi Surface So Drainage P Dry Seasor Crayfish Bu Saturation Stunted or Geomorph	cators (minimum il Cracks (B6) atterns (B10) n Water Table (C urrows (C8) Visible on Aerial Stressed Plants c Position (D2)	of two required)  2)  Imagery (C9)
marks: is disturbed due to re criterion for hydric so  DROLOGY  Eland Hydrology Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aes Sparsely Vegetated Con-	ators: n of one is	at this poir	neck all that a  Wat Aqu True Hyd Oxic Pres Rec Thir	pply) er-Stained Lea atic Fauna (B1 e Aquatic Plant rogen Sulfide ( dized Rhizosphe sence of Reducent Iron Reducent in Muck Surface ge or Well Dat	ves (B9) 3) s (B14) Odor (C1) eres on Living I ded Iron (C4) ction in Tilled So	Roots (C3)	Secondary Indi Surface So Drainage P Dry Seasor Crayfish Bu Saturation Stunted or Geomorph	cators (minimum il Cracks (B6) atterns (B10) n Water Table (C urrows (C8) Visible on Aerial Stressed Plants c Position (D2)	of two required)  2)  Imagery (C9)
marks: is disturbed due to recriterion for hydric so  DROLOGY  Itland Hydrology Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Condators: It deposits (B5) Indotton Visible on Ae Sparsely Vegetated Condators: It deposits (B5)	ators: n of one is	at this poir s required; ch	neck all that a  Wat Aqu True Hyd Oxic Pres Recc Thir	pply) er-Stained Lea atic Fauna (B1 e Aquatic Plant rogen Sulfide ( dized Rhizosphe sence of Reducent Iron Reducent in Muck Surface ge or Well Dat	ves (B9) 3) s (B14) Odor (C1) eres on Living I ded Iron (C4) ction in Tilled So	Roots (C3)	Secondary Indi Surface So Drainage P Dry Seasor Crayfish Bu Saturation Stunted or Geomorph	cators (minimum il Cracks (B6) atterns (B10) n Water Table (C urrows (C8) Visible on Aerial Stressed Plants c Position (D2)	of two required)  2)  Imagery (C9)
marks: is disturbed due to re criterion for hydric so  DROLOGY  tland Hydrology Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Conditions: face Water Present?	ators: n of one is erial Image	ery (B7) ace (B8)	neck all that a  Wat Aqu True Hyd Oxio Pres Recc Thir Gau Otho	pply) er-Stained Lea atic Fauna (B1 e Aquatic Plant rogen Sulfide ( dized Rhizosphosence of Reducent Iron Reducent Iron Reducent Well Dat er (Explain in Feepth (inches):	ves (B9) 3) s (B14) Odor (C1) eres on Living led Iron (C4) tion in Tilled So (C7) a (D9) Remarks)	Roots (C3)	Secondary Indi Surface So Drainage P Dry Seasor Crayfish Bu Saturation Stunted or Geomorph	cators (minimum il Cracks (B6) atterns (B10) n Water Table (C urrows (C8) Visible on Aerial Stressed Plants c Position (D2)	of two required)  2)  Imagery (C9)
marks: is disturbed due to re criterion for hydric so  DROLOGY  tland Hydrology Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Conditions: face Water Present?	ators: n of one is erial Image accave Surfa	ery (B7) ace (B8)  No  No  No  No  No  No  No  No  No  No	neck all that a  Wat Aqu Arrue Hyd Oxic Pres Recc Thir	pply) er-Stained Lea atic Fauna (B1 e Aquatic Plant rogen Sulfide ( dized Rhizospherence of Reduce ent Iron Reducent Iron Reduce	ves (B9) 3) s (B14) Odor (C1) eres on Living I ced Iron (C4) ction in Tilled So c (C7) a (D9) Remarks)	Roots (C3)	Secondary Indi Surface So Drainage P Dry Seasor Crayfish Bu Saturation Stunted or Geomorph	cators (minimum il Cracks (B6) atterns (B10) n Water Table (C urrows (C8) Visible on Aerial Stressed Plants c Position (D2) al Test (D5)	of two required)  2)  Imagery (C9)
marks: is disturbed due to re criterion for hydric so  DROLOGY  tland Hydrology Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Conditions: if ace Water Present?	ators: n of one is erial Image	ery (B7) ace (B8)  No  No  No  No  No  No  No  No  No  No	neck all that a  Wat Aqu Arrue Hyd Oxic Pres Recc Thir	pply) er-Stained Lea atic Fauna (B1 e Aquatic Plant rogen Sulfide ( dized Rhizosphosence of Reducent Iron Reducent Iron Reducent Well Dat er (Explain in Feepth (inches):	ves (B9) 3) s (B14) Odor (C1) eres on Living led Iron (C4) tion in Tilled So (C7) a (D9) Remarks)	Roots (C3)	on the ground.  Secondary Indi Surface So Drainage P Dry Seasor Crayfish Bu Saturation Stunted or Geomorph FAC-Neutra	cators (minimum il Cracks (B6) atterns (B10) n Water Table (C urrows (C8) Visible on Aerial Stressed Plants c Position (D2) al Test (D5)	2) Imagery (C9) (D1)
marks: is disturbed due to recriterion for hydric so  DROLOGY  Cland Hydrology Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Conducted Con	ators: n of one is erial Image scave Surfa Yes Yes Yes	ery (B7) ace (B8)  No O	neck all that a  Wat Aqu True Hyd Oxio Press Recc Thir Gau Otho	pply) er-Stained Lea atic Fauna (B1 e Aquatic Plant rogen Sulfide ( dized Rhizosphosence of Reduce ent Iron Reduce Muck Surface ge or Well Dat er (Explain in Fe epth (inches): epth (inches):	ves (B9) 3) s (B14) Odor (C1) eres on Living leted Iron (C4) ction in Tilled So (C7) a (D9) Remarks)	Roots (C3) bils (C6)  Wetl	Secondary Indi Surface So Drainage P Dry Seasor Crayfish Bu Saturation Stunted or FAC-Neutra	cators (minimum il Cracks (B6) atterns (B10) n Water Table (C urrows (C8) Visible on Aerial Stressed Plants c Position (D2) al Test (D5)	2) Imagery (C9) (D1)
marks: is disturbed due to recriterion for hydric so  DROLOGY  Cland Hydrology Indicators (minimum) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Cond  d Observations: ace Water Present? er Table Present? uration Present? udes capillary fringe) cribe Recorded Data (	ators: n of one is  Yes  Yes  (stream (	ery (B7) ace (B8)  No Cagauge, mor	neck all that a  Wat Aqu Arrue Hyd Oxic Pres Recc Thir	pply) er-Stained Lea atic Fauna (B1 e Aquatic Plant rogen Sulfide ( dized Rhizosph- sence of Reduce ent Iron Reduce Muck Surface ge or Well Dat er (Explain in Fe epth (inches): epth (inches): epth (inches):	ves (B9) 3) s (B14) Odor (C1) eres on Living lited Iron (C4) ction in Tilled Sc (C7) a (D9) Remarks)  4 0 os, previous in	Roots (C3)  bils (C6)  Wetl	Secondary Indi Surface So Drainage P Dry Seasor Crayfish Bu Saturation Stunted or FAC-Neutra	cators (minimum il Cracks (B6) atterns (B10) n Water Table (C urrows (C8) Visible on Aerial Stressed Plants c Position (D2) al Test (D5)	2) Imagery (C9) (D1)
marks: is disturbed due to recriterion for hydric so  DROLOGY  Cland Hydrology Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Sparsely Vegetated Conducted to the Conducted Conduc	ators: n of one is  Yes  Yes  (stream (	ery (B7) ace (B8)  No Cagauge, mor	neck all that a  Wat Aqu Arrue Hyd Oxic Pres Recc Thir	pply) er-Stained Lea atic Fauna (B1 e Aquatic Plant rogen Sulfide ( dized Rhizosph- sence of Reduce ent Iron Reduce Muck Surface ge or Well Dat er (Explain in Fe epth (inches): epth (inches): epth (inches):	ves (B9) 3) s (B14) Odor (C1) eres on Living lited Iron (C4) ction in Tilled Sc (C7) a (D9) Remarks)  4 0 os, previous in	Roots (C3)  bils (C6)  Wetl	Secondary Indi Surface So Drainage P Dry Seasor Crayfish Bu Saturation Stunted or FAC-Neutra	cators (minimum il Cracks (B6) atterns (B10) n Water Table (C urrows (C8) Visible on Aerial Stressed Plants c Position (D2) al Test (D5)	of two required)  2)  Imagery (C9) (D1)

Project/Site:IH 94 (N-S Freeway)	City	y/County:	Milwaukee C	ounty	Sampling Date: 04-Aug-14
Applicant/Owner: Wisconsin Department of Transportation			State:	WI Sampl	ling Point: SP-16
nvestigator(s): Ron Londre, Geof Parish	S	Section, Tow	nship, Range:	s 19 T 5N	R 22E
andform (hillslope, terrace, etc.): Toeslope/ditch			Local relief (d	oncave, convex, none):	concave
Slope: 0.0% 0.0 • Lat.:		Long.:		-	Datum:
Soil Map Unit Name: Blount silt loam (BIA), Not hydric				WWI classifica	ation: None
Are climatic/hydrologic conditions on the site typical for this time o	<sub>f vear?</sub> Yes	• No O	(If no, ex	plain in Remarks.)	- None
Are Vegetation . , Soil . , or Hydrology .	significantly dist	turbed?	Are "No	· ormal Circumstances" pres	ent? Yes • No O
Are Vegetation , Soil , or Hydrology	naturally proble			ded, explain any answers i	
SUMMARY OF FINDINGS - Attach site map sh					
Hydrophytic Vegetation Present? Yes No 💿		Jiiiig poi	- Iocacio		
Hydric Soil Present?  Yes  No  No  No			e Sampled A		
		with	in a Wetland	l? Yes ○ No •	
Wetland Hydrology Present?  Yes  No  Remarks:					
Two of the three parameters have not been met at this process.  VEGETATION - Use scientific names of places.		Dominan	t	upland.  Dominance Test worl	ksheet:
Tree Stratum (Plot size: 4' x 80'	% Cover	Cover	Status	<ul> <li>Number of Dominant Sp</li> </ul>	
1	0	0.0%		That are OBL, FACW, or	_
2.	0	0.0%		Total Number of Domin	ant
3 4.		0.0%		Species Across All Strata	_
5.	0 0	0.0%		Percent of dominant	Species
		= Total Cov		That Are OBL, FACW	
Sapling/Shrub Stratum (Plot size: 4' x 80' )				Prevalence Index wo	rksheet:
1.	0	0.0%		Total % Cover	of: Multiply by:
2	0	0.0%		OBL species	0 x 1 = 0
3	0	0.0%		FACW species	0 x 2 = 0
4		0.0%		FAC species	10 x 3 = 30
5		0.0%		FACU species	78 x 4 = 312
Herb Stratum (Plot size: 4' x 20'		= Total Cov	/er	UPL species	0 x 5 = 0
1. Elymus repens	75	85.2%	FACU	Column Totals:	88 (A) <u>342</u> (B)
2. Poa pratensis	10	11.4%	FAC	Prevalence Inde	x = B/A = 3.886
3. Solidago canadensis	3	3.4%	<u>FACU</u>	Hydrophytic Vegetati	on Indicators:
4 5.		0.0%		1 - Rapid Test for	Hydrophytic Vegetation
6.	0	0.0%		2 - Dominance Te	st is > 50%
7.		0.0%		3 - Prevalence Inc	dex is ≤3.0 ¹
8.	0	0.0%			Adaptations $^1$ (Provide supporting or on a separate sheet)
9.	0	0.0%			or on a separate sneet) ophytic Vegetation <sup>1</sup> (Explain)
10.	0	0.0%			
Woody Vine Stratum (Plot size: 4' x 80' )	88	= Total Cov	/er	Indicators of hydric be present, unless di	c soil and wetland hydrology must sturbed or problematic.
	0	0.0%			-
1.		0.0%		Hydrophytic	
1 2.	0	0.076			
	0 0	= Total Cov	/er	Vegetation Present? Yes	O No •

Depth	` Matrix		eeded to (		ine mai lox Featu		illiniii cile	absence of indicators	5.)
	or (moist)	%	Color (ı	moist)	%	Туре	Loc2	Texture	Remarks
0-8 10Y	R 3/1	100						Silty Clay	
8-20 10Y	R 5/2	50	10YR	5/1	40	D	М	Silty Clay	
			7.5YR	5/6	10	С	М		
	·								
	· ·								
pe: C=Concentration	n D=Denletion	n RM=Reduc	ed Matrix	CS=Covere	ed or Coate	ed Sand Gra	ins	Eocation: PL=Pore Lir	ning M=Matrix
dric Soil Indicate		II, KWI Kedac	ed Matrix,	00 00 00 00 10	, a or ooar	ca sana cre			roblematic Hydric Soils <sup>3</sup> :
Histosol (A1)			Sar	ndy Gleyed	Matrix (S	4)			•
Histic Epipedon (A	A2)			ndy Redox				Coast Prairie R	,
Black Histic (A3)			Stri	ipped Matri	ix (S6)			☐ Dark Surface (	,
Hydrogen Sulfide			Loa	amy Mucky	Mineral (F	<del>-</del> 1)		_	se Masses (F12)
Stratified Layers (	(A5)		Loa	amy Gleyed	l Matrix (F	2)			Oark Surface (TF12)
2 cm Muck (A10)			<b>✓</b> Dep	pleted Matr	ix (F3)			Other (Explain	in Remarks)
Depleted Below D	•	11)	Red	dox Dark Si	urface (F6	)			
Thick Dark Surfac	, ,		☐ Dep	pleted Dark	Surface (	(F7)		3 Indicators of hy	drophytic vegetation and
Sandy Muck Mine	, ,		Red	dox Depres	sions (F8)			wetland hydr	ology must be present,
5 cm Mucky Peat								uniess distu	rbed or problematic.
strictive Layer (if	observed):								
Type: None									
Double Charles N. M.	Λ							Hvdric Soil Presen	t? Yes 🖲 No 🖯
Depth (inches): N. emarks: il appears to be a e criterion for hyd	roadside fill a							Hydric Soil Presen	t? Yes  No
emarks: I appears to be a e criterion for hyd	roadside fill a Iric soil is met							Hydric Soil Presen	t? Yes • No ·
emarks: I appears to be a e criterion for hyd  /DROLOGY  etland Hydrology	roadside fill a tric soil is met	t at this poir	nt.	ıt apply)					ndicators (minimum of two required)
emarks: I appears to be a e criterion for hyd  'DROLOGY  etland Hydrology	roadside fill a tric soil is met indicators: inimum of one i	t at this poir	nt. heck all tha	ıt apply) Vater-Staine	ed Leaves	(B9)		Secondary Ir	
emarks: I appears to be a e criterion for hyd  **TOROLOGY**  etland Hydrology mary Indicators (mi	roadside fill a lric soil is met list m	t at this poir	nt. heck all tha			(B9)		Secondary Ir	ndicators (minimum of two required)
pemarks: appears to be a criterion for hydrology atland Hydrology mary Indicators (mi	roadside fill a lric soil is met list m	t at this poir	heck all tha	Vater-Stain Quatic Faul True Aquatio	na (B13) c Plants (E	314)		Secondary Ir	ndicators (minimum of two required) Soil Cracks (B6)
Pemarks: I appears to be a criterion for hyde  TDROLOGY  Petland Hydrology  mary Indicators (mi  Surface Water (A'  High Water Table  Saturation (A3)  Water Marks (B1)	roadside fill a fric soil is met fric so	t at this poir	heck all tha	Vater-Stain	na (B13) c Plants (E	314)		Secondary Ir  Surface :  Drainage	ndicators (minimum of two required) Soil Cracks (B6) & Patterns (B10)
Permarks:  I appears to be a e criterion for hydrology  Petland Hydrology  mary Indicators (mi  Surface Water (A'  High Water Table  Saturation (A3)  Water Marks (B1)  Sediment Deposit	roadside fill a dric soil is met fill a firit soil is met fill a	t at this poir	heck all tha	Vater-Staine Aquatic Faul True Aquatio Hydrogen St Oxidized Rh	na (B13) c Plants (E ulfide Odo izospheres	314) r (C1) s on Living F	Roots (C3)	Secondary Ir  Surface:  Drainage  Dry Seas  Crayfish Saturatio	ndicators (minimum of two required) Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9)
Portion (A3)  Water Marks (B1)  Sediment Deposits (B3)	roadside fill a dric soil is met file so	t at this poir	heck all tha	Vater-Staine equatic Faul True Aquatic Hydrogen St Oxidized Rh Presence of	na (B13) c Plants (E ulfide Odo izospheres Reduced	314) r (C1) s on Living F Iron (C4)		Secondary Ir Surface: Drainage Dry Seas Crayfish Saturatic Stunted	ndicators (minimum of two required) Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1)
Permarks:  I appears to be a criterion for hydrology  Petland Hydrology  I mary Indicators (mi  Surface Water (A'  High Water Table  Saturation (A3)  Water Marks (B1)  Sediment Deposit  Drift Deposits (B3)  Algal Mat or Crust	roadside fill a fric soil is met fric so	t at this poir	heck all tha	Vater-Staine equatic Faul True Aquatic Hydrogen St Oxidized Rh Presence of	na (B13) c Plants (E ulfide Odo izospheres Reduced	314) r (C1) s on Living F		Secondary Ir Surface: Drainage Dry Seas Crayfish Saturatic Stunted	ndicators (minimum of two required) Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Ohic Position (D2)
Permarks: I appears to be a criterion for hydrology  Petland Hydrology Imary Indicators (minor) Surface Water (And High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust Iron Deposits (B5)	roadside fill a lric soil is met lric so	t at this poin	heck all tha	Vater-Stains Aquatic Faula Frue Aquatic Hydrogen So Oxidized Rha Presence of Recent Iron Thin Muck S	na (B13) c Plants (E ulfide Odo izospheres Reduced Reduction Surface (C	314) or (C1) or on Living F Iron (C4) or in Tilled Sc 7)		Secondary Ir Surface: Drainage Dry Seas Crayfish Saturatic Stunted	ndicators (minimum of two required) Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1)
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pmarks: appears to be a criterion for hyder and hydrology ary Indicators (minum) Surface Water (A') High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust Iron Deposits (B5)	roadside fill a dric soil is met	t at this point at this point at this point at this point at the point	heck all tha	Vater-Stains Aquatic Faula Frue Aquatic Hydrogen So Oxidized Rha Presence of Recent Iron Thin Muck S	na (B13) c Plants (E ulfide Odo izospheres Reduced Reduction Surface (C	314)  Ir (C1)  Is on Living F  Iron (C4)  In in Tilled Sc  T)		Secondary Ir Surface: Drainage Dry Seas Crayfish Saturatic Stunted	ndicators (minimum of two required) Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Ohic Position (D2)
Pemarks: I appears to be a criterion for hydrology  Petland Hydrology Imary Indicators (mi Surface Water (Ar High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit Drift Deposits (B3 Algal Mat or Crust Iron Deposits (B5 Inundation Visible Sparsely Vegetate	roadside fill a fric soil is met fric so	t at this point at this point at this point at this point at the point	heck all tha	Vater-Stain Aquatic Faul True Aquatic Aydrogen Stain Aydrogen Stain Aydrogen Stain Aydrogen Stain Aydrogen Stain Aydrogen Aydroge	na (B13) c Plants (E ulfide Odo izospheres Reduced Reduction Surface (C	314)  Ir (C1)  Is on Living F  Iron (C4)  In in Tilled Sc  T)		Secondary Ir Surface: Drainage Dry Seas Crayfish Saturatic Stunted	ndicators (minimum of two required) Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Ohic Position (D2)
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Pemarks: I appears to be a criterion for hyder of the criterion of the crit	roadside fill a fric soil is met fric so	gery (B7) face (B8)  No  No  No	heck all tha	Vater-Staine Aquatic Faurice Aydrogen Staine Dividized Rhibresence of Recent Iron Thin Muck Stauge or Wolther (Explaine Depth (incompetit incompetit	na (B13) c Plants (E ulfide Odo izospheres Reduced Reductior Gurface (C ell Data (I elhes): hes):	314) or (C1) s on Living F Iron (C4) on in Tilled Sc 7) D9) harks)	wetl	Secondary Ir Surface: Drainage Dry Seas Crayfish Saturatic Stunted FAC-Neu	ndicators (minimum of two required) Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Ohic Position (D2) Itral Test (D5)
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Property of the property of th	roadside fill a dric soil is met	gery (B7) face (B8)  No  gauge, mod	heck all tha	Vater-Staine Aquatic Faurice Aquatic Faurice Advisor Stainer Stainer Stainer Presence of Recent Iron Thin Muck Solution Stainer Stainer Williams of the Community of the Com	na (B13) c Plants (E ulfide Odo izospheres Reduced Reductior surface (C' lell Data (I ain in Rem  ches): ches): photos,	and (C1) s on Living F Iron (C4) n in Tilled Sc (T7) (D9) parks)	wetl	Secondary Ir Surface: Drainage Dry Seas Crayfish Saturatic Stunted FAC-Neu	ndicators (minimum of two required) Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Ohic Position (D2) Itral Test (D5)

			ty/County:	Milwaukee C	County Sampling Date: 04-Au	ıg-14
Applicant/Owner: Wisconsin Department	of Transportation			State:	WI Sampling Point: SP-17	
Investigator(s): Ron Londre, Geof Parish			Section, Tow	nship, Range:	S 19 T 5N R 22E	
Landform (hillslope, terrace, etc.): Toeslo	ope/ditch			Local relief (c	concave, convex, none): concave	
Slope: 0.0% 0.0 • Lat.:			Long.:			
Soil Map Unit Name: Blount silt loam	(RIA) Not bydric					
Are climatic/hydrologic conditions on the s		yes (	● No ○	(If no. e)	xplain in Remarks.)	
Are Vegetation		significantly dis		•	ormal Circumstances" present?  Yes  No	$\mathcal{L}$
		0			ormal officialists prosent.	
Are Vegetation		naturally proble			ded, explain any answers in Remarks.)	
SUMMARY OF FINDINGS - At		wing sam	pling poi	nt locatio	ns, transects, important features, etc.	
Hydrophytic Vegetation Present?	Yes No O			Clad 4		
Hydric Soil Present?	Yes No O			ne Sampled A nin a Wetland		
Wetland Hydrology Present?	Yes ⊙ No ○					
Remarks: This point is located in a roadside of Wetland ID: W-4  VEGETATION - Use scient		nts.	Dominant - Species?	t	us, this point is located in a wetland.	
Tree Stratum (Plot size: 8' x 350'	)	Absolute % Cover	Rel.Strat. Cover	. Indicator Status	Dominance Test worksheet:	
1.		0	0.0%		Number of Dominant Species That are OBL, FACW, or FAC:  1	(A)
2.		0	0.0%			` /
3.		0	0.0%		Total Number of Dominant Species Across All Strata: 1	(B)
4.		0	0.0%			•
5		0	0.0%		Percent of dominant Species That Are OBL, FACW, or FAC: 100.0%	(A/B)
Sapling/Shrub Stratum (Plot size: 8' x	, מחי		= Total Cov	/er		
1.	,,	0	0.0%		Prevalence Index worksheet:  Total % Cover of: Multiply by:	
2.		0	0.0%		Total % Cover of: Multiply by:  OBL species 75 x 1 = 75	i.
3.		0	0.0%		FACW species $\frac{75}{8}$ $\times$ 2 = $\frac{75}{16}$	
4.		0	0.0%		FAC species $0 \times 3 = 0$	
5.		0	0.0%		FACU species 3 x 4 = 12	
Herb Stratum (Plot size: 8' x 10'	)	0	= Total Cov	/er	UPL species 3 x 5 = 15	
1 Typha angustifolia	<b>—</b> ′	75	<b>✓</b> 84.3%	OBL		(B)
2. Solidago sempervirens		8	9.0%	FACW		(-,
3. Daucus carota		3	3.4%	UPL	Prevalence Index = B/A = 1.326	
4. Festuca rubra		3	3.4%	FACU	Hydrophytic Vegetation Indicators:	
5.		0	0.0%		1 - Rapid Test for Hydrophytic Vegetation	
6.		0	0.0%		2 - Dominance Test is > 50%	
		_			<b>У</b> 3 - Prevalence Index is ≤3.0 <sup>1</sup>	
7.			0.0%		I a second of what seems 1 (Dunyida cumu	
8.		0	0.0%		4 - Morphological Adaptations 1 (Provide support data in Remarks or on a separate sheet)	porting
8. 9.		0	0.0%	$\equiv$	<ul> <li>4 - Morphological Adaptations <sup>1</sup> (Provide support data in Remarks or on a separate sheet)</li> <li>Problematic Hydrophytic Vegetation <sup>1</sup> (Explain</li> </ul>	
8.		0 0	0.0% 0.0% 0.0%		data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation <sup>1</sup> (Explain	n)
8. 9.	:50' )	0	0.0%	/er	data in Remarks or on a separate sheet)	n)
8. 9. 10.	150')	0 0	0.0% 0.0% 0.0%	/er	data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation <sup>1</sup> (Explain  Indicators of hydric soil and wetland hydrology be present, unless disturbed or problematic.	n)
8. 9. 10. Woody Vine Stratum (Plot size: 8' x 3	150' )	0 0 0 89	0.0% 0.0% 0.0% Total Cov	/er	data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation <sup>1</sup> (Explain  Indicators of hydric soil and wetland hydrology	n)

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth	Describe to 1	tne aeptn n		nt tne indi edox Feati		iiiiiiiii tiie	absence of indicators.)	
	r (moist)	%	Color (moist)	%	Туре	Loc2	Texture	Remarks
0-7 10YR	3/2	95	7.5YR 5/4	5	С	М	Silty Clay	
7-20 10YR	5/2	60	7.5YR 4/6	5	С	М	Silty Clay	
10YR	4/3	35	'	_				
			· ·					
pe: C=Concentration	D=Depletion	RM=Reduc	red Matrix CS=Cove	red or Coat	ed Sand Gra	nins	Cocation: PL=Pore Lining.	M=Matrix
dric Soil Indicator		i, NW-Nedde	ced Matrix, 65–66ve	rea or coat	ica sana ora			ematic Hydric Soils <sup>3</sup> :
Histosol (A1)			Sandy Gleye	ed Matrix (S	4)			•
Histic Epipedon (A2	)		Sandy Redo	x (S5)			Coast Prairie Redox	(A16)
Black Histic (A3)			Stripped Ma				☐ Dark Surface (S7)	
Hydrogen Sulfide (A			Loamy Muck	xy Mineral (	F1)		☐ Iron Manganese Ma	
Stratified Layers (A	5)		Loamy Gleye	ed Matrix (F	2)		Very Shallow Dark	Surface (TF12)
2 cm Muck (A10)			✓ Depleted Ma	•	•		Other (Explain in Re	emarks)
Depleted Below Dar		1)	Redox Dark	, ,	5)			
Thick Dark Surface	. ,		Depleted Da	`	′		<sup>3</sup> Indicators of hydropl	hytic vegetation and
Sandy Muck Minera			Redox Depre				wetland hydrology	y must be present,
5 cm Mucky Peat or							unless disturbed	or problematic.
strictive Layer (if o	bserved):							
Type: None								
							Hudria Sail Brosant?	V (A) N- (
Depth (inches): <u>NA</u> emarks: il appears to be a ro e criterion for hydri							Hydric Soil Present?	Yes   No
emarks: I appears to be a roe criterion for hydri	c soil is met						Hydric Soil Present?	Yes  No
emarks: I appears to be a roe criterion for hydri  /DROLOGY etland Hydrology In	c soil is met	at this poi	nt.					Yes  No  No  tors (minimum of two required)
emarks: I appears to be a role criterion for hydri  TDROLOGY  etland Hydrology In	c soil is met	at this poi	nt.	ined Leaves	s (B9)			tors (minimum of two required)
Permarks:  I appears to be a receive criterion for hydri  I DROLOGY  Petland Hydrology In mary Indicators (mini)  Surface Water (A1)	c soil is met  ndicators: mum of one is	at this poi	nt.  heck all that apply)  Water-Sta		s (B9)		Secondary Indica	tors (minimum of two required) Cracks (B6)
emarks: I appears to be a recent of the content of	c soil is met  ndicators: mum of one is	at this poi	heck all that apply)  Water-Sta  Aquatic Fa	iuna (B13)	` ,		Secondary Indica Surface Soil (	tors (minimum of two required) Cracks (B6) terns (B10)
Permarks: I appears to be a receive criterion for hydri  POROLOGY  Etland Hydrology In mary Indicators (mini) Surface Water (A1) High Water Table (A) Saturation (A3)	c soil is met  ndicators: mum of one is	at this poi	heck all that apply)  Water-Sta Aquatic Fa	iuna (B13) itic Plants (E	B14)		Secondary Indica Surface Soil ( Drainage Pat	tors (minimum of two required) Cracks (B6) terns (B10) Vater Table (C2)
Permarks:    appears to be a received for hydrical process of the control of the	ndicators: mum of one is	at this poi	heck all that apply)  Water-Sta Aquatic Fa True Aqua	iuna (B13) itic Plants (E Sulfide Odo	B14) or (C1)	Roots (C3)	Secondary Indica Surface Soil ( Drainage Pati Dry Season V	tors (minimum of two required) Cracks (B6) terns (B10) Vater Table (C2) ows (C8)
Permarks:  I appears to be a receive criterion for hydrical process of the criterion for hydrical process of	ndicators: mum of one is	at this poi	heck all that apply)  Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	iuna (B13) itic Plants (E Sulfide Odo	B14) or (C1) es on Living F	Roots (C3)	Secondary Indica  Surface Soil (  Drainage Pat  Dry Season V  Crayfish Burn  Saturation Vis	tors (minimum of two required) Cracks (B6) terns (B10) Vater Table (C2)
PROLOGY  Petland Hydrology Inimary Indicators (minimary Indicators (mini	ndicators: mum of one is	at this poi	heck all that apply)  Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	uuna (B13) utic Plants (B Sulfide Odd Rhizosphere of Reduced	B14) or (C1) es on Living F		Secondary Indica Surface Soil ( Drainage Pat: Dry Season V Crayfish Burn Saturation Vis	tors (minimum of two required) Cracks (B6) terns (B10) Vater Table (C2) ows (C8) sible on Aerial Imagery (C9) ressed Plants (D1)
PROLOGY  TOROLOGY  TOROLOG	ndicators: mum of one is	at this poi	heck all that apply)  Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence (	uuna (B13) utic Plants (B Sulfide Odd Rhizosphere of Reduced	B14) or (C1) es on Living F Iron (C4) n in Tilled Sc		Secondary Indica  Surface Soil (  Drainage Pat:  Dry Season V  Crayfish Burn  Saturation Vis  Stunted or St	tors (minimum of two required) Cracks (B6) terns (B10) Vater Table (C2) ows (C8) sible on Aerial Imagery (C9) ressed Plants (D1) Position (D2)
PROLOGY  TOROLOGY  Setland Hydrology In mary Indicators (mining of the set of	ndicators: mum of one is  (B2)  (B4)	at this points	heck all that apply)  Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence o	una (B13) utic Plants (I Sulfide Odc Rhizosphere of Reduced on Reduction Surface (C	B14) or (C1) os on Living F Iron (C4) n in Tilled Sc 7)		Secondary Indica Surface Soil ( Drainage Pat Dry Season V Crayfish Burn Saturation Vis Stunted or St	tors (minimum of two required) Cracks (B6) terns (B10) Vater Table (C2) ows (C8) sible on Aerial Imagery (C9) ressed Plants (D1) Position (D2)
marks: appears to be a reconstruction for hydrical distribution for hy	ndicators: mum of one is A2) (B2) B4)	at this points at this points at this points at this points are the second at this points at the points	heck all that apply)  Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Garage or Thin Muck	una (B13) itic Plants (I Sulfide Odc Rhizosphere of Reduced on Reduction Surface (C Well Data (I	B14) or (C1) ss on Living F Iron (C4) n in Tilled Sc 7)		Secondary Indica Surface Soil ( Drainage Pat Dry Season V Crayfish Burn Saturation Vis Stunted or St	tors (minimum of two required) Cracks (B6) terns (B10) Vater Table (C2) ows (C8) sible on Aerial Imagery (C9) ressed Plants (D1) Position (D2)
Property of the control of the contr	ndicators: mum of one is A2) (B2) B4)	at this points at this points at this points at this points are the second at this points at the points	heck all that apply)  Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Garage or Thin Muck	una (B13) utic Plants (I Sulfide Odc Rhizosphere of Reduced on Reduction Surface (C	B14) or (C1) ss on Living F Iron (C4) n in Tilled Sc 7)		Secondary Indica Surface Soil ( Drainage Pat Dry Season V Crayfish Burn Saturation Vis Stunted or St	tors (minimum of two required) Cracks (B6) terns (B10) Vater Table (C2) ows (C8) sible on Aerial Imagery (C9) ressed Plants (D1) Position (D2)
Pemarks: I appears to be a rece criterion for hydrical procession of the procession	ndicators: mum of one is A2) (B2) B4) on Aerial Imag Concave Surf	s required; c	heck all that apply)  Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence of Recent Iro Gauge or Other (Exp	una (B13) itic Plants (I Sulfide Odc Rhizosphere of Reduced on Reduction Surface (C Well Data (I	B14) or (C1) ss on Living F Iron (C4) n in Tilled Sc 7)		Secondary Indica Surface Soil ( Drainage Pat Dry Season V Crayfish Burn Saturation Vis Stunted or St	tors (minimum of two required) Cracks (B6) terns (B10) Vater Table (C2) ows (C8) sible on Aerial Imagery (C9) ressed Plants (D1) Position (D2)
Properties of the content of the con	ndicators: mum of one is  A2)  (B2)  B4)  A Aerial Imag  Concave Surf	s required; c	heck all that apply)  Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence o Recent Iro Thin Muck Gauge or Other (Exp	una (B13) utic Plants (E Sulfide Odc Rhizosphere of Reduced on Reduction Surface (C Well Data (E Data)	B14) or (C1) ss on Living F Iron (C4) n in Tilled Sc 7)		Secondary Indica Surface Soil ( Drainage Pat Dry Season V Crayfish Burn Saturation Vis Stunted or St	tors (minimum of two required) Cracks (B6) terns (B10) Vater Table (C2) ows (C8) sible on Aerial Imagery (C9) ressed Plants (D1) Position (D2)
rDROLOGY  etland Hydrology Ir imary Indicators (Mini Surface Water (A1) High Water Table (A) Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust (Iron Deposits (B5) Inundation Visible of	ndicators: mum of one is A2) (B2) B4) on Aerial Imag Concave Surf	s required; c	heck all that apply)  Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence o Recent Iro Thin Muck Gauge or Other (Exp	uuna (B13) utic Plants (I Sulfide Odc Rhizosphere of Reduced on Reduction Surface (C Well Data (I olain in Rem	B14) or (C1) ss on Living F Iron (C4) n in Tilled Sc 7)	pils (C6)	Secondary Indica  Surface Soil (  Drainage Pati  Dry Season V  Crayfish Burn  Saturation Vis  Stunted or St  Geomorphic I	tors (minimum of two required) Cracks (B6) terns (B10) Vater Table (C2) ows (C8) sible on Aerial Imagery (C9) ressed Plants (D1) Position (D2) Test (D5)
PROLOGY  Control of the process of t	dicators: mum of one is  A2)  (B2)  B4)  on Aerial Imag  Concave Surf	gery (B7) Face (B8)  No	heck all that apply)  Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence o Recent Iro Gauge or Other (Exp	una (B13) tic Plants (I Sulfide Odo Rhizosphere of Reduced on Reduction Surface (C Well Data (I blain in Rem anches):	B14) or (C1) ss on Living F Iron (C4) n in Tilled Sc 7)	pils (C6)	Secondary Indica Surface Soil ( Drainage Pat Dry Season V Crayfish Burn Saturation Vis Stunted or St	tors (minimum of two required) Cracks (B6) terns (B10) Vater Table (C2) ows (C8) sible on Aerial Imagery (C9) ressed Plants (D1) Position (D2)
PROLOGY  Part and Hydrology In the mary Indicators (Minimury Indicators	c soil is met  idicators: mum of one is  A2)  (B2)  B4)  on Aerial Imag  Concave Surf  Yes  Yes  (B2)	gery (B7) Cace (B8) No ONO	heck all that apply)  Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence of Recent Iro Gauge or Other (Exp	uuna (B13) titic Plants (I Sulfide Odo Rhizosphere of Reduced on Reduction Surface (C Well Data (I olain in Rem onches): onches):	B14) or (C1) ss on Living F Iron (C4) n in Tilled Sc 7) D9) narks)	wetl	Secondary Indica Surface Soil ( Drainage Pati Dry Season V Crayfish Burn Saturation Vis Stunted or St Geomorphic I FAC-Neutral	tors (minimum of two required) Cracks (B6) terns (B10) Vater Table (C2) ows (C8) sible on Aerial Imagery (C9) ressed Plants (D1) Position (D2) Test (D5)
pemarks: appears to be a rule criterion for hydrical properties of the criterion present? Control of the criterion for the criterion present? Control of the criterion for hydrical present present present.  Control of the criterion for hydrical present present present present.  Control of the criterion for hydrical present present present present present.	ndicators: mum of one is  A2)  (B2)  B4)  on Aerial Imag Concave Surf  Yes  Yes  1  ata (stream	gery (B7) Face (B8)  No agauge, mo	heck all that apply)  Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence of Recent Iro Gauge or of Other (Exp	suna (B13) stic Plants (I Sulfide Odo Rhizosphere of Reduced on Reduction Surface (C Well Data (I olain in Rem onches): onches): onches): onches): onches):	B14) or (C1) is on Living F Iron (C4) in in Tilled Sc 7) D9) narks)	wetl	Secondary Indica Surface Soil ( Drainage Pati Dry Season V Crayfish Burn Saturation Vis Stunted or St Geomorphic I FAC-Neutral	tors (minimum of two required) Cracks (B6) terns (B10) Vater Table (C2) ows (C8) sible on Aerial Imagery (C9) ressed Plants (D1) Position (D2) Test (D5)
PROLOGY  Stland Hydrology In mary Indicators (Minimary Indicators (Minim	ndicators: mum of one is  A2)  (B2)  B4)  on Aerial Imag Concave Surf  Yes  Yes  1  ata (stream	gery (B7) Face (B8)  No agauge, mo	heck all that apply)  Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence of Recent Iro Gauge or of Other (Exp	suna (B13) stic Plants (I Sulfide Odo Rhizosphere of Reduced on Reduction Surface (C Well Data (I olain in Rem onches): onches): onches): onches): onches):	B14) or (C1) is on Living F Iron (C4) in in Tilled Sc 7) D9) narks)	wetl	Secondary Indica Surface Soil ( Drainage Pati Dry Season V Crayfish Burn Saturation Vis Stunted or St Geomorphic I FAC-Neutral	tors (minimum of two required) Cracks (B6) terns (B10) Vater Table (C2) ows (C8) sible on Aerial Imagery (C9) ressed Plants (D1) Position (D2) Test (D5)
Property of the property of th	c soil is met  ndicators: mum of one is  A2)  (B2)  B4)  on Aerial Imag  Concave Surf  Yes  Yes  1  Area  ONR WWI r	gery (B7) Sace (B8)  No Q No Q gauge, mol	heck all that apply)  Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence of Recent Iro Thin Muck Gauge or Other (Exp	nuna (B13) stic Plants (I Sulfide Odo Rhizosphere of Reduced on Reduction Surface (C Well Data (I oblain in Rem nches): nches): al photos, raphic ma	B14) or (C1) is on Living F Iron (C4) in in Tilled Sc 7) D9) harks)  previous in	wetl	Secondary Indica Surface Soil ( Drainage Pati Dry Season V Crayfish Burn Saturation Vis Stunted or St Geomorphic I FAC-Neutral	tors (minimum of two required) Cracks (B6) terns (B10) Vater Table (C2) ows (C8) sible on Aerial Imagery (C9) ressed Plants (D1) Position (D2) Test (D5)

Project/Site: IH 94 (N-S Freeway)		Cit	y/County:	Milwaukee C	ounty	Sampling Date:	04-Aug-14
Applicant/Owner: Wisconsin Departmer	nt of Transportation			State:	_WISam	pling Point:	SP-18
Investigator(s): Ron Londre, Geof Paris	h	S	Section, Town	ship, Range:	s 19 T 5N	R 22E	
Landform (hillslope, terrace, etc.): Toes	slope/ditch				oncave, convex, none):	concave	_
Slope: 0.0% 0.0 • Lat.:						Datum:	
			Long.:		\A(\A(\) - \ \. \. \. \. \. \. \. \. \. \. \. \. \.		
Soil Map Unit Name: Ashkum silty c		., (	● No ○	/If no ov	plain in Remarks.)	cation: None	
Are climatic/hydrologic conditions on the		year:		•		esent? Yes	● No ○
Are Vegetation , Soil	<u></u>	significantly dist		Are "No	ormal Circumstances" pre	esent? Yes	S NO C
Are Vegetation, Soil	, or Hydrology	naturally proble	matic?	(If nee	ded, explain any answer	s in Remarks.)	
SUMMARY OF FINDINGS - A	Attach site map sho	wing samp	oling poin	t locatio	ns, transects, im	portant feature	s, etc.
Hydrophytic Vegetation Present?	Yes  No						
Hydric Soil Present?	Yes  No O			Sampled A	rea		
	Yes  No O		withir	n a Wetland	l? Yes ● No C	)	
Wetland Hydrology Present?	163 0 100 0						
Remarks: This point is located in a roadside	ditch All three paramet	ars have hee	n mat at this	s noint Thi	is this point is locate	d in a watland	
Wetland ID: W-5	ulteri. Ali triree paramet	ers nave beer	ii iiiet at tiii:	s point. The	as, triis point is locate	u iii a wetianu.	
<b>VEGETATION</b> - Use scie	entific names of pla	nts.	Dominant Species?				
T 0: (Dist.: 201v.150)	,	Absolute	Rel.Strat.		Dominance Test wo	rksheet:	
Tree Stratum (Plot size: 20' x 150'	)	% Cover	Cover	Status	Number of Dominant		2 (1)
1		0 0	0.0%		That are OBL, FACW,	or FAC:	2 (A)
3		0	0.0%		Total Number of Dom		2 (0)
4.		0	0.0%		Species Across All Stra	ata:	2 (B)
5.		0	0.0%		Percent of dominar		20.00/ (4./5)
		0	= Total Cove	r	That Are OBL, FAC	W, or FAC:	00.0% (A/B)
Sapling/Shrub Stratum (Plot size: 20	)' x 35')				Prevalence Index w	orksheet:	
1		0	0.0%		Total % Cove	r of: Multiply I	oy:
2		0	0.0%		OBL species	60 x 1 =	60
3			0.0%		FACW species	20 x 2 =	40
4. 5.		0	0.0%		FAC species	0 x 3 =	0
J			0.0%		FACU species	0 x 4 =	0
Herb Stratum (Plot size: 5' r	)		= Total Cove	1	UPL species	0 x 5 =	0
1. Typha angustifolia			<b>✓</b> 37.5%	OBL	Column Totals:	80 (A)	(B)
2. Typha X glauca		30	<b>✓</b> 37.5%	OBL	Prevalence Ind	ex = B/A =	.250
3. Euthamia graminifolia		15	18.8%	FACW	Hydrophytic Vegeta	tion Indicators:	
4. Phalaris arundinacea 5.		5	6.3%	FACW	✓ 1 - Rapid Test fo	or Hydrophytic Vege	tation
6.		0 0	0.0%		<b>✓</b> 2 - Dominance T	est is > 50%	
7.		0	0.0%		<b>✓</b> 3 - Prevalence I	ndex is ≤3.0 <sup>1</sup>	
8.		0	0.0%		4 - Morphologica	al Adaptations <sup>1</sup> (Pr	ovide supporting
9.		0	0.0%			or on a separate sn Irophytic Vegetation	
10.		0	0.0%				,
Woody Vine Stratum (Plot size: 20'	x 150'	80	= Total Cove			ric soil and wetland disturbed or problen	
1.		0	0.0%				
2.		0	0.0%		Hydrophytic		
-		0	= Total Cove	·	Vegetation Present? Ye	s • No O	
			7.2. 0070		-		
Remarks: (Include photo numbers	s here or on a separate s	sheet.)					
This point is located in a shallow r		,					
The criterion for hydrophytic vege		it.					

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth Matrix			dox Featu		nirm the	absence of indicators.)			
(inches) Color (moist)	%	Color (moist)	%	Type	Loc2	Texture	Remarks		
0-10 10YR 3/1	92	7.5YR 5/6	5	С	M	Silty Clay Loam			
		7.5YR 4/4	3	С	М				
10-20 10YR 5/2	70	7.5YR 5/6	20	С	М	Silty Clay Loam			
10YR 2/1	10								
			-						
		<del></del>	-						
rpe: C=Concentration, D=Depletion	n RM=Reduced	I Matrix CS=Covere	ed or Coate	ed Sand Gra	ns	Location: PL=Pore Lining. M=	=Matrix		
dric Soil Indicators:	II, IIII Reddeed	i Matrix, 00 00ver	od or oddit	sa sana sna	110.	Indicators for Problem			
Histosol (A1)		Sandy Gleyed	Matrix (S4	1)			-		
Histic Epipedon (A2)		☐ Sandy Redox	(S5)			Coast Prairie Redox (A	A16)		
Black Histic (A3)		Stripped Matr	ix (S6)			☐ Dark Surface (S7)	(=, -)		
Hydrogen Sulfide (A4)		Loamy Mucky	Mineral (F	1)		☐ Iron Manganese Mass	` '		
Stratified Layers (A5)		Loamy Gleyed	d Matrix (F	2)		☐ Very Shallow Dark Sui	` '		
2 cm Muck (A10)		☐ Depleted Mat	rix (F3)			Other (Explain in Rem	narks)		
Depleted Below Dark Surface (A	11)	Redox Dark S	urface (F6	)					
Thick Dark Surface (A12)		Depleted Dark	k Surface (	F7)		<sup>3</sup> Indicators of hydrophyt	tic vegetation and		
Sandy Muck Mineral (S1)		Redox Depres	ssions (F8)			wetland hydrology n	nust be present,		
5 cm Mucky Peat or Peat (S3)						unless disturbed or	problematic.		
estrictive Layer (if observed):									
Type: None						Hydric Soil Present?	Yes   No		
Depth (inches): NA		_				Tryanc bon Frebenc.			
e criterion for hydric soil is me	and thus distu t at this point.								
YDROLOGY									
YDROLOGY etland Hydrology Indicators: imary Indicators (minimum of one	t at this point.					Secondary Indicator	s (minimum of two required)		
YDROLOGY etland Hydrology Indicators:	t at this point.		ed Leaves	(B9)		Secondary Indicator  Surface Soil Cra			
<b>/DROLOGY</b> etland Hydrology Indicators: imary Indicators (minimum of one	t at this point.	ck all that apply)		(B9)			icks (B6)		
PROLOGY etland Hydrology Indicators: imary Indicators (minimum of one) Surface Water (A1)	t at this point.	ck all that apply)  Water-Stain  Aquatic Fau  True Aquati	ina (B13) c Plants (B	314)		Surface Soil Cra	ns (B10)		
rDROLOGY  etland Hydrology Indicators: imary Indicators (minimum of one  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)	t at this point.	ck all that apply)  Water-Stair  Aquatic Fau	ina (B13) c Plants (B	314)		Surface Soil Cra	ns (B10) ter Table (C2)		
rDROLOGY  etland Hydrology Indicators: imary Indicators (minimum of one  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)	t at this point.	ck all that apply)  Water-Stain  Aquatic Fau  True Aquati  Hydrogen S	ina (B13) c Plants (B sulfide Odo	314)	oots (C3)	Surface Soil Cra Drainage Patter Dry Season Wat Crayfish Burrow Saturation Visib	icks (B6) ns (B10) ter Table (C2) rs (C8) le on Aerial Imagery (C9)		
POROLOGY  etland Hydrology Indicators: imary Indicators (minimum of one  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)	t at this point.	ck all that apply)  Water-Stain  Aquatic Fau  True Aquati  Hydrogen S  Oxidized Rh	ina (B13) ic Plants (B sulfide Odo nizospheres Reduced	s14) r (C1) s on Living R Iron (C4)		Surface Soil Cra Drainage Patter Dry Season Wat Crayfish Burrow Saturation Visib Stunted or Stres	icks (B6) ns (B10) ter Table (C2) is (C8) le on Aerial Imagery (C9) issed Plants (D1)		
POROLOGY  etland Hydrology Indicators: imary Indicators (minimum of one)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)	t at this point.	ck all that apply)  Water-Stain  Aquatic Fau  True Aquati  Hydrogen S  Oxidized Rh	ina (B13) ic Plants (B sulfide Odo nizospheres Reduced	s14) r (C1) s on Living R		Surface Soil Cra Drainage Patter Dry Season Wai Crayfish Burrow Saturation Visib Stunted or Street	icks (B6) ins (B10) ter Table (C2) is (C8) le on Aerial Imagery (C9) issed Plants (D1) sition (D2)		
etland Hydrology Indicators: imary Indicators (minimum of one)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)	t at this point.	ck all that apply)  Water-Stain  Aquatic Fau  True Aquati  Hydrogen S  Oxidized Rh	ina (B13) c Plants (B culfide Odo nizospheres f Reduced n Reduction	s14) r (C1) s on Living R Iron (C4) n in Tilled Sc		Surface Soil Cra Drainage Patter Dry Season Wat Crayfish Burrow Saturation Visib Stunted or Stres	icks (B6) ins (B10) ter Table (C2) is (C8) le on Aerial Imagery (C9) issed Plants (D1) sition (D2)		
PROLOGY  etland Hydrology Indicators: imary Indicators (minimum of one)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Image	t at this point.	ck all that apply)  Water-Stain  Aquatic Fau  True Aquati  Hydrogen S  Oxidized Rh  Presence of  Recent Iror	ina (B13) c Plants (B sulfide Odo nizospheres f Reduced n Reduction Surface (C7	s14) r (C1) s on Living F Iron (C4) n in Tilled Sc		Surface Soil Cra Drainage Patter Dry Season Wai Crayfish Burrow Saturation Visib Stunted or Street	icks (B6) ins (B10) ter Table (C2) is (C8) le on Aerial Imagery (C9) issed Plants (D1) sition (D2)		
POROLOGY  etland Hydrology Indicators: imary Indicators (minimum of one)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)	t at this point.	ck all that apply)  Water-Stain  Aquatic Fau  True Aquati  Hydrogen S  Oxidized Rh  Presence of  Recent Iror  Thin Muck S	ina (B13) c Plants (B dulfide Odo nizospheres Reduced n Reduction Surface (C7 /ell Data (E	s14) r (C1) s on Living R Iron (C4) n in Tilled Sc 7)		Surface Soil Cra Drainage Patter Dry Season Wai Crayfish Burrow Saturation Visib Stunted or Street	icks (B6) ins (B10) ter Table (C2) is (C8) le on Aerial Imagery (C9) issed Plants (D1) sition (D2)		
etland Hydrology Indicators: imary Indicators (minimum of one  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imag  Sparsely Vegetated Concave Sur	t at this point.	ck all that apply)  Water-Stain  Aquatic Fau  True Aquati  Hydrogen S  Oxidized Rh  Presence of  Recent Iron  Thin Muck S  Gauge or W	ina (B13) c Plants (B dulfide Odo nizospheres Reduced n Reduction Surface (C7 /ell Data (E	s14) r (C1) s on Living R Iron (C4) n in Tilled Sc 7)		Surface Soil Cra Drainage Patter Dry Season Wai Crayfish Burrow Saturation Visib Stunted or Street	icks (B6) ins (B10) ter Table (C2) is (C8) le on Aerial Imagery (C9) issed Plants (D1) sition (D2)		
etland Hydrology Indicators: imary Indicators (minimum of one)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Image  Sparsely Vegetated Concave Surel	t at this point.  is required; checking the second of the	ck all that apply)  Water-Stain  Aquatic Fau  True Aquati  Hydrogen S  Oxidized Rh  Presence of  Recent Iron  Thin Muck S  Gauge or W  Other (Expl	ina (B13) c Plants (B iulfide Odo nizospheres f Reduced n Reduction Surface (C7 /ell Data (E	s14) r (C1) s on Living R Iron (C4) n in Tilled Sc 7)		Surface Soil Cra Drainage Patter Dry Season Wai Crayfish Burrow Saturation Visib Stunted or Street	icks (B6) ins (B10) ter Table (C2) is (C8) le on Aerial Imagery (C9) issed Plants (D1) sition (D2)		
etland Hydrology Indicators: imary Indicators (minimum of one imar	t at this point.  is required; check gery (B7) face (B8)  No •	ck all that apply)  Water-Stair Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of Recent Iror Thin Muck S Gauge or W Other (Expl	ina (B13) c Plants (B culfide Odo aizospheres Reduced a Reduction Surface (C7 /ell Data (E ain in Rem	s14) r (C1) s on Living R Iron (C4) n in Tilled Sc 7)		Surface Soil Cra Drainage Patter Dry Season Wai Crayfish Burrow Saturation Visib Stunted or Street	icks (B6) ins (B10) ter Table (C2) is (C8) le on Aerial Imagery (C9) issed Plants (D1) sition (D2)		
etland Hydrology Indicators: imary Indicators (minimum of one  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Image  Sparsely Vegetated Concave Sur  eld Observations: urface Water Present?  Yes  ater Table Present?  Yes	t at this point.  is required; check gery (B7) face (B8)  No  No  No	ck all that apply)  Water-Stain  Aquatic Fau  True Aquati  Hydrogen S  Oxidized Rh  Presence of  Recent Iron  Thin Muck S  Gauge or W  Other (Expl	ina (B13) c Plants (B culfide Odo aizospheres Reduced a Reduction Surface (C7 /ell Data (E ain in Rem	s14) r (C1) s on Living R Iron (C4) n in Tilled Sc 7)	ils (C6)	Surface Soil Cra Drainage Patter Dry Season Wai Crayfish Burrow Saturation Visib Stunted or Street	icks (B6) ins (B10) ter Table (C2) is (C8) le on Aerial Imagery (C9) issed Plants (D1) sition (D2)		
etland Hydrology Indicators: imary Indicators (minimum of one imar	t at this point.  is required; check gery (B7) face (B8)  No  No  No	ck all that apply)  Water-Stair Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of Recent Iror Thin Muck S Gauge or W Other (Expl	ina (B13) c Plants (B iulfide Odo nizospheres Reduced n Reduction Surface (C7 /ell Data (D ain in Rem	s14) r (C1) s on Living R Iron (C4) n in Tilled Sc 7)	ils (C6)	Surface Soil Cra Drainage Patter Dry Season Wai Crayfish Burrow Saturation Visib Stunted or Stres Geomorphic Pos	icks (B6) ins (B10) ter Table (C2) is (C8) le on Aerial Imagery (C9) issed Plants (D1) sition (D2) st (D5)		
etland Hydrology Indicators: imary Indicators (minimum of one  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Image Sparsely Vegetated Concave Sur  eld Observations: urface Water Present?  Yes ater Table Present?  Yes ater Table Present?	gery (B7) face (B8)  No •  No •	ck all that apply)  Water-Stair Aquatic Fau True Aquati Hydrogen S Oxidized Rr Presence of Recent Iror Thin Muck S Gauge or W Other (Expl	ina (B13) c Plants (B culfide Odo alzospheres Reduced a Reduction Surface (C7 /ell Data (E ain in Rem ches):	s14) r (C1) s on Living F Iron (C4) n in Tilled Sc 7) 29) arks)	weti	Surface Soil Cra Drainage Patter Dry Season Wai Crayfish Burrow Saturation Visib Stunted or Stres Geomorphic Pos FAC-Neutral Tes	icks (B6) ins (B10) ter Table (C2) is (C8) le on Aerial Imagery (C9) issed Plants (D1) sition (D2) st (D5)		
etland Hydrology Indicators: imary Indicators (minimum of one in imary Indicators (Management Indicators)    Surface Water (A1)	gery (B7) face (B8)  No  No  gauge, monit	ck all that apply)  Water-Stain  Aquatic Fau  True Aquati  Hydrogen S  Oxidized Rh  Presence of  Recent Iror  Thin Muck S  Gauge or W  Other (Expl	ina (B13) c Plants (B culfide Odo nizospheres Reduced Reduction Surface (C7 /ell Data (E ain in Rem ches): ches):	previous ir	wetl	Surface Soil Cra Drainage Patter Dry Season Wai Crayfish Burrow Saturation Visib Stunted or Stres Geomorphic Pos FAC-Neutral Tes	icks (B6) ins (B10) ter Table (C2) is (C8) le on Aerial Imagery (C9) issed Plants (D1) sition (D2) st (D5)		
PROLOGY  etland Hydrology Indicators: imary Indicators (minimum of one  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Image Sparsely Vegetated Concave Sur  eld Observations: Irface Water Present?  Yes atter Table Present?  Yes cuturation Present?  Yes escribe Recorded Data (stream	gery (B7) face (B8)  No  No  gauge, monit	ck all that apply)  Water-Stain  Aquatic Fau  True Aquati  Hydrogen S  Oxidized Rh  Presence of  Recent Iror  Thin Muck S  Gauge or W  Other (Expl	ina (B13) c Plants (B culfide Odo nizospheres Reduced Reduction Surface (C7 /ell Data (E ain in Rem ches): ches):	previous ir	wetl	Surface Soil Cra Drainage Patter Dry Season Wai Crayfish Burrow Saturation Visib Stunted or Stres Geomorphic Pos FAC-Neutral Tes	icks (B6) ins (B10) ter Table (C2) is (C8) le on Aerial Imagery (C9) issed Plants (D1) sition (D2) st (D5)		

Project/Site: H 94 (N-S Freeway)	Cit	ty/County:	Milwaukee C	County Sampling Date: 04-Aug-14
Applicant/Owner: Wisconsin Department of Transportation			State:	WI Sampling Point: SP-19
Investigator(s): Ron Londre, Geof Parish		Section, Tow	vnship, Range:	S 30 T 5N R 22E
Landform (hillslope, terrace, etc.): Backslope			Local relief (c	concave, convex, none): convex
Slope: 25.0% 14.0 • Lat.:		Long.:		Datum:
Soil Map Unit Name: Blount silt Ioam (BIA), Not hydric		~		WWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of year	ear? Yes	● No ○	(If no, ex	xplain in Remarks.)
	ignificantly dist		Are "No	ormal Circumstances" present? Yes  No
	aturally proble			eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map show	ving samp	pling poi	nt locatio	ns, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No No				No.
Hydric Soil Present? Yes No			he Sampled A nin a Wetland	
Wetland Hydrology Present? Yes   No   No				
Remarks: This point is located on a hillside seep on the side of a road All three parameters have been met at this point. Thus, the VEGETATION - Use scientific names of plant	nis point is lo	Dominant	t	
Tree Stratum (Plot size: 8' x 250' )	Absolute % Cover	Rel.Strat. Cover	Indicator Status	Dominance Test worksheet:
1	0	0.0%		Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)
2.	0	0.0%		
3.	0	0.0%		Total Number of Dominant Species Across All Strata: 1 (B)
4.		0.0%		
5	0	0.0%		Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
Sapling/Shrub Stratum (Plot size: 8' x 90' )		= Total Cov	√er	
1	0	0.0%		Prevalence Index worksheet:  Total % Cover of: Multiply by:
2.	0	0.0%		OBL species $80 \times 1 = 80$
3.	0	0.0%		FACW species 19 $\times 2 = 38$
4.	0	0.0%		FAC species 3 x 3 = 9
5.	0	0.0%		FACU species 0 x 4 = 0
Herb Stratum (Plot size: 8' x 25' )	0	= Total Cov	ver	UPL species $0 \times 5 = 0$
1 Scirpus atrovirens	60	<b>✓</b> 58.8%	OBL	Column Totals: 102 (A) 127 (B)
2. Schoenoplectus tabernaemontani	15	14.7%		Prevalence Index = B/A = 1.245
3. Phalaris arundinacea	8	7.8%	FACW	
4. Solidago sempervirens	8	7.8%	FACW	Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation
5. Typha angustifolia	5	4.9%	OBL	2 - Dominance Test is > 50%
6. Agrostis gigantea	3	2.9%	FACW	✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
7. Hordeum jubatum 8.	3	2.9%	<u>FAC</u>	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
9.	0	0.0%		data in Remarks or on a separate sheet)
10.	0 0	0.0%		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	102	= Total Cov		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 8' x 250'			VC1	be present, unless disturbed or problematic.
	0	0.0%		Hydrophytic
1		0.0%	Į.	Hydrophydd
1. 2.	0			Vegetation Vac (a) No (
	0	= Total Cov	ver	Vegetation Present? Yes  No
2.	0		ver	
Remarks: (Include photo numbers here or on a separate shape of the	neet.)	= Total Cov		
2.	neet.)	= Total Cov		

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth (inches) Color (m  0-6 10YR  6-20 10YR  ype: C=Concentration, D=	Matrix (1) (1) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	7.5YF 10YR 7.5YF 10YR	Pr (moist) R 4/6 R 5/2 R 5/6	5 30 15	Type C  C  D  C	Loc²	Texture	
6-20 10YR		10YR 7.5YF	R 5/2 R 5/6	30 15	D C	М		Remarks
ype: C=Concentration, D=	5/3 40	7.5YF	R 5/6	15	С		Silty Clay Loam	
3.						М	Sandy Clay Loam	
3.		10YF	R 5/1	15	D	М		
3.						М		
J.								
ydric Soil Indicators:	=Depletion, RM=F	Reduced Matr	rix, CS=Covered	d or Coate	d Sand Grai	<b>1</b> S.	Pocation: PL=Pore Lining. M=N	Matrix.
			Sandy Gleyed N				Indicators for Problema	tic Hydric Soils $^3$ :
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Strick Dark Surface (A12) Sandy Muck Mineral (S1) 5 cm Mucky Peat or Pea	2)		Sandy Redox (C Stripped Matrix Loamy Mucky N Loamy Gleyed Depleted Matri. Redox Dark Su Depleted Dark Redox Depress	x (S6)  Mineral (F  Matrix (F2)  x (F3)  rface (F6)  Surface (I	2)		Coast Prairie Redox (A1 Dark Surface (S7) Iron Manganese Masses Very Shallow Dark Surfa Other (Explain in Remai	s (F12) ace (TF12) rks) vegetation and last be present,
estrictive Layer (if obse							1	
Depth (inches): NA emarks: il appears to be a road: e criterion for hydric so			rbed.					
YDROLOGY								
etland Hydrology Indic	ators:							
etland Hydrology Indicinary Indicators (minimum		ed; check all	that apply)				Secondary Indicators	(minimum of two required)
	m of one is require )  derial Imagery (B7		that apply)  Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron I Thin Muck Su Gauge or We Other (Explain	a (B13) Plants (B Ifide Odor cospheres Reduced I Reduction urface (C7	14) (C1) on Living Reron (C4) in Tilled Soi )	, ,	Surface Soil Crack Drainage Patterns Dry Season Wate Crayfish Burrows	cs (B6) s (B10) r Table (C2) (C8) on Aerial Imagery (C9) ed Plants (D1) ion (D2)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ad	m of one is require )  derial Imagery (B7  ncave Surface (B8		Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron I Thin Muck Su Gauge or We	a (B13) Plants (B Ifide Odor cospheres Reduced I Reduction urface (C7 ell Data (D	14) (C1) on Living Reron (C4) in Tilled Soi )	, ,	Surface Soil Crack Drainage Patterns Dry Season Wate Crayfish Burrows Saturation Visible Stunted or Stress Geomorphic Posit	cs (B6) s (B10) r Table (C2) (C8) on Aerial Imagery (C9) ed Plants (D1) ion (D2)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Action of Sparsely Vegetated Cor	m of one is require  )  derial Imagery (B7  ncave Surface (B8  Yes   N		Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron I Thin Muck Su Gauge or We Other (Explai	a (B13) Plants (B Ifide Odor zospheres Reduced I Reduction urface (C7 III Data (D in in Rema	14) (C1) on Living Reron (C4) in Tilled Soi )	, ,	Surface Soil Crack Drainage Patterns Dry Season Wate Crayfish Burrows Saturation Visible Stunted or Stress Geomorphic Posit	cs (B6) s (B10) r Table (C2) (C8) on Aerial Imagery (C9) ed Plants (D1) ion (D2) (D5)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Action Sparsely Vegetated Coreled Observations: urface Water Present?	n of one is require  erial Imagery (B7 ncave Surface (B8  Yes O N		Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron I Thin Muck Su Gauge or We Other (Explai	a (B13) Plants (B Ifide Odor cospheres Reduced I Reduction urface (C7 in in Remains):  mes):	14) on Living Roron (C4) in Tilled Soi ) 9)	is (C6)	Surface Soil Crack Drainage Patterns Dry Season Wate Crayfish Burrows Saturation Visible Stunted or Stress Geomorphic Posit	cs (B6) s (B10) r Table (C2) (C8) on Aerial Imagery (C9) ed Plants (D1) ion (D2)
imary Indicators (minimur  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Ad  Sparsely Vegetated Cor  eld Observations:  urface Water Present?  ater Table Present?  uturation Present?  notudes capillary fringe)	n of one is required.  (B7)  Acrial Imagery (B7)  Acroave Surface (B8)  Acroave Surface (B8)  Acroave Surface (B8)  Acroave Surface (B8)		Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron I Thin Muck Su Gauge or We Other (Explai	a (B13) Plants (B Ifide Odor zospheres Reduced I Reduction urface (C7 III Data (D in in Remaines):  mes):  mes):	14) (C1) on Living Roron (C4) in Tilled Soi ) 9) arks)	Wetl	Surface Soil Crack Drainage Patterns Dry Season Wate Crayfish Burrows Saturation Visible Stunted or Stress Geomorphic Posit FAC-Neutral Test	cs (B6) s (B10) r Table (C2) (C8) on Aerial Imagery (C9) ed Plants (D1) ion (D2) (D5)
imary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ad Sparsely Vegetated Cor	n of one is required.  (erial Imagery (B7)  ncave Surface (B8)  Yes	No  No  No  No  No  No  No  No  No  No	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron I Thin Muck Su Gauge or We Other (Explai	a (B13) Plants (B Ifide Odor zospheres Reduced I Reduction urface (C7 III Data (D in in Remaines): hes):	14) (C1) on Living Reron (C4) in Tilled Soi ) 9) arks)  O	wetl	Surface Soil Crack Drainage Patterns Dry Season Wate Crayfish Burrows Saturation Visible Stunted or Stress Geomorphic Posit FAC-Neutral Test	cs (B6) s (B10) r Table (C2) (C8) on Aerial Imagery (C9) ed Plants (D1) ion (D2) (D5)

	City/	County:	Milwaukee C	County Sampling Date: 06-Aug-14
Applicant/Owner: Wisconsin Department of Transportation			State:	WI Sampling Point: SP-20
nvestigator(s): Ron Londre, Geof Parish	Se	ction, Towi	nship, Range:	S 19 T 5N R 22E
_andform (hillslope, terrace, etc.): Toeslope/ditch			Local relief (c	concave, convex, none): concave
Slope: 10.0% 5.7 • Lat.:		Long.:		
Soil Map Unit Name: Morley silt loam (MzdC2), Not hydric				WWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of	Fyear? Yes	No O	(If no. ex	xplain in Remarks.)
Are Vegetation $\square$ , Soil $ oldsymbol{\checkmark}$ , or Hydrology $\square$	significantly distu		,	ormal Circumstances" present?  Yes No O
				or damstarious prosent.
Are Vegetation	naturally problem	natic?	(If nee	ded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map sh	owing samp	ing poir	nt locatio	ns, transects, important features, etc.
Hydrophytic Vegetation Present? Yes O No •				
Hydric Soil Present? Yes ○ No ●			e Sampled A in a Wetland	
Wetland Hydrology Present? Yes O No •				
Remarks: This point is located in a steeply sloped roadside ditch. None of the parameters have been met at this point. The  VEGETATION - Use scientific names of plants.	ants.	Dominant Species?	•	Dominance Test worksheet:
Tree Stratum (Plot size: 15' x 190' )	% Cover	Cover	Status	Number of Dominant Species
1	0	0.0%		That are OBL, FACW, or FAC:  0 (A)
2		0.0%		Total Number of Dominant
3		0.0%		Species Across All Strata: 2 (B)
4 5.		0.0%		Percent of dominant Species
J	0 =	= Total Cov	or	That Are OBL, FACW, or FAC: 0.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15' x 50' )		- Total Cov	CI	Prevalence Index worksheet:
1	0	0.0%		Total % Cover of: Multiply by:
2.	0 [	0.0%		OBL species 5 x 1 = 5
3.	0 [	0.0%		FACW species $3 \times 2 = 6$
4.	0	0.0%		FAC species 10 x 3 = 30
5		0.0%		FACU species 105 x 4 = 420
Herb Stratum (Plot size: 5' r )	0 =	= Total Cov	er	UPL species 5 x 5 = 25
1, Festuca rubra	60	46.9%	FACU	Column Totals: <u>128</u> (A) <u>486</u> (B)
2. Symphyotrichum pilosum	20	15.6%	FACU	Prevalence Index = B/A = 3.797
3. Solidago canadensis	15	11.7%	FACU	Hydrophytic Vegetation Indicators:
4. Elymus repens	10	7.8%	FACU	1 - Rapid Test for Hydrophytic Vegetation
	10	7.8%	FAC	
5. Poa pratensis				1 2 - Dominance Test is > 50%
5. Poa pratensis 6. Carex pellita	5	3.9%	OBL	2 - Dominance Test is > 50%  3 - Prevalence Index is ≤3.0 ¹
<ul><li>5. Poa pratensis</li><li>6. Carex pellita</li><li>7. Daucus carota</li></ul>	5 5	3.9%	UPL	3 - Prevalence Index is ≤3.0 ¹
<ul><li>5. Poa pratensis</li><li>6. Carex pellita</li><li>7. Daucus carota</li><li>8. Agrostis gigantea</li></ul>	5 5 3	3.9%		
<ul><li>5. Poa pratensis</li><li>6. Carex pellita</li><li>7. Daucus carota</li></ul>	5 5 3 0	3.9% 2.3% 0.0%	UPL	<ul> <li>3 - Prevalence Index is ≤3.0 <sup>1</sup></li> <li>4 - Morphological Adaptations <sup>1</sup> (Provide supportin</li> </ul>
5. Poa pratensis 6. Carex pellita 7. Daucus carota 8. Agrostis gigantea 9.	5	3.9% 2.3% 0.0%	UPL FACW	<ul> <li>3 - Prevalence Index is ≤3.0 <sup>1</sup></li> <li>4 - Morphological Adaptations <sup>1</sup> (Provide supportin data in Remarks or on a separate sheet)</li> <li>Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)</li> <li><sup>1</sup> Indicators of hydric soil and wetland hydrology must</li> </ul>
5. Poa pratensis 6. Carex pellita 7. Daucus carota 8. Agrostis gigantea 9. 10.  Woody Vine Stratum (Plot size: 15' x 190' )	5	3.9% 2.3% 0.0% 0.0% = Total Cov	UPL FACW	<ul> <li>3 - Prevalence Index is ≤3.0 <sup>1</sup></li> <li>4 - Morphological Adaptations <sup>1</sup> (Provide supportin data in Remarks or on a separate sheet)</li> <li>Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)</li> </ul>
5. Poa pratensis 6. Carex pellita 7. Daucus carota 8. Agrostis gigantea 9. 10.  Woody Vine Stratum (Plot size: 15' x 190' ) 1.	5	3.9% 2.3% 0.0% 0.0% = Total Cov	UPL FACW	3 - Prevalence Index is ≤3.0 <sup>1</sup> 4 - Morphological Adaptations <sup>1</sup> (Provide supportin data in Remarks or on a separate sheet)      Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5. Poa pratensis 6. Carex pellita 7. Daucus carota 8. Agrostis gigantea 9. 10.  Woody Vine Stratum (Plot size: 15' x 190' )	5	3.9% 2.3% 0.0% 0.0% = Total Cov	UPL FACW	<ul> <li>3 - Prevalence Index is ≤3.0 <sup>1</sup></li> <li>4 - Morphological Adaptations <sup>1</sup> (Provide supportin data in Remarks or on a separate sheet)</li> <li>Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)</li> <li><sup>1</sup> Indicators of hydric soil and wetland hydrology must</li> </ul>

Profile Description: (Describe to t Depth Matrix	ne aeptn ne		t tne inai dox Feati		ntirm the	absence of indicators.)	
(inches) Color (moist)	%	Color (moist)	%	Туре	Loc2	Texture	Remarks
0-7 10YR 3/2	100					Silty Clay Loam	
7-20 10YR 5/4	70	10YR 5/6	30	С	М	Silt Loam	
			_				
pe: C=Concentration, D=Depletion,	RM=Reduce	ed Matrix, CS=Covere	ed or Coat	ed Sand Gra	nins.	Eocation: PL=Pore Lining. M	=Matrix.
dric Soil Indicators:						Indicators for Problem	natic Hydric Soils <sup>3</sup> :
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Muck Mineral (S1) 5 cm Mucky Peat or Peat (S3) strictive Layer (if observed):	)	Sandy Gleyed Sandy Redox Stripped Matr Loamy Mucky Loamy Gleyed Depleted Mat Redox Dark S Depleted Dari Redox Depres	(S5) ix (S6) Mineral (Fe) Matrix (Fo) ix (F3) ix (F3) ix (F4) ix (F4) ix (F4)	F1) 2) 6) (F7)		Coast Prairie Redox ( Dark Surface (S7) Iron Manganese Mas Very Shallow Dark Su Other (Explain in Rer  3 Indicators of hydrophy wetland hydrology unless disturbed of	ses (F12)  urface (TF12)  narks)  tic vegetation and must be present,
marks: appears to be a road fill soil ar criterion for hydric soil is not r							
DROLOGY							
etland Hydrology Indicators:							( ) )
imary Indicators (minimum of one is	required; cr			()			rs (minimum of two required)
Surface Water (A1)		☐ Water-Stain		(B9)		Surface Soil Cr	` '
High Water Table (A2)		Aquatic Fau		24.		☐ Drainage Patte	
Saturation (A3)		☐ True Aquati				☐ Dry Season Wa	
Water Marks (B1) Sediment Deposits (B2)		☐ Hydrogen S			Doots (C2)	Crayfish Burrov	, ,
		Oxidized Rh			(C3)		ole on Aerial Imagery (C9)
Drift Deposits (B3) Algal Mat or Crust (B4)		Presence of		n in Tilled So	sile (C4)	Geomorphic Po	ssed Plants (D1)
Iron Deposits (B5)					JIIS (CO)	FAC-Neutral Te	
Inundation Visible on Aerial Image	n. (D7)	☐ Thin Muck S	,	•		FAC-Neutral re	St (D3)
Sparsely Vegetated Concave Surfa		☐ Gauge or W					
eld Observations:		<u> </u>					
rface Water Present? Yes		-1 (	ches):		_		
ater Table Present? Yes	) No €	) Depth (inc	ches):		_		()
turation Present? cludes capillary fringe)  Yes	) No €	Depth (inc	ches):		Wetl	and Hydrology Present?	Yes O No O
escribe Recorded Data (stream g	_	_				s), if available:	
evious delineation, DNR WWI m	ap, NRCS	Soils map, Topogr	aphic ma	p, Aerial p	hotos		
emarks:	dont	nitotion was with t		al ross -			
ised on a WETS analysis, antece ne criterion for hydrology is not i			ı a 110111118	ai range.			

Project/Site: IH 94 (N-S Freeway)		Cit	y/County:	Milwaukee Co	ounty	Sam	pling Date: _	06-Aug-14
Applicant/Owner: Wisconsin Departmen	t of Transportation			State:	WI	Sampling Poin	t:	SP-21
Investigator(s): Ron Londre, Geof Parisl	า	9	Section, Town	ship, Range:	s 19 T	5N R	22E	
Landform (hillslope, terrace, etc.): Toes	lope/ditch		l	Local relief (c	oncave, convex, no	ne): concave	9	_
Slope: 2.0% 1.1 • Lat.:	·		Long.:				atum:	
Soil Map Unit Name: Blount silt loam	(DIA) Not budgio				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	assification: N		
Are climatic/hydrologic conditions on the		Yes (	• No O	(If no ex	plain in Remarks.)	assilication. N	one	
Are Vegetation , Soil		gnificantly dist		•	rmal Circumstances	" procent?	Yes 🤄	No O
	. , , , ,	,				'		110
Are Vegetation, Soil	, or Hydrology 🔲 n	aturally proble	matic'?	(If need	ded, explain any ans	swers in Remar	rks.)	
SUMMARY OF FINDINGS - A	ttach site map show	wing samp	oling poin	t locatio	ns, transects,	important	t features	, etc.
Hydrophytic Vegetation Present?	Yes ● No ○							
Hydric Soil Present?	Yes ● No ○			e Sampled A n a Wetland		- (		
Wetland Hydrology Present?	Yes ● No ○		Within	ii a wedanu	· Yes • N	0 🔾		
Remarks:								
This point is located in a roadside	ditch. All three paramete	rs have beei	n met at thi	s point. Thu	ıs, this point is lo	cated in a we	etland.	
Wetland ID: W-6								
<b>VEGETATION -</b> Use scie	entific names of plan	ıtc.	Dominant					
VEGETATION - OSE SCIE	entine names of plai		Species?	T	B			
Tree Stratum (Plot size: 15' x 190'	)	Absolute % Cover	Rel.Strat. Cover	Indicator Status	Dominance Tes			
1.		0	0.0%		<ul> <li>Number of Domir</li> <li>That are OBL, FA</li> </ul>			1 (A)
2.		0	0.0%		Talah Nasaharan G	D		_
3		0	0.0%		Total Number of Species Across Al			1 (B)
4			0.0%		Danis and a findame	la a a b Cara a la		_
5		0_	0.0%		Percent of dom That Are OBL,			0.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15	5' x 100'		= Total Cove	er				
1.	,	0	0.0%		Prevalence Inde		• Multiply b	M'
2.		0	0.0%		OBL species	90	x 1 =	90
3.		0	0.0%		FACW species		x 2 =	10
4.		0	0.0%		FAC species	0	x 3 =	0
5		0	0.0%		FACU species	5	x 4 =	20
Herb Stratum (Plot size: 5' r	)	0	= Total Cove	er	UPL species	0	x 5 =	0
1. Typha angustifolia		90_	<b>✓</b> 90.0%	OBL	Column Totals	s: <u>100</u>	(A)	120 (B)
2. Vitis riparia		5	5.0%	FACW	Prevalence	Index = B/A	- \ = 1.	200
3. Sonchus arvensis		3	3.0%	FACU	Hydrophytic Ve	netation Indi	cators:	_
4. Cirsium arvense			2.0%	FACU		st for Hydrop		ation
5			0.0%			ce Test is > !		
7.			0.0%		✓ 3 - Prevalen	ce Index is ≤	3.0 <sup>1</sup>	
8.		0 0	0.0%		4 - Morpholo	ogical Adapta	ntions 1 (Pro	vide supporting
9.		0	0.0%			arks or on a s	•	•
10.		0	0.0%			Hydrophytic	-	,
Woody Vine Stratum (Plot size: 15'	x 190'	100	= Total Cove	er	<sup>1</sup> Indicators of be present, unle			ydrology must atic.
1.	, 130	0	0.0%		se present, unit	-35 aistai beu	. J. PIODICING	
2.		0	0.0%		Hydrophytic			
] =:		0	= Total Cove	er	Vegetation Present?	Yes 💿 🛚		
			. 3.2. 0070					
Remarks: (Include photo numbers	s here or on a separate s	neet.)						
This point is located in a shallow r	marsh plant community.							
The criterion for hydrophytic vege	tation is met at this point							

Depth	escribe to t Matrix	пе аертп п	leeaea to a		ox Featu		ntirm the	absence of indicators.)	
	(moist)	%	Color (n		%	Type	Loc <sup>2</sup>	Texture	Remarks
0-7 10YR	4/2	80	7.5YR	4/6	15	С	М	Silty Clay Loam	
10YR	2/1	5							
7-20 7.5YR	5/3	60	7.5YR	6/2	40	D		Silty Clay Loam	
	•					•			
e: C=Concentration, I	D=Depletion	, RM=Reduc	ced Matrix, C	CS=Covere	d or Coate	ed Sand Gra	ins.	Location: PL=Pore Lining. N	=Matrix.
ric Soil Indicators:								Indicators for Probler	natic Hydric Soils <sup>3</sup> :
Histosol (A1) Histic Epipedon (A2)				dy Gleyed		1)		Coast Prairie Redox	(A16)
Black Histic (A3)				dy Redox ( oped Matri:				☐ Dark Surface (S7)	
Hydrogen Sulfide (A4	)		'	'	` '	-1)		☐ Iron Manganese Mas	ses (F12)
Stratified Layers (A5)				my Mucky				Very Shallow Dark Si	urface (TF12)
2 cm Muck (A10)				my Gleyed lleted Matri		∠)		Other (Explain in Ren	marks)
Depleted Below Dark	Surface (A1	1)	_ '	lox Dark Su		)		•	
Thick Dark Surface (A	A12)		=	ox Dark Sc leted Dark	` '	,		3 Indicators of hydrophy	utia vagatati
Sandy Muck Mineral (	(S1)			lox Depress		,		Indicators of hydrophy wetland hydrology	
5 cm Mucky Peat or F	Peat (S3)			on Bopios	3.01.0 (1.0)			unless disturbed of	
strictive Layer (if ob	served):								
Type: None								Hydric Soil Present?	Yes   No
Depth (inches): NA									
emarks: I appears to be a roa e criterion for hydric									
l appears to be a roa	soil is met	at this poi	nt.	: apply)					rs (minimum of two required)
appears to be a roa e criterion for hydric DROLOGY	soil is met	at this poi	nt.	apply) (ater-Staine	ed Leaves	(B9)			
appears to be a roa criterion for hydric  DROLOGY  tland Hydrology Inc. mary Indicators (minim	soil is met	at this poi	nt.	11 37		(B9)		Secondary Indicato	acks (B6)
appears to be a roa criterion for hydric  DROLOGY  tland Hydrology Indinary Indicators (minim Surface Water (A1) High Water Table (A2)	soil is met	at this poi	nt.	ater-Staine	na (B13)	, ,		Secondary Indicate	acks (B6) rns (B10)
appears to be a roa criterion for hydric  DROLOGY  tland Hydrology Indinary Indicators (minim Surface Water (A1) High Water Table (A2)	soil is met	at this poi	heck all that	ater-Staine	na (B13) : Plants (B	314)		Secondary Indicato	acks (B6) rns (B10) ater Table (C2)
appears to be a roa criterion for hydric  DROLOGY  tland Hydrology Indicators (minimal Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B	soil is met	at this poi	heck all that	ater-Staine quatic Faur ue Aquatic ydrogen Su xidized Rhi	na (B13) : Plants (B ulfide Odo zospheres	314) r (C1) s on Living R	coots (C3)	Secondary Indicate  Surface Soil Cr Drainage Patte  Dry Season Wa Crayfish Burror Saturation Visi	acks (B6) rns (B10) ater Table (C2) ws (C8) ole on Aerial Imagery (C9)
appears to be a roa criterion for hydric  DROLOGY  tland Hydrology Indicators (minimal Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3)	licators: um of one is	at this poi	heck all that	ater-Staine quatic Faur rue Aquatic ydrogen Su	na (B13) : Plants (B ulfide Odo zospheres	314) r (C1) s on Living R	Poots (C3)	Secondary Indicate  Surface Soil Cr Drainage Patte  Dry Season Wa Crayfish Burror Saturation Visi	acks (B6) rns (B10) ater Table (C2) ws (C8)
appears to be a roacriterion for hydric  DROLOGY  tland Hydrology Indicators (minim  Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B-	licators: um of one is	at this poi	heck all that  W Ac Tr Hy	ater-Staine quatic Faur rue Aquatic ydrogen Su xidized Rhi resence of	na (B13) : Plants (B ulfide Odo zospheres Reduced	314) r (C1) s on Living R		Secondary Indicato Surface Soil Cr Drainage Patte Dry Season Wa Crayfish Burro Saturation Visi Stunted or Stre Geomorphic Po	acks (B6) rns (B10) ater Table (C2) ws (C8) bole on Aerial Imagery (C9) essed Plants (D1) bosition (D2)
appears to be a roa criterion for hydric  DROLOGY  tland Hydrology Indianary Indicators (minim  Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5)	licators: um of one is 2)	at this poi	heck all that  W Ac Tr Hy O;	ater-Staine quatic Faur rue Aquatic ydrogen Su xidized Rhi resence of	na (B13) : Plants (B ulfide Odo zospheres Reduced Reduction	s14) r (C1) s on Living R Iron (C4) n in Tilled Sc		Secondary Indicato Surface Soil Cr Drainage Patte Dry Season Wa Crayfish Burror Saturation Visi Stunted or Stro	acks (B6) rns (B10) ater Table (C2) ws (C8) bole on Aerial Imagery (C9) essed Plants (D1) bosition (D2)
DROLOGY  tland Hydrology Indiany Indicators (minim Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on	soil is met licators: um of one is 2) 4) Aerial Image	at this point at the point at the point at the point at the point at this point at this point at the poin	theck all that  W Ac Tr Hy Re	vater-Staine quatic Faur rue Aquatic ydrogen Su xidized Rhi resence of ecent Iron	na (B13) Plants (B Ulfide Odo zospheres Reduced Reduction urface (C7	s14) r (C1) s on Living F Iron (C4) n in Tilled Sc		Secondary Indicato Surface Soil Cr Drainage Patte Dry Season Wa Crayfish Burro Saturation Visi Stunted or Stre Geomorphic Po	acks (B6) rns (B10) ater Table (C2) ws (C8) bole on Aerial Imagery (C9) essed Plants (D1) bosition (D2)
DROLOGY  Change Indicators (Manual Marks (Manual Manual Ma	soil is met licators: um of one is 2) 4) Aerial Image	at this point at the point at the point at the point at the point at this point at this point at the poin	heck all that  W Ac Tr Hy Co Pr Ref	dater-Staine quatic Faur rue Aquatic ydrogen Su xidized Rhi resence of ecent Iron hin Muck Si	na (B13)  Plants (Bulfide Odo  zospheres  Reduced  Reduction  urface (C7  ell Data (E	s14) r (C1) s on Living R Iron (C4) n in Tilled Sc 7)		Secondary Indicato Surface Soil Cr Drainage Patte Dry Season Wa Crayfish Burro Saturation Visi Stunted or Stre Geomorphic Po	acks (B6) rns (B10) ater Table (C2) ws (C8) bole on Aerial Imagery (C9) essed Plants (D1) bosition (D2)
appears to be a roa criterion for hydric  DROLOGY  tland Hydrology Indicators (minimal surface Water (A1)) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C	soil is met licators: um of one is 2) 4) Aerial Image	at this point at the point at the point at the point at the point at this point at this point at the poin	heck all that  W Ac Tr Hy Co Pr Ref	dater-Stained quatic Faurue Aquatic Faurue Aquatic ydrogen Suxidized Rhi resence of ecent Iron hin Muck Stauge or Weature Faurue	na (B13)  Plants (Bulfide Odo  zospheres  Reduced  Reduction  urface (C7  ell Data (E	s14) r (C1) s on Living R Iron (C4) n in Tilled Sc 7)		Secondary Indicato Surface Soil Cr Drainage Patte Dry Season Wa Crayfish Burro Saturation Visi Stunted or Stre Geomorphic Po	acks (B6) rns (B10) ater Table (C2) ws (C8) bole on Aerial Imagery (C9) essed Plants (D1) bosition (D2)
appears to be a roa criterion for hydric  DROLOGY  Itland Hydrology Indianary Indicators (minim  Surface Water (A1)  High Water Table (A2) Saturation (A3)  Water Marks (B1) Sediment Deposits (B3)  Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C	soil is met licators: um of one is 2) 4) Aerial Image	ery (B7)	heck all that  W Ac Tr Hy Or Pr Re Gr	dater-Stained quatic Faurue Aquatic Faurue Aquatic ydrogen Suxidized Rhi resence of ecent Iron hin Muck Stauge or Weature Faurue	na (B13)  Plants (Bulfide Odo zospheres Reduced Reductior urface (Callell Data (Eall Dat	s14) r (C1) s on Living R Iron (C4) n in Tilled Sc 7)		Secondary Indicato Surface Soil Cr Drainage Patte Dry Season Wa Crayfish Burro Saturation Visi Stunted or Stre Geomorphic Po	acks (B6) rns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) bition (D2)
appears to be a roal acriterion for hydric acriterion for hydrical	licators: sum of one is 2) 4) Aerial Image	ery (B7) ace (B8)	heck all that  W AG Tr Hy Co:	dater-Staine quatic Faurue Aquatic Faurue Aquatic ydrogen Suxidized Rhi resence of ecent Iron hin Muck Stauge or Wether (Expla	na (B13) It Plants (Bulfide Odo Zospheres Reduced Reduction urface (C7 ell Data (Dinin in Rem	s14) r (C1) s on Living R Iron (C4) n in Tilled Sc 7) 209) arks)		Secondary Indicato Surface Soil Cr Drainage Patte Dry Season Wa Crayfish Burro Saturation Visi Stunted or Stre Geomorphic Po	acks (B6) rns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) bition (D2) est (D5)
appears to be a roal acriterion for hydric acriterion for hydric acriterion for hydric appears to be a roal acriterion for hydric ac	licators: um of one is  2)  Aerial Image concave Surfa	ery (B7) ace (B8)  No (	heck all that  W AG Tr Hy GG GG	dater-Staine quatic Faur Aquatic Faur Aquatic ydrogen Suxidized Rhi resence of ecent Iron hin Muck Stauge or Wether (Expla	na (B13)  Plants (Bulfide Odo zospheres Reduced Reduction urface (C7 ell Data (Bultin in Rem hes):	st14) r (C1) s on Living F Iron (C4) n in Tilled Sc 7) 109) arks)	ils (C6)	Secondary Indicato Surface Soil Cr Drainage Patte Dry Season Wa Crayfish Burro Saturation Visi Stunted or Stre Geomorphic Po	acks (B6) rns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) bition (D2)
appears to be a roal criterion for hydric arciterion arciterion arciterion arciterion arciterion arciterion for hydric arciterion fo	licators: um of one is  2)  Aerial Image concave Surfa  Yes  Yes  Yes	ery (B7) ace (B8)  No (	heck all that WAGATT	vater-Staine quatic Faurue Aquatic Faurue Aquatic ydrogen Suxidized Rhi resence of ecent Iron hin Muck Siauge or Wather (Expla Depth (incl	na (B13)  Plants (Bulfide Odo zospheres Reduced Reduction urface (C7 ell Data (E in in Rem hes): hes):	s14) r (C1) s on Living R Iron (C4) n in Tilled Sc 7) 209) arks)	ils (C6)	Secondary Indicate Surface Soil Cr Drainage Patte Dry Season Wa Crayfish Burror Saturation Visi Stunted or Stre Geomorphic Po FAC-Neutral Te	acks (B6) rns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) bition (D2) est (D5)
appears to be a roa criterion for hydric  DROLOGY  tland Hydrology Inc. nary Indicators (minim Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C  Id Observations: face Water Present? curation Present? curation Present? curation Present? curation Recorded Date	licators: um of one is  2)  Aerial Image oncave Surfa  Yes  Yes  a (stream of	ery (B7) ace (B8)  No Cagauge, mo	heck all that  W AG Tr Hy GG GG On	dater-Staine quatic Faur e Aquatic Faur e Aquatic ydrogen Suxidized Rhi resence of ecent Iron hin Muck Stauge or Wether (Explate Depth (include) Depth (include) aerial	na (B13)  Plants (Bulfide Odo zospheres Reduced Reductior urface (C7 in in Rem hes): hes): photos,	stat) r (C1) s on Living R Iron (C4) n in Tilled Sc 7) 209) arks) 16 2 previous ir	Wetl	Secondary Indicate Surface Soil Cr Drainage Patte Dry Season Wa Crayfish Burror Saturation Visi Stunted or Stre Geomorphic Po FAC-Neutral Te	acks (B6) rns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) bition (D2) est (D5)
appears to be a roa criterion for hydric  DROLOGY  tland Hydrology Indicators (minimary Indic	licators: um of one is  2)  Aerial Image oncave Surfa  Yes  Yes  a (stream of	ery (B7) ace (B8)  No Cagauge, mo	heck all that  W AG Tr Hy GG GG On	dater-Staine quatic Faur e Aquatic Faur e Aquatic ydrogen Suxidized Rhi resence of ecent Iron hin Muck Stauge or Wether (Explate Depth (include) Depth (include) aerial	na (B13)  Plants (Bulfide Odo zospheres Reduced Reductior urface (C7 in in Rem hes): hes): photos,	stat) r (C1) s on Living R Iron (C4) n in Tilled Sc 7) 209) arks) 16 2 previous ir	Wetl	Secondary Indicate Surface Soil Cr Drainage Patte Dry Season Wa Crayfish Burror Saturation Visi Stunted or Stre Geomorphic Po FAC-Neutral Te	acks (B6) rns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) bition (D2) est (D5)
DROLOGY  Cland Hydrology Inc.  Bary Indicators (minim Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C  d Observations: face Water Present? for Table Present? fundes capillary fringe) cribe Recorded Dat	licators: um of one is  2)  4)  Aerial Image concave Surfa  Yes  Yes  (a (stream of the stream of th	ery (B7) ace (B8)  No (Company, NRCS	heck all that  W Ac Tr Hy Co Tr Gr Gr Gr Or	dater-Stained quatic Faurue Aquatic Faurue Aquatic Faurue Aquatic ydrogen Suxidized Rhi resence of ecent Iron muck Suauge or Wether (Explain Depth (inclined Depth (inclined Depth (inclined January))	na (B13) It Plants (Bulfide Odo Zospheres Reduced Reduction urface (C7 ell Data (E in in Rem hes): hes): photos, phic ma	stat) r (C1) s on Living R Iron (C4) n in Tilled Sc 7) pop) arks)  16 2 previous ir p, Aerial pl	Wetl	Secondary Indicate Surface Soil Cr Drainage Patte Dry Season Wa Crayfish Burror Saturation Visi Stunted or Stre Geomorphic Po FAC-Neutral Te	acks (B6) rns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) bition (D2) est (D5)

	Ci	ty/C	ounty:	Milwaukee C	County Sampling Date: 06-Aug-14
Applicant/Owner: Wisconsin Department of Transportation				State:	WI Sampling Point: SP-22
nvestigator(s): Ron Londre, Geof Parish		Sect	tion, Towr	nship, Range:	S 19 T 5N R 22E
andform (hillslope, terrace, etc.): Backslope				Local relief (d	concave, convex, none): convex
Slope: 25.0% 14.0 • Lat.:		_	Long.:		- Datum:
Soil Map Unit Name: Blount silt loam (BIA), Not hydric					
Are climatic/hydrologic conditions on the site typical for this time of	vear? Yes	•	No O	(If no. e)	cplain in Remarks.)
	significantly dis			•	ormal Circumstances" present? Yes  No
	,				or damstarides present.
	naturally proble				ded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map sho	wing sam	plii	ng poir	nt locatio	ns, transects, important features, etc.
Hydrophytic Vegetation Present? Yes   No			l		
Hydric Soil Present? Yes ○ No •				e Sampled <i>A</i> n a Wetland	
Wetland Hydrology Present? Yes ○ No ●					
Remarks: This point is located on the backslope of a drainage swale Two of the three parameters have not been met at this p  VEGETATION - Use scientific names of pla	oint. Thus, th	 _	ominant	Indicator	upland.  Dominance Test worksheet:
Tree Stratum (Plot size: 25' x 200' )	% Cover		Cover	Status	Number of Dominant Species
1	0		0.0%		That are OBL, FACW, or FAC: 3 (A)
2	0	Ц	0.0%		Total Number of Dominant
3.		片	0.0%		Species Across All Strata: 4 (B)
4 5.			0.0%		Percent of dominant Species
J			Total Cove		That Are OBL, FACW, or FAC: 75.0% (A/B)
Sapling/Shrub Stratum (Plot size: 25' x 28' )			Total oov	51	Prevalence Index worksheet:
1. Fraxinus pennsylvanica	10	<b>✓</b>	66.7%	FACW	Total % Cover of: Multiply by:
2. Rhamnus cathartica	5		33.3%	FAC	OBL species 0 x 1 = 0
3.	0		0.0%		FACW species 43 x 2 = 86
4	0		0.0%		FAC species 15 x 3 = 45
5	0	Щ	0.0%		FACU species 55 x 4 = 220
Herb Stratum (Plot size: 5' r )	15	= '	Total Cove	er	UPL species 5 x 5 = 25
1. Solidago canadensis	50	<b>V</b>	48.5%	FACU	Column Totals: 118 (A) 376 (B)
2. Ribes americanum	25	<b>V</b>	24.3%	FACW	Prevalence Index = B/A = 3.186
3. Poa pratensis	10		9.7%	FAC	Hydrophytic Vegetation Indicators:
J. Poa praterisis			4.9%	FACW	
4. Phalaris arundinacea	5	Н		TACW	
Phalaris arundinacea     Symphyotrichum pilosum	5		4.9%	FACU	☐ 1 - Rapid Test for Hydrophytic Vegetation  ✓ 2 - Dominance Test is > 50%
<ul><li>4. Phalaris arundinacea</li><li>5. Symphyotrichum pilosum</li><li>6. Symphyotrichum cordifolium</li></ul>	5 5		4.9% 4.9%	FACU UPL	1 - Rapid Test for Hydrophytic Vegetation
<ul> <li>4. Phalaris arundinacea</li> <li>5. Symphyotrichum pilosum</li> <li>6. Symphyotrichum cordifolium</li> <li>7. Euthamia graminifolia</li> </ul>	5 5 3		4.9% 4.9% 2.9%	FACU	<ul> <li>1 - Rapid Test for Hydrophytic Vegetation</li> <li>2 - Dominance Test is &gt; 50%</li> <li>3 - Prevalence Index is ≤3.0 <sup>1</sup></li> <li>4 - Morphological Adaptations <sup>1</sup> (Provide supporting</li> </ul>
<ul><li>4. Phalaris arundinacea</li><li>5. Symphyotrichum pilosum</li><li>6. Symphyotrichum cordifolium</li></ul>	5 5 3 0		4.9% 4.9% 2.9% 0.0%	FACU UPL	<ul> <li>1 - Rapid Test for Hydrophytic Vegetation</li> <li>2 - Dominance Test is &gt; 50%</li> <li>3 - Prevalence Index is ≤3.0 <sup>1</sup></li> <li>4 - Morphological Adaptations <sup>1</sup> (Provide supportin data in Remarks or on a separate sheet)</li> </ul>
<ol> <li>Phalaris arundinacea</li> <li>Symphyotrichum pilosum</li> <li>Symphyotrichum cordifolium</li> <li>Euthamia graminifolia</li> <li>8.</li> </ol>	5 5 3		4.9% 4.9% 2.9%	FACU UPL	<ul> <li>1 - Rapid Test for Hydrophytic Vegetation</li> <li>2 - Dominance Test is &gt; 50%</li> <li>3 - Prevalence Index is ≤3.0 <sup>1</sup></li> <li>4 - Morphological Adaptations <sup>1</sup> (Provide supporting</li> </ul>
4. Phalaris arundinacea  5. Symphyotrichum pilosum  6. Symphyotrichum cordifolium  7. Euthamia graminifolia  8.  9.  10.	5 5 3 0		4.9% 4.9% 2.9% 0.0% 0.0%	FACU UPL FACW	1 - Rapid Test for Hydrophytic Vegetation     2 - Dominance Test is > 50%     3 - Prevalence Index is ≤3.0 ¹     4 - Morphological Adaptations ¹ (Provide supportin data in Remarks or on a separate sheet)     Problematic Hydrophytic Vegetation ¹ (Explain)     ¹ Indicators of hydric soil and wetland hydrology must
4. Phalaris arundinacea 5. Symphyotrichum pilosum 6. Symphyotrichum cordifolium 7. Euthamia graminifolia 8. 9. 10.  Woody Vine Stratum (Plot size: 25' x 200' )	5 5 3 0 0 0		4.9% 4.9% 2.9% 0.0% 0.0% 0.0% Total Cove	FACU UPL FACW	1 - Rapid Test for Hydrophytic Vegetation     2 - Dominance Test is > 50%     3 - Prevalence Index is ≤3.0 ¹     4 - Morphological Adaptations ¹ (Provide supportindata in Remarks or on a separate sheet)     Problematic Hydrophytic Vegetation ¹ (Explain)
4. Phalaris arundinacea 5. Symphyotrichum pilosum 6. Symphyotrichum cordifolium 7. Euthamia graminifolia 8. 9. 10. Woody Vine Stratum (Plot size: 25' x 200' ) 1.	5 5 3 0 0 0 103		4.9% 4.9% 2.9% 0.0% 0.0% Total Cove	FACU UPL FACW	1 - Rapid Test for Hydrophytic Vegetation     2 - Dominance Test is > 50%     3 - Prevalence Index is ≤ 3.0 ¹     4 - Morphological Adaptations ¹ (Provide supportin data in Remarks or on a separate sheet)     Problematic Hydrophytic Vegetation ¹ (Explain)     ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Phalaris arundinacea 5. Symphyotrichum pilosum 6. Symphyotrichum cordifolium 7. Euthamia graminifolia 8. 9. 10.  Woody Vine Stratum (Plot size: 25' x 200' )	5 5 3 0 0 0		4.9% 4.9% 2.9% 0.0% 0.0% 0.0% Total Cove	FACU UPL FACW	1 - Rapid Test for Hydrophytic Vegetation     2 - Dominance Test is > 50%     3 - Prevalence Index is ≤3.0 ¹     4 - Morphological Adaptations ¹ (Provide supportin data in Remarks or on a separate sheet)     Problematic Hydrophytic Vegetation ¹ (Explain)     ¹ Indicators of hydric soil and wetland hydrology must

Depth	Matrix	ne deptn n	eeded to docu	Redox Feat		mirm the	absence of indicators.)	
	(moist)	%	Color (mois		Туре	Loc2	Texture	Remarks
0-4 10YR	4/3	90					Silty Clay Loam	
10YR	2/1	10						
4-20 10YR	5/4	70	10YR	5/6 5	С	M	Silty Clay Loam	
	3/2	25						
=								
						_		
/pe: C=Concentration,	· '	, RM=Reduc	ed Matrix, CS=0	Covered or Coa	ted Sand Gra	ins.	PL=Pore Lining.	M=Matrix.
ydric Soil Indicators	s:						Indicators for Proble	ematic Hydric Soils $^3$ :
Histosol (A1) Histic Epipedon (A2)	١			Gleyed Matrix (S	54)		Coast Prairie Redox	(A16)
Black Histic (A3)	)			Redox (S5)			☐ Dark Surface (S7)	
Hydrogen Sulfide (A	4)			d Matrix (S6)	(= - \)		☐ Iron Manganese Ma	asses (F12)
Stratified Layers (A5				Mucky Mineral	` '		☐ Very Shallow Dark	Surface (TF12)
2 cm Muck (A10)	•			Gleyed Matrix (	F2)		Other (Explain in R	
Depleted Below Dar	k Surface (A1	1)		d Matrix (F3)			Strict (Explain in It	
Thick Dark Surface (	,	,		Dark Surface (F	*			
Sandy Muck Mineral	, ,		_ '	d Dark Surface	` '		<sup>3</sup> Indicators of hydrop	hytic vegetation and
5 cm Mucky Peat or	, ,		☐ Redox [	Depressions (F8	5)		wetland hydrolog unless disturbed	y must be present, or problematic.
estrictive Layer (if o	bserved):							
Type: None								
•								
Depth (inches): NA							Hydric Soil Present?	Yes No •
Remarks:						_	Hydric Soil Present?	Yes ○ No ●
	c soil is not	met at this	point.				Hydric Soil Present?	Yes ○ No •
Remarks:	c soil is not	met at this	point.				Hydric Soil Present?	Yes ○ No •
emarks:	c soil is not	met at this	point.				Hydric Soil Present?	Yes ○ No •
lemarks: ne criterion for hydric	c soil is not	met at this	point.				Hydric Soil Present?	Yes ○ No •
emarks: e criterion for hydric		met at this	point.				Hydric Soil Present?	Yes ○ No •
emarks:  The criterion for hydric  The criterion for hydric for hydric  The criterion for hydric for hydric  The criterion for hydric for hydric for hydric  The criterion for hydric for hydric for hydric  The criterion for hydric fo	ndicators:			oly)				Yes ○ No ●  tors (minimum of two required)
emarks: e criterion for hydric  YDROLOGY  etland Hydrology In	ndicators:		heck all that app	oly) -Stained Leave	s (B9)			tors (minimum of two required)
emarks: e criterion for hydric  YDROLOGY  etland Hydrology In imary Indicators (minir	ndicators: mum of one is		heck all that app		s (B9)		Secondary Indica	tors (minimum of two required) Cracks (B6)
emarks: e criterion for hydric  YDROLOGY  etland Hydrology In imary Indicators (minir  Surface Water (A1)	ndicators: mum of one is		heck all that app	-Stained Leave	- ( )		Secondary Indica Surface Soil (	tors (minimum of two required) Cracks (B6)
emarks: e criterion for hydric  YDROLOGY  etland Hydrology In imary Indicators (minir  Surface Water (A1)  High Water Table (A	ndicators: mum of one is		heck all that app Water Aquat	-Stained Leave ic Fauna (B13)	B14)		Secondary Indica Surface Soil (	tors (minimum of two required) Cracks (B6) terns (B10) Water Table (C2)
emarks: e criterion for hydric  YDROLOGY  etland Hydrology In imary Indicators (minir  Surface Water (A1)  High Water Table (A  Saturation (A3)	<b>idicators:</b> mum of one is		heck all that app Water Aquat True / Hydro	r-Stained Leave ic Fauna (B13) Aquatic Plants ( agen Sulfide Od	B14) or (C1)	Roots (C3)	Secondary Indica Surface Soil ( Drainage Pat Dry Season \ Crayfish Burr	tors (minimum of two required) Cracks (B6) terns (B10) Water Table (C2) ows (C8)
PROLOGY  etland Hydrology In imary Indicators (minir High Water Table (A Saturation (A3))  Water Marks (B1)  Sediment Deposits (	<b>idicators:</b> mum of one is		heck all that app Water Aquat True / Hydro	r-Stained Leave ic Fauna (B13) Aquatic Plants (	B14) or (C1) es on Living F	Roots (C3)	Secondary Indica Surface Soil ( Drainage Pat Dry Season ( Crayfish Burr Saturation Vi	tors (minimum of two required) Cracks (B6) terns (B10) Water Table (C2)
emarks: e criterion for hydric etland Hydrology In imary Indicators (minir  Surface Water (A1)  High Water Table (A  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B1)  Drift Deposits (B3)	ndicators: mum of one is (A2)		heck all that app Water Aquat True / Hydro	r-Stained Leave ic Fauna (B13) Aquatic Plants ( agen Sulfide Od red Rhizosphere	B14) or (C1) es on Living F		Secondary Indica Surface Soil ( Drainage Pat Dry Season W Crayfish Burr Saturation Vi Stunted or St	tors (minimum of two required) Cracks (B6) terns (B10) Water Table (C2) ows (C8) sible on Aerial Imagery (C9) tressed Plants (D1)
YDROLOGY  Vetland Hydrology In imary Indicators (minin  Surface Water (A1)  High Water Table (A  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B3)  Algal Mat or Crust (B	ndicators: mum of one is (A2)		heck all that app Water Aquat True Hydro Oxidiz Prese	r-Stained Leave ic Fauna (B13) Aquatic Plants ( agen Sulfide Od ted Rhizosphera nce of Reduced at Iron Reduction	B14) or (C1) es on Living F I Iron (C4) on in Tilled So		Secondary Indica  Surface Soil (  Drainage Pat  Dry Season (  Crayfish Burr  Saturation Vi  Stunted or St  Geomorphic	tors (minimum of two required) Cracks (B6) terns (B10) Water Table (C2) ows (C8) sible on Aerial Imagery (C9) tressed Plants (D1) Position (D2)
emarks: e criterion for hydric etland Hydrology In imary Indicators (minir Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (E Iron Deposits (B5)	idicators: mum of one is (32) (32)	s required; c	heck all that app Water Aquat True / Hydro Oxidiz Prese Recer	Stained Leave ic Fauna (B13) Aquatic Plants ( agen Sulfide Od ted Rhizosphere nice of Reduced at Iron Reduction	B14) or (C1) es on Living F I Iron (C4) on in Tilled Sc C7)		Secondary Indica Surface Soil ( Drainage Pat Dry Season W Crayfish Burr Saturation Vi Stunted or St	tors (minimum of two required) Cracks (B6) terns (B10) Water Table (C2) ows (C8) sible on Aerial Imagery (C9) tressed Plants (D1) Position (D2)
POROLOGY  etland Hydrology Inimary Indicators (Minimary Indicators (Mini	ndicators: mum of one is (A2) (B2) n Aerial Imag	s required; c	heck all that app	r-Stained Leave ic Fauna (B13) Aquatic Plants ( agen Sulfide Od red Rhizosphere nce of Reduced at Iron Reductic Muck Surface (C	B14) or (C1) es on Living I I Iron (C4) on in Tilled Sc (C7)		Secondary Indica  Surface Soil (  Drainage Pat  Dry Season (  Crayfish Burr  Saturation Vi  Stunted or St  Geomorphic	tors (minimum of two required) Cracks (B6) terns (B10) Water Table (C2) ows (C8) sible on Aerial Imagery (C9) tressed Plants (D1) Position (D2)
YDROLOGY  Vetland Hydrology In imary Indicators (minir Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (II Iron Deposits (B5)	ndicators: mum of one is  A2)  (B2)  B4)  n Aerial Imag	s required; c	heck all that app	Stained Leave ic Fauna (B13) Aquatic Plants ( agen Sulfide Od ted Rhizosphere nice of Reduced at Iron Reduction	B14) or (C1) es on Living I I Iron (C4) on in Tilled Sc (C7)		Secondary Indica  Surface Soil (  Drainage Pat  Dry Season (  Crayfish Burr  Saturation Vi  Stunted or St  Geomorphic	tors (minimum of two required) Cracks (B6) terns (B10) Water Table (C2) ows (C8) sible on Aerial Imagery (C9) tressed Plants (D1) Position (D2)
YDROLOGY  Vetland Hydrology In imary Indicators (minir Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (I Iron Deposits (B5) Inundation Visible o Sparsely Vegetated	ndicators: mum of one is  A2)  (B2)  B4)  n Aerial Imag	s required; c	heck all that app	r-Stained Leave ic Fauna (B13) Aquatic Plants ( agen Sulfide Od red Rhizosphere nce of Reduced at Iron Reductic Muck Surface (C	B14) or (C1) es on Living I I Iron (C4) on in Tilled Sc (C7)		Secondary Indica  Surface Soil (  Drainage Pat  Dry Season (  Crayfish Burr  Saturation Vi  Stunted or St  Geomorphic	tors (minimum of two required) Cracks (B6) terns (B10) Water Table (C2) ows (C8) sible on Aerial Imagery (C9) tressed Plants (D1) Position (D2)
YDROLOGY  Vetland Hydrology In imary Indicators (minir Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Inundation Visible o Sparsely Vegetated	ndicators: mum of one is  A2)  (B2)  B4)  n Aerial Imag	ery (B7) ace (B8)	heck all that app Water Aquat True A Hydro Oxidiz Prese Recer Thin M Gauge	r-Stained Leave ic Fauna (B13) Aquatic Plants ( agen Sulfide Od red Rhizosphere nce of Reduced at Iron Reductio Muck Surface (C e or Well Data ( (Explain in Rer	B14) or (C1) es on Living I I Iron (C4) on in Tilled Sc (C7)		Secondary Indica  Surface Soil (  Drainage Pat  Dry Season (  Crayfish Burr  Saturation Vi  Stunted or St  Geomorphic	tors (minimum of two required) Cracks (B6) terns (B10) Water Table (C2) ows (C8) sible on Aerial Imagery (C9) tressed Plants (D1) Position (D2)
YDROLOGY  Vetland Hydrology Infirmary Indicators (Minimary Indicators (M	Micators: mum of one is  (B2)  (B2)  Aerial Imag Concave Surfi	ery (B7) ace (B8)	heck all that app Water Aquat Hydro Oxidiz Prese Recer Gauge	Stained Leave ic Fauna (B13) Aquatic Plants (agen Sulfide Odded Rhizosphere ince of Reduced It Iron Reduction Muck Surface (Ce or Well Data (agent Explain in Reruth (inches):	B14) or (C1) es on Living I I Iron (C4) on in Tilled Sc (C7)		Secondary Indica  Surface Soil (  Drainage Pat  Dry Season (  Crayfish Burr  Saturation Vi  Stunted or St  Geomorphic	tors (minimum of two required) Cracks (B6) terns (B10) Water Table (C2) ows (C8) sible on Aerial Imagery (C9) tressed Plants (D1) Position (D2)
Property of the control of the contr	Micators: mum of one is  (B2)  (B2)  Aerial Imag  Concave Surfa  Yes  (Yes)	ery (B7) ace (B8)  No (	heck all that app Water Aquat True / Hydro Oxidiz Prese Recer Thin M Gauge Other	r-Stained Leave ic Fauna (B13) Aquatic Plants ( agen Sulfide Od red Rhizosphere nce of Reduced at Iron Reductio Muck Surface (C e or Well Data ( (Explain in Rer	B14) or (C1) es on Living I I Iron (C4) on in Tilled Sc (C7)	oils (C6)	Secondary Indica Surface Soil ( Drainage Pat Dry Season V Crayfish Burr Saturation Vi Stunted or St Geomorphic FAC-Neutral	tors (minimum of two required) Cracks (B6) terns (B10) Water Table (C2) ows (C8) sible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5)
YDROLOGY  Vetland Hydrology Infirmary Indicators (minirally Indica	(B2)  Aerial Imag Concave Surfi	ery (B7) ace (B8)  No (	heck all that app Water Aquat True / Hydro Oxidiz Prese Recer Thin M Gauge Other	Stained Leave ic Fauna (B13) Aquatic Plants (agen Sulfide Odded Rhizosphere ince of Reduced It Iron Reduction Muck Surface (Ce or Well Data (agent Explain in Reruth (inches):	B14) or (C1) es on Living I I Iron (C4) on in Tilled Sc (C7)	oils (C6)	Secondary Indica  Surface Soil (  Drainage Pat  Dry Season (  Crayfish Burr  Saturation Vi  Stunted or St  Geomorphic	tors (minimum of two required) Cracks (B6) terns (B10) Water Table (C2) ows (C8) sible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5)
YDROLOGY  Vetland Hydrology Infirmary Indicators (minimary Indicators (m	Micators: mum of one is  (B2)  (B2)  Aerial Imag Concave Surfi  Yes  Yes  Yes	ery (B7) ace (B8)  No (	heck all that app Water Aquat Hydro Oxidiz Prese Recer Gauge Other Dep	r-Stained Leave ic Fauna (B13) Aquatic Plants (agen Sulfide Odded Rhizosphere ince of Reduced It Iron Reduction Muck Surface (Ceror Well Data (agent Iron Reduction) (Explain in Reruth (inches):  th (inches):	B14) or (C1) es on Living I I Iron (C4) on in Tilled Sc (C7) (D9) narks)	wetl	Secondary Indica Surface Soil ( Drainage Pat Dry Season V Crayfish Burr Saturation Vi Stunted or St Geomorphic FAC-Neutral	tors (minimum of two required) Cracks (B6) terns (B10) Water Table (C2) ows (C8) sible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5)
PROLOGY  etland Hydrology Inimary Indicators (minimary Indicators (minim	Micators: mum of one is  (B2)  (B2)  Aerial Imag  Concave Surfa  Yes  Yes  ata (stream	ery (B7) ace (B8)  No (C) No (C) No (C) gauge, mo	heck all that app Water Aquat True A Hydro Oxidiz Prese Recer Thin M Gauge Other  Dep Dep	r-Stained Leave ic Fauna (B13) Aquatic Plants (agen Sulfide Od red Rhizosphere ince of Reduced it Iron Reduction Muck Surface (Ce or Well Data (Cexplain in Reruth (inches):  th (inches): th (inches):	B14) or (C1) es on Living I I Iron (C4) on in Tilled Sc (C7) (D9) marks)	wetl	Secondary Indica Surface Soil ( Drainage Pat Dry Season V Crayfish Burr Saturation Vi Stunted or St Geomorphic FAC-Neutral	tors (minimum of two required) Cracks (B6) terns (B10) Water Table (C2) ows (C8) sible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5)
emarks: e criterion for hydric etand Hydrology In imary Indicators (minir Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (I Iron Deposits (B5) Inundation Visible o Sparsely Vegetated eld Observations: urface Water Present? atter Table Present? atter Table Present? atter Table Present? acturation Present?	Micators: mum of one is  (B2)  (B2)  Aerial Imag  Concave Surfa  Yes  Yes  ata (stream	ery (B7) ace (B8)  No (C) No (C) No (C) gauge, mo	heck all that app Water Aquat True A Hydro Oxidiz Prese Recer Thin M Gauge Other  Dep Dep	r-Stained Leave ic Fauna (B13) Aquatic Plants (agen Sulfide Od red Rhizosphere ince of Reduced it Iron Reduction Muck Surface (Ce or Well Data (Cexplain in Reruth (inches):  th (inches): th (inches):	B14) or (C1) es on Living I I Iron (C4) on in Tilled Sc (C7) (D9) marks)	wetl	Secondary Indica Surface Soil ( Drainage Pat Dry Season V Crayfish Burr Saturation Vi Stunted or St Geomorphic FAC-Neutral	tors (minimum of two required) Cracks (B6) terns (B10) Water Table (C2) ows (C8) sible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5)
emarks: e criterion for hydric  YDROLOGY  Yetland Hydrology In  Imary Indicators (minir  Surface Water (A1)  High Water Table (A  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B3)  Algal Mat or Crust (B  Iron Deposits (B5)  Inundation Visible o  Sparsely Vegetated  Yetland Observations:  Urface Water Present?  Vater Table Present?	Micators: mum of one is  M2)  (B2)  B4)  In Aerial Imag Concave Surfa  Yes  Yes  One is  One	ery (B7) ace (B8)  No (C) No (C) Squage, monap, NRCS	heck all that app Water Aquat True / Hydro Oxidiz Prese Recer Thin N Gauge Other  Dep Dep Dep nitoring well, a	r-Stained Leave ic Fauna (B13) Aquatic Plants (agen Sulfide Odded Rhizospherence of Reduced Iron Reduction Muck Surface (Ce or Well Data (agent Iron Reduction) (Explain in Reruth (inches): th (inches): th (inches): agerial photos, pographic magental states agental photos, pographic magental states agental	B14) or (C1) es on Living I I Iron (C4) on in Tilled Sc C7) (D9) narks)  previous in	wetl	Secondary Indica Surface Soil ( Drainage Pat Dry Season V Crayfish Burr Saturation Vi Stunted or St Geomorphic FAC-Neutral	tors (minimum of two required) Cracks (B6) terns (B10) Water Table (C2) ows (C8) sible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5)

Project/Site: IH 94 (N-S Freeway)	City/Cour	nty: Milwaukee 0	County Sampling Date: 06-Aug-14
Applicant/Owner: Wisconsin Department of Transportation		State:	: WI Sampling Point: SP-23
nvestigator(s): Ron Londre, Geof Parish	Section	, Township, Range	: S 19 T 5N R 22E
andform (hillslope, terrace, etc.): Toeslope/ditch		Local relief (	concave, convex, none): concave
Slope: 1.0% 0.6 • Lat.:	In	ng.:	- Datum:
Soil Map Unit Name: Blount silt loam (BIA), Not hydric			WWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of	vear? Yes No	O (If no. e	explain in Remarks.)
Are Vegetation . Soil . , or Hydrology .	significantly disturbed?	•	Iormal Circumstances" present?  Yes  No
			ormal direamstances present.
	naturally problematic?	•	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map sho	owing sampling	point locatio	ons, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No O		Is the Sampled A	∆rea
Hydric Soil Present? Yes  No O		within a Wetlan	
Wetland Hydrology Present? Yes   No   No			
This point is located in a storm water drainage swale on All three parameters have been met at this point. Thus, t  VEGETATION - Use scientific names of pla	ants. Dom		
Tree Stratum (Plot size: 20' x 200' )		ver Status	Number of Dominant Species
1	0 0	0.0%	That are OBL, FACW, or FAC: 5 (A)
2.		0.0%	Total Number of Dominant
3		0.0%	Species Across All Strata: 5 (B)
4 5.		0.0%	Percent of dominant Species
		al Cover	That Are OBL, FACW, or FAC: 100.0% (A/B)
Sapling/Shrub Stratum (Plot size: 20' x 35' )		ai 00vci	Prevalence Index worksheet:
1. Frangula alnus	103	1.3% FACW	Total % Cover of: Multiply by:
2. Salix interior	10 🗸 3°	1.3% FACW	OBL species 50 x 1 = 50
3. Fraxinus pennsylvanica	5 1	5.6% FACW	FACW species 72 x 2 = 144
4. Salix amygdaloides	515	5.6% FACW	FAC species $0 \times 3 = 0$
5. Ribes hirtellum		.3% FACW	FACU species $0 \times 4 = 0$
Herb Stratum (Plot size: 5' r )	32 = Tota	al Cover	UPL species 0 x 5 = 0
1. Typha angustifolia	50 🗸 5!	5.6% OBL	Column Totals: 122 (A) 194 (B)
2. Ribes hirtellum	20 🗸 22	2.2% FACW	Prevalence Index = B/A = 1.590
3. Phalaris arundinacea	20	2.2% FACW	Hydrophytic Vegetation Indicators:
4 5.		0.0%	✓ 1 - Rapid Test for Hydrophytic Vegetation
6.		0.0%	<b>✓</b> 2 - Dominance Test is > 50%
7.		0.0%	<b>✓</b> 3 - Prevalence Index is $\leq$ 3.0 <sup>1</sup>
		0.0%	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $
8.			data in Remarks or on a separate sheet)
9.	0 0	0.0%	The Book bloom and a thought of the state of
		0.0%	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
9.	0 0		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
9. 10. Woody Vine Stratum (Plot size: 20' x 200' )	0 0 90 = Tota	0.0% al Cover	
9	0 0 0 90 = Tota	0.0% al Cover	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Hydrophytic
9. 10. Woody Vine Stratum (Plot size: 20' x 200' )	0	0.0% al Cover	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Profile Description: (Describe to t Depth Matrix	ne deptn n		tne indi lox Feati		nfirm the	absence of indicators.)	
(inches) Color (moist)	%	Color (moist)	%	Туре	Loc2	Texture	Remarks
0-4 10YR 3/1	90	7.5YR 5/6	10	С	М	Silty Clay Loam	
4-20 10YR 4/2	80	7.5YR 4/6	20	С	М	Silty Clay Loam	
pe: C=Concentration, D=Depletion	, RM=Reduc	ed Matrix, CS=Covere	ed or Coat	ed Sand Gra	ins.	Eocation: PL=Pore Lining. M=	-Matrix.
dric Soil Indicators:  Histosol (A1)		Sandy Gleyed	Matalia (C	4)		Indicators for Problem	atic Hydric Soils <sup>3</sup> :
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surface (A1 Thick Dark Surface (A12) Sandy Muck Mineral (S1)	1)	Sandy Gleyed Sandy Redox Stripped Matri Loamy Mucky Loamy Gleyed Depleted Matr Redox Dark S Depleted Dark Redox Depres	(S5) ix (S6) Mineral (I Matrix (F3) urface (F6	F1) '2) ) (F7)		Coast Prairie Redox (A Dark Surface (S7) Iron Manganese Mass Very Shallow Dark Sur Other (Explain in Rem  3 Indicators of hydrophyt wetland hydrology n	es (F12) face (TF12) arks) ic vegetation and
5 cm Mucky Peat or Peat (S3)			(* 0)	'		unless disturbed or	
e criterion for hydric soil is met							
etland Hydrology Indicators: imary Indicators (minimum of one is	required: c	heck all that annly)				Secondary Indicator	s (minimum of two required)
Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imag  Sparsely Vegetated Concave Surface	ery (B7)	Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of	na (B13) c Plants (B ulfide Odc izosphere Reduced Reduction Surface (C	B14) or (C1) s on Living F Iron (C4) n in Tilled Sc 7)		Surface Soil Cra Drainage Patter Dry Season Wat Crayfish Burrow	cks (B6) ns (B10) er Table (C2) s (C8) ee on Aerial Imagery (C9) ssed Plants (D1) sition (D2)
ield Observations:  urface Water Present?  Vater Table Present?  aturation Present?  ncludes capillary fringe)  Yes	O No @	Depth (inc	thes):		- Wet	land Hydrology Present?	Yes   No
escribe Recorded Data (stream revious delineation, DNR WWI n	-	=				s), if available:	
emarks:				·			
ased on a WETS analysis, antec he criterion for hydrology is met			a norma	al range.			

Project/Site: IH 94 (N-S Freeway)		City	y/County:	Milwaukee Co	ounty	Sar	mpling Date: _	06-Aug-14
Applicant/Owner: Wisconsin Departmen	nt of Transportation			State:	WI	Sampling Poi	int:	SP-24
Investigator(s): Ron Londre, Geof Paris	h	S	Section, Towr	nship, Range:	s 19 T	5N F	R 22E	
Landform (hillslope, terrace, etc.): Foot:	slope			Local relief (c	concave, convex, n	one): conca	ve	_
Slope: 3.0% 1.7 • Lat.:			Long.:				Datum:	
Soil Map Unit Name: Blount silt Ioan	n (PIA) Not bydric				\\\\\\\ c	classification:		
Are climatic/hydrologic conditions on the		yes (	● No ○	(If no. ex	«plain in Remarks.)	_	vone	
Are Climatic/Hydrologic conditions on the Are Vegetation		significantly dist		,			Yes (	● No ○
	, <sub>0</sub> ,				ormal Circumstance	·		7 110 0
Are Vegetation, Soil	, or Hydrology 🔲 r	naturally proble	matic?	(If need	ded, explain any ar	nswers in Rema	arks.)	
SUMMARY OF FINDINGS - A	Attach site map sho	wing samp	oling poir	nt location	ns, transects	, importar	nt features	s, etc.
Hydrophytic Vegetation Present?	Yes ○ No ●				<del></del>			
Hydric Soil Present?	Yes ○ No •			e Sampled A in a Wetland		w- (a)		
Wetland Hydrology Present?	Yes ○ No •		W.C	III a Wetiana	ır tes∵r	10 🗨		
Remarks:								
None of the parameters have bee	n met at this point. Thus	s, this point is	located in	an upland.				
		•						
VECETATION Has said								
<b>VEGETATION -</b> Use scie	entific names of plan		Dominant Species?		<del></del>			
Tree Stratum (Plot size: 30' r	)	Absolute % Cover	Rel.Strat. Cover	Indicator Status	Dominance Te		ii .	
1.	<del></del> ′	0	0.0%		<ul> <li>Number of Dom That are OBL, Fr</li> </ul>			O (A)
2.		0 [	0.0%				_	
3.		0	0.0%		Total Number of Species Across A			1 (B)
4		0	0.0%				_	
5			0.0%		Percent of dor That Are OBL,			1.0% (A/B)
0. 1 /0 /0	-1		= Total Cove	er				
Sapling/Shrub Stratum (Plot size: 15	)				Prevalence Ind			
1		0 [	0.0%			Cover of:	Multiply b	
3.		0 [	0.0%		OBL species FACW specie	0 s 15	x 1 = x 2 =	30
4.		0	0.0%		FAC species	0	x 3 =	0
5.		0	0.0%		FACU species		x 4 =	372
Herb Stratum (Plot size: 5' r	1	0	= Total Cove	er	UPL species	10	x 5 =	50
1. Lotus corniculatus			<b>✓</b> 63.6%	FACU	Column Total	ls: 118	(A)	452 (B)
2. Solidago canadensis		10	8.5%	FACU			_ ` ` '	
3. Coronilla varia		10	8.5%	UPL		e Index = B/		.831
4. Phalaris arundinacea		15	12.7%	FACW	Hydrophytic Ve	-		
5. Oenothera biennis		8	6.8%	FACU	l — ·	-	phytic Veget	ation
6		0	0.0%			nce Test is > nce Index is :		
7.		0	0.0%		l			ovide supporting
8. 9.			0.0%		data in Ren	narks or on a	separate she	eet)
10.		0	0.0%		Problemati	c Hydrophyti	ic Vegetation	<sup>1</sup> (Explain)
		0 110	0.0%		<sup>1</sup> Indicators o	f hydric soil a	and wetland !	hydrology must
Woody Vine Stratum (Plot size: 30'	<u>r</u> )	118	= Total Cove	er	be present, un			
1			0.0%					
2			0.0%		Hydrophytic Vegetation			
			= Total Cove	er	Present?	Yes 🔾	No 💿	
					1			
Remarks: (Include photo numbers	s here or on a separate s	sheet.)						
This point is located in a fallow fie The criterion for hydrophytic vege		noint						
The citterion for hydrophytic vege	tation is not met at this p	POIITE.						

	ription: (De	scribe to t Matrix	he depth nee		t the indic dox Featu		nfirm the	absence of indicators	.)
Depth inches)	Color (		%	Color (moist)	%	Type T	Loc <sup>2</sup>	Texture	Remarks
0-9	10YR	4/3	90				_	Clay Loam	10% pebbles
	10YR	2/1	10						
9-20	10YR	5/3	80					Sandy Clay Loam	25% gravel
		3/2	20	<del></del>					
									_
									_
									_
		Dopleties	DM Doduses	Matrix, CS=Cover	ad or Cont	od Cond Cro	inc	Pagetian, DL Page Lini	na M. Matrix
	indicators:	= Depletion	, RIVI=Reduced	I Matrix, CS=Cover	ed of Coate	eu sanu Gra	II IS.	Location: PL=Pore Lini	
Histosol (				Sandy Gleyed	Matrix (S4	4)			oblematic Hydric Soils <sup>3</sup> :
Histic Epip	pedon (A2)			Sandy Redox		,		Coast Prairie Re	` '
Black Hist	` /			Stripped Matr	ix (S6)			☐ Dark Surface (S	·
	Sulfide (A4)			Loamy Mucky	Mineral (F	1)		☐ Iron Manganese	
	Layers (A5)			Loamy Gleyed	d Matrix (F.	2)			ark Surface (TF12)
2 cm Muc		Curfoss /^1	1)	Depleted Mat	rix (F3)			Other (Explain i	n Kemarks)
	Below Dark : k Surface (A'	,	1)	Redox Dark S	,	•			
	ick Mineral (S	,		Depleted Dar					rophytic vegetation and
,	ky Peat or Pe	,		Redox Depres	ssions (F8)				ology must be present, bed or problematic.
strictive L	ayer (if obs	erved):							·
Type: No		•							
Depth (inc	hes): NA							Hydric Soil Present	? Yes O No 🖲
emarks:									
¬	rology Indi		required; che	ck all that apply)	ed Leaves	(R9)		$\overline{}$	dicators (minimum of two required)
7	er Table (A2)	)		Aquatic Fau		(57)			Patterns (B10)
Saturation				True Aquat		314)			on Water Table (C2)
Water Ma	rks (B1)			Hydrogen S					Burrows (C8)
Sediment	Deposits (B2	2)		Oxidized Rh	nizospheres	s on Living F	Roots (C3)	Saturation	n Visible on Aerial Imagery (C9)
Drift Depo	osits (B3)			Presence of	Reduced	Iron (C4)		Stunted o	r Stressed Plants (D1)
	or Crust (B4	)		Recent Iron	Reduction	n in Tilled Sc	ils (C6)		hic Position (D2)
Iron Depo				Thin Muck				☐ FAC-Neut	ral Test (D5)
1	n Visible on			Gauge or W	/ell Data (E	09)			
Sparsely \	Vegetated Co	oncave Surfa	ace (B8)	U Other (Expl	ain in Rem	arks)			
ld Observ	ations						ı		
face Water		Yes (	⊙ <sub>No</sub> ⊙	Depth (in	ches):				
		Yes (		,	_		-		
iter Table P turation Pre				Depth (in			Wetl	and Hydrology Presen	nt? Yes O No 💿
cludes capil		Yes (	O No O	Depth (in	ches):		-		
				oring well, aeria				s), if available:	
	neation, Di	NR WWI n	nap, NRCS So	oils map, Topogr	aphic ma	p, Aerial pl	notos		
marks:									
				tation was withir	n a norma	al range.			
e criterion	TOLLHYULOK	ogy is not	met at this p	OIIII.					

Are Vegetation	es   / distur  /	Long.:  No bed?  bed?  atic?  ing poir  Is the withing the din a ward of the withing the within the withing the within the withing the withing the withing the withing the wit	(If no, ex Are "No (If nee nt locatio e Sampled A n a Wetland	concave, convex, none): concave  Datum:  WWI classification: E2Kx  xplain in Remarks.)  ormal Circumstances" present? Yes No O  eded, explain any answers in Remarks.)  ons, transects, important features, etc.  Area d? Yes No O
Landform (hillslope, terrace, etc.): Toeslope  Slope: 1.0%	es   / distur  /	Long.:  No bed?  bed?  atic?  ing poir  Is the withing the din a ward of the withing the within the withing the within the withing the withing the withing the withing the wit	(If no, ex Are "No (If nee nt location e Sampled An a Wetland.	Datum:  WWI classification: E2KX  xplain in Remarks.)  ormal Circumstances" present? Yes No ormal Circumstances in Remarks.)  ons, transects, important features, etc.  Area d? Yes No ormal Circumstances in Remarks.)  Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)  Total Number of Dominant
Solope: 1.0%	disturroblemannen	No bed? atic? ing poir  Is the withi  red in a w  Cominant Species? Rel.Strat. Cover  0.0% 0.0%	(If no, ex Are "No (If nee int locatio e Sampled A n a Wetland	Datum:  WWI classification: E2Kx  xplain in Remarks.)  ormal Circumstances" present? Yes No O  eded, explain any answers in Remarks.)  ons, transects, important features, etc.  Area d? Yes No O  Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)  Total Number of Dominant
Are climatic/hydrologic conditions on the site typical for this time of year? Yeare Vegetation  , Soil  , or Hydrology  , significantly are Vegetation  , Soil  , or Hydrology  , naturally prospect to the site of year? Yeare Vegetation  , Soil  , or Hydrology  , or Hydrology  , naturally prospect to the site of year? Yeare Vegetation  , Soil  , or Hydrology  , naturally prospect to the site of year  , or Hydrology  , naturally prospect to the year  , or Hydrology  , or Hydrology  , naturally prospect to the year  , or Hydrology  , or Hydrology  , naturally prospect to the year  , or Hydrology  , naturally prospect to the year  , or Hydrology  , or Hydrology  , or Hydrology  , or Hydrology  , naturally prospect to the year  , or Hydrology  , or Hydrology  , or Hydrology  , naturally prospect to the year  , or Hydrology  , or Hydrology  , or Hydrology  , or Hydrology  , naturally prospect to Hydrology  , or Hydrology  , or Hydrology  , or Hydrology  , naturally prospect to Hydrology  , or Hydrology  , naturally prospect to Hydrology  , or Hy	disturroblemannen	No bed? bed? atic? ing poir Is the withi  ed in a w  cominant Species? Rel.Strat. Cover  0.0% 0.0% 0.0%	Are "No (If nee nt location e Sampled An a Wetland.	wwll classification: E2Kx  xplain in Remarks.)  ormal Circumstances" present?  eded, explain any answers in Remarks.)  ons, transects, important features, etc.  Area d? Yes No  Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)  Total Number of Dominant
Are climatic/hydrologic conditions on the site typical for this time of year? Yeare Vegetation  , Soil  , or Hydrology  , significantly are Vegetation  , Soil  , or Hydrology  , naturally prospectively are Vegetation  , Soil  , or Hydrology  , naturally prospectively are Vegetation  , Soil  , or Hydrology  , naturally prospectively are Vegetation  , Soil  , or Hydrology  , naturally prospectively are Vegetation  , Soil  , or Hydrology  , naturally prospectively  , naturally prospectively  , yes  , No  , N	disturroblemannen	No bed? bed? atic? ing poir Is the withi  ed in a w  cominant Species? Rel.Strat. Cover  0.0% 0.0% 0.0%	Are "No (If nee nt location e Sampled An a Wetland.	wwll classification: E2Kx  xplain in Remarks.)  ormal Circumstances" present?  eded, explain any answers in Remarks.)  ons, transects, important features, etc.  Area d? Yes No  Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)  Total Number of Dominant
Are climatic/hydrologic conditions on the site typical for this time of year?  Are Vegetation  , Soil  , or Hydrology    significantly Are Vegetation  , Soil  , or Hydrology    naturally pro  SUMMARY OF FINDINGS - Attach site map showing sa  Hydrophytic Vegetation Present?	disturroblemannen	Is the withing point and a withing point a withing point and a withing point and a withing point a withing point a withing poi	Are "No (If nee nt location e Sampled An a Wetland.	xplain in Remarks.)  ormal Circumstances" present?  Area d?  Yes No
Are Vegetation  , Soil  , or Hydrology  , significantly Are Vegetation  , Soil  , or Hydrology  , naturally prospective Vegetation  , Soil  , or Hydrology  , naturally prospective Vegetation  , Soil  , or Hydrology  , naturally prospective Vegetation  , Soil  , or Hydrology  , naturally prospective Vegetation  , Soil  , or Hydrology  , naturally prospective Vegetation  , Soil  , or Hydrology  , naturally prospective Materials  , or Hydrology	disturroblemannen	Is the withing point and a withing point a withing point and a withing point and a withing point a withing point a withing poi	Are "No (If nee nt location e Sampled An a Wetland.	ormal Circumstances" present?  Yes No Oeded, explain any answers in Remarks.)  Ons, transects, important features, etc.  Area d? Yes No O  Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant
SUMMARY OF FINDINGS - Attach site map showing satisfy the state of the	ampli s locat	Is the withing point and a way of the withing point and way of the within the withing point and way of the withing point and way of the	(If nee nt locatio e Sampled A n a Wetland yetland.	Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC:  2 (A)  Total Number of Dominant
SUMMARY OF FINDINGS - Attach site map showing sa  Hydrophytic Vegetation Present? Yes No No Hydric Soil Present? Yes No No Remarks:  All three parameters have been met at this point. Thus, this point is This wetland appears to have developed in fill material.  VEGETATION - Use scientific names of plants.  Tree Stratum (Plot size: 30' r ) Absolu % Cov 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	s locat	Is the withing the distribution of the withing the distribution of the withing the distribution of the within of the windividual of the within of the within of the within of the within	e Sampled An a Wetland	Pominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:  All three parameters have been met at this point. Thus, this point is This wetland appears to have developed in fill material.  VEGETATION - Use scientific names of plants.  Tree Stratum (Plot size: 30' r )  1.	s locat	Is the withing the withing and in a way of the withing and in a way of the within a way of the way of the within a way of the way of the within a way of the way of the within a way of the way of	e Sampled An a Wetland	Area d? Yes No No  Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant
Hydric Soil Present?  Wetland Hydrology Present?  Remarks: All three parameters have been met at this point. Thus, this point is This wetland appears to have developed in fill material.  VEGETATION - Use scientific names of plants.  Tree Stratum (Plot size: 30' r )  1.	ute F	oominant Species? Rel.Strat. Cover 0.0% 0.0% 0.0%	vetland.	Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant
Wetland Hydrology Present?  Remarks: All three parameters have been met at this point. Thus, this point is This wetland appears to have developed in fill material.  VEGETATION - Use scientific names of plants.  Tree Stratum (Plot size: 30' r )	ute F	oominant Species? Rel.Strat. Cover 0.0% 0.0% 0.0%	vetland.	Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant
Remarks: All three parameters have been met at this point. Thus, this point is This wetland appears to have developed in fill material.  VEGETATION - Use scientific names of plants.  Tree Stratum (Plot size: 30' r )	ute F	Oominant Species? Rel.Strat. Cover   0.0%   0.0%   0.0%	Indicator	Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant  (A)
All three parameters have been met at this point. Thus, this point is This wetland appears to have developed in fill material.  VEGETATION - Use scientific names of plants.  Tree Stratum (Plot size: 30' r )	ute F	Oominant Species? Rel.Strat. Cover   0.0%   0.0%   0.0%	Indicator	Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant  (A)
This wetland appears to have developed in fill material.  VEGETATION - Use scientific names of plants.  Tree Stratum (Plot size: 30' r )	ute F	Oominant Species? Rel.Strat. Cover   0.0%   0.0%   0.0%	Indicator	Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant  (A)
VEGETATION -         Use scientific names of plants.           Tree Stratum (Plot size: 30' r )         Absolu % Cov % Cov % Cov 30' r )           2.	ute F	Species? Rel.Strat. Cover  0.0%  0.0%  0.0%	Indicator	Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant  (A)
Tree Stratum (Plot size: 30' r )       Absolu % Cov         1.       0         2.       0         3.       0         4.       0         5.       0         0       0	ute F	Species? Rel.Strat. Cover  0.0%  0.0%  0.0%	Indicator	Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant  (A)
Tree Stratum (Plot size: 30' r     % Cov       1.     0       2.     0       3.     0       4.     0       5.     0       0     0	ute F	Rel.Strat. Cover 0.0% 0.0% 0.0%		Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant  (A)
1. 0 2. 0 3. 0 4. 0 5. 0	/er	0.0%	Status	That are OBL, FACW, or FAC: 2 (A)  Total Number of Dominant
2. 0 3. 0 4. 0 5. 0		0.0%	=	Total Number of Dominant
3. 0 4. 0 5. 0		0.0%		
4. 0 5. 0		0.0%		Species Across All Strata: 2 (B)
5. 0		1		
0		0.0%		Percent of dominant Species
-	=	Total Cove	er	That Are OBL, FACW, or FAC: 100.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15' r )	_			Prevalence Index worksheet:
1. Salix interior 30	<b>✓</b>	100.0%	FACW	Total % Cover of: Multiply by:
2. 0		0.0%		OBL species 0 x 1 = 0
30		0.0%		FACW species 105 x 2 = 210
4	_	0.0%		FAC species 10 x 3 = 30
5. 0		0.0%		FACU species 23 x 4 = 92
Herb Stratum (Plot size: 5' r )	_ =	Total Cove	er	UPL species 10 x 5 = 50
1 Phalaris arundinacea 70	_	59.3%	FACW	Column Totals: 148 (A) 382 (B)
2. Solidago canadensis 20	_	16.9%	FACU	Prevalence Index = B/A = 2.581
3. Coronilla varia 10	_	8.5%	UPL	Hydrophytic Vegetation Indicators:
4. Poa pratensis 10	-  -	8.5%	FAC	✓ 1 - Rapid Test for Hydrophytic Vegetation
5. Euthamia graminifolia 5	-	4.2%	FACW	✓ 2 - Dominance Test is > 50%
6. Cirsium arvense 3 7.	-  -	2.5%	FACU	✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
8. 0	-	0.0%		4 - Morphological Adaptations 1 (Provide supportin
9.	-	0.0%		data in Remarks or on a separate sheet)
10.		0.0%		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
110		Total Cove	er	Indicators of hydric soil and wetland hydrology must     he proceed upless distributed or problematic.
Woody Vine Stratum (Plot size: 30' r		1		be present, unless disturbed or problematic.
1. 0	-	0.0%		Hydrophytic
2		0.0%		Vegetation
0	_ =	Total Cove	er.	Present? Yes WO

Profile Description: (Describ Depth Mat	-		: the indicator or c lox Features	onfirm the	absence of indicators.	)
(inches) Color (moist		Color (moist)	% Type	Loc2	Texture	Remarks
0-6 10YR 3/	/2 50				Silty Clay Loam	10% gravel
10YR 4/	/3 50		`			
6-20 10YR 4/	/2 95	7.5YR 4/6	5 C	. <u>— М</u>	Silty Clay Loam	20% gravel
ype: C=Concentration, D=Dep	oletion, RM=Reduc	ed Matrix, CS=Covere	ed or Coated Sand Gr	ains.	Location: PL=Pore Linir	ng. M=Matrix.
ydric Soil Indicators:					Indicators for Pro	blematic Hydric Soils <sup>3</sup> :
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4)		Sandy Gleyed Sandy Redox Stripped Matri	(S5) ix (S6)		Coast Prairie Re Dark Surface (S'	7)
Stratified Layers (A5)		Loamy Mucky Loamy Gleyed	, ,			rk Surface (TF12)
2 cm Muck (A10) Depleted Below Dark Surfac	re (A11)	✓ Depleted Matr	ix (F3)		Other (Explain in	n Remarks)
Thick Dark Surface (A12)	e (ATT)	Redox Dark S  Depleted Dark	, ,		3	ophytic vegetation and
☐ Sandy Muck Mineral (S1) ☐ 5 cm Mucky Peat or Peat (S	2)	Redox Depres	, ,		wetland hydro	opnytic vegetation and logy must be present, ped or problematic.
estrictive Layer (if observe					1	
emarks: il appears to be a fill soil a le criterion for hydric soil is						
YDROLOGY						
<b>Tetland Hydrology Indicato</b> rimary Indicators (minimum of		back all that apply)			Socondary Ind	licators (minimum of two required)
Surface Water (A1)	one is required, c		-d I (DO)			
High Water Table (A2)		Aquatic Fau	ed Leaves (B9)			oil Cracks (B6) Patterns (B10)
Saturation (A3)			c Plants (B14)			n Water Table (C2)
Water Marks (B1)			ulfide Odor (C1)			urrows (C8)
Sediment Deposits (B2)			izospheres on Living	Roots (C3)		Visible on Aerial Imagery (C9)
Drift Deposits (B3)			Reduced Iron (C4)	` ′		r Stressed Plants (D1)
Algal Mat or Crust (B4)		Recent Iron	Reduction in Tilled S	ioils (C6)	<b>✓</b> Geomorph	nic Position (D2)
Iron Deposits (B5)		☐ Thin Muck S	Surface (C7)		<b>✓</b> FAC-Neutr	
Inundation Visible on Aerial	Imagery (B7)	Gauge or W	'ell Data (D9)			
Sparsely Vegetated Concave	e Surface (B8)	Other (Expla	ain in Remarks)			
eld Observations:						
	Yes O No (	-1 (	thes):	_		
	Yes O No (			_ Wet	land Hydrology Presen	t? Yes • No O
ncludes capillary fringe) escribe Recorded Data (stre	Yes O No Geam gauge, mo			inspections	s), if available	
revious delineation, DNR W		=			o,, ii avallabio.	
emarks:						
sed on a WETS analysis, a e criterion for hydrology is			a normal range.			

Project/Site: H 94 (N-S Freeway)	City/	/County:	Milwaukee C	County Sampling Date: 06-Aug-14
Applicant/Owner: Wisconsin Department of Transportation			State:	WI Sampling Point: SP-26
nvestigator(s): Ron Londre, Geof Parish	Se	ection, Tow	nship, Range:	S 19 T 5N R 22E
andform (hillslope, terrace, etc.): Backslope			Local relief (d	concave, convex, none): convex
Slope: 0.0% 0.0 • Lat.:		Long.:		- Datum:
ioil Map Unit Name: Ashkum silty clay loam (AsA), All hydr	ir			WWI classification: None
are climatic/hydrologic conditions on the site typical for this time of	G	No O	(If no. ex	xplain in Remarks.)
	significantly distu		,	ormal Circumstances" present? Yes  No
	naturally problem			eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map sho	owing sampl	ling poi	nt locatio	ns, transects, important features, etc.
Hydrophytic Vegetation Present? Yes   No   No			. 6	Avec.
Hydric Soil Present? Yes No •			e Sampled <i>I</i> in a Wetland	
Wetland Hydrology Present? Yes ○ No ●				
Remarks: This point is located in a fallow field. Two of three parameters have not been met at this point  VEGETATION - Use scientific names of pla	ints.	Dominant	:	Dominance Test worksheet:
Tree Stratum (Plot size: 30' r )	% Cover	Cover	Status	Number of Dominant Species
1	0	0.0%		That are OBL, FACW, or FAC: 2 (A)
2		0.0%		Total Number of Dominant
3		0.0%		Species Across All Strata: 3 (B)
4 5.		0.0%		Percent of dominant Species
	0 =	= Total Cov	er	That Are OBL, FACW, or FAC: 66.7% (A/B)
Sapling/Shrub Stratum (Plot size: 15' r )		10141 001	01	Prevalence Index worksheet:
1. Salix interior	5	100.0%	FACW	Total % Cover of: Multiply by:
2.	0	0.0%		OBL species $0 \times 1 = 0$
3.	0	0.0%		FACW species $15 \times 2 = 30$
4	0	0.0%		FAC species 40 x 3 = 120
5		0.0%		FACU species 20 x 4 = 80
Herb Stratum (Plot size: 5' r )	5=	= Total Cov	er	UPL species 30 x 5 = 150
1, Poa pratensis	40	40.0%	FAC	Column Totals: 105 (A) 380 (B)
2. Daucus carota	30	30.0%	UPL	Prevalence Index = B/A = 3.619
3. Trifolium repens	15	15.0%	FACU	Hydrophytic Vegetation Indicators:
4. Phalaris arundinacea		10.0%	FACW	1 - Rapid Test for Hydrophytic Vegetation
5. Elymus repens 6.	- 5 L	5.0%	FACU	✓ 2 - Dominance Test is > 50%
7.		0.0%		3 - Prevalence Index is ≤3.0 <sup>1</sup>
8.	0	0.0%		$oxed{\begin{tabular}{lll} & 4 - Morphological Adaptations $^1$ (Provide supporting $^1$)} \end{tabular}$
9.		0.0%		data in Remarks or on a separate sheet)
10.	0	0.0%		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	100 =	Total Cov	er	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Weady Vine Circum (Diet circ. 201 r				be present, unless disturbed of problematic.
Woody Vine Stratum (Plot size: 30' r )		0.00/		
1.		0.0%		Hydrophytic
	0	0.0% 0.0% = Total Cov	er	Hydrophytic Vegetation Present? Yes  No

	Describe to t Matrix	he depth ne		the indicator ox Featur		niirm the	absence of indicators	i.)
Depth (inches) Color	r (moist)	%	Color (moist)	%	Type	Loc <sup>2</sup>	Texture	Remarks
0-7 10YR	4/3	50		_			Silty Clay Loam	`
10YR	4/2	50						
7-20 10YR	4/3	100					Silty Clay Loam	10% gravel
				_				
pe: C=Concentration	, D=Depletion	, RM=Reduce	d Matrix, CS=Covere	ed or Coate	d Sand Gra	ins.	Eocation: PL=Pore Lin	ing. M=Matrix.
dric Soil Indicator	s:						Indicators for Pr	oblematic Hydric Soils <sup>3</sup> :
Histosol (A1) Histic Epipedon (A2 Black Histic (A3) Hydrogen Sulfide (A Stratified Layers (A! 2 cm Muck (A10) Depleted Below Dar Thick Dark Surface Sandy Muck Minera 5 cm Mucky Peat or strictive Layer (if o	A4) 5) rk Surface (A1 (A12) I (S1) r Peat (S3)	1)	Sandy Gleyed Sandy Redox Stripped Matri Loamy Mucky Depleted Matr Redox Dark Stripped Matri Depleted Dark Redox Depres	(S5) Aix (S6) Mineral (F- Matrix (F2) Aix (F3) Aix (F4) Aix (S5) Aix (S6) A	1)		Other (Explain  3 Indicators of hydrowetland hydro	67) e Masses (F12) ark Surface (TF12)
							Hydric Soil Present	t? Yes O No 💿
marks: appears to be a fi criterion for hydri							Hydric Soil Presen	t? Yes O No 🖲
appears to be a fine criterion for hydri  DROLOGY  etland Hydrology In	c soil is not i	met at this p	ooint.					
marks: appears to be a fi criterion for hydri  DROLOGY  tland Hydrology In mary Indicators (mini	c soil is not in a soil in a soil is not in a soil i	met at this p	eck all that apply)				Secondary In	dicators (minimum of two required)
emarks:    appears to be a file criterion for hydri	ndicators: mum of one is A2) (B2) (B4) on Aerial Image	met at this p	ooint.	na (B13) c Plants (B1 ulfide Odor izospheres Reduced II Reduction Surface (C7) ell Data (D	(C1) on Living F ron (C4) in Tilled Sc )		Secondary In  Surface S  Drainage  Dry Seas  Crayfish Saturatio Stunted of Geomorp	
PROLOGY  PROLOGY  Petland Hydrology Ir  Imary Indicators (minit  Surface Water (A1)  High Water Table (A)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B3)  Algal Mat or Crust (In Inch Deposits (B5)  Inundation Visible of Sparsely Vegetated  Petland Observations:  Interpretation Present?  Interpretation Present	c soil is not in the control of the	ery (B7) ace (B8)  No  No  No  No  No  No  No  No  No  No	eck all that apply)  Water-Stain Aquatic Fau True Aquatic Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) c Plants (B1 ulfide Odor izospheres Reduced II Reduction Gurface (C7) ell Data (Di ain in Rema	(C1) on Living R ron (C4) in Tilled Sc ) 9)	ils (C6)	Secondary In Surface S Drainage Dry Seas Crayfish Saturatio Stunted of Geomorp FAC-Neur	dicators (minimum of two required) Soil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) or Stressed Plants (D1) whic Position (D2) tral Test (D5)
PROLOGY  PROLOGY  Petland Hydrology Initial Image Indicators (Minimary I	mdicators: mum of one is  A2)  (B2)  (B4)  On Aerial Image Concave Surfa  Yes  Yes  (ata (stream g	ery (B7) ace (B8)  No  No  gauge, moni	eck all that apply)  Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) c Plants (B1 ulfide Odor izospheres Reduced II Reduction Gurface (C7) dell Data (Di ain in Rema	(C1) (C1) on Living R ron (C4) in Tilled Sc ) 9) arks)	Wetl	Secondary In Surface S Drainage Dry Seas Crayfish Saturatio Stunted of Geomorp FAC-Neur	dicators (minimum of two required) Soil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) or Stressed Plants (D1) shic Position (D2) tral Test (D5)

Project/Site: IH 94 (N-S Freeway)		City/	/County: N	lilwaukee Co	ounty	Sampling Date:	06-Aug-14
Applicant/Owner: _Wisconsin Departmer	nt of Transportation			State:	_WI Sa	ampling Point:	SP-27
Investigator(s): Ron Londre, Geof Paris	h	Se	ection, Townsh	nip, Range:	S 19 T 5	N R 22E	
Landform (hillslope, terrace, etc.): Toes					oncave, convex, none	e): concave	_
Slope: 2.0% 1.1 • Lat.:						Datum:	
			Long.:		1404(II		
Soil Map Unit Name: Ashkum silty c		· · ·	No O	(If po ov	plain in Remarks.)	sification: None	
Are climatic/hydrologic conditions on the		your:		,		nresent? Yes	● No ○
Are Vegetation , Soil		significantly distu		Are "No	rmal Circumstances"	present? Yes	• NO C
Are Vegetation, Soil	, or Hydrology	naturally problem	natic?	(If need	ded, explain any answ	ers in Remarks.)	
SUMMARY OF FINDINGS - A	Attach site map sho	wing samp	ling point	location	ns, transects, i	mportant feature	s, etc.
Hydrophytic Vegetation Present?	Yes O No O						
Hydric Soil Present?	Yes • No O			Sampled A	rea		
Wetland Hydrology Present?	Yes  No		within	a Wetland	? Yes • No	O	
	103 0 110 0						
Remarks: All three parameters have been m	net at this point. Thus, th	nis point is loca	ated in a we	tland			
This wetland appears to have form		110 point 10 1000	itod iii d wo	tiaria.			
<b>VEGETATION -</b> Use scie	entific names of pla	nts.	Dominant Species? —				
Tree Stratum (Plot size: 5' x 75'	1	Absolute % Cover	Rel.Strat.	Indicator Status	Dominance Test	worksheet:	
1		0	Cover	Status	Number of Domina		3 (A)
2.			0.0%		That are OBL, FAC	V, OF FAC:	3 (A)
3.		0	0.0%		Total Number of Do Species Across All S		3 (B)
4.		0 [	0.0%		Species Across Air s	oli ala.	(B)
5.		0	0.0%		Percent of domir		00.0% (A/B)
		0 =	= Total Cover		That Are OBL, FA	ACW, or FAC:	30.070 (A/B)
Sapling/Shrub Stratum (Plot size: 5	x 75'	_	_		Prevalence Index	worksheet:	
1. Salix interior				FACW	Total % Co	1 3	
2			0.0%		OBL species	35 x 1 =	35
3			0.0%		FACW species	155 x 2 =	310
5.		0 [	0.0%		FAC species FACU species	0	0
		80 =	= Total Cover		UPL species	0	0
Herb Stratum (Plot size: 5' x 25'	)		_		•		
1. Phalaris arundinacea			<u> 54.5%</u> .	FACW	Column Totals:	(A)	345 (B)
2. Eleocharis obtusa			27.3%	OBL	Prevalence I	ndex = B/A =	1.816
3. Salix interior 4. Euthamia graminifolia		10L 5	9.1%	FACW FACW	Hydrophytic Vege	tation Indicators:	
5. Typha angustifolia		5 [	4.5%	OBL	✓ 1 - Rapid Test	for Hydrophytic Vege	tation
6.		0 [	0.0%	ODE		e Test is > 50%	
7.			0.0%		✓ 3 - Prevalence		
8.		0 [	0.0%		4 - Morpholog	ical Adaptations <sup>1</sup> (Pi	ovide supporting
9.		0 [	0.0%			lydrophytic Vegetation	
10.			0.0%		_		
Woody Vine Stratum (Plot size: 5' x	75' )	110 =	= Total Cover			ydric soil and wetland is disturbed or probler	
1.		0 [	0.0%				
2.		0 [	0.0%		Hydrophytic Vegetation		
		0 =	= Total Cover		Present?	Yes 💿 No 🔾	
Remarks: (Include photo number	s here or on a separate s	sheet.)					
Plot size is based on the size of the							
This point is located in a scrub sh The criterion for hydrophytic vege		nt					
The chickoff for flydrophytic vege	πατίστι το πίστ ατ τιπό μυπ						

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

ofile Description: Depth	(Describe Matri	-	needed to do		the indic ox Featu		nfirm the	absence of indicators.)	
	or (moist)		Color (me		%	Type	Loc2	Texture	Remarks
0-8 10Y	R 3/2	95	7.5YR	4/4	5	С	М	Silty Clay	
8-20 10Y	R 5/3	3 45	7.5YR	5/6	5	С	М	Silty Clay	
10Y	R 5/4	10	10YR	5/2	40	D	M		
	,								
pe: C=Concentratio	n D Donle	ation DM Dodu	and Matrix CC	Covered	l or Coot	ad Cand Cra	ino	Eocation: PL=Pore Lining. N	A Matrix
rdric Soil Indicate		etion, Rivi=Redu	ceu Matrix, Co	s=covereu	I OI COAR	eu sanu Gra	1115.	Indicators for Proble	
Histosol (A1)			Sand	y Gleyed N	Matrix (S4	4)			•
Histic Epipedon (A	12)		Sand	y Redox (S	S5)	•		Coast Prairie Redox	(A16)
Black Histic (A3)			Stripp	ped Matrix	(S6)			☐ Dark Surface (S7)	(= - = )
Hydrogen Sulfide			Loam	ny Mucky N	Mineral (F	F1)		☐ Iron Manganese Ma	
Stratified Layers (	A5)		Loam	ny Gleyed N	Matrix (F.	2)		☐ Very Shallow Dark S	urface (TF12)
2 cm Muck (A10)				eted Matrix				Other (Explain in Re	marks)
Depleted Below D		(A11)		x Dark Sur		)			
Thick Dark Surfac	, ,		Deple	eted Dark :	Surface (	(F7)		<sup>3</sup> Indicators of hydroph	vtic vegetation and
Sandy Muck Miner	. ,		Redo	x Depressi	ions (F8)			wetland hydrology	must be present,
5 cm Mucky Peat								unless disturbed	or problematic.
estrictive Layer (if	observed	):							
Type: None									
								Hydric Soil Present?	Voc 🔍 No 🔾
Depth (inches): N/emarks: il appears to be a e criterion for hyd	fill soil an							Hydric Soil Present?	Yes  No
emarks: il appears to be a	fill soil an ric soil is Indicators	met at this po	int.	apply)	d Leaves	(B9)			ors (minimum of two required)
emarks:  il appears to be a e criterion for hyd  YDROLOGY  etland Hydrology imary Indicators (mi	fill soil an ric soil is  Indicators nimum of c	met at this po	int.			s (B9)		Secondary Indicate	ors (minimum of two required) racks (B6)
emarks: I appears to be a e criterion for hyd  /DROLOGY  etland Hydrology imary Indicators (mi	fill soil an ric soil is  Indicators nimum of c	met at this po	check all that a	iter-Stained	a (B13)	,		Secondary Indicate Surface Soil C	ors (minimum of two required) racks (B6)
emarks: I appears to be a e criterion for hyd  /DROLOGY  etland Hydrology imary Indicators (mi  Surface Water (At  High Water Table	fill soil an ric soil is  Indicators nimum of coll (A2)	met at this po	check all that a	iter-Stained uatic Fauna	a (B13) Plants (B	314)		Secondary Indicate Surface Soil C	ors (minimum of two required) racks (B6) erns (B10) ater Table (C2)
Pemarks:  I appears to be a e criterion for hyd  I DROLOGY  etland Hydrology  imary Indicators (mi  Surface Water (A1  High Water Table  Saturation (A3)	fill soil an ric soil is a fill soil is a fill soil is a fill soil is a fill soil soil is a fill soil soil soil soil soil soil soil s	met at this po	check all that a	uatic Fauna uatic Fauna ue Aquatic drogen Sul	a (B13) Plants (E Ifide Odo	314)	Roots (C3)	Secondary Indicate Surface Soil C Drainage Patte Dry Season W Crayfish Burro	ors (minimum of two required) racks (B6) erns (B10) ater Table (C2)
emarks: I appears to be a e criterion for hyd  /DROLOGY etland Hydrology imary Indicators (mi Surface Water (At I) High Water Table Saturation (A3) Water Marks (B1)	fill soil an ric soil is  Indicators nimum of coll (A2)	met at this po	check all that a	uatic Fauna uatic Fauna ue Aquatic drogen Sul	a (B13) Plants (E Ifide Odo cospheres	314) or (C1) s on Living F	Roots (C3)	Secondary Indicate Surface Soil C Drainage Patte Dry Season W Crayfish Burro Saturation Vis	ors (minimum of two required) racks (B6) erns (B10) ater Table (C2) ws (C8)
emarks: il appears to be a e criterion for hyd  YDROLOGY  etland Hydrology imary Indicators (mi  Surface Water (A1  High Water Table  Saturation (A3)  Water Marks (B1)  Sediment Deposit:	fill soil an ric soil is soil and soil soil soil soil soil soil soil soil	met at this po	check all that a	iter-Stained uatic Fauna ue Aquatic drogen Sul idized Rhiz	a (B13) Plants (E Ifide Odo cospheres Reduced	314) or (C1) s on Living F		Secondary Indicate Surface Soil C Drainage Patte Dry Season W Crayfish Burro Saturation Vis	ors (minimum of two required) racks (B6) erns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1)
emarks: il appears to be a e criterion for hyd  YDROLOGY  etland Hydrology imary Indicators (mi  Surface Water (A1  High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit: Drift Deposits (B3	fill soil an ric soil is  Indicators nimum of c  (A2)  s (B2)  (B4)	met at this po	check all that a	iter-Stained uatic Fauna ue Aquatic drogen Sul idized Rhiz	a (B13) Plants (E Ifide Odo cospheres Reduced Reduction	314) or (C1) s on Living F Iron (C4) n in Tilled Sc		Secondary Indicate Surface Soil C Drainage Patte Dry Season W Crayfish Burro Saturation Vis Stunted or Str	prs (minimum of two required) racks (B6) erns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) osition (D2)
Portion of the contract of the	fill soil an ric soil is  Indicators nimum of co  (A2)  s (B2)  (B4)	met at this po	check all that a	iter-Stained uatic Fauna ue Aquatic drogen Sul idized Rhiz esence of F	a (B13) Plants (E Ifide Odo cospheres Reduced Reduction urface (CT	B14) or (C1) s on Living F Iron (C4) n in Tilled Sc 7)		Secondary Indicate Surface Soil C Drainage Patte Dry Season W Crayfish Burro Saturation Vis Stunted or Str	prs (minimum of two required) racks (B6) erns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) osition (D2)
Properties of the control of the con	fill soil an ric soil is  Indicators nimum of coll) (A2)  s (B2) (B4) on Aerial I	met at this po	check all that a	uter-Stained uatic Fauna ue Aquatic drogen Sul idized Rhiz esence of F cent Iron F n Muck Su	a (B13) Plants (E Ifide Odo cospheres Reduced Reduction urface (CT	B14) or (C1) s on Living F Iron (C4) n in Tilled Sc 7)		Secondary Indicate Surface Soil C Drainage Patte Dry Season W Crayfish Burro Saturation Vis Stunted or Str	prs (minimum of two required) racks (B6) erns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) osition (D2)
Pemarks:  I appears to be a e criterion for hyd  Proposition of the pr	fill soil an ric soil is  Indicators nimum of coll) (A2)  s (B2) (B4) on Aerial I	met at this po	check all that a	uter-Stained uatic Fauna ue Aquatic drogen Sul idized Rhiz esence of R cent Iron R n Muck Su uge or Wel	a (B13) Plants (E Ifide Odo cospheres Reduced Reduction urface (CT	B14) or (C1) s on Living F Iron (C4) n in Tilled Sc 7)		Secondary Indicate Surface Soil C Drainage Patte Dry Season W Crayfish Burro Saturation Vis Stunted or Str	prs (minimum of two required) racks (B6) erns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) osition (D2)
Pemarks:  I appears to be a criterion for hyder of the criterion of the cri	fill soil an ric soil is  Indicators nimum of co  (A2)  s (B2)  (B4)  on Aerial I d Concave	met at this po	check all that a	uter-Stained uatic Fauna ue Aquatic drogen Sul idized Rhiz esence of R cent Iron R n Muck Su uge or Wel	a (B13) Plants (E Ifide Odo cospheres Reduced Reductior urface (C: II Data (E n in Rem	B14) or (C1) s on Living F Iron (C4) n in Tilled Sc 7)		Secondary Indicate Surface Soil C Drainage Patte Dry Season W Crayfish Burro Saturation Vis Stunted or Str	prs (minimum of two required) racks (B6) erns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) osition (D2)
ril appears to be a e criterion for hyd  ril appears to be a criterion for hyd  ril appears to be a criterion for hyd  ril appears to be a e criterion for hyd  ril appears to be a criterion	fill soil an ric soil is  Indicators nimum of coll (A2)  s (B2) ) (B4) ) on Aerial I d Concave	met at this po	check all that a  Wa Aqu Hyc Oxi Pre Rec Gau Oth	uter-Stained uatic Fauna ue Aquatic drogen Sul idized Rhiz esence of F cent Iron F n Muck Su uge or Wel ner (Explain	a (B13) Plants (E Iffide Odo rospheres Reduced Reduction III Data (E In in Rem	B14) or (C1) s on Living F Iron (C4) n in Tilled Sc 7)		Secondary Indicate Surface Soil C Drainage Patte Dry Season W Crayfish Burro Saturation Vis Stunted or Str	ors (minimum of two required) racks (B6) erns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) osition (D2) est (D5)
Property of the property of th	fill soil an ric soil is  Indicators nimum of colling (A2)  (B4)  on Aerial I d Concave  ?  Y	magery (B7) Surface (B8)  res No (	check all that a	uter-Stained uatic Fauna ue Aquatic drogen Sul idized Rhiz esence of R cent Iron R n Muck Su uge or Wel ner (Explain	a (B13) Plants (E Ifide Odo cospheres Reduced Reductior urface (C: II Data (E n in Rem	B14) or (C1) s on Living F Iron (C4) n in Tilled Sc 7)	pils (C6)	Secondary Indicate Surface Soil C Drainage Patte Dry Season W Crayfish Burro Saturation Vis Stunted or Str	prs (minimum of two required) racks (B6) erns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) osition (D2)
PROLOGY  COROLOGY  COROLOG	fill soil an ric soil is  Indicators nimum of coll (A2)  (B4)  on Aerial I d Concave  ?  Y  ye  ye	magery (B7) Surface (B8)  res O No Ces	check all that a	uter-Stained uatic Fauna ue Aquatic drogen Sul idized Rhiz esence of Facent Iron Fan Muck Su uge or Wel her (Explain pepth (inch pepth (inch	a (B13) Plants (E Iffide Odo cospheres Reduced Reduction urface (CT II Data (E n in Rem nes):	B14) or (C1) s on Living F Iron (C4) n in Tilled Sc 7) D9) harks)	wetl	Secondary Indicate Surface Soil C Drainage Patte Dry Season W Crayfish Burro Saturation Vis Stunted or Str Geomorphic P FAC-Neutral T	ors (minimum of two required) racks (B6) erns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) osition (D2) est (D5)
PROLOGY  Part of the property	fill soil an ric soil is  Indicators nimum of coll (A2)  s (B2) ) (B4) ) on Aerial I d Concave  ? Y Que Y Data (stre	magery (B7) Surface (B8)  res No ( res	check all that a	uter-Stained uatic Fauna ue Aquatic drogen Sul idized Rhiz esence of Facent Iron F n Muck Su uge or Wel her (Explain depth (inch depth (inch	a (B13) Plants (E Iffide Odo cospheres Reduced Reduction urface (C: II Data (E n in Rem ales):	previous ir	wetl	Secondary Indicate Surface Soil C Drainage Patte Dry Season W Crayfish Burro Saturation Vis Stunted or Str Geomorphic P FAC-Neutral T	ors (minimum of two required) racks (B6) erns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) osition (D2) est (D5)
Pemarks: I appears to be a criterion for hyder default hydrology imary Indicators (mit of the property of the	fill soil an ric soil is  Indicators nimum of coll (A2)  s (B2) ) (B4) ) on Aerial I d Concave  ? Y Que Y Data (stre	magery (B7) Surface (B8)  res No ( res	check all that a	uter-Stained uatic Fauna ue Aquatic drogen Sul idized Rhiz esence of Facent Iron F n Muck Su uge or Wel her (Explain depth (inch depth (inch	a (B13) Plants (E Iffide Odo cospheres Reduced Reduction urface (C: II Data (E n in Rem ales):	previous ir	wetl	Secondary Indicate Surface Soil C Drainage Patte Dry Season W Crayfish Burro Saturation Vis Stunted or Str Geomorphic P FAC-Neutral T	ors (minimum of two required) racks (B6) erns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) osition (D2) est (D5)

Are Vegetation	Yes (Intly dist	• turbe emati	Long.:	(If no, ex Are "No (If need	S 19 T 5N R 22E  concave, convex, none): convex  Datum:  WWI classification: None  kplain in Remarks.)  prmal Circumstances" present? Yes No O  ded, explain any answers in Remarks.)  ns, transects, important features, etc.
Landform (hillslope, terrace, etc.): Backslope  Slope: 6.0% 3.4 ° Lat.:  Soil Map Unit Name: Ashkum silty clay loam (AsA), All hydric  Are climatic/hydrologic conditions on the site typical for this time of year?  Are Vegetation	Yes (Intly dist	• turbe emati	Long.:	(If no, ex Are "No (If need t location	Datum:  WWI classification: None  xplain in Remarks.)  prmal Circumstances" present? Yes No O  ded, explain any answers in Remarks.)  ns, transects, important features, etc.
Solope: 6.0% 3.4  Lat.:  Soil Map Unit Name: Ashkum silty clay loam (AsA), All hydric  Are climatic/hydrologic conditions on the site typical for this time of year?  Are Vegetation , Soil , or Hydrology significant  Are Vegetation , Soil , or Hydrology naturally  SUMMARY OF FINDINGS - Attach site map showing:  Hydrophytic Vegetation Present? Yes No   Hydric Soil Present? Yes No   Wetland Hydrology Present? Yes No   Remarks:  This point is located in a fallow field.  Two of three parameters have not been met at this point. Thus, the stratum (Plot size: 30' r )  **Tree Stratum** (Plot size: 30' r )  **Abset	ntly dist	• Iturbe emati	Long.:	(If no, ex Are "No (If need t location	Datum:  WWI classification: None  kplain in Remarks.)  prmal Circumstances" present? Yes No O  ded, explain any answers in Remarks.)  ns, transects, important features, etc.
Ashkum silty clay loam (AsA), All hydric  Are climatic/hydrologic conditions on the site typical for this time of year?  Are Vegetation , Soil , or Hydrology significant  Are Vegetation , Soil , or Hydrology naturally  SUMMARY OF FINDINGS - Attach site map showing:  Hydrophytic Vegetation Present? Yes No  Hydric Soil Present? Yes No  Wetland Hydrology Present? Yes No  Remarks:  This point is located in a fallow field.  Two of three parameters have not been met at this point. Thus, to  VEGETATION - Use scientific names of plants.  Tree Stratum (Plot size: 30' r )  Abs.  Abs.  Tree Stratum (Plot size: 30' r )	ntly dist	• Iturbe emati	No O ed? ic? g poin Is the	Are "No (If need t location Sampled A	WWI classification: None  Area  WWI classification: None  None  Yes No O  No O  No C  No C
Ashkum silty clay loam (AsA), All hydric  Are climatic/hydrologic conditions on the site typical for this time of year?  Are Vegetation , Soil , or Hydrology significant  Are Vegetation , Soil , or Hydrology naturally  SUMMARY OF FINDINGS - Attach site map showing:  Hydrophytic Vegetation Present? Yes No  Hydric Soil Present? Yes No  Wetland Hydrology Present? Yes No  Remarks:  This point is located in a fallow field.  Two of three parameters have not been met at this point. Thus, to  VEGETATION - Use scientific names of plants.  Tree Stratum (Plot size: 30' r )  Abs.  Abs.  Tree Stratum (Plot size: 30' r )	ntly dist	• Iturbe emati	No O ed? ic? g poin Is the	Are "No (If need t location Sampled A	WWI classification: None  Area  WWI classification: None  None  Yes No O  No O  No C  No C
Are climatic/hydrologic conditions on the site typical for this time of year?  Are Vegetation	ntly dist	plin	ed? ic?  g poin  Is the	Are "No (If need t location Sampled A	Area
Are Vegetation	ntly dist	plin	ed? ic?  g poin  Is the	Are "No (If need t location Sampled A	ormal Circumstances" present?  Yes No O  ded, explain any answers in Remarks.)  ns, transects, important features, etc.
SUMMARY OF FINDINGS - Attach site map showing sometimes of plants.  Are Vegetation	r proble	plin	ic?  Ig poin	(If need to location Sampled A	ded, explain any answers in Remarks.)  ns, transects, important features, etc.  Area
SUMMARY OF FINDINGS - Attach site map showing something showing something showing something some	samp	plin	g poin	t location	ns, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No ● Hydric Soil Present? Yes No ● Wetland Hydrology Present? Yes No ● Remarks: This point is located in a fallow field. Two of three parameters have not been met at this point. Thus, t  VEGETATION - Use scientific names of plants.  Abs.  Tree Stratum (Plot size: 30' r )			Is the	Sampled A	Area
Hydric Soil Present?  Wetland Hydrology Present?  Remarks: This point is located in a fallow field. Two of three parameters have not been met at this point. Thus, t  VEGETATION - Use scientific names of plants.  Tree Stratum (Plot size: 30' r )	this po	oint			
Wetland Hydrology Present?  Remarks: This point is located in a fallow field. Two of three parameters have not been met at this point. Thus, t  VEGETATION - Use scientific names of plants.  Abs.  Tree Stratum (Plot size: 30' r ) % C	this po	oint			
Remarks: This point is located in a fallow field. Two of three parameters have not been met at this point. Thus, t  VEGETATION - Use scientific names of plants.  Tree Stratum (Plot size: 30' r )	this po	oint			·· 163 O 140 O
This point is located in a fallow field. Two of three parameters have not been met at this point. Thus, t  VEGETATION - Use scientific names of plants.  Abs.  Tree Stratum (Plot size: 30' r )	this po	oint			
Two of three parameters have not been met at this point. Thus, t  VEGETATION - Use scientific names of plants.  Abs.  Tree Stratum (Plot size: 30' r )	this po	oint			
VEGETATION - Use scientific names of plants.  Abs.  Tree Stratum (Plot size: 30' r ) % C	this po	oint			
Tree Stratum (Plot size: 30' r )			is locate	d in an upl	and.
Tree Stratum (Plot size: 30' r ) Abso		Do	minant		
Tree Stratum (Plot size: 30' r ) % C	oluto	- Sp	ecies?	Indicator	Dominance Test worksheet:
1	Cover		el.Strat. Cover	Status	
1	0		0.0%		Number of Dominant Species That are OBL, FACW, or FAC:1(A)
2.	0		0.0%		Total Number of Dominant
	0	ᆜ.	0.0%		Species Across All Strata:2 (B)
	0	Ц.	0.0%		Dercent of deminent Chasins
	0	Щ_	0.0%		Percent of dominant Species That Are OBL, FACW, or FAC:50.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15' r )	0	=	otal Cove		Prevalence Index worksheet:
1	0		0.0%		Total % Cover of: Multiply by:
	0		0.0%		OBL species $0 \times 1 = 0$
3.	0		0.0%		FACW species $7 \times 2 = 14$
4.	0		0.0%		FAC species 40 x 3 = 120
	0		0.0%		FACU species 63 x 4 = 252
Herb Stratum (Plot size: 5' r	0	= T	otal Cove	r	UPL species 3 x 5 = 15
1, Lotus corniculatus	60_	<b>✓</b> _	53.1%	FACU	Column Totals: 113 (A) 401 (B)
2. Poa pratensis	40	✓	35.4%	FAC	Prevalence Index = B/A = 3.549
3. Phalaris arundinacea	5		4.4%	FACW	Hydrophytic Vegetation Indicators:
	3	므.	2.7%	FACU	1 - Rapid Test for Hydrophytic Vegetation
	3	۲-	2.7%	UPL	2 - Dominance Test is > 50%
7	2	Η-	1.8%	FACW	3 - Prevalence Index is ≤3.0 <sup>1</sup>
0	0	Η-	0.0%		4 - Morphological Adaptations 1 (Provide supporting
0	0		0.0%		data in Remarks or on a separate sheet)
10	0	┌	0.0%		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
11	13	= T	otal Cove		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: 30' r			0.001		be present, unless disturbed or problematic.
	0	屵	0.0%		Hydrophytic
	0	<u>۔</u> ۔۔	otal Cove		Vegetation Present? Yes ○ No ●
	0	= 1	отат C0V6		riesellt.

Profile Description: (Describe to the d Depth Matrix	eptn need		t the indic dox Featui		ifirm the	absence o	of indicators.	)
(inches) Color (moist) %	6 C	olor (moist)	%	Туре	Loc <sup>2</sup>	т	exture	Remarks
0-2 10YR 4/2 10	00					Sandy C	lay Loam	
2-20 10YR 5/4 10	00					Loamy S	and	-30% gravel
pe: C=Concentration, D=Depletion, RM	=Reduced N	Matrix, CS=Cover	ed or Coate	d Sand Gra	ns.	Eocation:	PL=Pore Linir	ng. M=Matrix.
dric Soil Indicators:	Г	$\neg$				Indic	ators for Pro	blematic Hydric Soils $^3$ :
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Muck Mineral (S1)	] [ ] [ ]	Sandy Gleyec Sandy Redox Stripped Matr Loamy Mucky Loamy Gleyer Depleted Mat Redox Dark S Depleted Dar Redox Depre	(S5)  / Mineral (Foundation (F2)  / Matrix (F3)  / Surface (F6)  / K Surface (F6)	1)		Di Irr	ery Shallow Da ther (Explain in icators of hydrowetland hydro	7) Masses (F12) In Remarks)  Tophytic vegetation and logy must be present,
5 cm Mucky Peat or Peat (S3) strictive Layer (if observed):							uniess disturi	ped or problematic.
I appears to be a fill soil and thus decriterion for hydric soil is not met		nt.						
etland Hydrology Indicators: imary Indicators (minimum of one is requ	uirad: chack	all that apply)					Socondary Inc	licators (minimum of two required)
	Jirea; check			(0.0)		<del></del> -		licators (minimum of two required)
Surface Water (A1)  High Water Table (A2)		Aquatic Fau	ned Leaves	(B9)			_	oil Cracks (B6) Patterns (B10)
Saturation (A3)		True Aquat		14)				n Water Table (C2)
Water Marks (B1)		Hydrogen S						urrows (C8)
Sediment Deposits (B2)		Oxidized Rh			nots (C3)		´	Visible on Aerial Imagery (C9)
Drift Deposits (B3)			f Reduced I		0013 (03)			r Stressed Plants (D1)
Algal Mat or Crust (B4)			Reduction	. ,	ls (C6)		_	nic Position (D2)
Iron Deposits (B5)			Surface (C7		13 (00)			ral Test (D5)
Inundation Visible on Aerial Imagery (I	B7)	Gauge or W	,					a. 100t (20)
Sparsely Vegetated Concave Surface (I			ain in Rema					
eld Observations:								
.,	No •	Depth (in	ches):					
					•			
urface Water Present? Yes O ater Table Present? Yes O	No •	Depth (in	ches):		Wetla	and Hydro	ology Presen	t? Yes○ No •
urface Water Present? Yes O	No <b>⊙</b> No <b>⊙</b>	Depth (in	ches):	previous ir				t? Yes ○ No ⑨
arface Water Present? Yes O ater Table Present? Yes O ater Table Present? Yes O ater Table Present? Yes O ateriation Present? Yes O accludes capillary fringe) ascribe Recorded Data (stream gauge	No   No   ge, monitor	Depth (in Depth (in ring well, aeria	ches):		spections			t? Yes ○ No ⑨
urface Water Present? Yes O later Table Present? Yes O laturation Present? Yes O laturation Present? Yes O laturation Present? Yes O	No   No   ge, monitor  NRCS Soil	Depth (in Depth (in ring well, aeria s map, Topogr	ches): ches): I photos, paphic map	, Aerial pł	spections			t? Yes ○ No ⑨

Are Vegetation	Yes (	Long.:  No oturbed?  Is twite  cated in a  Dominar  Species	(If no, example)  Are "No (If nee  int location  the Sampled Athin a Wetland.  wetland.  Indicator Status	Datum:  WWI classification: None  kplain in Remarks.)  prmal Circumstances" present? Yes No O  ded, explain any answers in Remarks.)  ns, transects, important features, etc.
Landform (hillslope, terrace, etc.): Toeslope  Slope: 0.0% 0.0 ° Lat.:  Soil Map Unit Name: Ashkum silty clay loam (AsA), All hydric  Are climatic/hydrologic conditions on the site typical for this time of year?  Are Vegetation , Soil , or Hydrology , significal and Are Vegetation , soil , or Hydrology , naturally  SUMMARY OF FINDINGS - Attach site map showing  Hydrophytic Vegetation Present? Yes No , No , Yes No , No	Yes (santly distinguished problem)  samp  solute Cover  0 0 0	Long.:  No oturbed?  Is twite  ated in a  Dominar  Species' Rel.Strat Cover  0.0% 0.0%	(If no, exampled Anin a Wetland) wetland.	Datum:  WWI classification: None  kplain in Remarks.)  primal Circumstances" present? Yes No O  ded, explain any answers in Remarks.)  ns, transects, important features, etc.  Area di? Yes No O  Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC: 2 (A  Total Number of Dominant
Slope: 0.0% 0.0 • Lat.:  Soil Map Unit Name: Ashkum silty clay loam (AsA), All hydric  Are climatic/hydrologic conditions on the site typical for this time of year?  Are Vegetation , Soil , or Hydrology significal are Vegetation , Soil , or Hydrology naturally.  SUMMARY OF FINDINGS - Attach site map showing  Hydrophytic Vegetation Present? Yes No Wetland Hydrology Present? Yes No Remarks:  All three parameters have been met at this point. Thus, this point This wetland appears to have developed in fill material.  VEGETATION - Use scientific names of plants.  Tree Stratum (Plot size: 30' r ) % 6 4 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7	samp  nt is loc  solute  Cover  0 0 0	Dominar - Species' Rel.Strat Cover 0.0% 0.0%	(If no, ex Are "No (If nee int location he Sampled Ahin a Wetland.  wetland.  Indicator Status	Datum:  WWI classification: None  kplain in Remarks.)  primal Circumstances" present? Yes No odded, explain any answers in Remarks.)  ms, transects, important features, etc.  Area  1? Yes No odded  Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC: 2 (A
Soil Map Unit Name: Ashkum silty clay loam (AsA), All hydric  Are climatic/hydrologic conditions on the site typical for this time of year?  Are Vegetation  , Soil  , or Hydrology  , significal are Vegetation  , Soil  , or Hydrology  , naturally  SUMMARY OF FINDINGS - Attach site map showing  Hydrophytic Vegetation Present?	samp  nt is loc  solute  Cover  0 0 0	Dominar - Species' Rel.Strat Cover 0.0% 0.0%	Are "No (If nee int location he Sampled Ahin a Wetland wetland.  The sampled Ahin a Wetland wetland.	WWI classification: None  kplain in Remarks.)  prmal Circumstances" present? Yes No o  ded, explain any answers in Remarks.)  ns, transects, important features, etc.  Area di? Yes No o  Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC: 2 (A  Total Number of Dominant
Soil Map Unit Name: Ashkum silty clay loam (AsA), All hydric  Are climatic/hydrologic conditions on the site typical for this time of year?  Are Vegetation  , Soil  , or Hydrology  , significal are Vegetation  , Soil  , or Hydrology  , naturally  SUMMARY OF FINDINGS - Attach site map showing  Hydrophytic Vegetation Present?	samp  nt is loc  solute  Cover  0 0 0	Dominar - Species' Rel.Strat Cover 0.0% 0.0%	Are "No (If nee int location he Sampled Ahin a Wetland wetland.  The sampled Ahin a Wetland wetland.	primal Circumstances" present? Yes No Coded, explain any answers in Remarks.)  ns, transects, important features, etc.  Area d? Yes No Code  Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC: 2 (A
Are climatic/hydrologic conditions on the site typical for this time of year?  Are Vegetation	samp  nt is loc  solute  Cover  0 0 0	Dominar - Species Rel.Strat Cover 0.0% 0.0%	Are "No (If nee int location he Sampled Ahin a Wetland wetland.  The sampled Ahin a Wetland wetland.	primal Circumstances" present? Yes No Coded, explain any answers in Remarks.)  ns, transects, important features, etc.  Area d? Yes No Code  Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC: 2 (A
Are Vegetation	samp  nt is loc  solute  Cover  0 0 0	Dominar - Species Rel.Strat Cover 0.0% 0.0%	Are "No (If nee int location he Sampled Ahin a Wetland wetland.  The sampled Ahin a Wetland wetland.	prmal Circumstances" present?  ded, explain any answers in Remarks.)  ns, transects, important features, etc.  Area d?  Yes  No  Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant
Are Vegetation	samp  nt is loc  solute Cover  0 0 0	Dominar Species: Rel.Strat Cover  0.0% 0.0%	wetland.	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?  Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:  All three parameters have been met at this point. Thus, this point This wetland appears to have developed in fill material.  WEGETATION - Use scientific names of plants.  Tree Stratum (Plot size: 30' r )  1.  2.  3.  4.	samp  nt is local  solute Cover  0 0 0	Dominar - Species Rel.Strat Cover 0.0%	wetland.  Indicator Status	ns, transects, important features, etc.  Area di? Yes  No   Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC: 2 (A
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:  All three parameters have been met at this point. Thus, this point This wetland appears to have developed in fill material.  VEGETATION - Use scientific names of plants.  Tree Stratum (Plot size: 30' r )  1.  2.  3.  4.	solute Cover	Dominar - Species Rel.Strat Cover - 0.0% - 0.0%	wetland.	Area di? Yes • No   Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant
Hydric Soil Present?  Wetland Hydrology Present?  Remarks: All three parameters have been met at this point. Thus, this point This wetland appears to have developed in fill material.  VEGETATION - Use scientific names of plants.  Tree Stratum (Plot size: 30' r )  1. 2. 3. 4.	solute Cover	Dominar - Species Rel.Strat Cover - 0.0% - 0.0%	wetland.	Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant
Wetland Hydrology Present?  Remarks: All three parameters have been met at this point. Thus, this point This wetland appears to have developed in fill material.  VEGETATION - Use scientific names of plants.  Tree Stratum (Plot size: 30' r )	solute Cover	Dominar - Species Rel.Strat Cover - 0.0% - 0.0%	wetland.	Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant
Remarks: All three parameters have been met at this point. Thus, this point This wetland appears to have developed in fill material.  VEGETATION - Use scientific names of plants.  Tree Stratum (Plot size: 30' r )	solute Cover	Dominar - Species: Rel.Strat Cover - 0.0% - 0.0%	wetland.	Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC: 2 (A
All three parameters have been met at this point. Thus, this point This wetland appears to have developed in fill material.  VEGETATION - Use scientific names of plants.  Tree Stratum (Plot size: 30' r )	solute Cover	Dominar - Species: Rel.Strat Cover - 0.0% - 0.0%	Indicator Status	Number of Dominant Species That are OBL, FACW, or FAC:  2 (A Total Number of Dominant
This wetland appears to have developed in fill material.  VEGETATION - Use scientific names of plants.  Tree Stratum (Plot size: 30' r ) % 6 1. 2. 3. 4. 4.	solute Cover	Dominar - Species: Rel.Strat Cover - 0.0% - 0.0%	Indicator Status	Number of Dominant Species That are OBL, FACW, or FAC:  2 (A Total Number of Dominant
Tree Stratum (Plot size: 30' r ) % (1. 2. 3. 4.	0 0 0	0.0% 0.0% 0.0%	Status	Number of Dominant Species That are OBL, FACW, or FAC:  2 (A Total Number of Dominant
1. 2. 3. 4.	0	0.0% 0.0%	=	That are OBL, FACW, or FAC: 2 (A  Total Number of Dominant
2. 3. 4.	0	0.0%		Total Number of Dominant
3. 4.				
	0	0.0%		Species Across Air Strata. 2 (D
5				
	0	0.0%		Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A
Sapling/Shrub Stratum (Plot size: 15' r )	0	= Total Co	ver	
1	0	0.0%		Prevalence Index worksheet:
	0	0.0%		Total % Cover of: Multiply by:  OBL species 95 x 1 = 95
	0	0.0%		FACW species $\frac{73}{13}$ $\times 2 = \frac{26}{26}$
4.	0	0.0%		FAC species 30 x 3 = 90
5.	0	0.0%		FACU species 2 x 4 = 8
Herb Stratum (Plot size: 5' r )	0	= Total Co	ver	UPL species 0 x 5 = 0
	60	<b>✓</b> 42.9%	S OBL	Column Totals: 140 (A) 219 (B)
		21.4%		
	20	14.3%		
4. Juncus canadensis	15	10.7%	OBL	Hydrophytic Vegetation Indicators:
5. Phalaris arundinacea	8	5.7%	FACW	1 - Rapid Test for Hydrophytic Vegetation
6. Euthamia graminifolia	3	2.1%	FACW	<ul> <li>2 - Dominance Test is &gt; 50%</li> <li>3 - Prevalence Index is ≤3.0 ¹</li> </ul>
7. Solidago sempervirens	2	1.4%		4 - Morphological Adaptations <sup>1</sup> (Provide suppor
8. Cirsium vulgare 9.	2	1.4%		data in Remarks or on a separate sheet)
10	0	0.0%		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	0	0.0%		<sup>1</sup> Indicators of hydric soil and wetland hydrology me
Woody Vine Stratum (Plot size: 30' r )	140	= Total Co	vei	be present, unless disturbed or problematic.
1	0	0.0%		
2	0	0.0%		Hydrophytic Vegetation
_	0	= Total Co	ver	Present? Yes • No
				<u> </u>

Depth	•	Matrix		eeded to do		x Featu	ires			-
(inches)	Color (n		%	Color (mo		%	Туре	Loc2	Texture	Remarks
0-7	10YR	4/1	95	7.5YR	4/6	5	С	М	Sandy Clay Loam	- 200/
7-10	10YR	4/4	100						Sandy Clay Loam	20% gravel
10-20	10YR	4/1	70	10YR	4/2	20	D	М	Sandy Clay Loam	
	10YR	2/1	5	10YR	5/6	5	С	М		
_			_							
ype: C=Conc	entration, D	=Depletion	, RM=Reduce	ed Matrix, CS	=Covered	or Coate	ed Sand Gra	ins.	PL=Pore Linin	ng. M=Matrix.
<b>lydric Soil Ir</b> ☐ Histosol (A					y Gleyed M				Indicators for Pro	blematic Hydric Soils <sup>3</sup> :
Stratified L 2 cm Muck Depleted B Thick Dark Sandy Muc	c (A3) Sulfide (A4) Layers (A5)	2)	1)	Stripp  Loam  Loam  Deple  Redox  Deple	y Redox (Stock of Matrix) y Mucky M y Gleyed M eted Matrix x Dark Surfeted Dark S x Depression	(S6) lineral (F Matrix (F3) (F3) face (F6) Surface (	2)		Other (Explain in a second of the second of	7) Masses (F12) rk Surface (TF12)
Type: No Depth (inch								—	Hydric Soil Present	? Yes • No O
	nes): NA o be a fill s								Hydric Soil Present	? Yes • No ·
Depth (inch Remarks: bil appears to the criterion f	o be a fill so or hydric so	oil is met							Hydric Soil Present	? Yes • No
Depth (inch Remarks: oil appears to ne criterion f	o be a fill so for hydric so	oil is met	at this poin	nt.	apply)					? Yes  No  licators (minimum of two required)
Depth (inch Remarks: bil appears to the criterion f  YDROLO  Yetland Hydr rimary Indicat  Surface Wa High Water Saturation Water Mar Sediment [ Drift Depos Algal Mat o Iron Depos Inundation	o be a fill so for hydric so f	cators: m of one is	at this poin	neck all that a  Wat Aqu True Hyd Oxid Press Rec Thir	ter-Stained uatic Fauna e Aquatic F drogen Sulf dized Rhizc sence of Re	n (B13)  Plants (B  Fide Odo  Dispheres  educed  eduction  rface (C7  I Data (E	s14) r (C1) s on Living F Iron (C4) n in Tilled Sc 7)		Secondary Inc Surface So Drainage Dry Seasc Crayfish E Saturatior Stunted o	licators (minimum of two required) Dil Cracks (B6) Patterns (B10) In Water Table (C2) In Water Table (C2) In Visible on Aerial Imagery (C9) In Stressed Plants (D1) In Position (D2)
Depth (inch Remarks: bil appears to the criterion f  YDROLO  Yetland Hydr rimary Indicat  Surface Wa High Water Saturation Water Mar Sediment I Drift Depos Inundation Sparsely Water I Vater Table Presencludes capillal escribe Reco	o be a fill so o be a	cators: m of one is  Aerial Image ncave Surfa  Yes  Yes  (stream of	ery (B7) ace (B8)  No •  No •  Gauge, mor	neck all that a  Wat Aqu Hyc Oxic Pres Rec Thir Gau Oth Do	ter-Stained uatic Fauna e Aquatic Fauna e Aquatic Fdrogen Sulf dized Rhizo sence of Recent Iron Ren Muck Suruge or Well user (Explain epth (incheepth (inc	n (B13) Plants (B Fide Odo pospheres educed eduction face (C7 I Data (E n in Rem ess): ess):	previous ir	wetl	Secondary Inc Surface So Drainage Dry Seasc Crayfish E Saturatior Stunted o	dicators (minimum of two required) Dil Cracks (B6) Patterns (B10) In Water Table (C2) In Wisible on Aerial Imagery (C9) In Stressed Plants (D1) In Position (D2) Tal Test (D5)
Depth (inch Remarks: bil appears to the criterion f  YDROLO  Yetland Hydr rimary Indicat  Surface Wa High Water Saturation Water Mar Sediment [ Drift Depos Algal Mat o Iron Depos Inundation Sparsely Vi  ield Observa  urface Water If //ater Table Pro aturation Pres ncludes capilla	o be a fill so o be a	cators: m of one is  Aerial Image ncave Surfa  Yes  Yes  (stream of	ery (B7) ace (B8)  No •  No •  Gauge, mor	neck all that a  Wat Aqu Hyc Oxic Pres Rec Thir Gau Oth Do	ter-Stained uatic Fauna e Aquatic Fauna e Aquatic Fdrogen Sulf dized Rhizo sence of Recent Iron Ren Muck Suruge or Well user (Explain epth (incheepth (inc	n (B13) Plants (B Fide Odo pospheres educed eduction face (C7 I Data (E n in Rem ess): ess):	previous ir	wetl	Secondary Inc Surface Si Drainage Dry Seasc Crayfish E Saturation Stunted o FAC-Neuti	dicators (minimum of two required) Dil Cracks (B6) Patterns (B10) In Water Table (C2) In Wisible on Aerial Imagery (C9) In Stressed Plants (D1) Inic Position (D2) Tal Test (D5)

Project/Site: IH 94 (N-S Freeway)	City	y/County:	Milwaukee C	ounty		Sampling Date	:06-Aug-14
Applicant/Owner: Wisconsin Department of Transportation			State:	WI	Sampling	Point:	SP-30
Investigator(s): Ron Londre, Geof Parish	S	Section, Tow	vnship, Range:	S 19 7	г <u>5N</u>	R 22E	
Landform (hillslope, terrace, etc.): Toeslope/ditch			Local relief (c	concave, convex, r	none): con	icave	
Slope: 5.0% 2.9 • Lat.:		Long.:				Datum:	
Soil Map Unit Name: Blount silt Ioam (BIA), Not hydric				WWI	classification	= = 1: F2K	
Are climatic/hydrologic conditions on the site typical for this time of	vear? Yes	● No ○	(If no. ex	xplain in Remarks.		" LZK	
	significantly dist		•	' ormal Circumstand		ye:	s • No O
	naturally proble				•		
			,	ded, explain any a		,	_
SUMMARY OF FINDINGS - Attach site map sho	owing samp	oling poi	nt locatio	ns, transects	s, import	tant featu	res, etc.
Hydrophytic Vegetation Present? Yes  No  No		Total	ne Sampled A	lron			
Hydric Soil Present? Yes No No			in a Wetland		No 💿		
Wetland Hydrology Present? Yes O No O							
This point is located in a roadside ditch. One of three par Thus, this point is located in an upland.  VEGETATION - Use scientific names of plants.		Dominant	t	nt.  Dominance Te	ast warksh	aat:	
_Tree Stratum _(Plot size: _12' x 235')	% Cover	Rel.Strat. Cover	. Indicator Status				
1	0	0.0%		<ul> <li>Number of Don That are OBL, f</li> </ul>			1 (A)
2.	0	0.0%		Total Number of	of Dominant		
3	0	0.0%		Species Across			1 (B)
4 5.		0.0%		Percent of do	minant Sn	ocios	
J		= Total Cov		That Are OBL			100.0% (A/B)
Sapling/Shrub Stratum (Plot size: 12' x 60' )		= 10(a) C0(	/ei	Prevalence In	dev works	heet:	
1.	0	0.0%			Cover of:		y by:
2.	0	0.0%		OBL species			
	0	0.0%		FACW specie	es11	x 2 =	22
3	'				-		240
4.	0	0.0%		FAC species	80	) x 3 =	
1   <del>                                </del>	0	0.0%		FACU specie	es 33		
4.	0		/er		es 33	x 4 =	
4. 5.	0 0	0.0%		FACU specie	es 33 5	x 4 = x 5 =	132
4. 5. Herb Stratum (Plot size: 5' r )	0 0	0.0% = Total Cov	FAC	FACU species UPL species Column Tota	es 33 5	x 4 = x 5 = (A)	132 25
4. 5.  Herb Stratum (Plot size: 5' r )  1. Poa pratensis  2. Elymus repens  3. Cirsium arvense	0 0 0	0.0% = Total Cov	FAC	FACU species UPL species Column Tota Prevalence	es 33 5 als: 12 ce Index =	x 4 = x 5 = 9 (A)	132 25 419 (B)
4. 5. Herb Stratum (Plot size: 5' r ) 1. Poa pratensis 2. Elymus repens 3. Cirsium arvense 4. Symphyotrichum novae-angliae	0 0 0 80 15 8	0.0% = Total Cov  62.0%  11.6%  6.2%	FACU FACU FACW	FACU species UPL species Column Tota Prevalence Hydrophytic V	23	3	132 25 419 (B) 3.248
4. 5. Herb Stratum (Plot size: 5' r ) 1. Poa pratensis 2. Elymus repens 3. Cirsium arvense 4. Symphyotrichum novae-angliae 5. Daucus carota	0 0 0 80 15 8 8	0.0% = Total Cov 62.0% 11.6% 6.2% 6.2% 3.9%	FACU FACU FACW UPL	FACU species UPL species Column Tota Prevalence Hydrophytic V  1 - Rapid 1	23	3	132 25 419 (B) 3.248
4. 5. Herb Stratum (Plot size: 5' r ) 1. Poa pratensis 2. Elymus repens 3. Cirsium arvense 4. Symphyotrichum novae-angliae 5. Daucus carota 6. Parthenocissus quinquefolia	0 0 0 80 15 8 8 8 5	0.0% = Total Cov  62.0%  11.6%  6.2%  6.2%  3.9%  3.9%	FACU FACU FACW UPL FACU	FACU species UPL species Column Tota Prevalence Hydrophytic V 1 - Rapid 1	es 33 5 als: 12 ce Index = /egetation	3	132 25 419 (B) 3.248
4. 5. Herb Stratum (Plot size: 5' r ) 1 Poa pratensis 2 Elymus repens 3 Cirsium arvense 4 Symphyotrichum novae-angliae 5 Daucus carota 6 Parthenocissus quinquefolia 7 Solidago canadensis	0 0 0 80 15 8 8 5 5	0.0% = Total Cov  62.0%  11.6%  6.2%  6.2%  3.9%  3.9%  3.9%	FACU FACU FACW UPL FACU FACU	FACU species UPL species Column Tota Prevalence Hydrophytic V	als: 12 ce Index = /egetation Test for Hy ance Test is ence Index ological Ad	3	132 25 419 (B) 3.248 getation
4. 5. Herb Stratum (Plot size: 5' r ) 1. Poa pratensis 2. Elymus repens 3. Cirsium arvense 4. Symphyotrichum novae-angliae 5. Daucus carota 6. Parthenocissus quinquefolia	0 0 0 80 15 8 8 8 5	0.0% = Total Cov  62.0%  11.6%  6.2%  6.2%  3.9%  3.9%	FACU FACU FACW UPL FACU	FACU species UPL species Column Tota Prevalence Hydrophytic V 1 - Rapid 1 2 - Domina 3 - Prevale 4 - Morpho data in Re	als: 12 ce Index = /egetation Test for Hy ance Test is ence Index ological Ad marks or o	3	132 25 419 (B) 3.248 getation
4. 5.  Herb Stratum (Plot size: 5' r )  1. Poa pratensis  2. Elymus repens  3. Cirsium arvense  4. Symphyotrichum novae-angliae  5. Daucus carota  6. Parthenocissus quinquefolia  7. Solidago canadensis  8. Vitis riparia	0 0 0 80 15 8 8 5 5 5	0.0%  ■ Total Cov  11.6%  62.0%  1.6%  6.2%  3.9%  3.9%  3.9%  2.3%	FACU FACU FACW UPL FACU FACU	FACU species UPL species Column Tota Prevalence Hydrophytic V 1 - Rapid 1 2 - Domina 3 - Prevale 4 - Morpho data in Re	als: 12 ce Index = /egetation Test for Hy ance Test is ence Index ological Ad marks or o	3	132 25 419 (B) 3.248 getation
4. 5. Herb Stratum (Plot size: 5' r )  1. Poa pratensis 2. Elymus repens 3. Cirsium arvense 4. Symphyotrichum novae-angliae 5. Daucus carota 6. Parthenocissus quinquefolia 7. Solidago canadensis 8. Vitis riparia 9. 10.	0 0 0 80 15 8 8 5 5 5 3	0.0%  = Total Cov  11.6%  62.0%  1.6%  6.2%  6.2%  3.9%  3.9%  3.9%  2.3%  0.0%	FACU FACU FACW UPL FACU FACU FACU FACU	FACU species UPL species Column Tota Prevalence Hydrophytic V 1 - Rapid 1 2 - Domina 3 - Prevale 4 - Morphodata in Re Problemat  Indicators of	als: 12 ce Index = /egetation if Test for Hy ance Test is ence Index ological Ad smarks or o tic Hydroph of hydric so	X 4 = X 5 = 9 (A)  B/A =  Indicators:  drophytic Vegs > 50%  is ≤3.0 ¹  aptations ¹ (an a separate pytic Vegetation)	132 25 419 (B) 3.248 getation Provide supporting sheet) on ¹ (Explain)
4. 5.  Herb Stratum (Plot size: 5' r )  1. Poa pratensis  2. Elymus repens  3. Cirsium arvense  4. Symphyotrichum novae-angliae  5. Daucus carota  6. Parthenocissus quinquefolia  7. Solidago canadensis  8. Vitis riparia  9.  10.  Woody Vine Stratum (Plot size: 12' x 235' )	0 0 0 80 15 8 8 8 5 5 5 3 0 0	0.0%  ■ Total Cov  ■ 62.0%  □ 11.6%  □ 6.2%  □ 6.2%  □ 3.9%  □ 3.9%  □ 2.3%  □ 0.0%  ■ Total Cov	FACU FACU FACW UPL FACU FACU FACU FACU	FACU species UPL species Column Tota Prevalence Hydrophytic V	als: 12 ce Index = /egetation if Test for Hy ance Test is ence Index ological Ad smarks or o tic Hydroph of hydric so	X 4 = X 5 = 9 (A)  B/A =  Indicators:  drophytic Vegs > 50%  is ≤3.0 ¹  aptations ¹ (an a separate pytic Vegetation)	132 25 419 (B) 3.248 getation Provide supporting sheet) on ¹ (Explain)
4. 5.  Herb Stratum (Plot size: 5' r )  1. Poa pratensis 2. Elymus repens 3. Cirsium arvense 4. Symphyotrichum novae-angliae 5. Daucus carota 6. Parthenocissus quinquefolia 7. Solidago canadensis 8. Vitis riparia 9. 10.  Woody Vine Stratum (Plot size: 12' x 235' ) 1.	0 0 0 80 15 8 8 8 5 5 5 3 0 0 0 129	□ 0.0%  ■ Total Cov  ■ 62.0%  □ 11.6% □ 6.2% □ 3.9% □ 3.9% □ 2.3% □ 0.0% □ 0.0% ■ Total Cov	FACU FACU FACW UPL FACU FACU FACU FACU	FACU species UPL species Column Tota Prevalence Hydrophytic V 1 - Rapid 1 2 - Domina 3 - Prevale 4 - Morphodata in Re Problemat 1 Indicators of be present, un	als: 12 ce Index = /egetation if Test for Hy ance Test is ence Index ological Ad smarks or o tic Hydroph of hydric so	X 4 = X 5 = 9 (A)  B/A =  Indicators:  drophytic Vegs > 50%  is ≤3.0 ¹  aptations ¹ (an a separate pytic Vegetation)	132 25 419 (B) 3.248 getation Provide supporting sheet) on ¹ (Explain)
4. 5.  Herb Stratum (Plot size: 5' r )  1. Poa pratensis  2. Elymus repens  3. Cirsium arvense  4. Symphyotrichum novae-angliae  5. Daucus carota  6. Parthenocissus quinquefolia  7. Solidago canadensis  8. Vitis riparia  9.  10.  Woody Vine Stratum (Plot size: 12' x 235' )	0 0 0 80 15 8 8 8 5 5 5 3 0 0	0.0%  ■ Total Cov  ■ 62.0%  □ 11.6%  □ 6.2%  □ 6.2%  □ 3.9%  □ 3.9%  □ 2.3%  □ 0.0%  ■ Total Cov	FACU FACU FACW UPL FACU FACU FACW Ver	FACU species UPL species Column Tota Prevalence Hydrophytic V 1 - Rapid 1 2 - Domina 3 - Prevale 4 - Morpho data in Re Problemat  1 Indicators of	als: 12 ce Index = /egetation if Test for Hy ance Test is ence Index ological Ad smarks or o tic Hydroph of hydric so	8 × 4 = × 5 = 9 (A) B/A = Indicators: drophytic Vess > 50% is ≤3.0 ¹ aptations ¹ (n a separate nytic Vegetations)	132 25 419 (B) 3.248 getation Provide supporting sheet) on ¹ (Explain)

Profile Description: ()  Depth	Describe to t Matrix	tne aeptn ne		ent the indi Redox Feati		ntirm the	absence of indicators.)	
	r (moist)	%	Color (moist)	%	Type	Loc2	Texture	Remarks
0-7 10YR	4/2	98	10YR 4/6	2	С	М	Silty Clay Loam	
7-20 10YR	5/4	40	10YR 5/2	20	D	М	Sandy Clay Loam	
10YR	5/3	40						
						-		
pe: C=Concentration	D-Doplotion	DM_Poduc	ad Matrix, CS_Cov	vorod or Coat	od Sand Cra	inc	Location: PL=Pore Lining, M	I_Matrix
dric Soil Indicator		i, Rivi=Reduct	ed Iviati ix, CS=COV	ered or coat	eu Sanu Gra	1115.		
Histosol (A1)	J.		Sandy Glev	ved Matrix (S	4)		Indicators for Problem	-
Histic Epipedon (A2	2)		Sandy Red		.,		Coast Prairie Redox (	(A16)
Black Histic (A3)			Stripped M				☐ Dark Surface (S7)	
Hydrogen Sulfide (A	44)			cky Mineral (	F1)		Iron Manganese Mas	ses (F12)
Stratified Layers (A	5)			yed Matrix (F	,		✓ Very Shallow Dark Su	urface (TF12)
2 cm Muck (A10)			✓ Depleted N		-/		Other (Explain in Rer	marks)
Depleted Below Da	rk Surface (A1	1)		k Surface (F6	5)			
Thick Dark Surface	(A12)			ark Surface	,		3	
Sandy Muck Minera	I (S1)			ressions (F8	. ,		Indicators of hydrophy wetland hydrology	tic vegetation and
5 cm Mucky Peat or	Peat (S3)		☐ Kedox Det	1 62210112 (1 0	)		unless disturbed of	
strictive Layer (if o	bserved):							
Type: None								
Depth (inches): NA							Hydric Soil Present?	Yes   No
/DROLOGY								
etland Hydrology I								
mary Indicators (mini	mum of one is	s required; ch						rs (minimum of two required)
Surface Water (A1)				ained Leaves	s (B9)		Surface Soil Cr	` '
High Water Table (A	A2)			auna (B13)			☐ Drainage Patte	
Saturation (A3)				ıatic Plants (I			☐ Dry Season Wa	
Water Marks (B1)				n Sulfide Odd			Crayfish Burrov	, ,
Sediment Deposits	(B2)			Rhizosphere		Roots (C3)		ole on Aerial Imagery (C9)
Drift Deposits (B3)			=	of Reduced	` '			essed Plants (D1)
Algal Mat or Crust (	B4)		Recent I	ron Reductio	n in Tilled Sc	ils (C6)	✓ Geomorphic Po	
Iron Deposits (B5)			Thin Mud	ck Surface (C	7)		FAC-Neutral Te	est (D5)
Inundation Visible of	on Aerial Imag	ery (B7)	☐ Gauge o	Well Data (	D9)			
Sparsely Vegetated	Concave Surf	ace (B8)	Other (E	xplain in Rem	narks)			
						ı		
eld Observations:	Yes <sup>(</sup>	O No •	)	(inches)				
rface Water Present?				(inches):		-		
ater Table Present?	Yes <sup>(</sup>	O No •	Depth	(inches): _		_	land Hadaalaa Barris	Yes ○ No •
turation Present?	yes (	○ No ●	) Depth	(inches):		Wetl	land Hydrology Present?	res UNO U
cludes capillary fringe scribe Recorded Da	:)		•		nrevious ir	spections	s) if available	
evious delineation,			_				o), n avanabie.	
		nap, MNVJ.	oons map, rupu	grapilic ilic	ip, Acriai þi	10103		
marks: sed on a WETS an		odont prosi	nitation was with	hin a norm	al rango			

	City/Cour	ity: Milwaukee C	ounty	Sampling Date:06-Aug-14
Applicant/Owner: Wisconsin Department of Transportation		State:	Samı	oling Point: SP-31
Investigator(s): Ron Londre, Geof Parish	Section	, Township, Range:	s 19 T 5N	R 22E
Landform (hillslope, terrace, etc.): Toeslope/ditch		Local relief (d	concave, convex, none):	concave
Slope: 3.0% 1.7 • Lat.:	In	ng.:		- Datum:
Soil Map Unit Name: <u>Houghton muck (HtA), All hydric</u>			WWI classific	ration: E2V
Are climatic/hydrologic conditions on the site typical for this time of	vear? Yes No	O (If no. e)	xplain in Remarks.)	LZK
Are Vegetation ☐ , Soil ✓ , or Hydrology ☐	significantly disturbed	,	ormal Circumstances" pre	sent? Yes • No •
	,		·	
rae regelation	naturally problematic?	(	ded, explain any answers	•
SUMMARY OF FINDINGS - Attach site map sho	owing sampling	point iocatio	ns, transects, imp	portant leatures, etc.
		Is the Sampled A	irea	
		within a Wetland	i? Yes 💿 No 🔾	
Wetland Hydrology Present? Yes ♥ No U  Remarks:				
This point is located in a roadside ditch. All three parame Wetland ID: W9-3  VEGETATION - Use scientific names of plants of plants of the parameter of the par	ants. <b>Dom</b>	inant cies?		
Tree Stratum (Plot size: 12' x 350' )		Strat. Indicator ver Status	Dominance Test wo	
1.	0 0 0	.0%	<ul> <li>Number of Dominant S</li> <li>That are OBL, FACW, G</li> </ul>	
2.	0 🗆 0	.0%		
3		.0%	Total Number of Domi Species Across All Stra	_
4		.0%		
5		.0%	Percent of dominan That Are OBL, FACN	
Sapling/Shrub Stratum (Plot size: 12' x 60' )	= Tota	al Cover		
1.	0 🗆 0	1.0%	Prevalence Index wo Total % Cover	
			OBL species	$0 \qquad x = 0$
1 2.	0 1 1 0	1.0%		
2		1.0%	· -	78 x 2 = 156
	0 0		FACW species	
3.	0 0	.0%	· -	78 x 2 = 156
3. 4. 5.	0 0 0	.0%	FACW species FAC species	78
3. 4. 5.  Herb Stratum (Plot size: 5' r )	0 0 0 0 0 0 0 0 = Tota	0.0% 0.0% 0.0% al Cover	FACW species FAC species FACU species	78
3. 4. 5.	0	0.0% 0.0% 0.0% al Cover 4.3% FACW	FACW species FAC species FACU species UPL species Column Totals:	78       x 2 =       156         5       x 3 =       15         18       x 4 =       72         0       x 5 =       0         101       (A)       243       (B)
3. 4. 5. Herb Stratum (Plot size: 5' r ) 1. Phalaris arundinacea	$ \begin{array}{c cccc} 0 & \bigcirc & 0 \\ 0 & \bigcirc & 0 \\ 0 & \bigcirc & 0 \\ \hline 0 & = Tota \\ \hline 75 & \checkmark & 7. \\ 8 & \bigcirc & 7 \end{array} $	1.0% 1.0% 1.0% al Cover	FACW species FAC species FACU species UPL species Column Totals: Prevalence Inde	$   \begin{array}{ccccccccccccccccccccccccccccccccccc$
3. 4. 5. Herb Stratum (Plot size: 5' r ) 1. Phalaris arundinacea 2. Sonchus arvensis	$ \begin{array}{c cccc} 0 & \bigcirc & 0 \\ 0 & \bigcirc & 0 \\ 0 & = Tota \\ \hline 75 & \checkmark & 7 \\ 8 & \bigcirc & 7 \\ \hline 5 & \bigcirc & 5 \end{array} $	0.0%	FACW species FAC species FACU species UPL species Column Totals: Prevalence Inde	78
3. 4. 5. Herb Stratum (Plot size: 5' r ) 1. Phalaris arundinacea 2. Sonchus arvensis 3. Poa pratensis 4. Festuca rubra 5. Elymus repens	0	0.0% 0.0% 0.0% al Cover 4.3% FACW 0.9% FACU 0.0% FAC	FACW species FAC species FACU species UPL species Column Totals: Prevalence Inde Hydrophytic Vegetat 1 - Rapid Test fo	78
3. 4. 5. Herb Stratum (Plot size: 5' r ) 1. Phalaris arundinacea 2. Sonchus arvensis 3. Poa pratensis 4. Festuca rubra 5. Elymus repens 6. Verbena hastata	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.0% 1.0% 1.0% 1.0% 1.0% 1.0% 1.0% 1.0%	FACW species FAC species FACU species UPL species Column Totals: Prevalence Inde Hydrophytic Vegetat 1 - Rapid Test fo 2 - Dominance To	78
3. 4. 5. Herb Stratum (Plot size: 5' r )  1. Phalaris arundinacea  2. Sonchus arvensis  3. Poa pratensis  4. Festuca rubra  5. Elymus repens  6. Verbena hastata  7.	0	.0%	FACW species FAC species FACU species UPL species Column Totals: Prevalence Ind Hydrophytic Vegetat  1 - Rapid Test fo 2 - Dominance To 3 - Prevalence Ir	78
3. 4. 5.  Herb Stratum (Plot size: 5' r )  1. Phalaris arundinacea  2. Sonchus arvensis  3. Poa pratensis  4. Festuca rubra  5. Elymus repens  6. Verbena hastata  7.  8.	0	.0%	FACW species FAC species FACU species UPL species Column Totals: Prevalence Inde Hydrophytic Vegetal 1 - Rapid Test fo 2 - Dominance To 3 - Prevalence Ir 4 - Morphologica	78
3. 4. 5. Herb Stratum (Plot size: 5' r )  1. Phalaris arundinacea  2. Sonchus arvensis  3. Poa pratensis  4. Festuca rubra  5. Elymus repens  6. Verbena hastata  7.	0	.0%	FACW species FAC species FACU species UPL species Column Totals: Prevalence Inde Hydrophytic Vegetal 1 - Rapid Test fo 2 - Dominance To 3 - Prevalence In 4 - Morphologica data in Remarks	78
3. 4. 5. Herb Stratum (Plot size: 5' r )  1. Phalaris arundinacea 2. Sonchus arvensis 3. Poa pratensis 4. Festuca rubra 5. Elymus repens 6. Verbena hastata 7. 8. 9.	0	.0%	FACW species FAC species FACU species UPL species Column Totals: Prevalence Indi Hydrophytic Vegetat 1 - Rapid Test fo 2 - Dominance T 3 - Prevalence Ir 4 - Morphologica data in Remarks Problematic Hyd Indicators of hydr	78
3. 4. 5.  Herb Stratum (Plot size: 5' r )  1. Phalaris arundinacea  2. Sonchus arvensis  3. Poa pratensis  4. Festuca rubra  5. Elymus repens  6. Verbena hastata  7.  8.  9.	0	.0%	FACW species FAC species FACU species UPL species Column Totals: Prevalence Indi Hydrophytic Vegetat 1 - Rapid Test fo 2 - Dominance T 3 - Prevalence Ir 4 - Morphologica data in Remarks Problematic Hyd Indicators of hydr	78
3. 4. 5.  Herb Stratum (Plot size: 5' r )  1. Phalaris arundinacea  2. Sonchus arvensis  3. Poa pratensis  4. Festuca rubra  5. Elymus repens  6. Verbena hastata  7.  8.  9.  10.  Woody Vine Stratum (Plot size: 12' x 350' )  1.	0	1.0% 1.0% 1.0% 1.0% 1.0% 1.0% 1.0% 1.0%	FACW species FAC species FACU species UPL species Column Totals: Prevalence Ind Hydrophytic Vegetat  1 - Rapid Test fo 2 - Dominance To 3 - Prevalence Ir 4 - Morphologica data in Remarks Problematic Hyd  1 Indicators of hydroe present, unless desired.	78
3. 4. 5.  Herb Stratum (Plot size: 5' r )  1. Phalaris arundinacea  2. Sonchus arvensis  3. Poa pratensis  4. Festuca rubra  5. Elymus repens  6. Verbena hastata  7.  8.  9.  10.  Woody Vine Stratum (Plot size: 12' x 350' )	0	.0%	FACW species FAC species FACU species UPL species Column Totals: Prevalence Inde Hydrophytic Vegetat 1 - Rapid Test fo 2 - Dominance To 3 - Prevalence Ir 4 - Morphologica data in Remarks Problematic Hyd Indicators of hydrope present, unless description	78

Depth Matrix		Redox Feat		iiiiiii tiie	absence of indicators.)	
inches) Color (moist) %	Color (n		Type 1	Loc <sup>2</sup>	Texture	Remarks
0-4 10YR 3/2 100					Sandy Clay Loam	
4-15 10YR 4/1 70	10YR	4/6 10	С	М	Sandy Clay Loam	
10YR 3/1 10	10YR	5/1 10	D	М		
5-20 10YR 5/4 70	10YR	6/1 15	D	М	Sandy Clay Loam	
	10YR	5/6 15	С	M		
e: C=Concentration, D=Depletion, RM=R	Reduced Matrix, C	S=Covered or Coa	ed Sand Grai	ns.	Éocation: PL=Pore Lining. M=	
Histosol (A1)	San	dy Gleyed Matrix (S	4)		Indicators for Problem	•
Histic Epipedon (A2)		dy Redox (S5)	,		Coast Prairie Redox (A	416)
Black Histic (A3)	Strip	pped Matrix (S6)			Dark Surface (S7)	200 (F12)
Hydrogen Sulfide (A4)	Loai	my Mucky Mineral (	F1)		☐ Iron Manganese Mass	` '
Stratified Layers (A5)	Loai	my Gleyed Matrix (I	2)		Very Shallow Dark Su	
2 cm Muck (A10)  Depleted Below Dark Surface (A11)		leted Matrix (F3)			Other (Explain in Rem	iarks)
Thick Dark Surface (A12)		ox Dark Surface (Fo	•			
Sandy Muck Mineral (S1)		leted Dark Surface	. ,		<sup>3</sup> Indicators of hydrophy	
5 cm Mucky Peat or Peat (S3)	☐ Red	ox Depressions (F8	)		wetland hydrology n unless disturbed or	
criterion for hydric soil is met at this	noint					
	s ропп.					
'DROLOGY  etland Hydrology Indicators:  mary Indicators (minimum of one is require		apply)			Secondary Indicator	rs (minimum of two required)
DROLOGY etland Hydrology Indicators:	ed; check all that	apply) ater-Stained Leave:	s (B9)		Secondary Indicator  Surface Soil Cra	· · · · · · · · · · · · · · · · · · ·
TDROLOGY  etland Hydrology Indicators: mary Indicators (minimum of one is required)	ed; check all that	11 37	s (B9)		Surface Soil Cra	ncks (B6)
IDROLOGY  Istland Hydrology Indicators: mary Indicators (minimum of one is require  Surface Water (A1) High Water Table (A2) Saturation (A3)	ed; check all that	ater-Stained Leave quatic Fauna (B13) ue Aquatic Plants (	314)		Surface Soil Cra Drainage Patter Dry Season Wa	ns (B10) ter Table (C2)
Etland Hydrology Indicators: mary Indicators (minimum of one is require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	ed; check all that	ater-Stained Leave quatic Fauna (B13) ue Aquatic Plants ( ydrogen Sulfide Odo	314) or (C1)		Surface Soil Cra Drainage Patter Dry Season Wa Crayfish Burrow	ncks (B6) ins (B10) ter Table (C2) is (C8)
tland Hydrology Indicators: mary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	ed; check all that	ater-Stained Leave: quatic Fauna (B13) ue Aquatic Plants ( ydrogen Sulfide Odo kidized Rhizosphere	314) or (C1) s on Living R	oots (C3)	Surface Soil Cra Drainage Patter Dry Season Wa Crayfish Burrow Saturation Visib	icks (B6) ns (B10) ter Table (C2) s (C8) le on Aerial Imagery (C9)
tland Hydrology Indicators: mary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	ed; check all that	ater-Stained Leave: quatic Fauna (B13) ue Aquatic Plants ( ydrogen Sulfide Odo kidized Rhizosphere esence of Reduced	314) or (C1) s on Living R Iron (C4)		Surface Soil Cra Drainage Patter Dry Season Wa Crayfish Burrow Saturation Visib Stunted or Stre	icks (B6) rns (B10) ter Table (C2) rs (C8) le on Aerial Imagery (C9) ssed Plants (D1)
Etland Hydrology Indicators: mary Indicators (minimum of one is required) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	ed; check all that  W Ac Tr Hy O;	ater-Stained Leave: quatic Fauna (B13) ue Aquatic Plants ( ydrogen Sulfide Odk kidized Rhizosphere esence of Reduced ecent Iron Reductio	B14) or (C1) s on Living Ri Iron (C4) n in Tilled Soi		Surface Soil Cra Drainage Patter Dry Season Wa Crayfish Burrow Saturation Visib Stunted or Stree Geomorphic Por	ncks (B6) rns (B10) ter Table (C2) rs (C8) le on Aerial Imagery (C9) ssed Plants (D1) sition (D2)
DROLOGY  Itland Hydrology Indicators:  nary Indicators (minimum of one is required Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)	ed; check all that  W Ac Tr Hy O; Pr Re	ater-Stained Leave: quatic Fauna (B13) ue Aquatic Plants ( ydrogen Sulfide Odo kidized Rhizosphere esence of Reduced ecent Iron Reductio nin Muck Surface (C	B14) or (C1) s on Living Ri Iron (C4) n in Tilled Soi		Surface Soil Cra Drainage Patter Dry Season Wa Crayfish Burrow Saturation Visib Stunted or Stre	ncks (B6) rns (B10) ter Table (C2) rs (C8) le on Aerial Imagery (C9) ssed Plants (D1) sition (D2)
tland Hydrology Indicators: nary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	ed; check all that  W Ac Tr Hy O; Pr Re	ater-Stained Leave: quatic Fauna (B13) ue Aquatic Plants ( ydrogen Sulfide Odk kidized Rhizosphere esence of Reduced ecent Iron Reductio	B14) or (C1) s on Living R Iron (C4) n in Tilled Soi 7)		Surface Soil Cra Drainage Patter Dry Season Wa Crayfish Burrow Saturation Visib Stunted or Stree Geomorphic Por	ncks (B6) rns (B10) ter Table (C2) rs (C8) le on Aerial Imagery (C9) ssed Plants (D1) sition (D2)
Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	ed; check all that  W Ac Tr Hy O; Pr Re	ater-Stained Leave: quatic Fauna (B13) ue Aquatic Plants ( ydrogen Sulfide Odd kidized Rhizosphere esence of Reduced ecent Iron Reduction in Muck Surface (Cauge or Well Data (	B14) or (C1) s on Living R Iron (C4) n in Tilled Soi 7)		Surface Soil Cra Drainage Patter Dry Season Wa Crayfish Burrow Saturation Visib Stunted or Stree Geomorphic Por	ncks (B6) rns (B10) ter Table (C2) rs (C8) le on Aerial Imagery (C9) ssed Plants (D1) sition (D2)
Itland Hydrology Indicators: mary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)	ed; check all that  W AC Tr Hy O: Pr Re Tr Tr Cr	ater-Stained Leave: quatic Fauna (B13) ue Aquatic Plants ( ydrogen Sulfide Odk kidized Rhizosphere esence of Reduced ecent Iron Reduction nin Muck Surface (Cauge or Well Data ( ther (Explain in Ren	B14) or (C1) s on Living R Iron (C4) n in Tilled Soi 7)		Surface Soil Cra Drainage Patter Dry Season Wa Crayfish Burrow Saturation Visib Stunted or Stree Geomorphic Por	ncks (B6) rns (B10) ter Table (C2) rs (C8) le on Aerial Imagery (C9) ssed Plants (D1) sition (D2)
Etland Hydrology Indicators: mary Indicators (minimum of one is required) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Eld Observations: Face Water Present?  Yes	ed; check all that  W Ac Tr Hy O; Pr Re Tr Tr GG O;	ater-Stained Leave: quatic Fauna (B13) ue Aquatic Plants ( ydrogen Sulfide Odd kidized Rhizosphere esence of Reduced ecent Iron Reduction in Muck Surface (Cauge or Well Data (	B14) or (C1) s on Living R Iron (C4) n in Tilled Soi 7)		Surface Soil Cra Drainage Patter Dry Season Wa Crayfish Burrow Saturation Visib Stunted or Stree Geomorphic Por	ncks (B6) rns (B10) ter Table (C2) rs (C8) le on Aerial Imagery (C9) ssed Plants (D1) sition (D2)
TDROLOGY  Stland Hydrology Indicators: mary Indicators (minimum of one is required of the surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Stld Observations:  Face Water Present?  Yes	ed; check all that  W AC Tr Hy Co: Pr Re Th Co:	ater-Stained Leave: quatic Fauna (B13) ue Aquatic Plants ( ydrogen Sulfide Odk kidized Rhizosphere esence of Reduced ecent Iron Reduction nin Muck Surface (Cauge or Well Data ( ther (Explain in Ren	B14) or (C1) s on Living R Iron (C4) n in Tilled Soi 7)	ds (C6)	Surface Soil Cra Drainage Patter Dry Season Wa Crayfish Burrow Saturation Visib Stunted or Stree Geomorphic Poe	ncks (B6) rns (B10) ter Table (C2) vs (C8) le on Aerial Imagery (C9) ssed Plants (D1) sition (D2) st (D5)
Etland Hydrology Indicators: mary Indicators (minimum of one is required)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  etla Observations:  face Water Present?  Surration Present?	ed; check all that  W AA Tr Hy O; Pr Re Th O; O; O; No O	ater-Stained Leave: quatic Fauna (B13) ue Aquatic Plants ( ydrogen Sulfide Odd kidized Rhizosphere esence of Reduced ecent Iron Reductio nin Muck Surface (C auge or Well Data ( cher (Explain in Ren Depth (inches): Depth (inches):	B14) or (C1) s on Living R Iron (C4) n in Tilled Soi 7) D9)	wetla	Surface Soil Cra Drainage Patter Dry Season War Crayfish Burrow Saturation Visib Stunted or Stree Geomorphic Poe FAC-Neutral Tee	ncks (B6) rns (B10) ter Table (C2) rs (C8) le on Aerial Imagery (C9) ssed Plants (D1) sition (D2)
Etland Hydrology Indicators: mary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)  Id Observations: face Water Present?  Ter Table Present?  Ter Table Present?  Tes One Market Present?  Te	ed; check all that  W AG Tr Hy Or Re Tr GG Or No Mo  monitoring we	ater-Stained Leave: quatic Fauna (B13) ue Aquatic Plants ( ydrogen Sulfide Odd kidized Rhizosphere esence of Reduced exent Iron Reductio nin Muck Surface (Cauge or Well Data ( ther (Explain in Ren Depth (inches): Depth (inches):	B14) or (C1) s on Living R Iron (C4) n in Tilled Soi 7) D9) narks)	Wetlasspections	Surface Soil Cra Drainage Patter Dry Season War Crayfish Burrow Saturation Visib Stunted or Stree Geomorphic Poe FAC-Neutral Tee	ncks (B6) rns (B10) ter Table (C2) vs (C8) le on Aerial Imagery (C9) ssed Plants (D1) sition (D2) st (D5)
tland Hydrology Indicators: nary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7 Sparsely Vegetated Concave Surface (B8 Id Observations: face Water Present?  Ves O Note Table Prese	ed; check all that  W AG Tr Hy Or Re Tr GG Or No Mo  monitoring we	ater-Stained Leave: quatic Fauna (B13) ue Aquatic Plants ( ydrogen Sulfide Odd kidized Rhizosphere esence of Reduced exent Iron Reductio nin Muck Surface (Cauge or Well Data ( ther (Explain in Ren Depth (inches): Depth (inches):	B14) or (C1) s on Living R Iron (C4) n in Tilled Soi 7) D9) narks)	Wetlasspections	Surface Soil Cra Drainage Patter Dry Season War Crayfish Burrow Saturation Visib Stunted or Stree Geomorphic Poe FAC-Neutral Tee	ncks (B6) rns (B10) ter Table (C2) vs (C8) le on Aerial Imagery (C9) ssed Plants (D1) sition (D2) st (D5)
Etland Hydrology Indicators: mary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)  Eld Observations: Iface Water Present?  Yes O March 1988  Interval 1988  Interval 1989 Inter	ed; check all that  W Ac Tr Hy O; Fr Cr Ga O; Cr	ater-Stained Leave: quatic Fauna (B13) ue Aquatic Plants ( ydrogen Sulfide Odd kidized Rhizosphere esence of Reduced ecent Iron Reductio nin Muck Surface (C auge or Well Data ( cher (Explain in Ren Depth (inches): Depth (inches): Depth (inches):	previous in	Wetlasspections	Surface Soil Cra Drainage Patter Dry Season War Crayfish Burrow Saturation Visib Stunted or Stree Geomorphic Poe FAC-Neutral Tee	ncks (B6) rns (B10) ter Table (C2) vs (C8) le on Aerial Imagery (C9) ssed Plants (D1) sition (D2) st (D5)

Project/Site: HH 94 (N-S Freeway)	City/C	County:	Milwaukee C	Sounty Sampling Date: 18-Aug-14
Applicant/Owner: Wisconsin Department of Transportation			State:	WI Sampling Point: SP-32
nvestigator(s): Ron Londre, Geof Parish	Sec	tion, Tow	nship, Range:	S 18 T 5N R 22E
			Local relief (c	concave, convex, none): concave
Slope: 5.0% 2.9 • Lat.:		Long.:		- Datum:
Soil Map Unit Name: Blount silt loam (BIA), Not hydric		_		
Are climatic/hydrologic conditions on the site typical for this time of	vear? Yes	No O	(If no, ex	kplain in Remarks.)
Are Vegetation ☐ , Soil ✓ , or Hydrology ☐	significantly disturb	ped?	Are "No	ormal Circumstances" present?
Are Vegetation , Soil , or Hydrology	naturally problema			ded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map sho			`	,
Hydrophytic Vegetation Present? Yes No •	Tring Sampin	 	Tre rocurro	ns, transces, important reactives, etc.
Hydric Soil Present?  Yes No			e Sampled A	
		with	in a Wetland	d? Yes O No 🖲
Wetland Hydrology Present? Yes ○ No ●  Remarks:				
This point is located in a roadside ditch. Two of three parameters have not been met at this point  VEGETATION - Use scientific names of pla	ints. D	ominant	<u></u>	Dominance Test worksheet:
Tree Stratum (Plot size: 12' x 75'	% Cover	Cover	Status	Number of Dominant Species
1	0	0.0%		That are OBL, FACW, or FAC:  1 (A)
2.		0.0%		Total Number of Dominant
3 4.		0.0%		Species Across All Strata: 2 (B)
5.	0 0	0.0%	0	Percent of dominant Species
		Total Cov		That Are OBL, FACW, or FAC: 50.0% (A/B)
Sapling/Shrub Stratum (Plot size: 12' x 75' )				Prevalence Index worksheet:
1.	0	0.0%		Total % Cover of: Multiply by:
2.	0	0.0%		OBL species 0 x 1 = 0
3		0.0%		FACW species 8 x 2 = 16
4		0.0%		FAC species 60 x 3 = 180
5		0.0%		FACU species 75 x 4 = 300
Herb Stratum (Plot size: 5' r )	0 =	Total Cov	er	UPL species $0 \times 5 = 0$
1, Poa pratensis	60	42.0%	FAC	Column Totals: 143 (A) 496 (B)
2. Cirsium arvense	50		FACU	Prevalence Index = B/A =3.469_
3. Asclepias syriaca	15	10.5%	FACU	Hydrophytic Vegetation Indicators:
Elymus repens     Phalaris arundinacea	_ 10	7.0%	FACU	1 - Rapid Test for Hydrophytic Vegetation
6. Phalaris arundinacea	8 0	5.6%	FACW	2 - Dominance Test is > 50%
7.		0.0%		3 - Prevalence Index is ≤3.0 <sup>1</sup>
8.		0.0%		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
	0	0.0%		data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
9.		0.0%		- roblematic nyurophytic vegetation - (Expiain)
10.		0.0%		l 1 =
10.		Total Cov	er	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
10. Woody Vine Stratum (Plot size: 12' x 75'	143 =	Total Cov	er	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
10.	143 =		er	be present, unless disturbed or problematic.  Hydrophytic
10	0 0	Total Cov		be present, unless disturbed or problematic.

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.    Food	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  ### Property of Coated Sand Grains   ### Property of Coated Sandy Redox (S5)	PL=Pore Lining. M=Matrix.  ators for Problematic Hydric Soils <sup>3</sup> :
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  ydric Soil Indicators:    Histosol (A1)	PL=Pore Lining. M=Matrix. ators for Problematic Hydric Soils <sup>3</sup> :
ydric Soil Indicators:    Histosol (A1)	ators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)   Sandy Gleyed Matrix (S4)   C   C   C   C   C   C   C   C   C	ators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	•
Histic Epipedon (A2) Black Histic (A3) Black Histic (A3) Black Histic (A3) Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Stratified Layers (A5) Loamy Mucky Mineral (F1) Depleted Batrix (F2) Depleted Batrix (F3) Depleted Batrix (F7) Sandy Muck Mineral (S1) Depleted Dark Surface (F7) Sandy Muck Mineral (S1) Depleted Dark Surface (F7) Sandy Muck Mineral (S1) Depleted Dark Surface (F7) Sandy Muck Jean (F4) Depleted Dark Surface (F7)  Sandy Muck Jean (F4) Redox Dark Surface (F6) Hydrice Depleted Dark Surface (F7)  Proceed Tax Surface (F8)  Hydrice Depth (inches): NA  Hydrice Depth (inches): NA  Proceed Tax Surface (B9)  Hydrice Depth (inches): NA  Hydrice Depth (inches): NA  Proceed Tax Surface (B9)  Hydrice Depth (inches): NA  Hydrice Depth (inches): NA  Hydrice Depth (inches): NA  Proceed Tax Surface (B9)  Hydrice Depth (inches): NA  Hydrice Depth (inches): NA	ast Prairie Redox (A16)
strictive Layer (if observed):  Type: None Depth (inches): NA  Pararks:  I appears to be a roadside fill and thus disturbed.  I criterion for hydric soil is met at this point.  PROLOGY  Setland Hydrology Indicators: mary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)   Water-Stained Leaves (B9)   High Water Table (A2)   Aquatic Fauna (B13)   Saturation (A3)   True Aquatic Plants (B14)   Water Marks (B1)   Hydrogen Sulfide Odor (C1)   Sediment Deposits (B2)   Oxidized Rhizospheres on Living Roots (C3)   Drift Deposits (B3)   Presence of Reduced Iron (C4)   Algal Mat or Crust (B4)   Recent Iron Reduction in Tilled Soils (C6)   Iron Deposits (B5)   Thin Muck Surface (C7)   Inundation Visible on Aerial Imagery (B7)   Gauge or Well Data (D9)   Sparsely Vegetated Concave Surface (B8)   Other (Explain in Remarks)	ork Surface (S7) on Manganese Masses (F12) ory Shallow Dark Surface (TF12) her (Explain in Remarks) cators of hydrophytic vegetation and vetland hydrology must be present,
Type: None Depth (inches): NA  marks: appears to be a roadside fill and thus disturbed. criterion for hydric soil is met at this point.  DROLOGY  tland Hydrology Indicators: mary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)	unless disturbed or problematic.
etland Hydrology Indicators:  Imary Indicators (minimum of one is required; check all that apply)    Surface Water (A1)	
Surface Water (A1)	
Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)  True Aquatic Plants (B14)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres on Living Roots (C3)  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Thin Muck Surface (C7)  Gauge or Well Data (D9)  Other (Explain in Remarks)	Secondary Indicators (minimum of two required)
	Surface Soil Cracks (B6)  Drainage Patterns (B10)  Dry Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)
urface Water Present? Yes ○ No ● Depth (inches):  ater Table Present? Yes ○ No ● Depth (inches):  aturation Present? Yes ○ No ● Depth (inches):  uturation Present? Yes ○ No ● Depth (inches):	<ul><li>Stunted or Stressed Plants (D1)</li><li>✓ Geomorphic Position (D2)</li><li>FAC-Neutral Test (D5)</li></ul>
escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if avail revious delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos	Geomorphic Position (D2)  FAC-Neutral Test (D5)
emarks:	Geomorphic Position (D2)  FAC-Neutral Test (D5)  Flogy Present? Yes No   No

Landform (hillslope, terrace, etc.): Toeslope/ditch  Slope: 1.0% 0.6  Lat.:  Soil Map Unit Name: Morley silt loam (MzdC). Not hydric  Are climatic/hydrologic conditions on the site typical for this time of year? Yes Are Vegetation , Soil , or Hydrology , significantly disturb  Are Vegetation , Soil , or Hydrology , naturally problema  SUMMARY OF FINDINGS - Attach site map showing sampling  Hydrophytic Vegetation Present? Yes No Wetland Hydrology Present? Yes No Septiment is located in a roadside ditch.  All three parameters have been met at this point. Thus, this point is located in the	No (If no, oed? Are detic? (If no point locat itic? (If no point locat itic?)  Is the Sample within a Wetland.  Cominant Species? (el.Strat. Cover Status of the cover of the	ge: S 18 T 5N R 22E  of (concave, convex, none): concave  Datum:  WWI classification: None  o, explain in Remarks.)  "Normal Circumstances" present? Yes No  needed, explain any answers in Remarks.)  tions, transects, important features, etc.  ad Area and? Yes No  Dominance Test worksheet:
Landform (hillslope, terrace, etc.): Toeslope/ditch  Slope: 1.0% 0.6  Lat.:  Soil Map Unit Name: Morley silt loam (MzdC), Not hydric  Are climatic/hydrologic conditions on the site typical for this time of year? Yes  Are Vegetation  , Soil  , or Hydrology	Local relief  Long.:  No (If no, oed? Are stic? (If no point locat stic?)  Is the Sample within a Wetland.  ominant species? Indicate Status  0.0%  0.0%  0.0%  0.0%  Total Cover  0.0%	Datum:  WWI classification: None  O, explain in Remarks.)  "Normal Circumstances" present?  None  Determined ed, explain any answers in Remarks.)  Ations, transects, important features, etc.  And Area and? Yes No   Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  Percent of dominant Species That Are OBL, FACW, or FAC:  Number of Dominant Species That Are OBL, FACW, or FAC:  No   Dominance Test worksheet:  Number of Dominant Species That Are OBL, FACW, or FAC:  No   No   No   No   No   No   No   No
Solope: 1.0%	No (If no, oed? Are detic? (If no point locat itic? (If no point locat itic?)  Is the Sample within a Wetland.  Cominant Species? (el.Strat. Cover Status of the cover of the	WWI classification: None  o, explain in Remarks.)  "Normal Circumstances" present? Yes No needed, explain any answers in Remarks.)  tions, transects, important features, etc.  ad Area and? Yes No   Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)  Total Number of Dominant Species Across All Strata: 1 (B)  Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
Are climatic/hydrologic conditions on the site typical for this time of year? Yes   Are Vegetation	No O (If no, ped? Are static? (If no ped? Are static? (If no ped? If no ped? If no ped? (If no ped? If no ped? (If no ped? If no ped? (If no ped? If no ped? If no ped? (If no ped? If no ped? If no ped? (If no ped? If no ped? If no ped? If no ped? (If no ped? If no ped? If no ped? If no ped? (If no ped? If no ped? If no ped? If no ped? (If no ped? If no ped? If no ped? If no ped? (If no ped? If no ped? If no ped? If no ped? If no ped? (If no ped? If no ped? (If no ped? If no ped? (If no ped? If no ped? (If no ped? If no ped? If no ped? If no ped? If no ped? (If no ped? If no ped? (If no ped? If no ped? (If no ped? If no ped? (If no ped. If no ped.	WWI classification: None  o, explain in Remarks.)  "Normal Circumstances" present?  needed, explain any answers in Remarks.)  tions, transects, important features, etc.  and Area and? Yes No   Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC:  1 (A)  Total Number of Dominant Species Across All Strata:  Percent of dominant Species That Are OBL, FACW, or FAC:  100.0% (A/B)
Are climatic/hydrologic conditions on the site typical for this time of year? Yes   Are Vegetation	No O (If no, ped? Are static? (If no ped? Are static? (If no ped? If no ped? If no ped? (If no ped? If no ped? (If no ped? If no ped? (If no ped? If no ped? If no ped? (If no ped? If no ped? If no ped? (If no ped? If no ped? If no ped? If no ped? (If no ped? If no ped? If no ped? If no ped? (If no ped? If no ped? If no ped? If no ped? (If no ped? If no ped? If no ped? If no ped? (If no ped? If no ped? If no ped? If no ped? If no ped? (If no ped? If no ped? (If no ped? If no ped? (If no ped? If no ped? (If no ped? If no ped? If no ped? If no ped? If no ped? (If no ped? If no ped? (If no ped? If no ped? (If no ped? If no ped? (If no ped. If no ped.	Normal Circumstances" present?  "Normal Circumstances" present?  Ineeded, explain any answers in Remarks.)  Itions, transects, important features, etc.  Itions, transects, important features, etc.  Ineeded, explain any answers in Remarks.)  Itions, transects, important features, etc.  Ineeded, explain any answers in Remarks.)  Itions, transects, important features, etc.  Ineeded, explain any answers in Remarks.)  Itions, transects, important features, etc.  Ineeded, explain any answers in Remarks.)  Itions, transects, important features, etc.  Ineeded, explain any answers in Remarks.)  Itions, transects, important features, etc.  Ineeded, explain any answers in Remarks.)  Itions, transects, important features, etc.  Ineeded, explain any answers in Remarks.)  Itions, transects, important features, etc.  Ineeded, explain any answers in Remarks.)  Itions, transects, important features, etc.  Ineeded, explain any answers in Remarks.)  Itions, transects, important features, etc.  Ineeded, explain any answers in Remarks.)  Itions, transects, important features, etc.  Ineeded, explain any answers in Remarks.)  Itions, transects, important features, etc.  Ineeded, explain any answers in Remarks.)  Itions, transects, important features, etc.  Ineeded, explain any answers in Remarks.)  Itions, transects, important features, etc.  Ineeded, explain any answers in Remarks.)  Itions, transects, important features, etc.  Ineeded, explain any answers in Remarks.)  Itions, transects, important features, etc.  Ineeded, explain any answers in Remarks.)  Itions, transects, important features, etc.  Ineeded, explain any answers in Remarks.)  Itions, transects, important features, etc.  Ineeded, explain any answers in Remarks.)  Itions, transects, important features, etc.  Ineeded, explain any answers in Remarks.)  Itions, transects, important features, etc.  Ineeded, explain any answers in Remarks.)  Ineeded, explain any answers in Remarks.  Ineeded, explain any answers in Remarks.  Ineeded, explain any answers in Remarks.  Ineeded
Are climatic/hydrologic conditions on the site typical for this time of year?  Are Vegetation	Is the Sample within a Wetland.  Indicate Status  0.0%  0.0%  0.0%  0.0%  Total Cover	Normal Circumstances" present?  "Normal Circumstances" present?  Ineeded, explain any answers in Remarks.)  Itions, transects, important features, etc.  Itions, transects, important features, etc.  Ineeded, explain any answers in Remarks.)  Itions, transects, important features, etc.  Ineeded, explain any answers in Remarks.)  Itions, transects, important features, etc.  Ineeded, explain any answers in Remarks.)  Itions, transects, important features, etc.  Ineeded, explain any answers in Remarks.)  Itions, transects, important features, etc.  Ineeded, explain any answers in Remarks.)  Itions, transects, important features, etc.  Ineeded, explain any answers in Remarks.)  Itions, transects, important features, etc.  Ineeded, explain any answers in Remarks.)  Itions, transects, important features, etc.  Ineeded, explain any answers in Remarks.)  Itions, transects, important features, etc.  Ineeded, explain any answers in Remarks.)  Itions, transects, important features, etc.  Ineeded, explain any answers in Remarks.)  Itions, transects, important features, etc.  Ineeded, explain any answers in Remarks.)  Itions, transects, important features, etc.  Ineeded, explain any answers in Remarks.)  Itions, transects, important features, etc.  Ineeded, explain any answers in Remarks.)  Itions, transects, important features, etc.  Ineeded, explain any answers in Remarks.)  Itions, transects, important features, etc.  Ineeded, explain any answers in Remarks.)  Itions, transects, important features, etc.  Ineeded, explain any answers in Remarks.)  Itions, transects, important features, etc.  Ineeded, explain any answers in Remarks.)  Itions, transects, important features, etc.  Ineeded, explain any answers in Remarks.)  Itions, transects, important features, etc.  Ineeded, explain any answers in Remarks.)  Itions, transects, important features, etc.  Ineeded, explain any answers in Remarks.)  Ineeded, explain any answers in Remarks.  Ineeded, explain any answers in Remarks.  Ineeded, explain any answers in Remarks.  Ineeded
Are Vegetation	Is the Sample within a Wetland.  Indicate Status  0.0%  0.0%  0.0%  0.0%  Total Cover	"Normal Circumstances" present?  Yes No Caneeded, explain any answers in Remarks.)  Itions, transects, important features, etc.  Itions, transects, importan
SUMMARY OF FINDINGS - Attach site map showing sampling Hydrophytic Vegetation Present? Yes No Hydric Soil Present?	Is the Sample within a Wetland.  Is the Sample within a Wetland.  Tominant Species? tel.Strat.  O.0%  0.0%  0.0%  0.0%  Total Cover  0.0%	needed, explain any answers in Remarks.)  tions, transects, important features, etc.  ad Area and? Yes No   Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  Percent of dominant Species That Are OBL, FACW, or FAC:  1 (B)  Percent of dominant Species That Are OBL, FACW, or FAC:  100.0% (A/B)
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Hydric Soil Present? Yes No Hydrology Present	Is the Sample within a Wetland.  ed in a wetland.  cominant species? Eel.Strat. Cover Status  0.0%  0.0%  0.0%  0.0%  Total Cover	Area and? Yes No No Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  Percent of dominant Species That Are OBL, FACW, or FAC:  1 (A)  1 (B)  Percent of dominant Species That Are OBL, FACW, or FAC:  100.0% (A/B)
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks: This point is located in a roadside ditch. All three parameters have been met at this point. Thus, this point is located  VEGETATION - Use scientific names of plants.  Tree Stratum (Plot size: 8' x 200')  1. 2. 3. 4. 5.  Sapling/Shrub Stratum (Plot size: 8' x 200')  1. 2. 3. 4. 5.  Sapling/Shrub Stratum (Plot size: 8' x 200')  1. 2. 3. 4. 5.  Sapling/Shrub Stratum (Plot size: 8' x 200')  1. 2. 3. 4. 5. 5. 5. 6. 6. 6. 7. 8. 8. 8. 8. 8. 8. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9.	Is the Sample within a Wetland.  Tominant Species? Eel.Strat. Cover Status  0.0%  0.0%  0.0%  0.0%  Total Cover	Area and? Yes No No Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  Percent of dominant Species That Are OBL, FACW, or FAC:  1 (A)  1 (B)
Hydric Soil Present?  Wetland Hydrology Present?  Remarks: This point is located in a roadside ditch. All three parameters have been met at this point. Thus, this point is located  VEGETATION - Use scientific names of plants.  Tree Stratum (Plot size: 8' x 200' )  1.	within a Wetland.  cominant Species? tel.Strat. Cover  0.0%  0.0%  0.0%  0.0%  Total Cover  0.0%	Total Number of Dominant Species Across All Strata:  Percent of dominant Species That Are OBL, FACW, or FAC:  1 (A)  1 (B)  Percent of dominant Species That Are OBL, FACW, or FAC:  1 (A)
Wetland Hydrology Present?  Remarks: This point is located in a roadside ditch. All three parameters have been met at this point. Thus, this point is located  VEGETATION - Use scientific names of plants.  Tree Stratum (Plot size: 8' x 200' )  1.	within a Wetland.  cominant Species? tel.Strat. Cover  0.0%  0.0%  0.0%  0.0%  Total Cover  0.0%	Total Number of Dominant Species Across All Strata:  Percent of dominant Species That Are OBL, FACW, or FAC:  1 (A)  1 (B)  Percent of dominant Species That Are OBL, FACW, or FAC:  1 (A)
Remarks: This point is located in a roadside ditch. All three parameters have been met at this point. Thus, this point is located  VEGETATION - Use scientific names of plants.  Tree Stratum (Plot size: 8' x 200' )  1.	ed in a wetland.  cominant Species? Indicate Status  0.0%  0.0%  0.0%  0.0%  Total Cover  0.0%	Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  Percent of dominant Species That Are OBL, FACW, or FAC:  100.0%  (A/B)
This point is located in a roadside ditch. All three parameters have been met at this point. Thus, this point is located.  VEGETATION - Use scientific names of plants.  Tree Stratum (Plot size: 8' x 200' )  1.	0.0% 0.0% 0.0% 0.0% Total Cover	Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  Percent of dominant Species That Are OBL, FACW, or FAC:  1 (A)  (B)
VEGETATION - Use scientific names of plants.  Tree Stratum (Plot size: 8' x 200' )  1.	0.0% 0.0% 0.0% 0.0% Total Cover	Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  Percent of dominant Species That Are OBL, FACW, or FAC:  1 (A)  (B)
VEGETATION - Use scientific names of plants.         Daysolute 9% Cover           1.         0	0.0% 0.0% 0.0% 0.0% Total Cover	Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  Percent of dominant Species That Are OBL, FACW, or FAC:  1 (A)  (B)
Tree Stratum (Plot size: 8' x 200' )       Absolute % Cover         1.       0         2.       0         3.       0         4.       0         5.       0         Sapling/Shrub Stratum (Plot size: 8' x 200' )       0         1.       0         2.       0         3.       0         4.       0	Indicate   Status   Cover   Status   O.0%   O.0%   O.0%   O.0%   O.0%   O.0%   O.0%   Total Cover   O.0%	Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  Percent of dominant Species That Are OBL, FACW, or FAC:  1 (A)  (B)
Tree Stratum (Plot size: 8' x 200' )       Absolute % Cover         1.       0         2.       0         3.       0         4.       0         5.       0         Sapling/Shrub Stratum (Plot size: 8' x 200' )       0         1.       0         2.       0         3.       0         4.       0	Indicate   Status   Cover   Status   O.0%   O.0%   O.0%   O.0%   O.0%   O.0%   O.0%   Total Cover   O.0%	Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  Percent of dominant Species That Are OBL, FACW, or FAC:  1 (A)  (B)
Tree Stratum (Plot size: 8' x 200')       % Cover         1.       0         2.       0         3.       0         4.       0         5.       0         Sapling/Shrub Stratum (Plot size: 8' x 200')       )         1.       0         2.       0         3.       0         4.       0	Cover         Status           0.0%         0.0%           0.0%         0.0%           0.0%         0.0%           Total Cover         0.0%	Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  Percent of dominant Species That Are OBL, FACW, or FAC:  1 (A)  (B)
2.       0       □         3.       0       □         4.       0       □         5.       0       □         Sapling/Shrub Stratum (Plot size: 8' × 200')       )         1.       0       □         2.       0       □         3.       0       □         4.       0       □	0.0% 0.0% 0.0% 0.0% Total Cover	That are OBL, FACW, or FAC:  1 (A)  Total Number of Dominant Species Across All Strata:  1 (B)  Percent of dominant Species That Are OBL, FACW, or FAC:  100.0% (A/B)
3.	0.0% 0.0% 0.0% Total Cover	Species Across All Strata:  Percent of dominant Species That Are OBL, FACW, or FAC:  100.0%  (A/B)
4. 0 0 0 5. 0 0 = Sapling/Shrub Stratum (Plot size: 8' x 200' )  1. 0 0 0 = 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0% 0.0% Total Cover 0.0%	Species Across All Strata:  Percent of dominant Species That Are OBL, FACW, or FAC:  100.0%  (A/B)
5.	0.0% Total Cover	That Are OBL, FACW, or FAC: 100.0% (A/B)
Sapling/Shrub Stratum (Plot size: 8' x 200' )	Total Cover	That Are OBL, FACW, or FAC: 100.0% (A/B)
Sapling/Shrub Stratum (Plot size: 8' x 200')         1.       0         2.       0         3.       0         4.       0	0.0%	Prevalence Index worksheet:
1.       0		Prevalence index worksheet.
2. 0		Total % Cover of: Multiply by:
4. 0	0.0%	OBL species $0 \times 1 = 0$
	0.0%	FACW species 75 x 2 = 150
	0.0%	FAC species 8 x 3 = 24
5	0.0%	FACU species 10 x 4 = 40
Herb Stratum (Plot size: 8' x 10' ) 0 =	Total Cover	UPL species $0 \times 5 = 0$
1. Phalaris arundinacea 60	64.5% FACW	Column Totals: 93 (A) 214 (B)
2. Solidago sempervirens	16.1% FACW	Prevalence Index = B/A = 2.301
3. Elymus repens 10	10.8% FACU	Hydrophytic Vegetation Indicators:
4. Poa pratensis 8	8.6% FAC	1 - Rapid Test for Hydrophytic Vegetation
5. 0	0.0%	2 - Dominance Test is > 50%
6	0.0%	3 - Prevalence Index is ≤3.0 <sup>1</sup>
8. 0	0.0%	4 - Morphological Adaptations 1 (Provide supporting
	0.0%	data in Remarks or on a separate sheet)
10.	0.0%	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
93 =	Total Cover	Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 8' x 200')		be present, unless disturbed or problematic.
1	0.0%	Hydrophytic
	Total Cover	Vegetation Present? Yes  No  No
0 =	Total Cover	present? 165 160 5

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth .	Depth	Matrix	ne aeptn n	leeded to d		ox Featu		mirm the	absence of indicators.)	
1-12   10 VR   4/2   95   10 VR   4/6   5   C   M   Samily Clay Loam   Sandy Redox (Sh)   Sandy Mulky Mineral (Fl)   Sandy M			%	Color (r				Loc <sup>2</sup>	Texture	Remarks
per: C-Concentration. D-Depleton, RM-Reduced Matrix, CS-Covered or Coated Sand Grains.  yorkic Soil Indicators:    Justicos (A1)	0-4 10YR	3/1	100						Sandy Clay Loam	
pos: CConcentriation, DDepletion, RMReduced Mainte, CSCovered or Coated Sand Grains.    Application   Appl	4-12 10YR	4/2	95	10YR	4/6	5	С	M	Sandy Clay Loam	
History (Art)   Sampty Gleyelt Metrix (\$4)   Coast Prairie Redox (\$16)   Platite Epipedon (\$A7)   Sampty Gleyelt Metrix (\$4)   Coast Prairie Redox (\$16)   Dark Surface (\$7)   Coast Prairie Redox (\$16)   Dark Surface (\$7)   Coast Prairie Redox (\$16)   Dark Surface (\$17)   Coast Prairie Redox (\$16)   Dark Surface (\$17)   Coast Prairie Redox (\$16)   Dark Surface (\$17)   Coast Prairie Redox (\$16)   Coast Prairie Redox (\$17)   Coast Prairie Redox (\$17)   Coast Prairie Redox (\$17)   Coast Prairie Redox (\$18)   Coast Prairie Redox (\$	12-20 10YR	4/2	70	10YR	4/6	30	С	М	Sandy Clay Loam	
History (AT)   Sandy Redox (SS)   Sandy Redox (SS										
Historol (A1)	pe: C=Concentration,	D=Depletion	, RM=Reduc	ced Matrix, (	CS=Covere	d or Coate	ed Sand Gra	ins.	Location: PL=Pore Lining. N	√l=Matrix.
Histic Epipedon (A2)   Sandy Redox (S5)   Coast Fraine Redox (A16)     Back Histic (A30)   Sirippeed Matrix (S6)   Dark Surface (S7)     Hydrogen Sutfide (A44)   Doarly Murchy (Mineral (F1)   Very Shallow Dark Surface (F12)     Stratified Layers (A5)   Doarly Murchy (Mineral (F1)   Very Shallow Dark Surface (F12)     Depleted Below Dark Surface (A17)   Depleted Matrix (F2)   Depleted Below Dark Surface (A17)   Depleted Below Dark Surface (A17)   Depleted Dark Surface (F7)   Redox		:							Indicators for Proble	matic Hydric Soils <sup>3</sup> :
Type: None Depth (inches): NA  Marks: appears to be a roadside fill and thus disturbed. criterion for hydric soil is met at this point.  PROLOGY  that Hydrology Indicators: mary Indicators (minimum of one is required: check all that apply)  Secondary Indicators (minimum of two required)  Surface Water (A1) High Water Table (A2) Saturation (A3) True Aquatic Plants (B14) Depth (and Deposits (B1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) Internation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Depth (inches):  Wetland Hydrology Present?  Wetland Hydrology Present?  Yes No Depth (inches): Wetland Hydrology Present?  Yes N	Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4 Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Thick Dark Surface ( Sandy Muck Mineral	4) ) : Surface (A1 A12) (S1)	1)	San Stri Loa Loa Per Rec	ndy Redox ( pped Matri: my Mucky my Gleyed oleted Matr dox Dark Su oleted Dark	(S5) x (S6) Mineral (F Matrix (F ix (F3) urface (F6 Surface (	(F7)		Dark Surface (S7) Iron Manganese Ma Very Shallow Dark S Other (Explain in Re	sses (F12)  surface (TF12)  marks)  sytic vegetation and must be present,
Surface Water (A1)									Hydric Soil Present?	Yes ♥ No ∪
Surface Water (A1)	appears to be a ro criterion for hydric								Hydric Soil Present?	Yes ♥ No ∪
Face Water Present? Yes No Depth (inches):  Inter Table Present? Yes No	appears to be a ro criterion for hydric DROLOGY etland Hydrology Inc	soil is met	at this poi	nt.	t apply)					
	appears to be a roe criterion for hydric  TDROLOGY  Setland Hydrology Inc mary Indicators (minin  Surface Water (A1)  High Water Table (A  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B3)  Algal Mat or Crust (B  Iron Deposits (B5)  Inundation Visible or	dicators: num of one is 2) 32) Aerial Imag	at this points at this points required; c	heck all tha	Vater-Stained quatic Faur rue Aquatic ydrogen Su exidized Rhi resence of ecent Iron hin Muck Sauge or Western Faur Programmer was sauged or Western Programmer was sa	na (B13)  Plants (E ulfide Odo zospheres Reduced Reductior urface (CT ell Data (E	s14) r (C1) s on Living F Iron (C4) n in Tilled Sc 7)		Secondary Indicate Surface Soil C Drainage Patte Dry Season W Crayfish Burro Saturation Vis Stunted or Str	ors (minimum of two required) racks (B6) erns (B10) fater Table (C2) ows (C8) ible on Aerial Imagery (C9) ressed Plants (D1) rosition (D2)

Project/Site: IH 94 (N-S Freeway)		Cit	y/County:	Milwaukee Co	ounty	Sampl	ling Date:	18-Aug-14
Applicant/Owner: Wisconsin Departmen	t of Transportation			State:	WI	Sampling Point:		SP-34
Investigator(s): Ron Londre, Geof Paris	h	(	Section, Town	ship, Range:	s 18 T	5N R	22E	
Landform (hillslope, terrace, etc.): Toes	lope		1	Local relief (c	oncave, convex, no	ne): concave		<b>L</b>
Slope: 3.0% 1.7 • Lat.:			Long.:			Da	ıtum:	
					WWI cla	assification: No	ne —	
Are climatic/hydrologic conditions on the		ear? Yes	● No ○	(If no. ex	plain in Remarks.)	140	TIC	
Are Vegetation , Soil		gnificantly dis		,	rmal Circumstances	" nrasant?	Yes •	No O
	5 55	3				'		
Are Vegetation, Soil	, or Hydrology 🔲 n	aturally proble	erriauc?	(If need	ded, explain any ans	swers in Remark	(S.)	
SUMMARY OF FINDINGS - A	attach site map show	ving sam <sub>l</sub>	pling poin	t location	ns, transects,	important	features	, etc.
Hydrophytic Vegetation Present?	Yes ● No ○							
Hydric Soil Present?	Yes ● No ○			e Sampled A n a Wetland		<b>.</b> O		
Wetland Hydrology Present?	Yes ● No ○				165 0 140			
Remarks:			I					<del>,</del>
This point is located in a roadside								
All three parameters have been m	et at this point. Thus, thi	s point is lo	cated in a w	etland.				
<b>VEGETATION</b> - Use scie	entific names of plan	ıts	Dominant					
TEGETATION OSC SCIO	There have so plan	Absolute	- Species? Rel.Strat.	Indicator	Dominance Tes	t workshoot:		
Tree Stratum (Plot size: 12' x 200'	)	% Cover	Cover	Status	Number of Domir			
1. Fraxinus pennsylvanica		10	100.0%	FACW	That are OBL, FA		_	4 (A)
2		0	0.0%		Total Number of	Dominant		
3			0.0%		Species Across Al		_	5 (B)
4 5.			0.0%		Percent of dom	inant Species		
J		10	= Total Cove		That Are OBL,		: 80	.0% (A/B)
Sapling/Shrub Stratum (Plot size: 12	2' x 75' )	10	- Total Cove	21	Prevalence Inde	ex worksheet:		
1. Fraxinus pennsylvanica		5	<b>✓</b> 50.0%	FACW	Total % 0		Multiply by	<b>/</b> :
2. Rhus aromatica		5	<b>✓</b> 50.0%	UPL	OBL species	0	x 1 =	0
3.		0	0.0%		FACW species	105	x 2 =	210
4			0.0%		FAC species	0	x 3 =	0
5		0	0.0%		FACU species		x 4 =	80
Herb Stratum (Plot size: 5' r	)	10	= Total Cove	er	UPL species	10	x 5 =	50
1. Solidago sempervirens		60	<b>✓</b> 52.2%	FACW	Column Totals	s: <u>135</u>	(A) _	340 (B)
2. Phalaris arundinacea		30	26.1%	FACW	Prevalence	Index = B/A	= 2.	519
3. Cirsium arvense			17.4%	FACU	Hydrophytic Ve	getation Indica	ators:	
4. Dipsacus laciniatus 5.			4.3%	UPL	1 - Rapid Te	st for Hydroph	ytic Vegeta	tion
6.		0 0	0.0%		✓ 2 - Dominan	ce Test is > 50	0%	
7.		0	0.0%		✓ 3 - Prevalen	ce Index is ≤3	3.0 <sup>1</sup>	
8.		0	0.0%		4 - Morpholo	ogical Adaptat arks or on a se	ions <sup>1</sup> (Prov	vide supporting
9.		0	0.0%			Hydrophytic V	•	
10.		0	0.0%				-	
Woody Vine Stratum (Plot size: 12'	x 200' )	115	= Total Cove	er	be present, unle			ydrology must itic.
1.		0	0.0%					
2.		0	0.0%		Hydrophytic			
		0	= Total Cove	er	Vegetation Present?	Yes • No	0	
Remarks: (Include photo numbers	s here or on a separate sl	neet.)						
This point is located in a wet mea								
The criterion for hydrophytic vege	tation is met at this point	•						

Depth	ion: (De	SCRIBE TO T Matrix	ne aeptn n	ieeaea to		tne inai lox Feati		mirm the	absence of indicators.)	
(inches)	Color (r		%	Color	(moist)	%	Type	Loc2	Texture	Remarks
0-6	10YR	3/1	100						Silty Clay Loam	
6-12	10YR	4/2	95	10YR	4/6	5	С	М	Silty Clay Loam	
12-20	10YR	2/1	45	10YR	4/6	5	С	М	Silty Clay Loam	
	10YR	3/1	45			`				
	10YR	3/2	5		`			-		
/pe: C=Concen		=Depletion	, RIVI=Reduc	сеа матгіх,	, CS=Covere	a or Coat	ed Sand Gra	ins.	Location: PL=Pore Lining. I	
Histosol (A1)				□ Sa	andy Gleyed	Matrix (S	4)		Indicators for Proble	matic Hydric Soils 3:
Histic Epiped					andy Redox		•/		Coast Prairie Redox	(A16)
Black Histic (	. ,				ripped Matri				☐ Dark Surface (S7)	
Hydrogen Su	ılfide (A4)				oamy Mucky	. ,	F1)		☐ Iron Manganese Ma	
Stratified Lay	vers (A5)				namy Gleyed				Very Shallow Dark S	Surface (TF12)
2 cm Muck (A	,				epleted Matr	•			Other (Explain in Re	emarks)
Depleted Belo		•	1)	_	edox Dark Si	` ′	)			
Thick Dark Su	•	,			epleted Dark	,	•		<sup>3</sup> Indicators of hydroph	avtic vegetation and
Sandy Muck I	•	,			edox Depres		. ,		wetland hydrology	must be present,
5 cm Mucky I									unless disturbed	or problematic.
estrictive Laye		erved):								
Type: None	9									
									Undria Cail Brosanta	v (a) N (
Depth (inches) Remarks: bil appears to be criterion for	be a road								Hydric Soil Present?	Yes  No
emarks: il appears to t e criterion for	be a road hydric s	oil is met							Hydric Soil Present?	Yes  No
emarks: il appears to be criterion for  YDROLOG  etland Hydrol	be a road hydric s	oil is met	at this poi	nt.	nat apply)					Yes  No  ors (minimum of two required)
emarks: il appears to to the criterion for YDROLOG etland Hydrol	be a road hydric s Y logy India s (minimu	oil is met	at this poi	nt.	nat apply) Water-Stain	ed Leaves	s (B9)			ors (minimum of two required)
emarks: il appears to be e criterion for  /DROLOG  etland Hydrol imary Indicators	hydric s  Hydric s  Hydric s  Mydric s  Mydric s  Mydric s	cators: m of one is	at this poi	nt.			· (B9)		Secondary Indicat	ors (minimum of two required) cracks (B6)
emarks: il appears to be criterion for  'DROLOG  etland Hydrolimary Indicators  Surface Wate	Y logy Indi s (minimu er (A1)	cators: m of one is	at this poi	theck all th	Water-Stain Aquatic Fau True Aquati	na (B13) c Plants (E	314)		Secondary Indicat Surface Soil C Drainage Patt	ors (minimum of two required)
emarks: il appears to be criterion for  **TOROLOG** etland Hydrolimary Indicators  Surface Water High Water T Saturation (A) Water Marks	Y Ogy Indi s (minimu er (A1) Table (A2) (B1)	cators: m of one is	at this poi	theck all th	Water-Stain	na (B13) c Plants (E	314)		Secondary Indicat Surface Soil C Drainage Patt	ors (minimum of two required) Fracks (B6) erns (B10) Vater Table (C2)
emarks: il appears to be criterion for  YDROLOG  etland Hydrolimary Indicators  Surface Wate  High Water T  Saturation (A  Water Marks  Sediment De	ly logy Indi s (Minimu er (A1) (B1) (B1) posits (B2)	cators: m of one is	at this poi	theck all th	Water-Stain Aquatic Fau True Aquati	na (B13) c Plants (E ulfide Odo	314) or (C1)	Roots (C3)	Secondary Indicat  Surface Soil C  Drainage Patt  Dry Season W  Crayfish Burro  Saturation Vis	ors (minimum of two required) Cracks (B6) erns (B10) /ater Table (C2) ows (C8) sible on Aerial Imagery (C9)
emarks: il appears to be criterion for  YDROLOG  etland Hydrolimary Indicators  Surface Wate  High Water T  Saturation (A  Water Marks  Sediment Deposits	ly logy Indi s (minimu er (A1) (B1) posits (B2) s (B3)	cators: m of one is	at this poi	theck all th	Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rh Presence of	na (B13) c Plants (E ulfide Odo izosphere: Reduced	314) or (C1) s on Living F Iron (C4)		Secondary Indicat  Surface Soil C  Drainage Patt  Dry Season W  Crayfish Burro  Saturation Vis  Stunted or Str	ors (minimum of two required)  bracks (B6) erns (B10)  later Table (C2) bws (C8) bible on Aerial Imagery (C9) ressed Plants (D1)
emarks: il appears to be criterion for  YDROLOG  etland Hydrolimary Indicators    Surface Water     High Water T     Saturation (A     Water Marks     Deposits     Algal Mat or (A	ly logy Indi s (minimu er (A1) Fable (A2) (B1) posits (B2) s (B3) Crust (B4)	cators: m of one is	at this poi	check all th	Water-Stain Aquatic Faul True Aquatic Hydrogen Si Oxidized Rh Presence of Recent Iron	na (B13) c Plants (E ulfide Odo izosphere: Reduced Reductior	314) or (C1) s on Living F Iron (C4) n in Tilled Sc		Secondary Indicat  Surface Soil C  Drainage Patt  Dry Season W  Crayfish Burro  Saturation Vis  Stunted or Str	ors (minimum of two required) Fracks (B6) Forms (B10) Forms (B10) Forms (C8) Forms (C8) Forms (C8) Forms (C9)
emarks: il appears to be criterion for  YDROLOG  etland Hydrolimary Indicators  Surface Water  High Water T  Saturation (A  Water Marks  Sediment Del  Drift Deposits  Algal Mat or (	Y  logy Indi s (minimu er (A1) labele (A2) labele (A2) labele (B1) posits (B2) s (B3) Crust (B4) s (B5)	cators: m of one is	at this poi	theck all th	Water-Stain- Aquatic Faul True Aquatic Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S	na (B13) c Plants (E ulfide Odo izosphere: Reduced Reduction curface (C	314) or (C1) s on Living F Iron (C4) n in Tilled Sc 7)		Secondary Indicat  Surface Soil C  Drainage Patt  Dry Season W  Crayfish Burro  Saturation Vis  Stunted or Str	ors (minimum of two required) Fracks (B6) Forms (B10) Forms (B10) Forms (C8) Forms (C8) Forms (C8) Forms (C9)
PROLOG  CONTROLOG  CON	logy Indias (Man)	cators: m of one is	at this poi	theck all th	Water-Stain Aquatic Faul True Aquatic Hydrogen Si Oxidized Rh Presence of Recent Iron	na (B13) c Plants (E ulfide Odo izosphere: Reduced Reduction curface (C	314) or (C1) s on Living F Iron (C4) n in Tilled Sc 7)		Secondary Indicat  Surface Soil C  Drainage Patt  Dry Season W  Crayfish Burro  Saturation Vis  Stunted or Str	ors (minimum of two required) Fracks (B6) Forms (B10) Forms (B10) Forms (C8) Forms (C8) Forms (C8) Forms (C9)
emarks: il appears to be criterion for  YDROLOG  etland Hydrolimary Indicators  Surface Water  High Water T  Saturation (A  Water Marks  Sediment Del  Drift Deposits  Algal Mat or (	logy Indias (Man)	cators: m of one is	at this poi	check all th	Water-Stain- Aquatic Faul True Aquatic Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S	na (B13) c Plants (E ulfide Odo izosphere: Reduced Reduction surface (C' ell Data (I	314) or (C1) s on Living F Iron (C4) n in Tilled Sc 7)		Secondary Indicat  Surface Soil C  Drainage Patt  Dry Season W  Crayfish Burro  Saturation Vis  Stunted or Str	ors (minimum of two required) Fracks (B6) Forms (B10) Forms (B10) Forms (C8) Forms (C8) Forms (C8) Forms (C9)
emarks: il appears to be criterion for  YDROLOG  etland Hydrolimary Indicators  Surface Water  High Water T  Saturation (A  Water Marks  Sediment Deposits  Algal Mat or (a  Iron Deposits  Inundation V  Sparsely Veg	y  logy Indi s (minimu er (A1) Fable (A2) (B1) posits (B2) s (B3) Crust (B4) s (B5) 'Isible on A letated Co	cators: m of one is	at this poi	check all th	Water-Stain- Aquatic Faul True Aquatic Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Explain	na (B13) c Plants (E ulfide Odo izosphere: Reduced Reduction iurface (C ell Data (I	314) or (C1) s on Living F Iron (C4) n in Tilled Sc 7)		Secondary Indicat  Surface Soil C  Drainage Patt  Dry Season W  Crayfish Burro  Saturation Vis  Stunted or Str	ors (minimum of two required) Fracks (B6) Forms (B10) Forms (B10) Forms (C8) Forms (C8) Forms (C8) Forms (C9)
emarks: il appears to be criterion for  YDROLOG  etland Hydrol rimary Indicators  Surface Water  High Water T  Saturation (A  Water Marks  Sediment Del Drift Deposits  Algal Mat or ( Iron Deposits Inundation V  Sparsely Veg	ly logy Indi s (minimu er (A1) Fable (A2) (B1) posits (B2) s (B3) Crust (B4) s (B5) risible on A petated Co	cators: m of one is  Aerial Imag ncave Surfa	ery (B7) ace (B8)	check all th	Water-Stain Aquatic Faul True Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W	na (B13) c Plants (E ulfide Odo izosphere: Reduced Reduction iurface (C ell Data (I	314) or (C1) s on Living F Iron (C4) n in Tilled Sc 7)		Secondary Indicat  Surface Soil C  Drainage Patt  Dry Season W  Crayfish Burro  Saturation Vis  Stunted or Str	ors (minimum of two required) Fracks (B6) Forms (B10) Forms (B10) Forms (C8) Forms (C8) Forms (C8) Forms (C9)
YDROLOG  YDROLOG  Yetland Hydrol rimary Indicators  Surface Wate  High Water T  Saturation (A  Water Marks  Sediment Deposits  Algal Mat or (A  Iron Deposits  Inundation V	logy Indias (Manager	cators: m of one is	ery (B7) ace (B8)	check all th	Water-Stain- Aquatic Faul True Aquatic Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Explain	na (B13) c Plants (E ulfide Odd izosphere: Reduced Reductior Gurface (C' ell Data (I ain in Rem	314) or (C1) s on Living F Iron (C4) n in Tilled Sc 7)	pils (C6)	Secondary Indicat  Surface Soil C  Drainage Patt  Dry Season W  Crayfish Burro  Saturation Vis  Stunted or Str  Geomorphic F  FAC-Neutral T	ors (minimum of two required) Fracks (B6) erns (B10) Vater Table (C2) bws (C8) Fible on Aerial Imagery (C9) Fressed Plants (D1) Fostition (D2) Fest (D5)
emarks: il appears to be criterion for  YDROLOG  etland Hydrol- imary Indicators  Surface Wate  High Water T  Saturation (A  Water Marks  Sediment De  Drift Deposits  Algal Mat or of  Iron Deposits  Inundation V  Sparsely Veg  eld Observation  arface Water Presentation Presentation Presentation Presentation	logy Indias (Manager	cators: m of one is  Aerial Imag ncave Surfa  Yes  Yes	ery (B7) ace (B8)  No	check all th	Water-Stain- Aquatic Faul True Aquatic Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Explain Depth (inc	na (B13) c Plants (E ulfide Odc izosphere: Reduced Reduction curface (C ell Data (I ain in Rem hes):	314) or (C1) s on Living F Iron (C4) n in Tilled Sc 7)	pils (C6)	Secondary Indicat  Surface Soil C  Drainage Patt  Dry Season W  Crayfish Burro  Saturation Vis  Stunted or Str	ors (minimum of two required) Fracks (B6) Forms (B10) Forms (B10) Forms (C8) Forms (C8) Forms (C8) Forms (C9)
emarks: il appears to be criterion for  YDROLOG  etland Hydrolimary Indicators  Surface Water High Water T Saturation (A Water Marks Sediment Deposits Algal Mat or of Iron Deposits Inundation V Sparsely Veg  eld Observation are Table Presenturation Presenturation Presentulators  includes capillary	logy Indias (Manager (A1)) Fable (A2) (B1) Posits (B2) (B3) Crust (B4) (B5) Visible on A Petated Co  Ons: esent? ent? vi fringe)	cators: m of one is  Aerial Imag ncave Surfa  Yes  Yes  Yes	ery (B7) ace (B8)  No (	theck all th	Water-Stain Aquatic Faul True Aquatic Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Explain Depth (inc	na (B13) c Plants (E ulfide Odc izosphere: Reduced Reductior Gurface (C' ell Data (I ain in Rem hes): hes):	314) or (C1) s on Living F Iron (C4) n in Tilled Sc 7) D9) harks)	wetl	Secondary Indicat  Surface Soil C  Drainage Patt  Dry Season W  Crayfish Burro  Saturation Vis  Stunted or Str  Geomorphic F  FAC-Neutral T	ors (minimum of two required) Fracks (B6) erns (B10) Vater Table (C2) bws (C8) Fible on Aerial Imagery (C9) Fressed Plants (D1) Fostition (D2) Fest (D5)
PROLOG  Control of the control of th	logy Indias (Manager (A1) (Manager (A1) (Manager (A2) (Man	cators: m of one is  Aerial Imag ncave Surfa  Yes  Yes  (stream	ery (B7) ace (B8)  No (C) No (C) gauge, mo	check all th	Water-Stain- Aquatic Faul True Aquatic Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Explain Depth (incomplete (incomplete))	na (B13) c Plants (Euffide Odo izosphere: Reduced Reductior iurface (C' ell Data (I ain in Rem hes): hes): photos,	previous ir	wetl	Secondary Indicat Surface Soil C Drainage Patt Dry Season W Crayfish Burro Saturation Vis Stunted or Str Geomorphic F FAC-Neutral T	ors (minimum of two required) Fracks (B6) erns (B10) Vater Table (C2) bws (C8) Fible on Aerial Imagery (C9) Fressed Plants (D1) Fosition (D2) Fest (D5)
emarks: il appears to be criterion for  YDROLOG  etland Hydrolimary Indicators  Surface Water High Water T Saturation (A Water Marks Sediment Deposits Algal Mat or of Iron Deposits Inundation V Sparsely Veg  eld Observation are Table Presenturation Presenturation Presentulators  includes capillary	logy Indias (Manager (A1)) Fable (A2) (B1) Fable (A2) (B1) Fable (A2) (B3) (Crust (B4) (Crust (B4) (S (B5) (Sisible on Aletated Colors (Sesent? (Fringe) (Fringe) (Manager (A1) (Manager	cators: m of one is  Aerial Imag ncave Surfa  Yes  Yes  (stream in the stream in the s	ery (B7) ace (B8)  No (C) No (C) gauge, monap, NRCS	check all the	Water-Stain Aquatic Faul True Aquatic Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Explain Depth (incomplete (incomplete) Depth (incomplete) Well, aerial p, Topogra	na (B13) c Plants (E ulfide Odo izosphere: Reduced Reductior isurface (C' ell Data (I ain in Rem hes): hes): photos, aphic ma	previous ir	wetl	Secondary Indicat Surface Soil C Drainage Patt Dry Season W Crayfish Burro Saturation Vis Stunted or Str Geomorphic F FAC-Neutral T	ors (minimum of two required) Fracks (B6) erns (B10) Vater Table (C2) bws (C8) Fible on Aerial Imagery (C9) Fressed Plants (D1) Fostition (D2) Fest (D5)

Project/Site: IH 94 (N-S Freeway)	City/C	ounty:	Milwaukee C	ounty	Sar	mpling Date:	18-Aug-14
Applicant/Owner: Wisconsin Department of Transportation			State:	WI	Sampling Poi	nt:	SP-35
Investigator(s): Ron Londre, Geof Parish	Sect	ion, Towr	nship, Range:	S 18 T	5N F	22E	
Landform (hillslope, terrace, etc.): Toeslope/ditch			Local relief (c	oncave, convex, no	ne): conca	ve	
Slope: 3.0% 1.7 • Lat.:		Long.:				Datum:	
Soil Map Unit Name: Blount silt loam (BIA), Not hydric				WWI cl	assification: _	Vone	
Are climatic/hydrologic conditions on the site typical for this time of	vear? Yes	No O	(If no, ex	plain in Remarks.)	-	VOLIC	
Are Vegetation □ , Soil ✔ , or Hydrology □	significantly disturb	ed?	Are "No	rmal Circumstances	s" present?	Yes	● No ○
Are Vegetation , Soil , or Hydrology	naturally problema			ded, explain any an		arks )	
SUMMARY OF FINDINGS - Attach site map sh			`	, ,		,	s etc
Hydrophytic Vegetation Present? Yes O No O	- Julia Sampin			115/ (141150005)	· · · · · · · · · · · · · · · · · · ·	- reactar e	
Hydric Soil Present?  Yes No   No   No   No   No   No   No   No			e Sampled A				
,, , , , , , , , , , , , , , , , , , , ,		withi	n a Wetland	l? Yes○N	lo		
Wetland Hydrology Present? Yes V No •							
This point is located in a roadside ditch.  None of the three parameters have been met at this point  VEGETATION - Use scientific names of plants.	ants. <b>D</b>	ominant	ted in an up	land.  Dominance Tes	st worksheel	:	
Tree Stratum (Plot size: 15' x 200'		Cover	Status	Number of Domii		-	
1		0.0%		That are OBL, FA		_	0 (A)
2		0.0%		Total Number of	Dominant		
3 4.		0.0%		Species Across A	II Strata:	_	1 (B)
5.		0.0%		Percent of dom	ninant Speci	es	
		Total Cove	er	That Are OBL,			0.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15' x 50'				Prevalence Inde	ex workshee	et:	
1.		0.0%		Total % (	Cover of:	Multiply	by:
2.	0 🗆	0.0%		OBL species	0	x 1 =	0
3		0.0%		FACW species	18	x 2 =	36
4		0.0%		FAC species	15	x 3 =	<u>45</u>
5		0.0%		FACU species	88	x 4 =	<u>352</u>
Herb Stratum (Plot size: 5' r	0 =	Total Cove	er	UPL species	2	x 5 =	10
1, Festuca rubra	80	65.0%	FACU	Column Totals	s: <u>123</u>	(A)	(B)
2. Poa pratensis	15	12.2%	FAC	Prevalence	e Index = B/	'A =	3.602
3. Agrostis gigantea	10	8.1%	FACW	Hydrophytic Ve	getation Inc	licators:	
Solidago canadensis     Euthamia graminifolia	_ 8 📙	6.5%	FACU	1 - Rapid Te	st for Hydro	phytic Vege	tation
6. Symphyotrichum novae-angliae	$\frac{5}{3}$	2.4%	FACW	2 - Dominar	nce Test is >	50%	
7. Daucus carota	2	1.6%	UPL	3 - Prevalen	ce Index is	≤3.0 <sup>1</sup>	
8.	0	0.0%					ovide supporting
9.	0 🗆	0.0%		data in Rem		-	neet) n <sup>1</sup> (Explain)
	0 🗆	0.0%				_	,
10.		T-4-1 C	er				hydrology must
	123 =	Total Cove		be present, unl	ess disturbe	a or probler	lauc.
Woody Vine Stratum (Plot size: 15' x 200'	123 =	0.0%		be present, unl	ess disturbe	a or probler	ilatic.
				Hydrophytic	ess disturbe	a or problen	nauc.
Woody Vine Stratum (Plot size: 15' x 200' )	0 0	0.0%	_	. ,		No •	nauc.

rofile Description: (Desc Depth M	ribe to the latrix	e aeptn ne	eeaea to a		tne inai dox Feati		ntirm the	absence of in	idicators.)	
(inches) Color (mo	oist)	%	Color (n	noist)	%	Туре	Loc2	Text	ure	Remarks
0-7 10YR	3/2	100						Silty Clay		
7-20 10YR	5/3	90	10YR	6/1	5	D	М	Silty Clay Lo	am	
			10YR	5/6	5	С	М			
rpe: C=Concentration, D=[	Denletion I	RM=Reduce	ed Matrix (	S=Covere	ed or Coat	ed Sand Gra	nins	Leocation: PL=	=Pore Lining	M=Matrix
dric Soil Indicators:	Depletion, i	W Redde	ca matrix, c	33 337616	ou or oout	ca sana cre				ematic Hydric Soils <sup>3</sup> :
Histosol (A1)			San	idy Gleyed	Matrix (S	4)				•
Histic Epipedon (A2)				idy Redox					Prairie Redo	x (A16)
Black Histic (A3)			Strip	pped Matri	ix (S6)				Surface (S7)	(54.0)
Hydrogen Sulfide (A4)			Loa	my Mucky	Mineral (F	F1)			Manganese M	
Stratified Layers (A5)			Loa	my Gleyed	Matrix (F	2)				Surface (TF12)
2 cm Muck (A10)				oleted Matr					(Explain in F	Remarks)
Depleted Below Dark Sur	, ,		Red	lox Dark Si	urface (F6	)				
Thick Dark Surface (A12)	,		☐ Dep	oleted Dark	Surface (	(F7)		3 Indicate	ors of hydror	phytic vegetation and
Sandy Muck Mineral (S1)			Red	lox Depres	sions (F8)	)		wetl	and hydrolog	yy must be present,
5 cm Mucky Peat or Peat								unl	less disturbed	d or problematic.
estrictive Layer (if obser	ved):									
Type: None										
								Hydric Soi	l Drocont?	Voc O No 🗨
Depth (inches): NA emarks: il appears to be a roadsi e criterion for hydric soi								Hydric Soi	I Present?	Yes ○ No •
Depth (inches): NA emarks: il appears to be a roadsi e criterion for hydric soi	il is not m							Hydric Soi	I Present?	Yes ○ No •
Depth (inches): NA emarks: il appears to be a roadsi e criterion for hydric soi  YDROLOGY etland Hydrology Indica	il is not m	et at this	point.	t apply)						Yes No •
Depth (inches): NA emarks: I appears to be a roadsi e criterion for hydric soi  /DROLOGY etland Hydrology Indica	il is not m	et at this	point.	t apply) /ater-Stain	ed Leaves	(B9)		Seco		ators (minimum of two required)
Depth (inches): NA emarks: I appears to be a roadsi e criterion for hydric soi  **TOROLOGY**  Petland Hydrology Indication and the common of t	il is not m	et at this	point.			s (B9)		Seco	ondary Indica	ators (minimum of two required) Cracks (B6)
Depth (inches): NA emarks: I appears to be a roadsi e criterion for hydric soi  /DROLOGY etland Hydrology Indica imary Indicators (minimum  Surface Water (A1)	il is not m	et at this	point.	/ater-Stain	na (B13)	,		Seco	ondary Indica Surface Soil Drainage Pa	ators (minimum of two required) Cracks (B6)
Depth (inches): NA emarks: il appears to be a roadsi e criterion for hydric soi  **TOROLOGY**  etland Hydrology Indicatimary Indicators (minimum)  Surface Water (A1)  High Water Table (A2)	il is not m	et at this	neck all that	/ater-Stain quatic Fau	na (B13) c Plants (E	314)		Seco	ondary Indica Surface Soil Drainage Pa	ators (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2)
Depth (inches): NA emarks: I appears to be a roadsi e criterion for hydric soi  **TOROLOGY**  **TORO	il is not m	et at this	neck all that	/ater-Stain quatic Fau rue Aquatic ydrogen Si	na (B13) c Plants (E ulfide Odo	314)	Roots (C3)	Seco	ondary Indica Surface Soil Drainage Pa Dry Season Crayfish Bur	ators (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2)
Depth (inches): NA emarks: I appears to be a roadsi e criterion for hydric soi   **TOROLOGY**  etland Hydrology Indica imary Indicators (minimum)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)	il is not m	et at this	neck all that	/ater-Stain quatic Fau rue Aquatic ydrogen Si	na (B13) c Plants (E ulfide Odo izosphere:	314) or (C1) s on Living F	Roots (C3)	Seco	ondary Indica Surface Soil Drainage Pa Dry Season ' Crayfish Bur Saturation V	ators (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8)
Depth (inches): NA emarks: il appears to be a roadsi e criterion for hydric soi   **TOROLOGY**  etland Hydrology Indica imary Indicators (minimum    Surface Water (A1)   High Water Table (A2)   Saturation (A3)   Water Marks (B1)   Sediment Deposits (B2)	il is not m	et at this	neck all that	/ater-Stain quatic Faul rue Aquatic ydrogen Si xidized Rh resence of	na (B13) c Plants (E ulfide Odo izosphere: Reduced	314) or (C1) s on Living F		Seco	ondary Indica Surface Soil Drainage Pa Dry Season <sup>1</sup> Crayfish Bur Saturation V Stunted or S	ators (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9)
Depth (inches): NA emarks: il appears to be a roadsi e criterion for hydric soi  YDROLOGY  etland Hydrology Indica rimary Indicators (minimum  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)	il is not m	et at this	neck all that	/ater-Stain quatic Faul rue Aquatic ydrogen Si xidized Rh resence of	na (B13) c Plants (E ulfide Odo izosphere: Reduced Reductior	314) or (C1) s on Living F Iron (C4) n in Tilled Sc		Seco	ondary Indica Surface Soil Drainage Pa Dry Season <sup>1</sup> Crayfish Bur Saturation V Stunted or S	ators (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2)
Depth (inches): NA emarks: il appears to be a roadsi e criterion for hydric soi  **POROLOGY**  etland Hydrology Indicatimary Indicators (minimum)    Surface Water (A1)   High Water Table (A2)   Saturation (A3)   Water Marks (B1)   Sediment Deposits (B2)   Drift Deposits (B3)   Algal Mat or Crust (B4)   Iron Deposits (B5)	ators: of one is r	et at this	neck all that  W AG Tr H; Co:	/ater-Stain- quatic Faul rue Aquatic ydrogen Staidized Rha resence of ecent Iron hin Muck S	na (B13) c Plants (E ulfide Odo izosphere: Reduced Reduction Surface (C	B14) or (C1) s on Living F Iron (C4) n in Tilled Sc 7)		Seco	ondary Indica Surface Soil Drainage Pa Dry Season Crayfish Bur Saturation V Stunted or S Geomorphic	ators (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2)
Depth (inches): NA emarks: I appears to be a roadsi e criterion for hydric soi  PDROLOGY  etland Hydrology Indica mary Indicators (minimum  Surface Water (A1) I High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	ators: of one is r	et at this equired; ch	neck all that  W AG Tr H; Co:	/ater-Stain- quatic Faul rue Aquatic ydrogen Si xidized Rh resence of ecent Iron	na (B13) c Plants (E ulfide Odo izosphere: Reduced Reductior Gurface (C' ell Data (E	314) or (C1) s on Living F Iron (C4) n in Tilled Sc 7)		Seco	ondary Indica Surface Soil Drainage Pa Dry Season Crayfish Bur Saturation V Stunted or S Geomorphic	ators (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2)
Depth (inches): NA emarks: il appears to be a roadsi e criterion for hydric soi  YDROLOGY  etland Hydrology Indicat imary Indicators (minimum)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aei	ators: of one is r	et at this equired; ch	neck all that  W AG Tr H; Co:	/ater-Stain- quatic Faul rue Aquatic ydrogen Staidized Rha resence of ecent Iron hin Muck Stauge or W	na (B13) c Plants (E ulfide Odo izosphere: Reduced Reductior Gurface (C' ell Data (E	314) or (C1) s on Living F Iron (C4) n in Tilled Sc 7)		Seco	ondary Indica Surface Soil Drainage Pa Dry Season Crayfish Bur Saturation V Stunted or S Geomorphic	ators (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2)
Depth (inches): NA emarks: il appears to be a roadsi e criterion for hydric soi  YDROLOGY  etland Hydrology Indicatimary Indicators (minimum)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aei	ators:  of one is r  rial Imager cave Surfac	et at this equired; ch	neck all that WAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	/ater-Stain- quatic Faul rue Aquatic ydrogen Staidized Rha resence of ecent Iron hin Muck Stauge or W	na (B13) c Plants (E ulfide Odo izosphere: Reduced Reductior Gurface (C' ell Data (E	314) or (C1) s on Living F Iron (C4) n in Tilled Sc 7)		Seco	ondary Indica Surface Soil Drainage Pa Dry Season Crayfish Bur Saturation V Stunted or S Geomorphic	ators (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2)
Depth (inches): NA emarks: il appears to be a roadsi e criterion for hydric soi  YDROLOGY  etland Hydrology Indica imary Indicators (minimum    Surface Water (A1)   High Water Table (A2)   Saturation (A3)   Water Marks (B1)   Sediment Deposits (B2)   Drift Deposits (B3)   Algal Mat or Crust (B4)   Iron Deposits (B5)   Inundation Visible on Aer   Sparsely Vegetated Conce   eld Observations:	ators: of one is r	et at this equired; ch	point.  neck all that  W AG Tr Ht; O: Pr RG Tt GG	/ater-Stain- quatic Faul rue Aquatic ydrogen Staidized Rha resence of ecent Iron hin Muck Stauge or W	na (B13) c Plants (E ulfide Odc izosphere: Reduced Reduction Surface (C' 'ell Data (I	314) or (C1) s on Living F Iron (C4) n in Tilled Sc 7)		Seco	ondary Indica Surface Soil Drainage Pa Dry Season Crayfish Bur Saturation V Stunted or S Geomorphic	ators (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2)
Depth (inches): NA emarks: il appears to be a roadsi e criterion for hydric soi  YDROLOGY  etland Hydrology Indica rimary Indicators (minimum    Surface Water (A1)   High Water Table (A2)   Saturation (A3)   Water Marks (B1)   Sediment Deposits (B2)   Drift Deposits (B3)   Algal Mat or Crust (B4)   Iron Deposits (B5)   Inundation Visible on Aer   Sparsely Vegetated Conc	ators:  of one is r  rial Imager cave Surfac	et at this  equired; ch  y (B7) e (B8)	neck all that WAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	Vater-Stain- quatic Faurus Aquatic ydrogen Si xidized Rh resence of ecent Iron hin Muck S auge or W ther (Expla	na (B13) c Plants (E ulfide Odc izosphere: Reduced Reductior Surface (C' cell Data (I ain in Rem	314) or (C1) s on Living F Iron (C4) n in Tilled Sc 7)		Seco	ondary Indica Surface Soil Drainage Pa Dry Season Crayfish Bur Saturation V Stunted or S Geomorphic	ators (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5)
Depth (inches): NA emarks: I appears to be a roadsi e criterion for hydric soi  **TOROLOGY**  **etland Hydrology Indicationary Indicators (minimum) I Surface Water (A1) I High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) I ron Deposits (B5) I Inundation Visible on Aer Sparsely Vegetated Conce  **eld Observations:**  **erland Hydrology Indications**  **eland Hydrology Indications**  **ela	rial Imager cave Surface  Yes C	et at this  equired; ch  y (B7) e (B8)  No  No  No	neck all that  W AG Tr Ht GG GG	Vater-Stain- quatic Faui rue Aquatic ydrogen Si xidized Rh resence of ecent Iron hin Muck S auge or W ther (Explain Depth (inc	na (B13) c Plants (E ulfide Odc izosphere: Reduced Reduction Surface (C' fell Data (I ain in Rem	314) or (C1) s on Living F Iron (C4) n in Tilled Sc 7)	oils (C6)	Seco	ondary Indica Surface Soil Drainage Pa Dry Season Crayfish Bur Saturation V Stunted or S Geomorphic FAC-Neutral	ators (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5)
Depth (inches): NA emarks: il appears to be a roadsi e criterion for hydric soi  **TOROLOGY**  **etland Hydrology Indica imary Indicators (minimum    Surface Water (A1)   High Water Table (A2)   Saturation (A3)   Water Marks (B1)   Sediment Deposits (B2)   Drift Deposits (B3)   Algal Mat or Crust (B4)   Iron Deposits (B5)   Inundation Visible on Aer   Sparsely Vegetated Conc  **eld Observations:** urface Water Present? ater Table Present? uturation Present? uturation Present? uturation Present?	rial Imager cave Surface  Yes C Yes C	equired: ch	point.  neck all that  W AG Tr Pr Re GG O'	Vater-Stain- quatic Faui rue Aquatic ydrogen Si xidized Rh resence of ecent Iron hin Muck S auge or W ther (Explain Depth (inc	na (B13) c Plants (E ulfide Odc izosphere: Reduced Reductior Surface (C' cell Data (I ches): ches):	B14) or (C1) s on Living F Iron (C4) n in Tilled Sc 7) D9) harks)	wetl	Second I	ondary Indica Surface Soil Drainage Pa Dry Season Crayfish Bur Saturation V Stunted or S Geomorphic FAC-Neutral	ators (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5)
Depth (inches): NA emarks: I appears to be a roadsi e criterion for hydric soi  **TOROLOGY**  **etland Hydrology Indication imary Indicators (minimum) I Surface Water (A1) I High Water Table (A2) I Saturation (A3) Water Marks (B1) I Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aer I Sparsely Vegetated Conconceled Observations:  **erface Water Present?**  **ater Table Present?*  **ater Table Present?*  **ater Table Recorded Data (secretable present)	rial Imager cave Surface  Yes C Yes C Yes C Stream ga	et at this  equired; ch  y (B7) e (B8)  No  No  auge, more	neck all that  W AG Tr Ht GG GG O	Vater-Stain- quatic Faul rue Aquatic ydrogen Si xidized Rh resence of ecent Iron hin Muck S auge or W ther (Explain Depth (incomplete (incomplete) Depth (incomplete)	na (B13) c Plants (E ulfide Odc izosphere: Reduced Reductior Surface (C' lell Data (I ain in Rem ches): ches): photos,	previous ir	wetl	Second I	ondary Indica Surface Soil Drainage Pa Dry Season Crayfish Bur Saturation V Stunted or S Geomorphic FAC-Neutral	ators (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5)
Depth (inches): NA emarks: I appears to be a roadsi e criterion for hydric soi  POROLOGY  Etland Hydrology Indica mary Indicators (minimum) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) I ron Deposits (B5) I nundation Visible on Aer Sparsely Vegetated Conce eld Observations: rface Water Present? ater Table Present? turation Present? cludes capillary fringe) scribe Recorded Data (servious delineation, DNR	rial Imager cave Surface  Yes C Yes C Yes C Stream ga	et at this  equired; ch  y (B7) e (B8)  No  No  auge, more	neck all that  W AG Tr Ht GG GG O	Vater-Stain- quatic Faul rue Aquatic ydrogen Si xidized Rh resence of ecent Iron hin Muck S auge or W ther (Explain Depth (incomplete (incomplete) Depth (incomplete)	na (B13) c Plants (E ulfide Odc izosphere: Reduced Reductior Surface (C' lell Data (I ain in Rem ches): ches): photos,	previous ir	wetl	Second I	ondary Indica Surface Soil Drainage Pa Dry Season Crayfish Bur Saturation V Stunted or S Geomorphic FAC-Neutral	ators (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5)
Depth (inches): NA emarks: I appears to be a roadsi e criterion for hydric soi  **TOROLOGY**  **Etland Hydrology Indication and the second an	rial Imager cave Surface  Yes C  Yes C  Yes C  Stream ga	et at this  equired; ch  y (B7) e (B8)  No  No  auge, mor	point.  neck all that  W AG Tr Ht Ot Re Th GG Ot Ot Soils map	Vater-Stain- quatic Faui rue Aquatic ydrogen Si xidized Rh resence of ecent Iron hin Muck S auge or W ther (Explain Depth (inc Depth (inc Depth (inc ell, aerial , Topogra	na (B13) c Plants (E ulfide Odc izosphere: Reduced Reduction Gurface (C' fell Data (I ain in Rem ches): ches): photos, aphic ma	previous ir	wetl	Second I	ondary Indica Surface Soil Drainage Pa Dry Season Crayfish Bur Saturation V Stunted or S Geomorphic FAC-Neutral	ators (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5)

roject/Site: _ IH 94 (N-S Freeway)	Cit	y/County:	Milwaukee C	County	Sampling	g Date:18-Aug-14
pplicant/Owner: Wisconsin Department of Transportation			State:	WI	Sampling Point:	SP-36
nvestigator(s): Ron Londre, Geof Parish		Section, Tow	nship, Range:	s 18 T	5N R 22	E
andform (hillslope, terrace, etc.): Toeslope/ditch			Local relief (d	concave, convex, r	none): concave	
lope: 3.0% 1.7 • Lat.:		Long.:				n:
oil Map Unit Name: Blount silt loam (BIA), Not hydric				WWI	classification: None	
re climatic/hydrologic conditions on the site typical for this time of	<sub>f vear?</sub> Yes	● No ○	(If no, e)	xplain in Remarks.		
re Vegetation, Soil	significantly dis	turbed?	Are "No	· ormal Circumstand	res" present?	Yes ● No ○
re Vegetation , Soil , or Hydrology	naturally proble				answers in Remarks.)	
SUMMARY OF FINDINGS - Attach site map sh			`		,	
Hydrophytic Vegetation Present? Yes • No	owing samp	Jiiiig poi	- Iocacio	nis, cransect	s, important re	atures, etc.
Hydric Soil Present? Yes No O			ne Sampled A	Area		
Wetland Hydrology Present?  Wetland Hydrology Present?  Yes  No  No		with	nin a Wetland	d? Yes 💿	No O	
Remarks:						
This point is located in a roadside ditch.  All three parameters have been met at this point. Thus,  VEGETATION - Use scientific names of plants of the parameters of plants.		Dominant	t	Dominance To	est worksheet:	
Tree Stratum (Plot size: 10' x 285' )	% Cover	Cover	Status	Number of Don		
1		0.0%		That are OBL, I		(A)
2		0.0%		Total Number o	of Dominant	
3 4.	0 0	0.0%		Species Across	All Strata:	(B)
5.		0.0%		Percent of do	ominant Species	
		= Total Cov	ver		, FACW, or FAC:	100.0% (A/B)
Sapling/Shrub Stratum (Plot size: 10' x 70' )				Prevalence In	dex worksheet:	
1.	0	0.0%		Total %	Cover of: M	lultiply by:
2.	0	0.0%		OBL species	65	x 1 = 65
3		0.0%		FACW specie		x 2 = 50
4. 5.		0.0%		FAC species		x 3 = 0
-	0 0	= Total Cov	Ver	FACU species UPL species		x 4 = 100
Herb Stratum (Plot size: 5' r			vei			x 5 = 15
1. Typha angustifolia		53.1%		Column Tota	als: 118	(A) <u>230</u> (B)
2. Agrostis gigantea		17.7%		Prevalen	ce Index = B/A =	1.949
Solidago canadensis     Festuca rubra		13.3%	FACU	Hydrophytic V	egetation Indicato	ors:
5. Achillea millefolium	<u>5</u> 5	4.4%	FACU	<b>✓</b> 1 - Rapid 1	Test for Hydrophyt	ic Vegetation
6. Symphyotrichum puniceum	5	4.4%	OBL		ance Test is > 50%	
7. Daucus carota	3	2.7%	UPL		ence Index is ≤3.0	
8.	0	0.0%			ological Adaptation marks or on a sepa	ns <sup>1</sup> (Provide supporting arate sheet)
9.	0	0.0%			-	getation <sup>1</sup> (Explain)
10.		0.0%				vetland hydrology must
Woody Vine Stratum (Plot size: 10' x 285' )	113	= Total Cov	ver		nless disturbed or	
1. Vitis riparia	5	100.0%	6 FACW			
2.	0	0.0%		Hydrophytic Vegetation		
					Yes • No	)
	5	= Total Cov	ver	Present?	165 0 116	9

Depth inches)         Matrix           0-7         10YR         4/1         90	Rec	lox Feature		the absence of	
0-7 10YR 4/1 90	Color (moist)	%		oc² Tex	ture Remarks
0 / 10111 4/1 70	10YR 4/6	10	С	Л Silty Clay L	oam
7-20 10YR 5/3 80	10YR 6/1	10	D	M Silty Clay L	oam
	10YR 5/6	10	С	М	
	<del></del>				
	<del></del>				
	<del></del>				
rpe: C=Concentration, D=Depletion, RM=Reduce	ad Matrix CS-Covere	d or Coated	Sand Grains	2ocation: Pl	=Pore Lining. M=Matrix.
dric Soil Indicators:	ed Matrix, C3-Covere	d or coated	Sand Grains.		
Histosol (A1)	Sandy Gleyed	Matrix (S4)			ors for Problematic Hydric Soils <sup>3</sup> :
Histic Epipedon (A2)	Sandy Redox	, ,			t Prairie Redox (A16)
Black Histic (A3)	Stripped Matri	ix (S6)		_	Surface (S7)
Hydrogen Sulfide (A4)	Loamy Mucky	Mineral (F1)	)		Manganese Masses (F12)
Stratified Layers (A5)	Loamy Gleyed	Matrix (F2)		☐ Very	Shallow Dark Surface (TF12)
2 cm Muck (A10)	Depleted Matr			☐ Othe	r (Explain in Remarks)
Depleted Below Dark Surface (A11)	Redox Dark S	urface (F6)			
Thick Dark Surface (A12)	Depleted Dark	Surface (F7	")	3 Indica	tors of hydrophytic vegetation and
Sandy Muck Mineral (S1)	Redox Depres	sions (F8)		we	tland hydrology must be present,
5 cm Mucky Peat or Peat (S3)				u u	nless disturbed or problematic.
strictive Layer (if observed):					
Type: None				— Hydric So	il Present? Yes • No
Depth (inches): NA				,	16 16 16
'DROLOGY					
'DROLOGY  etland Hydrology Indicators: mary Indicators (minimum of one is required; ch	eck all that apply)			Se	condary Indicators (minimum of two required)
etland Hydrology Indicators:		ed Leaves (F	39)	Se	condary Indicators (minimum of two required) Surface Soil Cracks (B6)
etland Hydrology Indicators: mary Indicators (minimum of one is required; ch		`	39)	Se	
etland Hydrology Indicators: mary Indicators (minimum of one is required; ch  Surface Water (A1)	Water-Stain Aquatic Fau	`	,	Se	Surface Soil Cracks (B6)
etland Hydrology Indicators: mary Indicators (minimum of one is required; ch  Surface Water (A1)  High Water Table (A2)	Water-Stain Aquatic Fau True Aquati	na (B13)	1)	Se	Surface Soil Cracks (B6) Drainage Patterns (B10)
etland Hydrology Indicators: mary Indicators (minimum of one is required; ch  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	Water-Stain Aquatic Fau True Aquati	na (B13) c Plants (B14 ulfide Odor (	1)		Surface Soil Cracks (B6) Drainage Patterns (B10) Dry Season Water Table (C2)
etland Hydrology Indicators: mary Indicators (minimum of one is required: ch  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)	Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh	na (B13) c Plants (B14 ulfide Odor (	4) (C1) on Living Roots		Surface Soil Cracks (B6) Drainage Patterns (B10) Dry Season Water Table (C2) Crayfish Burrows (C8)
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Project/Site: _IH 94 (N-S Freeway)	City/Cou	unty: Milwaukee (	County Sampling Date: 19-Aug-14
Applicant/Owner: Wisconsin Department of Transportation		State	: WI Sampling Point: SP-37
Investigator(s): Ron Londre, Geof Parish	Sectio	n, Township, Range	: S 19 T 5N R 22E
Landform (hillslope, terrace, etc.): Backslope		Local relief (	concave, convex, none): convex
Slope: 5.0% 2.9 • Lat.:	L	ong.:	Datum:
Soil Map Unit Name: Ashkum silty clay loam (AsA), All hydr			WWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of		o O (If no, e	explain in Remarks.)
Are Vegetation □ , Soil ✔ , or Hydrology □	significantly disturbed	d? Are "N	Iormal Circumstances" present? Yes  No
Are Vegetation , Soil , or Hydrology	naturally problematic		eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map she		,	
Hydrophytic Vegetation Present? Yes No •	511111g 5ampini	y point locatio	mportant reatures, etc.
Hydric Soil Present? Yes No   No   No   No   No   No   No   No		Is the Sampled	
Wetland Hydrology Present? Yes ○ No ●		within a Wetlan	d? Yes ○ No •
Remarks:			
VEGETATION - Use scientific names of pla	ants. <b>Do</b> r	ninant ecies?  Indicator	
Tree Stratum (Plot size: 20' x 140'		over Status	Number of Dominant Species
1	0	0.0%	That are OBL, FACW, or FAC:  1 (A)
2		0.0%	Total Number of Dominant
3 4.		0.0%	Species Across All Strata: 2 (B)
5.		0.0%	Percent of dominant Species
· .		otal Cover	That Are OBL, FACW, or FAC: 50.0% (A/B)
Sapling/Shrub Stratum (Plot size: 20' x 35'			Prevalence Index worksheet:
1.	0	0.0%	Total % Cover of: Multiply by:
2.	0 🗆	0.0%	OBL species 10 x 1 = 10
3	0	0.0%	FACW species $25 \times 2 = 50$
4		0.0%	FAC species $0 \times 3 = 0$
5		0.0%	FACU species 75 x 4 = 300
Herb Stratum (Plot size: 5' r		otal Cover	UPL species 0 x 5 = 0
1, Ambrosia artemisiifolia		54.5% FACU	Column Totals: 110 (A) 360 (B)
2. Phalaris arundinacea	25	22.7% FACW	Prevalence Index = B/A = 3.273
3. Carex pellita	10	9.1% OBL	Hydrophytic Vegetation Indicators:
Sonchus arvensis     Asclepias verticillata		9.1% FACU	1 - Rapid Test for Hydrophytic Vegetation
6.		4.5% FACU 0.0%	2 - Dominance Test is > 50%
7.		0.0%	$\Box$ 3 - Prevalence Index is ≤3.0 $^1$
8.		0.0%	4 - Morphological Adaptations 1 (Provide supporting
9.	0 🗆	0.0%	data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
10.	0 🗆	0.0%	
10.		otal Cover	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	= To		be present, unless distarbed of problematic
Woody Vine Stratum (Plot size: 20' x 140' )		0.0%	be present, unless distarbed of problematic
		0.0%	Hydrophytic
Woody Vine Stratum (Plot size: 20' x 140' )  1.	0 0		

Depth Matrix			iox Features	i commin the	absence of indi	cutors.y
	% Co	lor (moist)	% Тур	Loc <sup>2</sup>	Textur	e Remarks
0-9 10YR 3/1 1	00				Sandy Clay Loa	
9-20 10YR 4/4 1	00				Loamy Sand	30% gravel
pe: C=Concentration, D=Depletion, RM	I=Reduced Ma	atrix, CS=Covere	ed or Coated Sand	Grains.	Location: PL=P	ore Lining. M=Matrix.
dric Soil Indicators:		٦			Indicators	for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Muck Mineral (S1)		Sandy Gleyed Sandy Redox Stripped Matr Loamy Mucky Loamy Gleyed Depleted Mat Redox Dark S Depleted Darl Redox Depres	(S5) ix (S6) Mineral (F1) I Matrix (F2) rix (F3) urface (F6) c Surface (F7)		Dark Sui Iron Mai Very Sha Other (E	airie Redox (A16)  face (S7)  nganese Masses (F12)  allow Dark Surface (TF12)  xplain in Remarks)  of hydrophytic vegetation and d hydrology must be present,
5 cm Mucky Peat or Peat (S3) strictive Layer (if observed):					unies	s disturbed or problematic.
emarks:						
e criterion for hydric soil is not met						
e criterion for hydric soil is not met						
e criterion for hydric soil is not met  /DROLOGY  etland Hydrology Indicators:	at this point	t.				
Criterion for hydric soil is not met  /DROLOGY  etland Hydrology Indicators: imary Indicators (minimum of one is req	at this point	t.			Secon	dary Indicators (minimum of two required)
**Continuous of the continuous	at this point	t.  ill that apply)  Water-Stain	ed Leaves (B9)		Sı	rface Soil Cracks (B6)
**DROLOGY**  etland Hydrology Indicators: mary Indicators (minimum of one is req  Surface Water (A1)  High Water Table (A2)	at this point	t.  Ill that apply)  Water-Stair  Aquatic Fau	na (B13)		Su Dr	rface Soil Cracks (B6) ainage Patterns (B10)
**TOROLOGY**  **Parametric properties of the criterion for hydric soil is not met of the criterion for hydric	at this point	t.  Ill that apply)  Water-Stain  Aquatic Fau  True Aquati	na (B13) c Plants (B14)		St. Dr	rface Soil Cracks (B6) ainage Patterns (B10) y Season Water Table (C2)
TOROLOGY  etland Hydrology Indicators: mary Indicators (minimum of one is req  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)	at this point	t.  Ill that apply)  Water-Stair  Aquatic Fau  True Aquati  Hydrogen S	na (B13) c Plants (B14) ulfide Odor (C1)	ing Poots (C2)	St. Dr. Dr. Cr.	rface Soil Cracks (B6) ainage Patterns (B10) y Season Water Table (C2) ayfish Burrows (C8)
Procedure of the criterion for hydric soil is not met  Procedure o	at this point	t.  Water-Stair  Aquatic Fau  True Aquati  Hydrogen S  Oxidized Rh	na (B13) c Plants (B14) ulfide Odor (C1) izospheres on Liv		St. Di	urface Soil Cracks (B6) ainage Patterns (B10) y Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9)
POROLOGY  etland Hydrology Indicators: imary Indicators (minimum of one is req  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)	at this point	t.  Water-Stair  Aquatic Fau  True Aquati  Hydrogen S  Oxidized Rh	na (B13) c Plants (B14) ulfide Odor (C1) izospheres on Liv Reduced Iron (C	4)	St.	urface Soil Cracks (B6) ainage Patterns (B10) y Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1)
POROLOGY  etland Hydrology Indicators: imary Indicators (minimum of one is req  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)	at this point	t.  Water-Stair  Aquatic Fau  True Aquati  Hydrogen S  Oxidized Rh  Presence of	na (B13) c Plants (B14) ulfide Odor (C1) izospheres on Liv Reduced Iron (C Reduction in Tille	4)	St	urface Soil Cracks (B6) ainage Patterns (B10) y Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1) comorphic Position (D2)
Procedure of the criterion for hydric soil is not met a c	uired; check a	t.  Water-Stair  Aquatic Fau  True Aquati  Hydrogen S  Oxidized Rh  Presence of  Recent Iror	na (B13) c Plants (B14) ulfide Odor (C1) izospheres on Liv Reduced Iron (C- Reduction in Tille Surface (C7)	4)	St	urface Soil Cracks (B6) ainage Patterns (B10) y Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1)
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High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery ( Sparsely Vegetated Concave Surface (  eld Observations:  urface Water Present? Yes	uired; check a  [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [	t.  Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expl	na (B13) c Plants (B14) ulfide Odor (C1) izospheres on Liv Reduced Iron (C Reduction in Tille Surface (C7) fell Data (D9) ain in Remarks)	4)	St	urface Soil Cracks (B6) ainage Patterns (B10) y Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1) comorphic Position (D2)
Procedure criterion for hydric soil is not met  Procedure criterion for hydric	uired; check a  [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [	t.  Water-Stair Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of Recent Iror Thin Muck S Gauge or W Other (Expl	na (B13) c Plants (B14) ulfide Odor (C1) izospheres on Liv Reduced Iron (C Reduction in Tille Surface (C7) fell Data (D9) ain in Remarks)	4)  dd Soils (C6)	Substitution of the state of th	urface Soil Cracks (B6) ainage Patterns (B10) y Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1) comorphic Position (D2) C-Neutral Test (D5)
Procedure criterion for hydric soil is not met criterion for hydric soil is not met procedure criterion for hydric soil is not met procedure.  Procedure crite	uired; check a  [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [	t.  Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expl	na (B13) c Plants (B14) ulfide Odor (C1) izospheres on Liv Reduced Iron (C Reduction in Tille Surface (C7) fell Data (D9) ain in Remarks) ches):	4) d Soils (C6)  Wet	SL Dr Dr Cr Sa St GG FA	urface Soil Cracks (B6) ainage Patterns (B10) y Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1) comorphic Position (D2) aC-Neutral Test (D5)
Procedure Criterion for hydric soil is not met criterion for hydric soil is not met procedure criterion for hydric soil is not met procedure.  Procedure Concave Surface (active Concave Surface (active Concave Surface (active Concave Surface (active Concave Concave Surface (active Concave Conca	uired; check a  [[B7] [B8]  No  No  Que, monitoring	t.  Water-Stair Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of Recent Iror Thin Muck S Gauge or W Other (Expl	na (B13) c Plants (B14) ulfide Odor (C1) izospheres on Liv Reduced Iron (C Reduction in Tille Surface (C7) fell Data (D9) ain in Remarks) ches): ches):	wet	SL Dr Dr Cr Sa St GG FA	urface Soil Cracks (B6) ainage Patterns (B10) y Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1) comorphic Position (D2) C-Neutral Test (D5)
Procedure criterion for hydric soil is not met  Procedure criterion for metallications  Procedure criterion for hydric soil is not metallications  Proced	uired; check a  [[B7] [B8]  No  No  Que, monitoring	t.  Water-Stair Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of Recent Iror Thin Muck S Gauge or W Other (Expl	na (B13) c Plants (B14) ulfide Odor (C1) izospheres on Liv Reduced Iron (C Reduction in Tille Surface (C7) fell Data (D9) ain in Remarks) ches): ches):	wet	SL Dr Dr Cr Sa St GG FA	urface Soil Cracks (B6) ainage Patterns (B10) y Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1) comorphic Position (D2) C-Neutral Test (D5)

Project/Site: IH 94 (N-S Freeway)		City.	/County:	Milwaukee C	ounty	Sampling Date:	19-Aug-14
Applicant/Owner: Wisconsin Departmen	nt of Transportation			State:	_WI	Sampling Point:	SP-38
Investigator(s): Ron Londre, Geof Paris	h	Se	ection, Town	ship, Range:	S 19 T	5N R 22E	
Landform (hillslope, terrace, etc.): Toes	slope/ditch				oncave, convex, nor	ne): concave	_
Slope: 2.0% 1.1 • Lat.:						Datum:	
			Long.:				
Soil Map Unit Name: Ashkum silty c		· · ·	No O	(16		ssification: None	
Are climatic/hydrologic conditions on the		year:			plain in Remarks.)	'nresent? Yes	● No ○
Are Vegetation , Soil		significantly distu		Are "No	rmal Circumstances'	' present? Yes	● NO ○
Are Vegetation, Soil	, or Hydrology	naturally problen	natic?	(If need	ded, explain any ans	wers in Remarks.)	
SUMMARY OF FINDINGS - A	Attach site map sho	wing samp	ling poin	t locatio	ns, transects,	important featur	es, etc.
Hydrophytic Vegetation Present?	Yes   No						
Hydric Soil Present?	Yes  No			Sampled A	rea		
Wetland Hydrology Present?	Yes  No		withir	n a Wetland	? Yes • No	• (	
, 0,	103 0 110 0						
Remarks: This point is located in a roadside	ditch						
All three parameters have been n		his point is loca	nted in a w	etland.			
<b>VEGETATION -</b> Use scie	entific names of pla	ints.	Dominant Species?				
Tara Chartera (Diet size, 20' x 140'	1	Absolute % Cover	Rel.Strat.		Dominance Test	worksheet:	
Tree Stratum (Plot size: 20' x 140' 1.			Cover	Status	Number of Domin		2 (4)
		0 [	0.0%		That are OBL, FAC	CW, or FAC:	3 (A)
3.			0.0%		Total Number of E		3 (B)
4.		0	0.0%		Species Across All	Strata:	3 (B)
5.		0	0.0%	0	Percent of domi		100.0% (A/B)
		0	= Total Cove	г	That Are OBL, F	-ACW, or FAC:	00.076 (A/B)
Sapling/Shrub Stratum (Plot size: 20	0' x 35' )	_	_		Prevalence Inde	x worksheet:	
1. Salix discolor		15	100.0%	FACW	Total % C	over of: Multiply	by:
2			0.0%		OBL species	93 x 1 =	93
34.			0.0%		FACW species	36 x 2 =	72
5.			0.0%		FAC species	0	0
		15	= Total Cove		FACU species UPL species	3 x 4 = 0 x 5 =	0
Herb Stratum (Plot size: 5' r	)		_		•		
1. Typha angustifolia			<b>∠</b> 51.3%	OBL	Column Totals	: <u>132</u> (A)	(B)
2. Typha X glauca			25.6%	OBL	Prevalence	Index = B/A =	1.341
Solidago sempervirens     Phalaris arundinacea		<u>8</u> 5	6.8% 4.3%	FACW FACW	Hydrophytic Veg	etation Indicators:	
5. Euthamia graminifolia		5	4.3%	FACW	l	st for Hydrophytic Veg	etation
6. Agrostis gigantea		3	2.6%	FACW		ce Test is > 50%	
7. Carex pellita		3	2.6%	OBL		te Index is $\leq$ 3.0 $^1$	
8. Sonchus arvensis		3	2.6%	FACU	4 - Morpholo	gical Adaptations $^1$ (Parks or on a separate s	rovide supporting heet)
9.		0	0.0%			Hydrophytic Vegetation	•
10.			0.0%		_		
Woody Vine Stratum (Plot size: 20'	x 140' )	117 =	= Total Cove	Г		nydric soil and wetland ess disturbed or proble	
1.		0	0.0%				
2.		0	0.0%		Hydrophytic Vegetation		
		0	= Total Cove	Г	Present?	Yes   No	
Remarks: (Include photo number	s here or on a separate	sheet.)					
This point is located in a shallow							
The criterion for hydrophytic vege	etation is met at this poin	nt.					

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth		Matrix	ine depen in	coucu to u		ox Featu			absence of indicators.)	
(inches)	Color (n		%	Color (m		%	Type	Loc2	Texture	Remarks
0-10	10YR	4/1	75	7.5YR	4/4	5	С	М	Silty Clay Loam	
				10YR	4/2	20	D	М		
10-20	10YR	5/1	80	7.5YR	4/6	10	С	M	Sandy Clay	
				7.5YR	5/4	5	С	М		
_ =	.,		_		_	_	_			
pe: C=Conce		=Depletion	, RM=Reduc	ed Matrix, C	S=Covere	d or Coate	ed Sand Gra	ins.	Pocation: PL=Pore Lining.	л=Matrix.
dric Soil Ind Histosol (A1				Cons	dy Gleyed	Motely (C	4)		Indicators for Proble	matic Hydric Soils <sup>3</sup> :
Histic Epipee Black Histic Hydrogen Si Stratified La 2 cm Muck ( Depleted Be Thick Dark S Sandy Muck 5 cm Mucky	(A3) ulfide (A4) yers (A5) (A10) elow Dark S Surface (A1 Mineral (S	2)	1)	Strip Loar Loar  Depl Redd Depl	dy Redox ( pped Matrix my Mucky my Gleyed leted Matri ox Dark Su leted Dark ox Depress	( (S6) Mineral (F Matrix (F x (F3) Irface (F6	2) ) (F7)		Coast Prairie Redox Dark Surface (S7) Iron Manganese Ma Very Shallow Dark S Other (Explain in Re	sses (F12) urface (TF12) marks)  ytic vegetation and must be present,
trictive Lay									unicas disturbed	or problematic.
Depth (inche	s):_NA							_	Hydric Soil Present?	Yes   No
Depth (inche emarks: I appears to e criterion fo	s): <u>NA</u> be a road r hydric so								Hydric Soil Present?	Yes   No
Depth (inche emarks: il appears to e criterion fo	s): <u>NA</u> be a road or hydric so	oil is met							Hydric Soil Present?	Yes  No
Depth (inche emarks: il appears to e criterion fo	s): NA  be a road or hydric so  GY  blogy Indic rs (minimum	cators:	at this poir	nt.						Yes No No
Depth (inche emarks: il appears to e criterion fo	be a road r hydric so r hydric so rs (minimum ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) r Crust (B4) ts (B5) Visible on A	cators: m of one is	at this poir s required; cf	neck all that  W: Ac Tr Hy Cx Pr Re	ater-Staine quatic Faur ue Aquatic ydrogen Su kidized Rhi. esence of	na (B13) Plants (E Ilfide Odo Zospheres Reduced Reductior urface (CT	314)  Ir (C1)  Is on Living F  Iron (C4)  In in Tilled Sc  T)		Secondary Indicate Surface Soil C Drainage Patte Dry Season W Crayfish Burro Saturation Vis	prs (minimum of two required) racks (B6) erns (B10) later Table (C2) lws (C8) lible on Aerial Imagery (C9) essed Plants (D1) osition (D2)
Depth (inche emarks: il appears to e criterion for the criterion f	be a road or hydric so blogy Indic rs (minimunater (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) r Crust (B4) ts (B5) Visible on A	cators: m of one is  erial Imagencave Surfa	at this poir s required; ch	neck all that  Ware Accompany Accomp	ater-Staine quatic Faur ue Aquatic ydrogen Su kidized Rhi. esence of ecent Iron nin Muck Si auge or We ther (Expla	na (B13) Plants (E Ilfide Odo zospheres Reduced Reductior urface (C: Ell Data (E in in Rem	314)  Ir (C1)  Is on Living F  Iron (C4)  In in Tilled Sc  T)		Secondary Indicate Surface Soil C Drainage Patte Dry Season W Crayfish Burro Saturation Vis Stunted or Str	prs (minimum of two required) racks (B6) erns (B10) later Table (C2) lws (C8) lible on Aerial Imagery (C9) essed Plants (D1) osition (D2)
Depth (inche emarks: il appears to e criterion for the criterion f	be a road or hydric so be a road or hydric so blogy Indic rs (minimunater (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) ts (B5) Visible on A getated Con ions:	cators: m of one is  merial Imagencave Surfa	ery (B7) ace (B8)	neck all that  Wi Acc Tr Hy Ox Pri Re Th Ga Ot	ater-Staine quatic Faur ue Aquatic ydrogen Su kidized Rhi. esence of ecent Iron nin Muck Si auge or We	na (B13) Plants (E Ilfide Odo zospheres Reduced Reductior urface (C: Ell Data (E in in Rem	314)  Ir (C1)  Is on Living F  Iron (C4)  In in Tilled Sc  T)		Secondary Indicate Surface Soil C Drainage Patte Dry Season W Crayfish Burro Saturation Vis Stunted or Str	prs (minimum of two required) racks (B6) erns (B10) later Table (C2) lws (C8) lible on Aerial Imagery (C9) essed Plants (D1) osition (D2)
Depth (inche emarks: I appears to e criterion for the criterion fo	be a road rhydric so resent?	cators: m of one is  merial Imagencave Surfa  Yes  Yes	ery (B7) ace (B8)  No  No	neck all that  W: Ac Tr Hy Cox Tr Ge Cot	ater-Staine quatic Faur ue Aquatic ydrogen Su kidized Rhi. esence of ecent Iron nin Muck Si auge or We ther (Expla	na (B13) Plants (E plants (E plants) Plants (E plants) Reduced Reduction Plants (C plants) Rem Rem Rem Rem	314)  Ir (C1)  Is on Living F  Iron (C4)  In in Tilled Sc  T)	pils (C6)	Secondary Indicate Surface Soil C Drainage Patte Dry Season W Crayfish Burro Saturation Vis Stunted or Str Geomorphic P FAC-Neutral T	ors (minimum of two required) racks (B6) erns (B10) later Table (C2) ws (C8) lible on Aerial Imagery (C9) essed Plants (D1) osition (D2) est (D5)
Depth (inche emarks: il appears to e criterion for the criterion f	be a road or hydric so be a road or hydric so blogy Indic rs (minimunater (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) ts (B5) Visible on A getated Cor ions: resent? sent? nt? ry fringe)	cators: m of one is  merial Imagencave Surfa  Yes  Yes  Yes	ery (B7) ace (B8)  No O	neck all that  Ware Accompany Accomp	ater-Staine quatic Faur ue Aquatic ydrogen Su kidized Rhi. esence of ecent Iron nin Muck Si auge or We cher (Expla	na (B13) Plants (E plants) Plants (E plants) Reduced Reduction Plants (C plants) Reduced Reduction Reduction Reduction Remes):	314) or (C1) s on Living F Iron (C4) on in Tilled Sc 7) D9) harks)	weti	Secondary Indicate Surface Soil C Drainage Path Provided The Provided Solution of Struction of S	ors (minimum of two required) racks (B6) erns (B10) fater Table (C2) ws (C8) fible on Aerial Imagery (C9) essed Plants (D1) osition (D2) est (D5)
Depth (inche emarks: I appears to e criterion for the criterion fo	be a road or hydric so or hydric so or hydric so or hydric so or hydric so or s (minimun ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) or Crust (B4) ts (B5) Visible on A getated Con ions: resent? sent? y fringe)	cators: m of one is  merial Imagencave Surfa  Yes  Yes  Yes  (stream of	ery (B7) ace (B8)  No C gauge, mor	neck all that  Winch According to the content of th	ater-Staine quatic Faur ue Aquatic ydrogen Su kidized Rhi esence of ecent Iron nin Muck Si auge or We ther (Expla	Plants (Billion Plants) Plants (Billion Plants) Reduced Reduction Plants (Cilion Plants) Reduced Reduction Reduction Remines): Res): Res): Res): Res): Res):	and the second s	wetl	Secondary Indicate Surface Soil C Drainage Patte Dry Season W Crayfish Burro Saturation Vis Stunted or Str Geomorphic P FAC-Neutral T	ors (minimum of two required) racks (B6) erns (B10) later Table (C2) ws (C8) lible on Aerial Imagery (C9) essed Plants (D1) osition (D2) est (D5)
Depth (inche emarks: appears to e criterion for the criterion for	be a road or hydric so or hydric so or hydric so or hydric so or hydric so or s (minimun ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) or Crust (B4) ts (B5) Visible on A getated Con ions: resent? sent? y fringe)	cators: m of one is  merial Imagencave Surfa  Yes  Yes  Yes  (stream of	ery (B7) ace (B8)  No C gauge, mor	neck all that  Winch According to the content of th	ater-Staine quatic Faur ue Aquatic ydrogen Su kidized Rhi esence of ecent Iron nin Muck Si auge or We ther (Expla	Plants (Billion Plants) Plants (Billion Plants) Reduced Reduction Plants (Cilion Plants) Reduced Reduction Reduction Remines): Res): Res): Res): Res): Res):	and the second s	wetl	Secondary Indicate Surface Soil C Drainage Path Provided The Provided Solution of Struction of S	ors (minimum of two required) racks (B6) erns (B10) later Table (C2) ws (C8) lible on Aerial Imagery (C9) essed Plants (D1) osition (D2) est (D5)

Project/Site: H 94 (N-S Freeway)	City/	'County:	Milwaukee C	County Sampling Date: 19-Aug-14
Applicant/Owner: Wisconsin Department of Transportation			State:	WI Sampling Point: SP-39
nvestigator(s): Ron Londre, Geof Parish	Se	ction, Tow	nship, Range:	S 19 T 5N R 22E
andform (hillslope, terrace, etc.): Toeslope/ditch			Local relief (d	concave, convex, none): concave
Slope: 6.0% 3.4 • Lat.:		Long.:		Datum:
Soil Map Unit Name: Morley silt loam (MzdC2), Not hydric		_		WWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of	vear? Yes	No O	(If no, e)	xplain in Remarks.)
	significantly distu	rbed?	Are "No	ormal Circumstances" present? Yes  No  No
	naturally problem			
SUMMARY OF FINDINGS - Attach site map sho				ded, explain any answers in Remarks.)
Hydrophytic Vegetation Present? Yes No O	wing samp		iit iocatio	ns, transects, important reatures, etc.
			e Sampled <i>A</i>	
,		with	in a Wetland	d? Yes ○ No ●
Wetland Hydrology Present? Yes ○ No ●  Remarks:				
This point is located in a roadside ditch. Two of three parameters have not been met at this point  VEGETATION - Use scientific names of pla	nts.	Dominant Species?	<u>·</u>	Dominance Test worksheet:
Tree Stratum (Plot size: 12' x 75'	% Cover	Cover	Status	Number of Dominant Species
1	0	0.0%		That are OBL, FACW, or FAC: 3 (A)
2.		0.0%		Total Number of Dominant
3 4.		0.0%		Species Across All Strata: 5 (B)
5.	0 [	0.0%		Percent of dominant Species
		Total Cov	er	That Are OBL, FACW, or FAC: 60.0% (A/B)
Sapling/Shrub Stratum (Plot size: 12' x 75' )				Prevalence Index worksheet:
1. Zanthoxylum americanum	10	50.0%	FACU	Total % Cover of: Multiply by:
2. Cornus obliqua	5	25.0%	FACW	OBL species 0 x 1 = 0
3. Rhamnus cathartica	_ 5	25.0%	FAC	FACW species $25$ x 2 = $50$
4 5.		0.0%		FAC species $5 \times 3 = 15$
5	0_ L	0.0%		FACU species 95 x 4 = 380
Herb Stratum (Plot size: 5' r )	20 =	= Total Cov	er	UPL species 0 x 5 = 0
1, Festuca rubra	80	84.2%	FACU	Column Totals: 125 (A) 445 (B)
2. Agrostis gigantea	10	10.5%	FACW	Prevalence Index = B/A = 3.560
3. Solidago canadensis	_ <u>5</u> _	5.3%	<u>FACU</u>	Hydrophytic Vegetation Indicators:
4 5.		0.0%		1 - Rapid Test for Hydrophytic Vegetation
<i>5.</i>		0.0%		<b>✓</b> 2 - Dominance Test is > 50%
6.		0.070		3 - Prevalence Index is ≤3.0 1
6. 7.		0.0%		5 - Flevalence Index is 25.0
7. 8.	0 [	0.0%		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
7. 8. 9.	0 [	_		4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
7. 8.	0	0.0%		4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
7. 8. 9.	0 C 0 C 0 C	0.0%	er	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  1 Indicators of hydric soil and wetland hydrology must
7. 8. 9. 10.  Woody Vine Stratum (Plot size: 12' x 75' )	0 C 0 C 0 C 0 C	0.0% 0.0% 0.0% Total Cov		4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
7. 8. 9. 10.	0 C 0 C 0 C	0.0%		4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Hydrophytic
7. 8. 9. 10.  Woody Vine Stratum (Plot size: 12' x 75' ) 1. Vitis riparia	0 C C C C C C C C C C C C C C C C C C C	0.0% 0.0% 0.0% = Total Cov	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

rofile Description: (Describe to the Depth Matrix	depth ne		ent the indi		nfirm the	absence of indicators.)	
(inches) Color (moist)	%	Color (moist)	%	Type	Loc2	Texture	Remarks
0-6 10YR 3/2	100					Sandy Clay Loam	
6-20 10YR 5/3	70	10YR 6/1	20	D	М	Sandy Clay Loam	
		7.5YR 5/6	10	С	M		
		<del></del>					
rpe: C=Concentration, D=Depletion, R	M-Peduce	ad Matrix CS=Cove	ered or Coat	ed Sand Gra	ine	Location: PL=Pore Lining, I	M_Matrix
dric Soil Indicators:	IVI – Neduce	ed Matrix, C3=COV	cred or coat	eu Sanu Gre	11113.		
Histosol (A1)		Sandy Gley	ed Matrix (S	4)		Indicators for Proble	•
Histic Epipedon (A2)		Sandy Redo		,		Coast Prairie Redox	(A16)
Black Histic (A3)		Stripped Ma				☐ Dark Surface (S7)	
Hydrogen Sulfide (A4)		Loamy Muc	ky Mineral (	F1)		☐ Iron Manganese Ma	
Stratified Layers (A5)		Loamy Gley	ed Matrix (F	2)		☐ Very Shallow Dark S	Surface (TF12)
2 cm Muck (A10)		Depleted M				Other (Explain in Re	emarks)
Depleted Below Dark Surface (A11)		Redox Dark	Surface (F6	b)			
Thick Dark Surface (A12)		Depleted D	ark Surface	(F7)		<sup>3</sup> Indicators of hydroph	nytic vegetation and
Sandy Muck Mineral (S1)		Redox Depr	essions (F8)	)		wetland hydrology	must be present,
5 cm Mucky Peat or Peat (S3)						unless disturbed	or problematic.
estrictive Layer (if observed):							
Type: None							
						Hydric Soil Present?	Vac O No 🗨
Depth (inches): NA  Remarks:  oil appears to be a roadside fill and the criterion for hydric soil is not me						Hydric Soil Present?	Yes O No O
Depth (inches): NA emarks: il appears to be a roadside fill and e criterion for hydric soil is not me						Hydric Soil Present?	Yes No •
Depth (inches): NA emarks: il appears to be a roadside fill and e criterion for hydric soil is not me YDROLOGY retland Hydrology Indicators:	et at this	point.					Yes ○ No ●  ors (minimum of two required)
Depth (inches): NA emarks: il appears to be a roadside fill and e criterion for hydric soil is not me  **TOROLOGY** etland Hydrology Indicators:	et at this	point.	iined Leaves	s (B9)			ors (minimum of two required)
Depth (inches): NA emarks: I appears to be a roadside fill and e criterion for hydric soil is not me  /DROLOGY etland Hydrology Indicators: imary Indicators (minimum of one is re	et at this	point.  neck all that apply)  Water-Sta	ained Leaves auna (B13)	6 (B9)		Secondary Indicat	ors (minimum of two required) cracks (B6)
Depth (inches): NA emarks: I appears to be a roadside fill and e criterion for hydric soil is not me  //DROLOGY etland Hydrology Indicators: imary Indicators (minimum of one is re  Surface Water (A1)	et at this	point.  neck all that apply)  Water-Sta		` '		Secondary Indicat  Surface Soil C	ors (minimum of two required)
Depth (inches): NA emarks: il appears to be a roadside fill and e criterion for hydric soil is not me  **TOROLOGY**  etland Hydrology Indicators: imary Indicators (minimum of one is re  Surface Water (A1)  High Water Table (A2)	et at this	point.  neck all that apply)  Water-Sta  Aquatic F.  True Aqu.	auna (B13)	314)		Secondary Indicat  Surface Soil C	ors (minimum of two required) Fracks (B6) erns (B10) Vater Table (C2)
Depth (inches): NA emarks: il appears to be a roadside fill and e criterion for hydric soil is not me  **TOROLOGY**  etland Hydrology Indicators: imary Indicators (minimum of one is re    Surface Water (A1)   High Water Table (A2)   Saturation (A3)	et at this	point.  neck all that apply)  Water-Sta Aquatic F. True Aqu. Hydroger	auna (B13) atic Plants (B Sulfide Odd	314)	Roots (C3)	Secondary Indicat Surface Soil C Drainage Patt Dry Season W Crayfish Burro	ors (minimum of two required) Fracks (B6) erns (B10) Vater Table (C2)
Depth (inches): NA emarks: I appears to be a roadside fill and e criterion for hydric soil is not me  **TOROLOGY**  etland Hydrology Indicators: imary Indicators (minimum of one is re  Surface Water (A1) I High Water Table (A2) Saturation (A3) Water Marks (B1)	et at this	neck all that apply)  Water-Sta Aquatic F True Aquatic F Hydroger Oxidized	auna (B13) atic Plants (B Sulfide Odd	314) or (C1) s on Living I	Roots (C3)	Secondary Indicat  Surface Soil C  Drainage Patt  Dry Season W  Crayfish Burro  Saturation Vis	ors (minimum of two required) Cracks (B6) erns (B10) Vater Table (C2) ows (C8)
Depth (inches): NA emarks: il appears to be a roadside fill and e criterion for hydric soil is not me  YDROLOGY  etland Hydrology Indicators: imary Indicators (minimum of one is re  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)	et at this	neck all that apply)  Water-Sta Aquatic F True Aqu Hydroger Oxidized Presence	auna (B13) atic Plants (I Sulfide Odo Rhizosphere of Reduced	314) or (C1) s on Living I		Secondary Indicat  Surface Soil C  Drainage Patt  Dry Season W  Crayfish Burro  Saturation Vis	ors (minimum of two required)  bracks (B6) erns (B10)  /ater Table (C2) bws (C8) bible on Aerial Imagery (C9) ressed Plants (D1)
Depth (inches): NA emarks: il appears to be a roadside fill and e criterion for hydric soil is not me  YDROLOGY  etland Hydrology Indicators: rimary Indicators (minimum of one is re    Surface Water (A1)   High Water Table (A2)   Saturation (A3)   Water Marks (B1)   Sediment Deposits (B2)   Drift Deposits (B3)	et at this	neck all that apply)  Water-Sta Aquatic F. True Aqu. Hydroger Oxidized Presence Recent Ir	auna (B13) atic Plants (I Sulfide Odo Rhizosphere of Reduced	B14) or (C1) s on Living I Iron (C4) n in Tilled So		Secondary Indicat Surface Soil C Drainage Patt Dry Season W Crayfish Burro Saturation Vis Stunted or Sti	ors (minimum of two required) Fracks (B6) erns (B10) Vater Table (C2) bws (C8) Gible on Aerial Imagery (C9) ressed Plants (D1) Position (D2)
Depth (inches): NA emarks: I appears to be a roadside fill and e criterion for hydric soil is not me  TDROLOGY  etland Hydrology Indicators: mary Indicators (minimum of one is re  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	et at this	neck all that apply)  Water-Sta Aquatic F. True Aqu. Hydroger Oxidized Presence Recent Ir	auna (B13) atic Plants (I Sulfide Odo Rhizosphere of Reduced on Reduction	B14) or (C1) s on Living I Iron (C4) n in Tilled So		Secondary Indicat  Surface Soil C  Drainage Patt  Dry Season W  Crayfish Burro  Saturation Vis  Stunted or Str  Geomorphic F	ors (minimum of two required) Fracks (B6) erns (B10) Vater Table (C2) bws (C8) Gible on Aerial Imagery (C9) ressed Plants (D1) Position (D2)
Depth (inches): NA emarks: I appears to be a roadside fill and e criterion for hydric soil is not me  TDROLOGY  etland Hydrology Indicators: mary Indicators (minimum of one is re  Surface Water (A1) I High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) I ron Deposits (B5)	et at this equired; ch	point.  neck all that apply)  Water-Sta Aquatic F True Aqu. Hydroger Oxidized Presence Recent Ir Thin Muci	auna (B13) atic Plants (I Sulfide Odd Rhizosphere of Reduced on Reduction & Surface (C	B14) or (C1) s on Living I Iron (C4) n in Tilled So 7)		Secondary Indicat  Surface Soil C  Drainage Patt  Dry Season W  Crayfish Burro  Saturation Vis  Stunted or Str  Geomorphic F	ors (minimum of two required) Fracks (B6) erns (B10) Vater Table (C2) bws (C8) Gible on Aerial Imagery (C9) ressed Plants (D1) Position (D2)
Depth (inches): NA emarks: il appears to be a roadside fill and e criterion for hydric soil is not me  YDROLOGY  etland Hydrology Indicators: imary Indicators (minimum of one is re  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery	et at this equired; ch	point.  neck all that apply)  Water-Sta Aquatic F True Aqu. Hydroger Oxidized Presence Recent Ir Thin Muci	auna (B13) atic Plants (I Sulfide Odc Rhizosphere of Reduced on Reduction	B14) or (C1) s on Living I Iron (C4) n in Tilled So 7)		Secondary Indicat  Surface Soil C  Drainage Patt  Dry Season W  Crayfish Burro  Saturation Vis  Stunted or Str  Geomorphic F	ors (minimum of two required) Fracks (B6) erns (B10) Vater Table (C2) bws (C8) Gible on Aerial Imagery (C9) ressed Plants (D1) Position (D2)
Depth (inches): NA emarks: il appears to be a roadside fill and e criterion for hydric soil is not me properties of the criterion for hydric soil is not me	equired; ch	neck all that apply)  Water-Sta Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Mucl Gauge or Other (Ex	auna (B13) atic Plants (I Sulfide Odo Rhizosphere of Reduced on Reduction c Surface (C Well Data (I plain in Rem	B14) or (C1) s on Living I Iron (C4) n in Tilled So 7)		Secondary Indicat  Surface Soil C  Drainage Patt  Dry Season W  Crayfish Burro  Saturation Vis  Stunted or Str  Geomorphic F	ors (minimum of two required) Fracks (B6) erns (B10) Vater Table (C2) bws (C8) Gible on Aerial Imagery (C9) ressed Plants (D1) Position (D2)
Depth (inches): NA emarks: il appears to be a roadside fill and e criterion for hydric soil is not me e criterion for hydric soil is not me  YDROLOGY  etland Hydrology Indicators: imary Indicators (minimum of one is re    Surface Water (A1)   High Water Table (A2)   Saturation (A3)   Water Marks (B1)   Sediment Deposits (B2)   Drift Deposits (B3)   Algal Mat or Crust (B4)   Iron Deposits (B5)   Inundation Visible on Aerial Imagery   Sparsely Vegetated Concave Surface  eld Observations:  urface Water Present? Yes	equired; ch	neck all that apply)  Water-Sta Aquatic F. True Aqu Hydroger Oxidized Presence Recent Ir Thin Muci Gauge or Other (Ex	auna (B13) atic Plants (I Sulfide Odo Rhizosphere of Reduced on Reduction c Surface (C Well Data (I plain in Rem	B14) or (C1) s on Living I Iron (C4) n in Tilled So 7)		Secondary Indicat  Surface Soil C  Drainage Patt  Dry Season W  Crayfish Burro  Saturation Vis  Stunted or Str  Geomorphic F	ors (minimum of two required) Fracks (B6) erns (B10) Vater Table (C2) bws (C8) Gible on Aerial Imagery (C9) ressed Plants (D1) Position (D2)
Depth (inches): NA emarks: il appears to be a roadside fill and e criterion for hydric soil is not me  YDROLOGY  Tetland Hydrology Indicators: rimary Indicators (minimum of one is re  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery  Sparsely Vegetated Concave Surface  Teld Observations:	equired; ch	neck all that apply)  Water-Sta Aquatic F. True Aqu Hydroger Oxidized Presence Recent Ir Thin Muci Gauge or Other (Ex	auna (B13) atic Plants (I Sulfide Odo Rhizosphere of Reduced on Reduction   Surface (C Well Data (I plain in Rem inches):	B14) or (C1) s on Living I Iron (C4) n in Tilled So 7)	pils (C6)	Secondary Indicat  Surface Soil C  Drainage Patt  Dry Season W  Crayfish Burro  Saturation Vis  Stunted or St  Geomorphic F  FAC-Neutral T	ors (minimum of two required) Fracks (B6) erns (B10) Vater Table (C2) Dws (C8) Sible on Aerial Imagery (C9) ressed Plants (D1) Position (D2) Fest (D5)
Depth (inches): NA emarks: il appears to be a roadside fill and e criterion for hydric soil is not me e criterion for hydric soil is not me  YDROLOGY  etland Hydrology Indicators: imary Indicators (minimum of one is re   Surface Water (A1)   High Water Table (A2)   Saturation (A3)   Water Marks (B1)   Sediment Deposits (B2)   Drift Deposits (B3)   Algal Mat or Crust (B4)   Iron Deposits (B5)   Inundation Visible on Aerial Imagery   Sparsely Vegetated Concave Surface eld Observations: urface Water Present? Yes Output and the present?  ater Table Present? Yes Output and the present?	equired; ch	neck all that apply)  Water-Sta Aquatic F. True Aqu Hydroger Oxidized Presence Recent Ir Thin Mucl Gauge or Other (Ex	auna (B13) atic Plants (I Sulfide Odo Rhizosphere of Reduced on Reduction c Surface (C Well Data (I plain in Rem inches):	B14) or (C1) s on Living I Iron (C4) n in Tilled So 7)	pils (C6)	Secondary Indicat  Surface Soil C  Drainage Patt  Dry Season W  Crayfish Burro  Saturation Vis  Stunted or Str  Geomorphic F	ors (minimum of two required) Fracks (B6) erns (B10) Vater Table (C2) bws (C8) Gible on Aerial Imagery (C9) ressed Plants (D1) Position (D2)
Depth (inches): NA emarks: il appears to be a roadside fill and e criterion for hydric soil is not me properties of the criterion for hydric soil is not me	equired; ch	point.  neck all that apply)  Water-Sta Aquatic F True Aquatic F Oxidized Presence Recent Ir Gauge or Other (Ex	auna (B13) atic Plants (I Sulfide Odo Rhizosphere of Reduced on Reduction c Surface (C Well Data (I plain in Rem inches):	B14) or (C1) s on Living I Iron (C4) n in Tilled So 7) D9) narks)	wetl	Secondary Indicat Surface Soil C Drainage Patt Dry Season W Crayfish Burro Saturation Vis Stunted or St Geomorphic F FAC-Neutral T	ors (minimum of two required) Fracks (B6) erns (B10) Vater Table (C2) Dws (C8) Sible on Aerial Imagery (C9) ressed Plants (D1) Position (D2) Fest (D5)
Depth (inches): NA emarks: I appears to be a roadside fill and e criterion for hydric soil is not me of criterion for hydric soil is no	equired; chequired; ch	point.  neck all that apply)  Water-Sta Aquatic F. True Aqu. Hydroger Oxidized Presence Recent Ir Thin Mucl Gauge or Other (Ex	auna (B13) atic Plants (I Sulfide Odo Rhizosphere of Reduced on Reduction c Surface (C Well Data (I plain in Rem inches): inches): al photos,	B14) or (C1) s on Living I Iron (C4) n in Tilled Sc 7) D9) narks)	wetl	Secondary Indicat Surface Soil C Drainage Patt Dry Season W Crayfish Burro Saturation Vis Stunted or St Geomorphic F FAC-Neutral T	ors (minimum of two required) Fracks (B6) erns (B10) Vater Table (C2) bws (C8) sible on Aerial Imagery (C9) ressed Plants (D1) Position (D2) Fest (D5)
Depth (inches): NA  emarks: I appears to be a roadside fill and a criterion for hydric soil is not me  property of the criterion for hydri	equired; chequired; ch	point.  neck all that apply)  Water-Sta Aquatic F. True Aqu. Hydroger Oxidized Presence Recent Ir Thin Mucl Gauge or Other (Ex	auna (B13) atic Plants (I Sulfide Odo Rhizosphere of Reduced on Reduction c Surface (C Well Data (I plain in Rem inches): inches): al photos,	B14) or (C1) s on Living I Iron (C4) n in Tilled Sc 7) D9) narks)	wetl	Secondary Indicat Surface Soil C Drainage Patt Dry Season W Crayfish Burro Saturation Vis Stunted or St Geomorphic F FAC-Neutral T	ors (minimum of two required) Fracks (B6) erns (B10) Vater Table (C2) bws (C8) sible on Aerial Imagery (C9) ressed Plants (D1) Position (D2) Fest (D5)
Depth (inches): NA emarks: il appears to be a roadside fill and e criterion for hydric soil is not me e criterion for hydric soil is not me  fDROLOGY  etland Hydrology Indicators: imary Indicators (minimum of one is re   Surface Water (A1)   High Water Table (A2)   Saturation (A3)   Water Marks (B1)   Sediment Deposits (B2)   Drift Deposits (B3)   Algal Mat or Crust (B4)   Iron Deposits (B5)   Inundation Visible on Aerial Imagery   Sparsely Vegetated Concave Surface  eld Observations: urface Water Present? Yes Output attention Present?	equired; chequired; ch	point.    Mater-State   Aquatic F.   True Aquatic F.   Hydroger   Oxidized   Presence   Recent Ir   Thin Muci   Gauge or   Other (Exter   Depth (Depth (Depth (Depth (Exter   Soils map, Topograms))	auna (B13) atic Plants (I Sulfide Odo Rhizosphere of Reduced on Reduction c Surface (C Well Data (I plain in Rem inches): inches): al photos, graphic ma	previous in pr. Aerial p	wetl	Secondary Indicat Surface Soil C Drainage Patt Dry Season W Crayfish Burro Saturation Vis Stunted or St Geomorphic F FAC-Neutral T	ors (minimum of two required) Fracks (B6) erns (B10) Vater Table (C2) bws (C8) sible on Aerial Imagery (C9) ressed Plants (D1) Position (D2) Fest (D5)

Project/Site: IH 94 (N-S Freeway)		Cit	ty/County:	Milwaukee C	ounty	Sampling Date:	19-Aug-14
Applicant/Owner: Wisconsin Departmen	t of Transportation			State:	WI S	Sampling Point:	SP-40
Investigator(s): Ron Londre, Geof Parish	า		Section, Towr	nship, Range:	s 19 T 5	5N R 22E	
Landform (hillslope, terrace, etc.): Toes	lope/ditch			Local relief (c	oncave, convex, non	e): concave	
Slope: 2.0% 1.1 • Lat.:			Long.:			Datum:	
Soil Map Unit Name: Morley silt loan	n (MzdC2) Not bydric				WWI clas	ssification: None	
Are climatic/hydrologic conditions on the		aar? Yes (	● No ○	(If no. ex	plain in Remarks.)	_None	
Are Vegetation , Soil		gnificantly dis			ormal Circumstances"	nresent? Yes	No O
	. , , , ,	9				present.	
Are Vegetation, Soil	, or Hydrology 🔲 n	aturally proble	ematic?	(If need	ded, explain any ansv	wers in Remarks.)	
<b>SUMMARY OF FINDINGS - A</b>	ttach site map show	wing sam <sub>l</sub>	pling poir	nt location	ns, transects, i	important features	, etc.
Hydrophytic Vegetation Present?	Yes ● No ○						
Hydric Soil Present?	Yes ● No ○			e Sampled A n a Wetland			
Wetland Hydrology Present?	Yes ● No ○		With	ii a wedaiid	" Yes ♥ No		
Remarks:							
This point is located in a roadside	ditch.						
All three parameters have been m	et at this point. Thus, thi	s point is lo	cated in a w	etland.			
VECETATION	mtific mannes of mlan						
<b>VEGETATION -</b> Use scie	entific names of plar		Dominant - Species?				
Tree Stratum (Plot size: 15' x 190'	)	Absolute % Cover	Rel.Strat. Cover	Indicator Status	Dominance Test	worksheet:	
1. Fraxinus pennsylvanica		3	<b>✓</b> 100.0%	FACW	<ul> <li>Number of Domina That are OBL, FAC</li> </ul>		3 (A)
2			0.0%		mat are obl, into		(1)
3.		0	0.0%		Total Number of D Species Across All		3 (B)
4.		0	0.0%		•	_	(=)
5		0	0.0%		Percent of doming That Are OBL, F.		0.0% (A/B)
0 11 (0) 1 0 1 1 (0) 1		3	= Total Cove	er	That Are obe, 1.	ACW, 01 1 AC	
Sapling/Shrub Stratum (Plot size: 15	)	0			Prevalence Index		
1		0 0	0.0%		Total % Co OBL species	1 2	
3.		0	0.0%		FACW species	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	132
4.		0	0.0%		FAC species	5 x 3 =	15
5.		0	0.0%		FACU species	20 x 4 =	80
Herb Stratum (Plot size: 5' r	)	0	= Total Cove	er	UPL species	0 x 5 =	0
1. Agrostis gigantea		50	<b>✓</b> 42.4%	FACW	Column Totals:	121 (A)	257 (B)
2. Typha angustifolia		30	25.4%	OBL	Dravalanaa		124
3. Festuca rubra		10	8.5%	FACU			.124
4. Solidago canadensis		10	8.5%	FACU		etation Indicators:	- <b>4</b> !
5. Symphyotrichum novae-angliae		8	6.8%	FACW	l ·	t for Hydrophytic Veget e Test is > 50%	ation
6. Euthamia graminifolia		5	4.2%	FACW	✓ 2 - Dominano		
7. Poa pratensis			4.2%	FAC		e Index is ≥3.0 gical Adaptations ¹ (Pro	vide supporting
9.			0.0%		data in Rema	rks or on a separate she	eet)
10.		0_	0.0%		☐ Problematic I	Hydrophytic Vegetation	<sup>1</sup> (Explain)
		118				ydric soil and wetland h	
Woody Vine Stratum (Plot size: 15'	x 190' )	110	- rotal COVE	υI		ss disturbed or problem	
1			0.0%		Uydyonby±!-		
2			0.0%		Hydrophytic Vegetation	w (a)	
			= Total Cove	er	Present?	Yes • No	
B 1 // 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
Remarks: (Include photo numbers	•	neet.)					
This point is located in a wet mean The criterion for hydrophytic vege							
2 22 injuroprijato vogo							

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

6-12 10YR 4/2 80 7.5YR 4/6 20 C M Sand 12-20 10YR 5/4 95 Sand 10YR 6/3 50  Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Redox Dark Surface (A12)	y Clay Loam  M=Matrix.  dicators for Problematic Hydric Soils <sup>3</sup> :  Coast Prairie Redox (A16) Dark Surface (S7) Iron Manganese Masses (F12) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Sand	y Clay Loam  M=Matrix.  dicators for Problematic Hydric Soils <sup>3</sup> :  Coast Prairie Redox (A16)  Dark Surface (S7)  Iron Manganese Masses (F12)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
10YR   5/4   95   Sandy   Second   Sandy Gleyed Matrix   CS   Sandy Gleye	on: PL=Pore Lining. M=Matrix.  dicators for Problematic Hydric Soils <sup>3</sup> :  Coast Prairie Redox (A16)  Dark Surface (S7)  Iron Manganese Masses (F12)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
pe: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  ### dric Soil Indicators:    Histosoil (A1)	dicators for Problematic Hydric Soils <sup>3</sup> :  Coast Prairie Redox (A16)  Dark Surface (S7)  Iron Manganese Masses (F12)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
per C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.    Post	dicators for Problematic Hydric Soils <sup>3</sup> :  Coast Prairie Redox (A16)  Dark Surface (S7)  Iron Manganese Masses (F12)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
ydric Soil Indicators:    Histosol (A1)	dicators for Problematic Hydric Soils <sup>3</sup> :  Coast Prairie Redox (A16)  Dark Surface (S7)  Iron Manganese Masses (F12)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Histosol (A1)	dicators for Problematic Hydric Soils <sup>3</sup> :  Coast Prairie Redox (A16)  Dark Surface (S7)  Iron Manganese Masses (F12)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Histosol (A1) Sandy Gleyed Matrix (S4) Histic Epipedon (A2) Sandy Redox (S5) Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Stratified Layers (A5) Loamy Mucky Mineral (F1) Stratified Layers (A5) Loamy Gleyed Matrix (F2)  2 cm Muck (A10) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Muck Mineral (S1) Redox Depressions (F8)  strictive Layer (if observed): Type: None Depth (inches): NA  Pemarks: I appears to be a roadside fill and thus disturbed. I appears to be a roadside fill a	Coast Prairie Redox (A16)  Dark Surface (S7)  Iron Manganese Masses (F12)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Histic Epipedon (A2)	Dark Surface (S7) Iron Manganese Masses (F12) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
S cm Mucky Peat or Peat (S3)   Strictive Layer (if observed):   Type: None	unless disturbed or problematic.
Type: None Depth (inches): NA  emarks:  il appears to be a roadside fill and thus disturbed. e criterion for hydric soil is met at this point.  YDROLOGY  etland Hydrology Indicators: imary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  High Water Table (A2)  Aquatic Fauna (B13)  Saturation (A3)  Water Marks (B1)  Hydrogen Sulfide Odor (C1)  Sediment Deposits (B2)  Drift Deposits (B3)  Presence of Reduced Iron (C4)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Thin Muck Surface (C7)  Inundation Visible on Aerial Imagery (B7)  Hydrogen Sulfide Codor (C1)  Recent Iron Reduction in Tilled Soils (C6)  Thin Muck Surface (C7)  Inundation Visible on Aerial Imagery (B7)	
rimary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Aquatic Fauna (B13)  True Aquatic Plants (B14)  Water Marks (B1)  Hydrogen Sulfide Odor (C1)  Sediment Deposits (B2)  Oxidized Rhizospheres on Living Roots (C3)  Drift Deposits (B3)  Presence of Reduced Iron (C4)  Algal Mat or Crust (B4)  Recent Iron Reduction in Tilled Soils (C6)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Gauge or Well Data (D9)	
Surface Water (A1)  High Water Table (A2)  Aquatic Fauna (B13)  True Aquatic Plants (B14)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)  True Aquatic Plants (B14)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres on Living Roots (C3)  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Thin Muck Surface (C7)  Gauge or Well Data (D9)	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)
ield Observations:  urface Water Present? Yes ○ No ○ Depth (inches):  Vater Table Present? Yes ○ No ○ Depth (inches):  aturation Present?  ncludes capillary fringe)  vescribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if arrevious delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos	

Landform (hillslope, terrace, etc.): Toeslope/ditch  Slope: 0.0% 0.0 ° Lat: Long  Soil Map Unit Name: Blount silt loam (BIA), Not hydric  Are climatic/hydrologic conditions on the site typical for this time of year? Yes ● No ○  Are Vegetation	WWI classification: None  (If no, explain in Remarks.)  Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.)
Investigator(s): Ron Londre, Geof Parish  Landform (hillslope, terrace, etc.): Toeslope/ditch  Slope: 0.0% 0.0 ° Lat.: Long  Soil Map Unit Name: Blount silt loam (BIA). Not hydric  Are climatic/hydrologic conditions on the site typical for this time of year? Yes • No • Are Vegetation	Township, Range: S 19 T 5N R 22E  Local relief (concave, convex, none): concave  ng.: Datum:  WWI classification: None  (If no, explain in Remarks.)  Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.)  point locations, transects, important features, etc.  Is the Sampled Area
Landform (hillslope, terrace, etc.): Toeslope/ditch    Slope	Local relief (concave, convex, none): concave  Datum:  WWI classification: None  (If no, explain in Remarks.)  Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.)  point locations, transects, important features, etc.  Is the Sampled Area
Slope: 0.0% 0.0 ° Lat.: Long Solil Map Unit Name: Blount silt loam (BIA). Not hydric  Are climatic/hydrologic conditions on the site typical for this time of year? Yes • No  Are Vegetation	WWI classification: None  (If no, explain in Remarks.)  Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.)  point locations, transects, important features, etc.  Is the Sampled Area
Soil Map Unit Name: Blount silt Ioam (BIA), Not hydric  Are climatic/hydrologic conditions on the site typical for this time of year? Yes No Notare Vegetation Soil Not Notario Notare Vegetation Present? Yes Notare N	WWI classification: None  (If no, explain in Remarks.)  Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.)  point locations, transects, important features, etc.  Is the Sampled Area
Are climatic/hydrologic conditions on the site typical for this time of year? Yes No Are Vegetation	(If no, explain in Remarks.)  Are "Normal Circumstances" present?  (If needed, explain any answers in Remarks.)  point locations, transects, important features, etc.  Is the Sampled Area
Are Vegetation	Are "Normal Circumstances" present?  (If needed, explain any answers in Remarks.)  point locations, transects, important features, etc.  Is the Sampled Area
Are Vegetation	(If needed, explain any answers in Remarks.)  point locations, transects, important features, etc.  Is the Sampled Area
SUMMARY OF FINDINGS - Attach site map showing sampling properties.  Hydrophytic Vegetation Present? Yes No No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No No No Wetland Hydrology Present? Yes No	point locations, transects, important features, etc.  Is the Sampled Area
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area
Hydric Soil Present?  Wetland Hydrology Present?  Remarks: This point is located in a roadside ditch. Two of three parameters have not been met at this point. Thus, this point is located in a roadside ditch.  Two of three parameters have not been met at this point. Thus, this point is located in a roadside ditch.  Two of three parameters have not been met at this point. Thus, this point is located in a roadside ditch.  Two of three parameters have not been met at this point. Thus, this point is located in a roadside ditch.  Two of three parameters have not been met at this point. Thus, this point is located in a roadside ditch.  Two of three parameters have not been met at this point. Thus, this point is located in a roadside ditch.  Two of three parameters have not been met at this point. Thus, this point is located in a roadside ditch.  Thus, this point is located in a roadside ditch.  Thus, this point is located in a roadside ditch.  Thus, this point is located in a roadside ditch.  Thus, this point is located in a roadside ditch.  Thus, this point is located in a roadside ditch.  Thus, this point is located in a roadside ditch.  Thus, this point is located in a roadside ditch.  Thus, this point is located in a roadside ditch.  Thus, this point is located in a roadside ditch.  Thus, this point is located in a roadside ditch.  Thus, this point is located in a roadside ditch.  Thus, this point is located in a roadside ditch.  Thus, this point is located in a roadside ditch.  Thus, this point is located in a roadside ditch.  Thus, this point is located in a roadside ditch.  Thus, this point is located in a roadside ditch.  Thus, this point is located in a roadside ditch.  Thus, this point is located in a roadside ditch.  Thus, this point is located in a roadside i	
Wetland Hydrology Present?  Wetland Hydrology Present?  Remarks: This point is located in a roadside ditch. Two of three parameters have not been met at this point. Thus, this point is loc  VEGETATION - Use scientific names of plants.  Domina Specie Rel.Str.  Cover 1.  2.  3.  4.  5.  Sapling/Shrub Stratum (Plot size: 15' x 190' )  1. Ulmus americana  2.  3.  4.  5.  Sapling/Shrub Stratum (Plot size: 15' x 50' )  1. Ulmus americana  2.  3.  4.  5.  Sapling/Shrub Stratum (Plot size: 15' x 50' )  1. Solidago canadensis  4.  5.  Herb Stratum (Plot size: 5' r )  1. Solidago canadensis  4.  Sapling/Shrub Stratum (Plot size: 5' r )  1. Solidago canadensis  4.  Sapling/Shrub Stratum (Plot size: 5' r )  1. Solidago canadensis  4.  Sapling/Shrub Stratum (Plot size: 5' r )  1. Solidago canadensis  4.  Sapling/Shrub Stratum (Plot size: 5' r )  1. Solidago canadensis  4.  Sapling/Shrub Stratum (Plot size: 5' r )  1. Solidago canadensis  4.  Sapling/Shrub Stratum (Plot size: 5' r )  1. Solidago canadensis  4.  Sapling/Shrub Stratum (Plot size: 5' r )  1. Solidago canadensis  4.  Sapling/Shrub Stratum (Plot size: 5' r )  1. Solidago canadensis  4.  Sapling/Shrub Stratum (Plot size: 5' r )  1. Solidago canadensis  4.  Sapling/Shrub Stratum (Plot size: 5' r )  1. Solidago canadensis  4.  Sapling/Shrub Stratum (Plot size: 5' r )  1. Solidago canadensis  4.  Sapling/Shrub Stratum (Plot size: 5' r )  1. Solidago canadensis  4.  Sapling/Shrub Stratum (Plot size: 5' r )  1. Solidago canadensis  4.  Sapling/Shrub Stratum (Plot size: 5' r )  1. Solidago canadensis  4.  Sapling/Shrub Stratum (Plot size: 5' r )  1. Solidago canadensis  4.  Sapling/Shrub Stratum (Plot size: 5' r )  1. Solidago canadensis  4.  Sapling/Shrub Stratum (Plot size: 5' r )  1. Solidago canadensis  4.  Sapling/Shrub Stratum (Plot size: 5' r )  1. Solidago canadensis  4.  Sapling/Shrub Stratum (Plot size: 5' r )  1. Solidago canadensis  4.  Sapling/Shrub Stratum (Plot size: 5' r )  1. Solidago canadensis  4.  Sapling/Shrub Stratum (Plot size: 5' r )  1. Solidago	
Remarks: This point is located in a roadside ditch. Two of three parameters have not been met at this point. Thus, this point is loc  VEGETATION - Use scientific names of plants.    Tree Stratum (Plot size: 15' x 190' )	Within a Wetianur Yes U No U
Remarks:         This point is located in a roadside ditch.         Two of three parameters have not been met at this point. Thus, this point is located in a roadside ditch.         Two of three parameters have not been met at this point. Thus, this point is located in the parameters have not been met at this point. Thus, this point is located in the parameters have not been met at this point. Thus, this point is located in the parameters have not been met at this point. Thus, this point is located in the parameters have not been met at this point. Thus, this point is located in the parameters have not been met at this point. Thus, this point is located in the parameters have not been met at this point. Thus, this point is located the parameters have not been met at this point. Thus, this point is located the parameters have not been met at this point. Thus, this point is located the parameters have not	
This point is located in a roadside ditch.           Two of three parameters have not been met at this point. Thus, this point is located in the parameters have not been met at this point. Thus, this point is located in the parameters have not been met at this point. Thus, this point is located in the parameters have not been met at this point. Thus, this point is located in the parameters have not been met at this point. Thus, this point is located in the parameters have not been met at this point. Thus, this point is located in the parameters have not been met at this point. Thus, this point is located in the parameters have not been met at this point. Thus, this point is located in the parameters have not been met at this point. Thus, this point is located in the parameters have not been met at this point. Thus, this point is located in the parameters have not been met at this point. Thus, this point is located the parameters have not been met at this point. Thus, this point is located have not been met at this point. Thus, this point is located have not been met at this point. Thus, this point is located have not been met at this point. Thus, this point is located have not been met at this point. Thus, this point is located have not been met at this point. Thus, this point is located have not been met at this point. Thus, this point is located have not been met at this point. Thus, this point is located have not been met at this point. Thus, this point is located have not been met at this point. Thus, this point is located have not been met at this point. Thus, this point is located have not been met at this point. Thus, this point is located have not been met at this point. Thus, this point is located have not been met at this point. Thus, this point is located have not been met at this point. Thus, this point is located have not been met at this point. Thus, this point is located have not been met at this point. Thus, this point is	
Tree Stratum (Plot size: 15' x 190')       % Cover Cover         1.       0       0.05         2.       0       0.05         3.       0       0.05         4.       0       0.05         5.       0       0.05         Sapling/Shrub Stratum (Plot size: 15' x 50')       3         1. Ulmus americana       5       100.0         2.       0.05         3.       0       0.05         4.       0       0.05         5.       0       0.05         6.       Symphyotrichum lateriflorum       10       6.55         7.       Cornus racemosa       5       3.36	nant
2.       0       0.09         3.       0       0.09         4.       0       0.09         5.       0       0.09         0       = Total G         Sapling/Shrub Stratum (Plot size: 15' x 50')       1. Ulmus americana       5       100.0         2.       0.09         3.       0       0.09         4.       0       0.09         5.       0       0.09         5.       0       0.09         6.       1       0.09       0.09         1       2       0.09       0.09       0.09       0.09         3.       0       0.09	yer Status
2.       0       0.05         3.       0       0.05         4.       0       0.05         5.       0       0.05         0       = Total G         Sapling/Shrub Stratum (Plot size: 15' x 50')       0         1. Ulmus americana       5       100.0         2.       0.05         3.       0       0.05         4.       0       0.05         5.       0       0.05         5.       = Total G         4.       0       0.05         5.       = Total G         9.00       0.05         10       0.05         20       0.05         3.       40       26.1         4.       5       26.1         3.       2       26.1         3.       2       2       2         4.       5       3       19.6         4.       5       3       19.6         4.       5       3       10       6.59         5.       5       3.33       5       3.33         6.       5       3       3.33       3       3.33 <td>Number of Dominant Species  O'M That are OBL, FACW, or FAC: 2 (A)</td>	Number of Dominant Species  O'M That are OBL, FACW, or FAC: 2 (A)
4.	
5.       0       □       0.09         0       = Total O         Sapling/Shrub Stratum (Plot size: 15' x 50')       1         1. Ulmus americana       5       ✓ 100.0         2.       □       0.09         3.       0       □       0.09         5.       0       □       0.09         5.       0       □       0.09         5.       = Total O       □       0.09         6.       Symphyotrichum (Plot size: 5' r       )       1       0.09         5.       = Total O       □       0.09       □       0.09         6.       Symphyotrichum (Plot size: 5' r       )       1       0.09       □       0.0	Total Number of Dominant Species Across All Strata: 3 (B)
Sapling/Shrub Stratum (Plot size: 15' x 50')         1. Ulmus americana       5	
Sapling/Shrub Stratum (Plot size: 15' x 50')       1. Ulmus americana       5       ✓ 100.0         2.       0.09         3.       0       0.09         4.       0       0.09         5.       0       0.09         Herb Stratum (Plot size: 5' r       )       5       = Total C         1. Solidago canadensis       40       ✓ 26.1         2. Poa pratensis       40       ✓ 26.1         3. Daucus carota       30       19.6         4. Symphyotrichum lateriflorum       10       6.59         5. Symphyotrichum novae-angliae       10       6.59         6. Symphyotrichum cordifolium       8       5.29         7. Cornus racemosa       5       3.33	Percent of dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)
1. Ulmus americana       5       ✓ 100.0         2.       0.05         3.       0       0.05         4.       0       0.05         5.       0       0.05         Herb Stratum (Plot size: 5' r       )       5       = Total C         1. Solidago canadensis       40       ✓ 26.1         2. Poa pratensis       40       ✓ 26.1         3. Daucus carota       30       19.6         4. Symphyotrichum lateriflorum       10       6.59         5. Symphyotrichum novae-angliae       10       6.59         6. Symphyotrichum cordifolium       8       5.26         7. Cornus racemosa       5       3.33	
2.       □ 0.09         3.       0 □ 0.09         4.       0 □ 0.09         5.       0 □ 0.09         Herb Stratum (Plot size: 5' r )       5 = Total C         1. Solidago canadensis       40 🗷 26.1         2. Poa pratensis       40 📝 26.1         3. Daucus carota       30 □ 19.6         4. Symphyotrichum lateriflorum       10 □ 6.59         5. Symphyotrichum novae-angliae       10 □ 6.59         6. Symphyotrichum cordifolium       8 □ 5.29         7. Cornus racemosa       5 □ 3.39	Prevalence Index worksheet:
3. 0 □ 0.09 4. 0 □ 0.09 5. 0 □ 0.09 Herb Stratum (Plot size: 5' r ) 5 = Total 0  1. Solidago canadensis 40 ✓ 26.1  2. Poa pratensis 40 ✓ 26.1  3. Daucus carota 30 □ 19.6  4. Symphyotrichum lateriflorum 10 □ 6.59  5. Symphyotrichum novae-angliae 10 □ 6.59  6. Symphyotrichum cordifolium 8 □ 5.29  7. Cornus racemosa 5 □ 3.39	D.0% FACW Total % Cover of: Multiply by:
4. 0 □ 0.09 5. 0 □ 0.09 Herb Stratum (Plot size: 5' r ) 5 = Total 0  1. Solidago canadensis 40 ✓ 26.1  2. Poa pratensis 40 ✓ 26.1  3. Daucus carota 30 □ 19.6  4. Symphyotrichum lateriflorum 10 □ 6.59  5. Symphyotrichum novae-angliae 10 □ 6.59  6. Symphyotrichum cordifolium 8 □ 5.29  7. Cornus racemosa 5 □ 3.39	
5.       0       □       0.09         Herb Stratum (Plot size: 5' r       )       5       = Total O         1. Solidago canadensis       40       ✓ 26.1         2. Poa pratensis       40       ✓ 26.1         3. Daucus carota       30       □       19.6         4. Symphyotrichum lateriflorum       10       □       6.59         5. Symphyotrichum novae-angliae       10       □       6.59         6. Symphyotrichum cordifolium       8       □       5.29         7. Cornus racemosa       5       □       3.39	
Herb Stratum (Plot size: 5' r ) 5 = Total C  1. Solidago canadensis 40	
1. Solidago canadensis       40       ✓ 26.1         2. Poa pratensis       40       ✓ 26.1         3. Daucus carota       30       19.6         4. Symphyotrichum lateriflorum       10       6.59         5. Symphyotrichum novae-angliae       10       6.59         6. Symphyotrichum cordifolium       8       5.26         7. Cornus racemosa       5       3.39	17.00 species 00 X 1 200
2. Poa pratensis       40          ✓ 26.1          3. Daucus carota       30          ☐ 19.6          4. Symphyotrichum lateriflorum       10          ☐ 6.59          5. Symphyotrichum novae-angliae       10          ☐ 6.59          6. Symphyotrichum cordifolium       8          ☐ 5.29          7. Cornus racemosa       5          ☐ 3.39	
3. Daucus carota3019.64. Symphyotrichum lateriflorum106.595. Symphyotrichum novae-angliae106.596. Symphyotrichum cordifolium85.297. Cornus racemosa53.39	0.1% FACU Column Totals: 158 (A) 575 (B)
4. Symphyotrichum lateriflorum106.595. Symphyotrichum novae-angliae106.596. Symphyotrichum cordifolium85.297. Cornus racemosa53.39	$\frac{\text{A.1\%}}{\text{Prevalence Index}} = \text{B/A} = 3.639$
5. Symphyotrichum novae-angliae106.596. Symphyotrichum cordifolium85.297. Cornus racemosa53.39	Hydrophytic Vegetation Indicators:
6. Symphyotrichum cordifolium 8 5.29 7. Cornus racemosa 5 3.39	50/ EACW/
7. Cornus racemosa 5 3.39	1 - Rapid Test for Hydrophytic Vegetation
' · cornus racemosa 5 🔲 3.39	1 - Rapid Test for Hydrophytic Vegetation  FACW  2 - Dominance Test is > 50%
<b>A</b> D	1 - Rapid Test for Hydrophytic Vegetation  PACW 2%  1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is > 50%  3 - Prevalence Index is < 3.0 1
	1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is > 50%  3 - Prevalence Index is ≤3.0 ¹  4 - Morphological Adoptations ¹ (Provide supporting)
10	1 - Rapid Test for Hydrophytic Vegetation  2% UPL 3% FACU FAC  A - Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet)
153 - Total (	1 - Rapid Test for Hydrophytic Vegetation    V   2 - Dominance Test is > 50%
Woody Vine Stratum (Plot size: 15' x 190')	1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is > 50%  3 - Prevalence Index is ≤ 3.0 ¹  4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)  FACU  Problematic Hydrophytic Vegetation ¹ (Explain)  1 Indicators of hydric soil and wetland hydrology must
1. 0 0.09	1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is > 50%  3 - Prevalence Index is ≤3.0 ¹  4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)  FACU  Problematic Hydrophytic Vegetation ¹ (Explain)
2. 0 0.09	1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is > 50%  3 - Prevalence Index is ≤ 3.0 ¹  4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation ¹ (Explain)  1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<u> </u>	1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is > 50%  2 - Dominance Test is > 50%  3 - Prevalence Index is ≤ 3.0 ¹  4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation ¹ (Explain)  1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Hydrophytic
	1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is > 50%  3 - Prevalence Index is ≤ 3.0 ¹  4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation ¹ (Explain)  1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Hydrophytic Vegetation

Depth	ription: (De	Scribe to 1	tne aeptn n	eeaea to ac		tne inai ox Feati		ntirm the	absence of indicators.)	
(inches)	Color (ı		%	Color (m		%	Type	Loc2	Texture	Remarks
0-8	10YR	3/2	100						Silty Clay Loam	
8-20	10YR	5/3	50	10YR	6/1	40	D	М	Silty Clay Loam	
				7.5YR	5/6	20	С	M		
me: C-Con	centration, D	.—————————————————————————————————————	PM-Peduc	ad Matrix CS	S-Covere	d or Coat	ed Sand Gra	ine	Location: PL=Pore Lining. M=	-Matrix
	Indicators:	- Depletioi	i, Kivi–Keduc	eu watrix, es	J=COVERE	a or coat	eu Sanu Ore	11113.		
Histosol (				Sand	y Gleyed	Matrix (S	4)		Indicators for Problem	•
. `	pedon (A2)				y Redox (		,		Coast Prairie Redox (A	A16)
Black Hist	tic (A3)				ped Matrix				☐ Dark Surface (S7)	
Hydrogen	Sulfide (A4)			Loam	ny Mucky	Mineral (I	F1)		☐ Iron Manganese Mass	
Stratified	Layers (A5)				ny Gleyed	,			Very Shallow Dark Sui	face (TF12)
2 cm Muc	ck (A10)				eted Matri		,		Other (Explain in Rem	arks)
Depleted	Below Dark S	Surface (A1	1)	Redo	x Dark Su	ırface (F6	)			
Thick Dar	k Surface (A	12)		Deple	eted Dark	Surface	, (F7)		<sup>3</sup> Indicators of hydrophyt	ic vegetation and
J Sandy Mu	uck Mineral (S	51)			x Depress				wetland hydrology n	nust be present,
	cky Peat or Pe					, ,			unless disturbed or	problematic.
	ayer (if obs	erved):								
Type: N									Hydric Soil Present?	Yes O No •
Depth (inc	hes): NA								Tryunc 3011 Fresent:	res Unio U
YDROLO	OGY Irology Indi	icators:								
imary Indica	ators (minimu	um of one is	s required; cl	neck all that a	apply)				Secondary Indicator	s (minimum of two required)
Surface V	Vater (A1)			☐ Wa	iter-Staine	ed Leaves	(B9)		Surface Soil Cra	cks (B6)
High Wat	er Table (A2)	)		☐ Aqı	uatic Faur	na (B13)			☐ Drainage Patter	ns (B10)
Saturation	n (A3)				ue Aquatic				Dry Season Wat	er Table (C2)
Water Ma	irks (B1)			∐ Нус	drogen Su	ılfide Odc	or (C1)		Crayfish Burrow	s (C8)
Sediment	Deposits (B2	2)		☐ Oxi	idized Rhi	zosphere	s on Living f	Roots (C3)	Saturation Visib	le on Aerial Imagery (C9)
Drift Depo				☐ Pre	esence of	Reduced	Iron (C4)		Stunted or Stres	, ,
	or Crust (B4)	)		☐ Red	cent Iron	Reduction	n in Tilled So	oils (C6)	Geomorphic Pos	
☐ Iron Depo	, ,			☐ Thi	in Muck Si	urface (C	7)		FAC-Neutral Tes	st (D5)
_	n Visible on A			☐ Gai	uge or We	ell Data (l	09)			
J Sparsely ¹	Vegetated Co	oncave Surf	ace (B8)	Oth	ner (Expla	in in Rem	narks)			
eld Observ		Yes	O No G	) _	Nonth (incl	200):				
urface Water				9	epth (inch	_		-		
ater Table P		Yes		_	epth (incl	nes):		_	land Hydrology Present?	Yes O No •
aturation Pre ncludes capil		Yes (	O No 🖲	) D	epth (incl	nes):		_   wet	iana nyarology Fresent?	1 <b>3</b>
		(stream	gauge, moi	nitoring wel	II, aerial	photos.	previous i	nspection	s), if available:	
	ineation, DN			_					,	
marks:	, 3.		1		1 3- 9	,	,			
	WETS analy	rsis anter	edent preci	nitation wa	ıs within	a norma	al range			
	wers analy for hydrold				I WILLING CI	a HUIIIli	arrange.			

Project/Site: IH 94 (N-S Freeway)	City/County:	Milwaukee C	County Sampling Date: 19-Aug-14
Applicant/Owner: Wisconsin Department of Transportation		State:	WI Sampling Point: SP-42
Investigator(s): Ron Londre, Geof Parish	Section, Tc	ownship, Range:	: S 19 T <u>5N</u> R <u>22E</u>
Landform (hillslope, terrace, etc.): Toeslope/ditch		Local relief (d	concave, convex, none): concave
Slope: 1.0% 0.6 • Lat.:	Long.:	<del>-</del> :	
Soil Map Unit Name: Blount silt loam (BIA), Not hydr			WWI classification: None
Are climatic/hydrologic conditions on the site typical for this		(If no, e)	xplain in Remarks.)
Are Vegetation	significantly disturbed?	•	ormal Circumstances" present? Yes ● No ○
			ormal or our instances process.
Are Vegetation	naturally problematic?		eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site ma	p showing sampling po	oint locatio	ons, transects, important features, etc.
	0		
Hydric Soil Present? Yes   No	wit	the Sampled A thin a Wetland	
Wetland Hydrology Present? Yes   No			
Remarks: This point is located in a roadside ditch. All three parameters have been met at this point.  VEGETATION - Use scientific names	of plants. <b>Domina</b>	nnt	
101 2051	Absolute Rel.Stra	at. Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 10' x 285' )	% Cover Cover		Number of Dominant Species
1	0 0.0%		That are OBL, FACW, or FAC:  4 (A)
3.	0 0.0%		Total Number of Dominant
4.	0 0.0%		Species Across All Strata: 4 (B)
5.	0 0.0%		Percent of dominant Species
	0 = Total C	Cover	That Are OBL, FACW, or FAC: 100.0% (A/B)
Sapling/Shrub Stratum (Plot size: 10' x 150' )			Prevalence Index worksheet:
1. Cornus racemosa	5 62.59	% FAC	Total % Cover of: Multiply by:
2. Ulmus americana	3 37.59	% FACW	OBL species <u>53</u> x 1 = <u>53</u>
3	0 0.0%		FACW species 98 x 2 = 196
4. 5.	0 0.0%		FAC species 5 x 3 = 15
	0 U 0.0%		FACU species $0 \times 4 = 0$
Herb Stratum (Plot size: 5' r	8 = Total C	,over	UPL species 3 x 5 = 15
1. Phalaris arundinacea	80 2 53.09	% FACW	Column Totals: 159 (A) 279 (B)
2. Typha angustifolia	40 26.59		Prevalence Index = B/A = 1.755
3. Symphyotrichum novae-angliae	15 9.9%		Hydrophytic Vegetation Indicators:
4. Carex stipata	8 5.3%		1 - Rapid Test for Hydrophytic Vegetation
<ul><li>5. Lycopus americanus</li><li>6. Daucus carota</li></ul>	5 4 3.3%		✓ 2 - Dominance Test is > 50%
	3 <u>2.0%</u> 0 0.0%		<b>✓</b> 3 - Prevalence Index is ≤3.0 <sup>1</sup>
7.	0 .0.0		4 - Morphological Adaptations 1 (Provide supporting
8.	0 0.0%		
8. 9.			data in Remarks or on a separate sheet)
8.		%	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
8. 9. 10.	0 0.0%	%	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must
8. 9. 10.  Woody Vine Stratum (Plot size: 10' x 285' )	0 0.0% 0 0.0% 151 = Total C	% % Cover	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
8. 9. 10.  Woody Vine Stratum (Plot size: 10' x 285' ) 1.	$ \begin{array}{ccc} 0 & \square & 0.0\% \\ 0 & \square & 0.0\% \\ \hline 151 & = Total C \\ 0 & \square & 0.0\% \end{array} $	%	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Hydrophytic
8. 9. 10.  Woody Vine Stratum (Plot size: 10' x 285' )	0 0.0% 0 0.0% 151 = Total C	% Cover % %	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

rofile Description: (Describe to the de Depth Matrix	pui needed to t	Redox Fe		iiiiiiii tiie	absence of indicators.)	
(inches) Color (moist) %	Color (r			Loc2	Texture	Remarks
0-3 10YR 2/2 10	)				Silty Clay Loam	
3-8 10YR 3/2 95	7.5YR	4/6 5	c C	М	Silty Clay Loam	
8-20 10YR 5/3 50	10YR	6/1 40	0 D	М	Silty Clay Loam	
	7.5YR	5/6 10	0 C	М		
/pe: C=Concentration, D=Depletion, RM=	Reduced Matrix, (	CS=Covered or C	oated Sand Gra	ins.	PL=Pore Lining. M=	
ydric Soil Indicators:  Histosol (A1)	☐ San	ndy Gleyed Matrix	(\$4)		Indicators for Problem	atic Hydric Soils 3:
Histic Epipedon (A2)		ndy Redox (S5)	. (54)		Coast Prairie Redox (A	416)
Black Histic (A3)		pped Matrix (S6)			☐ Dark Surface (S7)	(=)
Hydrogen Sulfide (A4)	Loa	my Mucky Minera	al (F1)		☐ Iron Manganese Mass	
Stratified Layers (A5)	Loa	my Gleyed Matrix	x (F2)		Very Shallow Dark Sui	
2 cm Muck (A10)  Depleted Below Dark Surface (A11)		oleted Matrix (F3)			Other (Explain in Rem	narks)
Thick Dark Surface (A11)		dox Dark Surface	• •			
Sandy Muck Mineral (S1)		oleted Dark Surfa			3 Indicators of hydrophyt	
5 cm Mucky Peat or Peat (S3)	☐ Red	dox Depressions (	(F8)		wetland hydrology n unless disturbed or	
I appears to be a roadside fill and th	ue dieturhad					
·						
YDROLOGY  etland Hydrology Indicators:	s point.	t apply)			Secondary Indicator	s (minimum of two required)
YDROLOGY  etland Hydrology Indicators: imary Indicators (minimum of one is requi	s point.	11.37	ves (B9)			s (minimum of two required)
<b>/DROLOGY etland Hydrology Indicators:</b> imary Indicators (minimum of one is requi	s point.	t apply) /ater-Stained Lea quatic Fauna (B1:	` '		Secondary Indicator Surface Soil Cra	icks (B6)
PDROLOGY  etland Hydrology Indicators: imary Indicators (minimum of one is requi  Surface Water (A1)  High Water Table (A2)	red; check all tha	/ater-Stained Lea	3)		Surface Soil Cra	ns (B10)
YDROLOGY  etland Hydrology Indicators: imary Indicators (minimum of one is requi  Surface Water (A1)  High Water Table (A2)	red; check all tha	/ater-Stained Lea quatic Fauna (B1	3) s (B14)		Surface Soil Cra	ns (B10) ter Table (C2)
rDROLOGY  etland Hydrology Indicators: imary Indicators (minimum of one is requi  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)	red; check all tha	/ater-Stained Lea quatic Fauna (B1: rue Aquatic Plant ydrogen Sulfide ( xidized Rhizospho	3) s (B14) Odor (C1) eres on Living F	oots (C3)	Surface Soil Cra Drainage Patter Dry Season Wat Crayfish Burrow Saturation Visib	icks (B6) ns (B10) ter Table (C2) rs (C8) le on Aerial Imagery (C9)
TDROLOGY  etland Hydrology Indicators: mary Indicators (minimum of one is requi    Surface Water (A1)   High Water Table (A2)   Saturation (A3)   Water Marks (B1)   Sediment Deposits (B2)   Drift Deposits (B3)	red; check all tha	/ater-Stained Lea quatic Fauna (B1: rue Aquatic Plant: ydrogen Sulfide ( ixidized Rhizosphoresence of Reduc	3) s (B14) Odor (C1) eres on Living F ced Iron (C4)		Surface Soil Cra Drainage Patter Dry Season Wai Crayfish Burrow Saturation Visib Stunted or Stres	ncks (B6) ns (B10) ter Table (C2) rs (C8) le on Aerial Imagery (C9) ssed Plants (D1)
Partiand Hydrology Indicators: mary Indicators (minimum of one is requi  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)	red; check all tha	Vater-Stained Lea quatic Fauna (B1: rue Aquatic Plant ydrogen Sulfide ( ixidized Rhizosphoresence of Reduc ecent Iron Reduc	3) s (B14) Odor (C1) eres on Living F ted Iron (C4) ttion in Tilled Sc		Surface Soil Cra Drainage Patter Dry Season Wat Crayfish Burrow Saturation Visib Stunted or Stres	icks (B6) ins (B10) ter Table (C2) is (C8) le on Aerial Imagery (C9) issed Plants (D1) sition (D2)
TDROLOGY  Setland Hydrology Indicators: mary Indicators (minimum of one is requi  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)	red; check all that	Vater-Stained Lea quatic Fauna (B1: rue Aquatic Plant: ydrogen Sulfide ( exidized Rhizosphoresence of Reduce ecent Iron Reduce hin Muck Surface	s (B14) Ddor (C1) eres on Living F ted Iron (C4) tition in Tilled Sc		Surface Soil Cra Drainage Patter Dry Season Wai Crayfish Burrow Saturation Visib Stunted or Stres	icks (B6) ins (B10) ter Table (C2) is (C8) le on Aerial Imagery (C9) issed Plants (D1) sition (D2)
Etland Hydrology Indicators: mary Indicators (minimum of one is requi  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B	red: check all tha	Vater-Stained Lea quatic Fauna (B1: rue Aquatic Plant: ydrogen Sulfide ( ixidized Rhizosphoresence of Reduc- ecent Iron Reduc- hin Muck Surface auge or Well Dat	3) s (B14) Ddor (C1) eres on Living F ded Iron (C4) ction in Tilled Sc e (C7) a (D9)		Surface Soil Cra Drainage Patter Dry Season Wat Crayfish Burrow Saturation Visib Stunted or Stres	icks (B6) ins (B10) ter Table (C2) is (C8) le on Aerial Imagery (C9) issed Plants (D1) sition (D2)
TDROLOGY  etland Hydrology Indicators: mary Indicators (minimum of one is requi    Surface Water (A1)   High Water Table (A2)   Saturation (A3)   Water Marks (B1)   Sediment Deposits (B2)   Drift Deposits (B3)   Algal Mat or Crust (B4)   Iron Deposits (B5)	red: check all tha	Vater-Stained Lea quatic Fauna (B1: rue Aquatic Plant: ydrogen Sulfide ( exidized Rhizosphoresence of Reduce ecent Iron Reduce hin Muck Surface	3) s (B14) Ddor (C1) eres on Living F ded Iron (C4) ction in Tilled Sc e (C7) a (D9)		Surface Soil Cra Drainage Patter Dry Season Wat Crayfish Burrow Saturation Visib Stunted or Stres	icks (B6) ins (B10) ter Table (C2) is (C8) le on Aerial Imagery (C9) issed Plants (D1) sition (D2)
Portional Properties (B2)  Indicator (B3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B Sparsely Vegetated Concave Surface (Beld Observations:	red; check all tha	Vater-Stained Lea quatic Fauna (B1: rue Aquatic Plant ydrogen Sulfide ( ixidized Rhizosphoresence of Reduc- ecent Iron Reduc- hin Muck Surface auge or Well Dat- ither (Explain in Reduc-	3) s (B14) Ddor (C1) eres on Living F ded Iron (C4) ction in Tilled Sc e (C7) a (D9)		Surface Soil Cra Drainage Patter Dry Season Wat Crayfish Burrow Saturation Visib Stunted or Stres	icks (B6) ins (B10) ter Table (C2) is (C8) le on Aerial Imagery (C9) issed Plants (D1) sition (D2)
**Toron Deposits (B3) Inundation Visible on Aerial Imagery (B Sparsely Vegetated Concave Surface (B  **Toron Deposits (B5) Inundation Visible on Aerial Imagery (B Sparsely Vegetated Concave Surface (B  **Toron Deposits (B3)  **Toron Deposits (B5) Inundation Visible on Aerial Imagery (B Sparsely Vegetated Concave Surface (B	red; check all that  red; check all that  A  T  H  O  R  T  T  G  8)	Vater-Stained Lea quatic Fauna (B1: rue Aquatic Plant: ydrogen Sulfide ( ixidized Rhizosphoresence of Reduc- ecent Iron Reduc- hin Muck Surface auge or Well Dat	3) s (B14) Ddor (C1) eres on Living F ded Iron (C4) ction in Tilled Sc e (C7) a (D9)		Surface Soil Cra Drainage Patter Dry Season Wat Crayfish Burrow Saturation Visib Stunted or Stres	icks (B6) ins (B10) ter Table (C2) is (C8) le on Aerial Imagery (C9) issed Plants (D1) sition (D2)
etland Hydrology Indicators: imary Indicators (minimum of one is requi  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B  Sparsely Vegetated Concave Surface (B	red; check all tha	Vater-Stained Lea quatic Fauna (B1: rue Aquatic Plant ydrogen Sulfide ( ixidized Rhizosphoresence of Reduc- ecent Iron Reduc- hin Muck Surface auge or Well Dat- ither (Explain in Reduc-	3) s (B14) Ddor (C1) eres on Living F ded Iron (C4) ction in Tilled Sc e (C7) a (D9)	ils (C6)	Surface Soil Cra Drainage Patter Dry Season Wat Crayfish Burrow Saturation Visib Stunted or Stres Geomorphic Pos	icks (B6) ins (B10) ter Table (C2) is (C8) le on Aerial Imagery (C9) ssed Plants (D1) sition (D2) st (D5)
etland Hydrology Indicators: imary Indicators (minimum of one is requi  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B  Sparsely Vegetated Concave Surface (B  eld Observations: urface Water Present?  ater Table Present?  poludes capillary fringe)  Yes	red; check all tha	Vater-Stained Lea quatic Fauna (B1) rue Aquatic Plant ydrogen Sulfide (exidized Rhizosphoresence of Reduce ecent Iron Reduction Muck Surface auge or Well Datather (Explain in Reduction Face).  Depth (inches):  Depth (inches):	3) s (B14) Codor (C1) eres on Living F sed Iron (C4) ction in Tilled Sc (C7) a (D9) Remarks)	ils (C6)	Surface Soil Cra Drainage Patter Dry Season Wat Crayfish Burrow Saturation Visib Stunted or Stres Geomorphic Pos FAC-Neutral Tes	icks (B6) ins (B10) ter Table (C2) is (C8) le on Aerial Imagery (C9) issed Plants (D1) sition (D2)
PROLOGY  etland Hydrology Indicators: imary Indicators (minimum of one is requi  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B  Sparsely Vegetated Concave Surface (B  eld Observations:  Irface Water Present?  Attraction Present?  Secribe Recorded Data (stream gauge  etatory  yes  Proceedits (Sa)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B  Sparsely Vegetated Concave Surface (B  eld Observations:  Irface Water Present?  Attraction Present?  Yes  Attraction Pres	red; check all that  red; check all that  A  A  T  H  O  R  T  G  8)  No  No  No  No  No  R  Mo  No  No  No  No  R  Mo  No  No  No  R  No  No  No  No  No  R  No  No	Vater-Stained Lea quatic Fauna (B1: rue Aquatic Plant: ydrogen Sulfide (ixidized Rhizospheresence of Reduceent Iron Reduchin Muck Surface auge or Well Date ther (Explain in Reduction of the Company of	3) s (B14) Odor (C1) eres on Living F eed Iron (C4) ction in Tilled Sc (C7) a (D9) Remarks)  11 0  Ds, previous in	Wetl	Surface Soil Cra Drainage Patter Dry Season Wat Crayfish Burrow Saturation Visib Stunted or Stres Geomorphic Pos FAC-Neutral Tes	icks (B6) ins (B10) ter Table (C2) is (C8) le on Aerial Imagery (C9) ssed Plants (D1) sition (D2) st (D5)
Petland Hydrology Indicators: mary Indicators (minimum of one is requi  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B Sparsely Vegetated Concave Surface (B  Peld Observations: rface Water Present? Atter Table Present? Setter Table Present? Ves  Scribe Recorded Data (stream gauge evious delineation, DNR WWI map, N	red; check all that  red; check all that  A  A  T  H  O  R  T  G  8)  No  No  No  No  No  R  Mo  No  No  No  No  R  Mo  No  No  No  R  No  No  No  No  No  R  No  No	Vater-Stained Lea quatic Fauna (B1: rue Aquatic Plant: ydrogen Sulfide (ixidized Rhizospheresence of Reduceent Iron Reduchin Muck Surface auge or Well Date ther (Explain in Reduction of the Company of	3) s (B14) Odor (C1) eres on Living F eed Iron (C4) ction in Tilled Sc (C7) a (D9) Remarks)  11 0  Ds, previous in	Wetl	Surface Soil Cra Drainage Patter Dry Season Wat Crayfish Burrow Saturation Visib Stunted or Stres Geomorphic Pos FAC-Neutral Tes	icks (B6) ins (B10) ter Table (C2) is (C8) le on Aerial Imagery (C9) ssed Plants (D1) sition (D2) st (D5)
Petland Hydrology Indicators: mary Indicators (minimum of one is requi    Surface Water (A1)   High Water Table (A2)   Saturation (A3)   Water Marks (B1)   Sediment Deposits (B2)   Drift Deposits (B3)   Algal Mat or Crust (B4)   Iron Deposits (B5)   Inundation Visible on Aerial Imagery (B   Sparsely Vegetated Concave Surface (B    Sediment Deposits (B5)   Iron Deposits (B5)   Iron Deposits (B5)   Inundation Visible on Aerial Imagery (B   Sparsely Vegetated Concave Surface (B    Sedice Water Present? Yes Output (B)   Sedice Water Present? Yes Output (B)   Surface Water Present? Yes Output (B)	red; check all that  red; check all that  A  T  H  O  R  T  T  B  NO  NO  NO  NO  NO  NO  NO  NO  NO	Vater-Stained Lea quatic Fauna (B1: rue Aquatic Plant: ydrogen Sulfide (exidized Rhizospheresence of Reduce ecent Iron Reduchin Muck Surface auge or Well Date of their (Explain in Film Depth (inches): Depth (inches): Depth (inches): ell, aerial photoly, Topographic in the surface of the sur	3) s (B14) Ddor (C1) eres on Living F ded Iron (C4) ction in Tilled Sc (C7) a (D9) Remarks)  11 0 Ds, previous in map, Aerial pl	Wetl	Surface Soil Cra Drainage Patter Dry Season Wat Crayfish Burrow Saturation Visib Stunted or Stres Geomorphic Pos FAC-Neutral Tes	icks (B6) ins (B10) ter Table (C2) is (C8) le on Aerial Imagery (C9) ssed Plants (D1) sition (D2) st (D5)

Project/Site: IH 94 (N-S Freeway)		Cit	y/County:	Milwaukee C	ounty	Sampling Date:	19-Aug-14
Applicant/Owner: _Wisconsin Departmer	nt of Transportation			State:	_WI Sar	mpling Point:	SP-43
Investigator(s): Ron Londre, Geof Paris	h	9	Section, Town	ship, Range:	s 19 T 5N	R 22E	
Landform (hillslope, terrace, etc.): Toes	slope/ditch				oncave, convex, none)	: concave	_
Slope: 2.0% 1.1 • Lat.:						Datum:	
	(514)		Long.:		NAMA (I. al. a. a.)		
Soil Map Unit Name: Blount silt loan		- Voc	● No ○	(If no ov		fication: None	
Are climatic/hydrologic conditions on the		your.		,	plain in Remarks.)	resent? Yes	● No ○
Are Vegetation , Soil	, or Hydrology	significantly dis		Are "No	ormal Circumstances" p	resent? Yes	S NO C
Are Vegetation, Soil	, or Hydrology	naturally proble	matic?	(If nee	ded, explain any answe	ers in Remarks.)	
SUMMARY OF FINDINGS - A	Attach site map sho	wing sam	oling poin	t locatio	ns, transects, in	nportant feature	s, etc.
Hydrophytic Vegetation Present?	Yes ● No ○						
Hydric Soil Present?	Yes ● No ○			Sampled A	irea		
Wetland Hydrology Present?	Yes ● No ○		within	n a Wetland	l? Yes • No	)	
, 33	103 0 110 0						_
Remarks: This point is located in a roadside	ditch						
All three parameters have been m		his point is loc	cated in a w	etland.			
<b>VEGETATION -</b> Use scie	entific names of pla	ints.	Dominant Species?				
Tara Chartura (Diot size) 9' v 75'	1	Absolute % Cover	Rel.Strat.		Dominance Test w	orksheet:	
Tree Stratum (Plot size: 8' x 75' 1.	<del></del> '		Cover	Status	Number of Dominant		2 (4)
2		0 0	0.0%		That are OBL, FACW	, or FAC:	2 (A)
3.			0.0%		Total Number of Dor		2 (B)
4.		0	0.0%		Species Across All St	rata:	2 (B)
5.		0	0.0%		Percent of domina		00.0% (A/B)
		0	= Total Cove	er	That Are OBL, FAC	CW, or FAC:	0.076 (A/B)
Sapling/Shrub Stratum (Plot size: 8'	x 75				Prevalence Index v	worksheet:	
		0	0.0%		Total % Cov	er of: Multiply I	oy:
2			0.0%		OBL species	75 x 1 =	
3			0.0%		FACW species	80 x 2 =	160
5.		0 0	0.0%		FAC species FACU species	0 x 3 = 5 x 4 =	20
		0	= Total Cove		UPL species	5 x 4 = 3 x 5 =	15
Herb Stratum (Plot size: 8' x 10'	)				,		
1. Typha angustifolia			46.0%	OBL	Column Totals:	163 (A)	(B)
2. Euthamia graminifolia		40	24.5%	FACW	Prevalence In	dex = B/A =	.656
Agrostis stolonifera     Solidago sempervirens		25	15.3% 9.2%	FACW FACW	Hydrophytic Veget	ation Indicators:	
5. Solidago canadensis		<u>15</u> 5	3.1%	FACU	✓ 1 - Rapid Test f	for Hydrophytic Vege	tation
6. Daucus carota		3	1.8%	UPL	✓ 2 - Dominance		
7.		0	0.0%		✓ 3 - Prevalence		
8.		0	0.0%		4 - Morphologie	cal Adaptations $^{ m 1}$ (Pr	ovide supporting eet)
9.		0	0.0%			drophytic Vegetation	-
10.			0.0%			dric soil and wetland	,
Woody Vine Stratum (Plot size: 8' x	75' )	163	= Total Cove	er		disturbed or problen	
1.		0	0.0%				
2.		0	0.0%		Hydrophytic Vegetation	-	
		0	= Total Cove	er	Present? Y	es • No	
Remarks: (Include photo number	s here or on a separate	sheet.)					
The size of the plot is based on the							
This point is located in a shallow the criterion for hydrophytic vege							
The chieffort for flydrophlytic vege	ration is mot at this put						

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Include   Continue			cribe to t Matrix	he depth nee	eded to d				nfirm the	absence of indicators.)	
10/18	Depth (inches)			<b>%</b>	Color (n				Loc <sup>2</sup>	Texture	Remarks
pe. CConsentration, Ti-Tepletion, IAM-Assalused Matrix, CS-Covered or Costeel Sand Grains.  ### April 15 D M    Percent Consentration, Ti-Tepletion, IAM-Assalused Matrix, CS-Covered or Costeel Sand Grains.   Percent Consentration, Ti-Tepletion, IAM-Assalused Matrix, CS-Covered or Costeel Sand Grains.   Percent Consentration, Ti-Tepletion, IAM-Assalused Matrix, CS-Covered or Costeel Sand Grains.   Percent Consentration, Ti-Tepletion, IAM-Assalused Matrix, CS-Covered or Costeel Sand Grains.   Percent Consentration, Ti-Tepletion, IAM-Assalused Matrix, CS-Covered Or Costeel Sand Grains.   Percent Consentration, Ti-Tepletion, IAM-Assalused Matrix, CS-Covered Or Costeel Sand, Grains.   Percent Consentration, Ti-Tepletion, IAM-Assalused Matrix, CS-Covered Or Costeel Sand, Matrix, CS-Covered Or Costeel Sand, Matrix, CS-Covered Or Costeel Sand, Grains.   Percent Consentration, IAM-Assalused Matrix, CS-Covered Or Costeel Sand, Matrix, CS-Covered Or Costeel Sand, Matrix, CS-Covered Or Costeel Sand, Grains.   Percent Costeel Costeel Sand, CS-Covered Or Costeel Sand, Grains.   Percent Costeel Costeel Sand, CS-Covered Or Costeel Sand, CS-Covered Or Costeel Sand, Grains.   Percent Costeel Costeel Costeel Sand, CS-Covered Or Co	0-6	10YR	5/2	95	7.5YR	4/6	5	С	М	Silty Clay Loam	
per C-Conventration D-Depletion, RM-Reduced Matrix, CS-Covered or Coaled Sand Grains.    Packed Coaled Coal	6-20	10YR	6/4	90	7.5YR	5/6	5	С	М	Sandy Clay Loam	
Histore   April   Soil Tudicators:		1			10YR	6/1	5	D	M		
Histore   April   Soil Tudicators:											
Histore   April   Soil Tudicators:											
Histore   April   Soil Tudicators:											
Histore   April   Soil Tudicators:											
Histore   April   Soil Tudicators:											
Histore   April   Soil Tudicators:	Type: C=Con	centration D-	- Depletion	PM-Peduce	Matrix C		d or Coat	ed Sand Gra	inc	Pocation: PL -Pore Lining M	-Matrix
Histoc (A) Histoc Epipedon (A2) Sarrdy Redox (S5) Sarrdy Redox (S5	J.		Depletion	, KW-Keduce	i Matrix, C	,3=covere	u or coat	eu sanu ora	1113.		
Histic Epipedon (A2)	<u>-</u>				Sano	dy Gleyed	Matrix (S	4)			•
Stripped Matrix (Se)   Iron Manganese Masses (F12)   Iron Mangan	Histic Epi	pedon (A2)						,			(A16)
Stratified Layers (A5)	_	. ,			Strip	ped Matri	x (S6)				(54.0)
2 cm Muck (A10)	_				Loar	my Mucky	Mineral (I	F1)			, ,
Depleted Below Dark Surface (A11)	_	, ,			Loar	my Gleyed	Matrix (F	2)			
Thick Dark Surface (A12)	_	` '			<b>✓</b> Dep	leted Matr	ix (F3)			Other (Explain in Rer	narks)
Sandy Muck Mineral (S1)	¬ '		•	1)	Red	ox Dark Su	urface (F6	o)			
wetland hydrology must be present, unless disturbed or problematic.  Type: None Depth (inches): NA  PROBOLOGY  Pethod Hydric Soil Present? Yes No No  No No No No No No No No No No No No No N	,	,	•		☐ Dep	leted Dark	Surface	(F7)		3 Indicators of hydrophy	rtic vegetation and
Strictive Layer (if observed): Type: None Depth (inches): NA  Water Stained Hydrology Indicators: mary Indicators (minimum of two required) Surface Water (A1) High Water Table (A2) Water Marks (B1) Sediment Deposits (B2) Orift Deposits (B3) Agail Mat or Crust (B4) Iron Deposits (B3) Agail Mat or Crust (B4) Iron Deposits (B3) Iron Deposits (B4) Iron Deposits (B5) Iron Deposits (B4) Iron Deposits (B5) Iron Depo	¬ ´	•	•		Red	ox Depres	sions (F8)	)		wetland hydrology	must be present,
Type: None Depth (Inches): NA  Marks:  appears to be a roadside fill and thus disturbed.  criterion for hydric soil is met at this point.  **TOROLOGY**  **Ettand Hydrology Indicators:  mary Indicators (minimum of one is required: check all that apply)  Secondary Indicators (minimum of two required)  Surface Water (A1)		-								unless disturbed o	r problematic.
Depth (inches): NA			rved):								
TOROLOGY  Interior for hydric soil is met at this point.    Secondary Indicators (minimum of two required)	-									Hydric Soil Present?	Voc (P) No (
appears to be a roadside fill and thus disturbed.  criterion for hydric soil is met at this point.    Comparison of the property of the proper	Depth (inc	hes):_NA			_					Tryune Son Frescher	
mary Indicators (minimum of one is required: check all that apply)  Secondary Indicators (minimum of two required)  Surface Water (A1)	YDROLO	OGY									
mary Indicators (minimum of one is required: check all that apply)  Secondary Indicators (minimum of two required)  Surface Water (A1)	etland Hyd	Irology Indic	ators:								
High Water Table (A2)	-			required; che	ck all that	apply)				Secondary Indicato	rs (minimum of two required)
Saturation (A3)	Surface V	Vater (A1)			□ w	ater-Staine	ed Leaves	s (B9)		Surface Soil Cr	acks (B6)
Water Marks (B1)	] High Wate	er Table (A2)			☐ Ac	quatic Faur	na (B13)			☐ Drainage Patte	rns (B10)
Sediment Deposits (B2)  Oxidized Rhizospheres on Living Roots (C3)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Depth (inches):  Inter Table Present?  Yes  No  Depth (inches):  Depth (inche	Saturation	n (A3)			☐ Tr	ue Aquatio	: Plants (E	314)		✓ Dry Season Wa	iter Table (C2)
Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)  Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Geomorphic Position (D2) FAC-Neutral Test (D5)  FAC-Neutral Test (D5)  Presently Face Water Present? Yes No Depth (inches): Face Water Present? Yes No	] Water Ma	ırks (B1)			☐ Hy	ydrogen Si	ulfide Odo	or (C1)		Crayfish Burrov	vs (C8)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)  Part Table Present? Yes No Depth (inches): Cuter Table Present	Sediment	Deposits (B2)				xidized Rhi	zosphere	s on Living R	oots (C3)	☐ Saturation Visil	ole on Aerial Imagery (C9)
Iron Deposits (B5)	Drift Depo	osits (B3)			Pr	esence of	Reduced	Iron (C4)		Stunted or Stre	essed Plants (D1)
Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)  Clid Observations:  Inface Water Present?  Inter Table Present?  I	] Algal Mat	or Crust (B4)			Re	ecent Iron	Reduction	n in Tilled Sc	ils (C6)	<b>✓</b> Geomorphic Po	osition (D2)
Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)  Clid Observations:  Crace Water Present? Yes No Depth (inches):  Cuter Table Present? Ye	] Iron Depo	osits (B5)			Th	nin Muck S	urface (C	7)		▼ FAC-Neutral Tell	est (D5)
eld Observations:  -face Water Present? Yes No Depth (inches): -ter Table Present? Yes No Depth (inches): -ter	] Inundatio	n Visible on Ae	erial Image	ery (B7)	☐ Ga	auge or W	ell Data (I	D9)			
Frace Water Present? Yes No Depth (inches):  Inter Table Present? Yes No Depth (inches):  Frace Water Present?	] Sparsely '	Vegetated Con	icave Surfa	ace (B8)	Ot	ther (Expla	in in Rem	narks)			
Frace Water Present?  Yes No Depth (inches):  Iter Table Present?  Yes No No Depth (inches):  Iter Table Present?  Yes No No No Depth (inches):  Iter Table Present?  Yes No No Depth (inches):  Iter Table Present?  Yes No No No Depth (inches):  No No Depth (inches):  Iter Table Present?  Yes No No No Depth (inches):  No No Depth (inches):  Iter Table Present?  Yes No No No Depth (inches):  Iter Table Present?  Yes No No No Depth (inches):  Iter Table Present?  Yes No No No Depth (inches):  No No Depth (inches):  Iter Table Present?  Yes No No No Depth (inches):  No No Depth (inches):  Iter Table Present?  Yes No											
Inter Table Present?  Ves No Depth (inches): 17  Furuation Present?  Ves No Depth (inches): 0  Wetland Hydrology Present?  Ves No Depth (inches): 0  Scribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Evious delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos  marks:	eld Observ	ations:	/								
turation Present? Cludes capillary fringe)  Yes No Depth (inches):  Depth (inches):  O Wetland Hydrology Present?  Yes No Depth (inches):  Scribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Evious delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos  marks:	rface Water	Present?			1	Depth (inc	hes):		-		
cludes capillary fringe)  Yes  No  Depth (inches):  O  Depth (inches):  O  Scribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  evious delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos  marks:	ater Table P	resent?	Yes (	<ul><li>No O</li></ul>	1	Depth (inc	hes):	17			V (a) N (
scribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: evious delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos marks:			Yes (	● No ○	ı	Depth (inc	hes):	0	Wet	land Hydrology Present?	res ♥ No ∪
evious delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos marks:			(stream o	gauge, moni	toring we	ell, aerial	photos.	previous in	- Ispection:	s), if available:	
marks:				_	_						
and on a WETS analysis, antecedent presinitation was within a normal range	marks:			*				· '			
sed on a WETS analysis, antecedent precipitation was within a normal range.	sed on a \	NETS analys	is, antece	edent precip	tation wa	as within	a norma	al range.			

Project/Site: _IH 94 (N-S Freeway)	City/County: Milv	waukee County Sampling Date: 19-Aug-14
Applicant/Owner: Wisconsin Department of Transportation		State: WI Sampling Point: SP-44
Investigator(s): Ron Londre, Geof Parish	Section, Township	o, Range: S 19 T 5N R 22E
Landform (hillslope, terrace, etc.): Backslope		al relief (concave, convex, none): convex
Slope: 5.0% 2.9 • Lat.:		Datum:
	Long.:	
Soil Map Unit Name: Morley silt loam (MzdB), Not hydric	f vear? Yes O No O	WWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of	year.	(If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology	significantly disturbed?	Are "Normal Circumstances" present? Yes   No   No
Are Vegetation , Soil , or Hydrology	naturally problematic?	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map sho	owing sampling point l	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes   No		
Hydric Soil Present? Yes O No •		mpled Area Wetland? Yes ○ No ●
Wetland Hydrology Present? Yes O No •		165 0 110 0
Remarks: Two of three parameters have not been met at this poin  VEGETATION - Use scientific names of place.	ants. <b>Dominant Species?</b>	
Tree Stratum (Plot size: 30' r )	Absolute Rel.Strat. In % Cover Cover S	dicator Dominance Test worksheet:
	0 0.0%	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
2	0 0.0%	That are obe, facw, of fac.
3.	0 0.0%	Total Number of Dominant Species Across All Strata: 2 (B)
4.	0 0.0%	Species Across Air Strata.
5.	0 0.0% 0	
	0 = Total Cover	That Are OBL, FACW, or FAC: 100.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15' r )	_	Prevalence Index worksheet:
1	0 0.0%	Total % Cover of: Multiply by:
2	0	OBL species 0 x 1 = 0
3	0 0.0%	FACW species $33 \times 2 = 66$
4. 5.	0 0.0%	FAC species 60 x 3 = 180
	0	FACU species 26 x 4 = 104
Herb Stratum (Plot size: 5' r )	0 = Total Cover	UPL species 23 x 5 = 115
1. Poa pratensis	60 <b>✓</b> 42.3% F.	AC Column Totals: 142 (A) 465 (B)
2. Symphyotrichum lateriflorum	30	ACW Prevalence Index = B/A = 3.275
3. Coronilla varia	20	Hydrophytic Vegetation Indicators:
4. Elymus repens	20	1 - Rapid Test for Hydrophytic Vegetation
5. Ambrosia artemisiifolia		ACU 2 - Dominance Test is > 50%
6. Erigeron philadelphicus		ACW 3 - Prevalence Index is ≤3.0 <sup>1</sup>
7. Daucus carota 8. Festuca rubra		ACI 4 - Morphological Adaptations <sup>1</sup> (Provide supporting
9.		data in Remarks or on a separate sheet)
10.	0 0.0%	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	142 = Total Cover	Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 30' r )	142 = Total Cover	be present, unless disturbed or problematic.
1	0 0.0%	
2	0 0.0%	Hydrophytic Vegetation
	0 = Total Cover	Present? Yes   No
Decrease (leader) about the second control of the second control o	-l + \	
Remarks: (Include photo numbers here or on a separate The criterion for hydrophytic vegetation is met at this po	•	

		cribe to t	he depth ne	eeded to docu	ment the ind		nfirm the	absence of indicators.)	
Depth (inches)	Color (m		%	Color (mois		Type 1	Loc <sup>2</sup>	Texture	Remarks
0-8	10YR	3/2	100					Silty Clay Loam	`
8-20	10YR	4/4	90	10YR	5/1 10	D	М	Silty Clay Loam	
Type: C=Conc Hydric Soil Ir		=Depletion,	RM=Reduce	ed Matrix, CS=0	Covered or Coa	ted Sand Gra	ins.	Leocation: PL=Pore Lining	
Histosol (A				Sandy (	Gleyed Matrix (S	:4)		Indicators for Prob	lematic Hydric Soils <sup>3</sup> :
Histic Epip Black Histic Hydrogen Stratified L 2 cm Muck Depleted B Thick Dark	edon (A2) c (A3) Sulfide (A4) ayers (A5) c (A10) Below Dark Si Surface (A1:	2)	1)	Sandy F Stripped Loamy I Loamy I Deplete Redox I Deplete	Redox (S5) d Matrix (S6) Mucky Mineral ( Gleyed Matrix (I d Matrix (F3) Dark Surface (F6 d Dark Surface	(F1) F2) 6) (F7)		Coast Prairie Redo Dark Surface (S7) Iron Manganese N Very Shallow Dark Other (Explain in	Masses (F12) k Surface (TF12) Remarks) phytic vegetation and
_	ck Mineral (Sf xy Peat or Pea			Redox [	Depressions (F8	)		wetland hydrolo	gy must be present, ed or problematic.
Depth (inch Remarks:	es): NA			_				Hydric Soil Present?	Yes ○ No •
	o be a fill so for hydric so							Hydric Soil Present?	Yes ○ No ●
Remarks: oil appears to the criterion f	o be a fill so for hydric so	oil is not r						Hydric Soil Present?	Yes ○ No ●
Remarks: oil appears to he criterion f	o be a fill so for hydric so	oil is not r	net at this	point.	oly)				Yes No No eators (minimum of two required)
Remarks: oil appears to he criterion f  IYDROLO  Wetland Hydr Primary Indicat  High Water Saturation Water Mar Sediment I Drift Depos Algal Mat of Iron Depos	GY  Ology Indicors (minimur ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4)	cators: m of one is	required; ch	point.  neck all that approximate approxim	oly) r-Stained Leave ric Fauna (B13) Aquatic Plants ( ogen Sulfide Ode red Rhizosphere nce of Reduced nt Iron Reductio Muck Surface (C e or Well Data (	B14) or (C1) es on Living R Iron (C4) in in Tilled Sc (C7)	, ,	Secondary Indic  Surface Soi  Drainage Pa  Dry Season  Crayfish Bu  Saturation V	cators (minimum of two required)  I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
Remarks: oil appears to he criterion f  IYDROLO  Wetland Hydr Primary Indicat  High Water Saturation Water Mar Sediment I Drift Depos Algal Mat of Iron Depos	GY  Cology Indicors (minimur ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) n Visible on A egetated Cor	cators: m of one is erial Image	required; cherry (B7)	point.    Mater   Aquat   Hydro   Oxidiz   Prese   Recer   Thin N   Gauge   Other	r-Stained Leave ric Fauna (B13) Aquatic Plants ( ogen Sulfide Od- zed Rhizosphere nce of Reduced nt Iron Reductio Muck Surface (C e or Well Data ( c (Explain in Rer	B14) or (C1) es on Living R Iron (C4) in in Tilled Sc (C7)	, ,	Secondary Indic Surface Soi Drainage Pa Dry Season Crayfish Bu Saturation V Stunted or Geomorphic	cators (minimum of two required)  I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
Remarks: oil appears to the criterion of  IYDROLO  Wetland Hydr  Primary Indicat  High Water  Saturation  Water Mar  Sediment I  Drift Depos  Inundation  Sparsely V  Field Observa  Surface Water I	GY  rology Indicors (minimumater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) n Visible on A egetated Core  ritions: Present?	cators: m of one is  erial Image ncave Surfa	required; cherry (B7)	point.    Mater   Aquat   True   Aquat   Hydro   Oxidiz   Prese   Recer   Thin Mater   Gauge   Other	r-Stained Leave tic Fauna (B13) Aquatic Plants ( ogen Sulfide Ode ted Rhizosphere nce of Reduced ht Iron Reductio Muck Surface (C e or Well Data ( c (Explain in Rer	B14) or (C1) es on Living R Iron (C4) in in Tilled Sc (C7)	, ,	Secondary Indic Surface Soi Drainage Pa Dry Season Crayfish Bu Saturation V Stunted or Geomorphic	cators (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
Remarks: oil appears to the criterion of  IYDROLO  Wetland Hydre Primary Indicat  Surface Wa High Water Saturation Water Mar Sediment I Drift Depos Inundation Sparsely Vi  Field Observa  Surface Water Iable Pro	GY  rology Indicors (minimumater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) n Visible on A egetated Cor  ations: Present?	cators: m of one is erial Image ncave Surfa	required; cherry (B7) ace (B8)	point.    Mater   Aquat   True / Prese   Recer   Thin Mater   Gauge   Other	r-Stained Leaveric Fauna (B13) Aquatic Plants ( ogen Sulfide Odered Rhizospherer nce of Reduced ont Iron Reduction Muck Surface (Core or Well Data ( (Explain in Rer  oth (inches):	B14) or (C1) es on Living R Iron (C4) in in Tilled Sc (C7)	iils (C6)	Secondary Indic Surface Soi Drainage Pa Dry Season Crayfish Bu Saturation V Stunted or Geomorphic	cators (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) I Test (D5)
Remarks: oil appears to the criterion of  IYDROLO  Wetland Hydre Primary Indicat  Surface Wa High Water Saturation Water Mar Sediment I Drift Depos Inundation Sparsely W  Field Observa Surface Water I Water Table Pro Saturation Pres Sincludes capilla	GY  rology Indic ors (minimur ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) n Visible on A egetated Cor  ations: Present? ent? ent? enty fringe)	erial Image ncave Surfa	required: chery (B7) lice (B8)	point.    Mater   Aquat   True   Aquat   True   Aquat   Hydro   Oxidiz   Prese   Recer   Thin Mater   Other	r-Stained Leave ric Fauna (B13) Aquatic Plants ( ogen Sulfide Ode red Rhizosphere nce of Reduced nt Iron Reductio Muck Surface (C e or Well Data ( reduction (Explain in Rer oth (inches):	B14) or (C1) es on Living R Iron (C4) in in Tilled Sc (C7) D9) narks)	wetl	Secondary Indic Surface Soi Drainage Pa Dry Season Crayfish Bu Saturation \ Stunted or Geomorphic FAC-Neutra	cators (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) I Test (D5)
Remarks: oil appears to the criterion of	GY  rology Indicors (minimur ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) n Visible on A egetated Cor  rotions: Present? esent? eary fringe) orded Data	cators: m of one is  erial Image ncave Surfa  Yes  Yes  (stream of	required; cherry (B7) ace (B8)  No  No  agauge, more	point.    Mater   Aquat   True / Aquat   Prese   Recer   Thin Mater   Gauge   Other     Dep   De	r-Stained Leave it Fauna (B13) Aquatic Plants ( ogen Sulfide Oddered Rhizosphere of Reduced on Iron Reduction Muck Surface (Ce or Well Data (Fixed Explain in Rerest)  with (inches):  with (inches):  aerial photos,	B14) or (C1) es on Living R Iron (C4) in in Tilled Sc (77) D9) narks)	wetl	Secondary Indic  Surface Soi  Drainage Pa  Dry Season  Crayfish Bu  Saturation v  Stunted or  Geomorphic  FAC-Neutra	cators (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) I Test (D5)
Remarks: oil appears to the criterion of	GY  rology Indicors (minimur ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) n Visible on A egetated Cor  rotions: Present? esent? eary fringe) orded Data	cators: m of one is  erial Image ncave Surfa  Yes  Yes  (stream of	required; cherry (B7) ace (B8)  No  No  agauge, more	point.    Mater   Aquat   True / Aquat   Prese   Recer   Thin Mater   Gauge   Other     Dep   De	r-Stained Leave ric Fauna (B13) Aquatic Plants ( ogen Sulfide Ode red Rhizosphere nce of Reduced nt Iron Reductio Muck Surface (C e or Well Data ( reduction (Explain in Rer oth (inches):	B14) or (C1) es on Living R Iron (C4) in in Tilled Sc (77) D9) narks)	wetl	Secondary Indic Surface Soi Drainage Pa Dry Season Crayfish Bu Saturation \ Stunted or Geomorphic FAC-Neutra	cators (minimum of two required)  I Cracks (B6) atterns (B10)  Water Table (C2)  rrows (C8)  Visible on Aerial Imagery (C9)  Stressed Plants (D1) c Position (D2)  I Test (D5)

pplicant/Owner: Wisconsin Department of Transportation  nvestigator(s): Ron Londre, Geof Parish  andform (hillslope, terrace, etc.): Toeslope/ditch  lope: 3.0% 1.7 • Lat.:  oil Map Unit Name: Morley silt loam (MzdB), Not hydric  re climatic/hydrologic conditions on the site typical for this time of ye		Section, Tow	State:	S 19 T 5N R 22E
andform (hillslope, terrace, etc.): Toeslope/ditch  lope: 3.0% 1.7 • Lat.:  oil Map Unit Name: Morley silt loam (MzdB), Not hydric		Section, Tow		
lope: 3.0% 1.7 • Lat.: oil Map Unit Name: Morley silt loam (MzdB), Not hydric			1 1 1 6 . / .	
oil Map Unit Name: Morley silt loam (MzdB), Not hydric			Local relief (c	concave, convex, none): concave
oil Map Unit Name: Morley silt loam (MzdB), Not hydric		Long.:		- Datum:
		<b>—</b>		
re climatic/nyurologic conditions on the site typical for this time of ye	yes (	● No ○	(If no. e)	xplain in Remarks.)
re Vegetation 🔲 , Soil 🗹 , or Hydrology 🔲 sig	gnificantly dist			ormal Circumstances" present? Yes  No
	•			ormal of our standed process.
re Vegetation 🔲 , Soil 📙 , or Hydrology 📙 na	aturally proble	:matic'?	(If need	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map show	ving samp	pling poi	nt locatio	ns, transects, important features, etc.
Hydrophytic Vegetation Present? Yes   No				
Hydric Soil Present? Yes • No •			ne Sampled A nin a Wetland	
Wetland Hydrology Present? Yes   No			III u 1700u	" Tes © NO C
Remarks:				
This point is located in a roadside ditch.				
All three parameters have been met at this point. Thus, this	s point is loc	cated in a v	wetland.	
<b>VEGETATION -</b> Use scientific names of plan	1+c	Dominant		
VEGETATION - OSC SCIENTING HARRIES OF Plan		- Species?		Dominance Test worksheet:
Tree Stratum (Plot size: 20' x 140' )	Absolute % Cover	Rel.Strat. Cover	Status	
1	0	0.0%		Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
2.	0	0.0%		
3.	0	0.0%		Total Number of Dominant Species Across All Strata: 2 (B)
4		0.0%		
5	0	0.0%		Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
Sapling/Shrub Stratum (Plot size: 20' x 35' )		= Total Cov	/er	
1.	0	0.0%	ļ	Prevalence Index worksheet:
2.	0 0	0.0%		Total % Cover of: Multiply by:  OBL species 0 x 1 = 0
3.	0	0.0%		FACW species $105 \times 2 = 210$
4.	0	0.0%		FAC species $0 \times 3 = 0$
5.	0	0.0%		FACU species 10 x 4 = 40
Herb Stratum (Plot size: 5' r )	0	= Total Cov	/er	UPL species 3 x 5 = 15
1 Phalaris arundinacea	70	<b>✓</b> 59.3%	FACW	Column Totals: 118 (A) 265 (B)
2. Agrostis gigantea		<b>✓</b> 25.4%		Prevalence Index = B/A = 2.246
3. Elymus repens	10	8.5%	FACU	
4. Symphyotrichum lateriflorum	5	4.2%	FACW	Hydrophytic Vegetation Indicators:
5. Daucus carota	3	2.5%	UPL	<ul> <li>✓ 1 - Rapid Test for Hydrophytic Vegetation</li> <li>✓ 2 - Dominance Test is &gt; 50%</li> </ul>
6	0	0.0%		✓ 2 - Dominance Test is > 50%  ✓ 3 - Prevalence Index is ≤3.0 ¹
7.	0	0.0%		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
8. 9.	0_	0.0%		data in Remarks or on a separate sheet)
10.		0.0%		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	118	= Total Cov		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 20' x 140'	118	= 10(a) Cov	/ei	be present, unless disturbed or problematic.
1	0	0.0%		
2		0.0%		Hydrophytic Vegetation
	0	= Total Cov	/er	Present? Yes   No
Remarks: (Include photo numbers here or on a separate sh				<u> </u>

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

rofile Description: (Des Depth	Matrix	•		lox Featu				
(inches) Color (r	noist)	%	Color (moist)	%	Туре	Loc2	Texture	Remarks
0-6 10YR	3/1	100					Silty Clay Loam	
6-20 10YR	6/1	70	7.5YR 5/6	30	С	M	Silty Clay	
pe: C=Concentration, D	=Depletion,	RM=Reduce	ed Matrix, CS=Covere	ed or Coate	ed Sand Gra	iins.	Location: PL=Pore Lining.	. M=Matrix.
dric Soil Indicators:			_				Indicators for Probl	lematic Hydric Soils <sup>3</sup> :
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark S Thick Dark Surface (A1 Sandy Muck Mineral (S 5 cm Mucky Peat or Pe	12) 61)	)	Sandy Gleyed Sandy Redox Stripped Matr Loamy Mucky Loamy Gleyed Depleted Mati Redox Dark S Depleted Darl Redox Depres	(S5) ix (S6) Mineral (F Matrix (F rix (F3) urface (F6 x Surface (	F1) 2) ) (F7)			Masses (F12) Surface (TF12) Remarks)
Depth (inches): NA							Hydric Soil Present?	Yes  No
Depth (inches): NA marks: appears to be a fill s criterion for hydric s							Hydric Soil Present?	Yes  No
appears to be a fill secriterion for hydric s	soil is met a						Hydric Soil Present?	Yes  No
Depth (inches): NA emarks: I appears to be a fill se criterion for hydric se  /DROLOGY etland Hydrology Indi	cators:	t this poin	ıt.					Yes No No
**	cators: Im of one is r	required; ch	eck all that apply)  Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh	na (B13) c Plants (E ulfide Odo izospheres Reduced Reduction Surface (C.)	314)  Ir (C1)  Is on Living F  Iron (C4)  In in Tilled Sc  T)		Secondary Indica Surface Soil Drainage Pa  Dry Season Crayfish Bur Saturation V Stunted or S	ators (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rrows (C8) //sible on Aerial Imagery (C9) Stressed Plants (D1) Position (D2)
Depth (inches): NA emarks: il appears to be a fill se criterion for hydric se	cators: Im of one is r	required; ch	neck all that apply)  Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expl.	na (B13) c Plants (E ulfide Odo izospheres Reduced Reductior Surface (C: fell Data (E ain in Rem	314)  Ir (C1)  Is on Living F  Iron (C4)  In in Tilled Sc  T)	bils (C6)	Secondary Indica Surface Soil Drainage Pa  Dry Season Crayfish Bur Saturation V Stunted or S  Geomorphic	ators (minimum of two required) Cracks (B6) Itterns (B10) Water Table (C2) Trows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) Position (D2) Test (D5)
Depth (inches): NA emarks: il appears to be a fill se criterion for hydric se	cators: um of one is r  2) Aerial Imager oncave Surfac  Yes Yes  Yes  (stream ga	required; ch	eck all that apply)  Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expl.	na (B13) c Plants (E ulfide Odo izospheres Reduced Reductior Surface (C: lell Data (E ain in Rem ches): ches): photos,	and the second s	Wetlenspections	Secondary Indication  Surface Soil  Drainage Pa  Dry Season  Crayfish Bur  Saturation V  Stunted or S  Geomorphic  FAC-Neutral	ators (minimum of two required) Cracks (B6) Itterns (B10) Water Table (C2) Trows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) Position (D2) Test (D5)

Project/Site: IH 94 (N-S Freeway)		Cit	y/County:	Milwaukee Co	ounty	Sar	mpling Date:	19-Aug-14
Applicant/Owner: Wisconsin Department of	of Transportation			State:	WI	Sampling Poi	int:	SP-46
Investigator(s): Ron Londre, Geof Parish			Section, Towr	nship, Range:	s 30 T	<u>5N</u> F	R 22E	
Landform (hillslope, terrace, etc.): Toeslo	pe/ditch			Local relief (c	concave, convex, no	one): conca	ve	
Slope: 6.0% 3.4 • Lat.:			Long.:				Datum:	
Soil Map Unit Name: Blount silt loam (	(RIA). Not hydric				WWI c	lassification:	None	
Are climatic/hydrologic conditions on the si		ear? Yes	● No ○	(If no, ex	kplain in Remarks.)	_	VOLIC	
		ignificantly dist	turbed?	Are "No	ormal Circumstance	es" present?	Yes (	● No ○
		aturally proble			ded, explain any ar		narks )	
SUMMARY OF FINDINGS - Att							ŕ	s, etc.
Hydrophytic Vegetation Present?	Yes   No		<u> </u>		•	-		<u> </u>
3 1 3 0	Yes O No •			e Sampled A				
Wetland Hydrology Present?	Yes ○ No •		With	in a Wetland	d? Yes○N	lo 🖲		
Remarks:								
This point is located in a roadside so Two of three parameters have not be VEGETATION - Use scien	peen met at this point.		Dominant - Species?	:	and.	ct worksheel	<b>.</b>	
Tree Stratum (Plot size: 10' x 200'	)	% Cover	Cover	Status	Number of Domi		Li.	
1		0	0.0%		That are OBL, FA		_	2 (A)
2		0	0.0%		Total Number of	: Dominant	_	
3			0.0%	- —	Species Across A		_	3 (B)
4 5.		0	0.0%		Percent of don	minant Sneci	ine	
J		0 0	= Total Cove		That Are OBL,			6.7% (A/B)
Sapling/Shrub Stratum (Plot size: 10')	x 70' )		= 10(a) 000	ei	Prevalence Ind	ev worksher		
1.		0	0.0%			Cover of:	Multiply b	ov:
2.		0	0.0%		OBL species	0	x 1 =	0
3.		0	0.0%		FACW species		x 2 =	70
4.		0	0.0%		FAC species	40	x 3 =	120
5.		0	0.0%		FACU species	83	x 4 =	332
Herb Stratum (Plot size: 5' r	)	0	= Total Cove	er	UPL species	0	x 5 =	0
1 Solidago canadensis		60	<b>✓</b> 38.0%	FACU	Column Total	ls: 158	(A)	522 (B)
2. Symphyotrichum novae-angliae			<b>✓</b> 19.0%	FACW	Provalenci	e Index = B/	- /A = 3	3.304
3. Geum canadense			<b>✓</b> 19.0%	FAC				1.304
4. Fragaria virginiana		20	12.7%	FACU	Hydrophytic Ve	-		
5. Poa pratensis		10	6.3%	FAC	l_ '	•	phytic Veget	tation
6. Phalaris arundinacea		5	3.2%	FACW		nce Test is > nce Index is :		
7. Achillea millefolium		3	1.9%	<u>FACU</u>				ovide supporting
8. 9.			0.0%				tations = (Pro a separate sh	
10.		0	0.0%		☐ Problemation	c Hydrophyti	ic Vegetation	ı <sup>1</sup> (Explain)
		150	0.0%		<sup>1</sup> Indicators of	f hydric soil a	and wetland	hydrology must
Woody Vine Stratum (Plot size: 10' x 2	200' )	158	= Total Cove	er	be present, un			
1.		0	0.0%		ļ			
2.		0	0.0%		Hydrophytic Vegetation			
			= Total Cove	er	Present?	Yes 💿	No O	
Remarks: (Include photo numbers h	nere or on a separate sh	neet.)						
The criterion for hydrophytic vegeta	ition is met at this point							

Profile Description: (Describe to the do Depth Matrix	eptn neeaea		tne inai dox Feati		ontirm the	absence of indicators.)	
(inches) Color (moist) %	Colo	or (moist)	%	Туре	Loc <sup>2</sup>	Texture	Remarks
0-6 10YR 3/1 10	0					Silty Clay Loam	
6-20 10YR 5/3 70	) 10YF	R 6/1	20	D	М	Silty Clay Loam	
	10YF	R 5/2	5	D	М		
	10YF	R 5/6	5	С	M		
pe: C=Concentration, D=Depletion, RM=	Reduced Mat	rix, CS=Covere	ed or Coat	ed Sand Gra	ains.	Éocation: PL=Pore Lining. M	=Matrix.
ydric Soil Indicators:						Indicators for Problem	natic Hydric Soils <sup>3</sup> :
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Muck Mineral (S1) 5 cm Mucky Peat or Peat (S3)  strictive Layer (if observed): Type: None Depth (inches): NA emarks: I appears to be a roadside fill and the criterion for hydric soil is not met a			(S5) ix (S6) Mineral (I Matrix (F3) urface (F6	F1) (2) (F7)		Coast Prairie Redox ( Dark Surface (S7) Iron Manganese Mass Very Shallow Dark Su Other (Explain in Rem  Indicators of hydrophy wetland hydrology r unless disturbed or  Hydric Soil Present?	ses (F12) rface (TF12) narks) tic vegetation and must be present,
'DROLOGY etland Hydrology Indicators:							
imary Indicators (minimum of one is requ	ired; check all	that apply)				Secondary Indicator	rs (minimum of two required)
Surface Water (A1)		Water-Stain	ed Leaves	(B9)		Surface Soil Cra	acks (B6)
High Water Table (A2)	L	☐ Aquatic Fau				☐ Drainage Patter	
Saturation (A3)	L					☐ Dry Season Wa	
Water Marks (B1)	L	Hydrogen S				Crayfish Burrow	` '
Sediment Deposits (B2)		Oxidized Rh			Roots (C3)		ole on Aerial Imagery (C9) ssed Plants (D1)
Drift Deposits (B3) Algal Mat or Crust (B4)		Recent Iron		` '	oile (C4)	Geomorphic Po	, ,
Iron Deposits (B5)		Thin Muck S			0113 (00)	FAC-Neutral Te	
Inundation Visible on Aerial Imagery (E	.7) L	Gauge or W	`	′		The Nedital Te	31 (D3)
Sparsely Vegetated Concave Surface (E		Other (Expl					
eld Observations:							
rface Water Present? Yes	No 💿	Depth (inc	ches):		_		
ater Table Present? Yes O	No •	Depth (inc	ches):		_ [		(-)
ituration Present? Includes capillary fringe)  Yes	No •	Depth (inc	ches):		Wet	and Hydrology Present?	Yes ○ No •
escribe Recorded Data (stream gaug	e, monitorin	g well, aerial	photos,	previous i	nspections	s), if available:	
revious delineation, DNR WWI map,	NRCS Soils r	nap, Topogra	aphic ma	p, Aerial p	hotos		
emarks:							
ased on a WETS analysis, anteceden ne criterion for hydrology is met at th		n was withir	n a norma	al range.			

Project/Site: IH 94 (N-S Freeway)	Cit	ty/County:	Milwaukee C	ounty	Sampling Date:	19-Aug-14
Applicant/Owner: Wisconsin Department of Transportation			State:	Sa	ampling Point:	SP-47
Investigator(s): Ron Londre, Geof Parish		Section, Towr	nship, Range:	s 30 T 5	N R 22E	
Landform (hillslope, terrace, etc.): Toeslope/ditch			Local relief (c	oncave, convex, none	e): concave	
Slope: 3.0% 1.7 • Lat.:		Long.:			Datum:	
Soil Map Unit Name: Ashkum silty clay loam (AsA), All hyc	Iric			WWI class	sification: None	
Are climatic/hydrologic conditions on the site typical for this time of	., (	● No ○	(If no. ex	plain in Remarks.)	- None	
Are Vegetation ☐ , Soil ✓ , or Hydrology ☐	significantly dis		•	ormal Circumstances"	nresent? Yes	No O
	0				present.	
Are Vegetation  , Soil , or Hydrology	naturally proble	emauc?	(If nee	ded, explain any answ	vers in Remarks.)	
SUMMARY OF FINDINGS - Attach site map sh	owing sam	pling poir	nt locatio	ns, transects, i	mportant features	, etc.
Hydrophytic Vegetation Present? Yes   No						
Hydric Soil Present? Yes   No			e Sampled A n a Wetland		$\cap$	
Wetland Hydrology Present? Yes   No		- Vicin	n a Wedane	·· res · · · no		
Remarks:						
This point is located in a roadside ditch.						
All three parameters have been met at this point. Thus,	this point is lo	cated in a w	etland.			
<b>VEGETATION -</b> Use scientific names of p	lants	Dominant				
Osc scientific flames of p		- Species?		Daminana Task		
Tree Stratum (Plot size: 6' x 450' )	Absolute % Cover	Rel.Strat. Cover	Indicator Status	Dominance Test		
1	0	0.0%		<ul> <li>Number of Domina That are OBL, FAC\</li> </ul>		1 (A)
2.	0	0.0%		Tatal Novales of D		
3		0.0%		Total Number of Do Species Across All S		1 (B)
4		0.0%		December of december	t Consider	_
5		0.0%		Percent of doming That Are OBL, FA		0.0% (A/B)
Sapling/Shrub Stratum (Plot size: 6' x 120' )		= Total Cove	er			<u> </u>
1.	0	0.0%		Prevalence Index Total % Co		٧٠
2.		0.0%		OBL species	5 x 1 =	5 5
3.	0	0.0%		FACW species	90 x 2 =	180
4.	0	0.0%		FAC species	0 x 3 =	0
5		0.0%		FACU species	15 x 4 =	60
Herb Stratum (Plot size: 6' x 14' )		= Total Cove	er	UPL species	0 x 5 =	0
1. Agrostis gigantea	75	<b>✓</b> 68.2%	FACW	Column Totals:	110 (A)	245 (B)
2. Phalaris arundinacea	15	13.6%	FACW	Prevalence I	ndex = B/A = 2	.227
3. Festuca rubra	10	9.1%	FACU		etation Indicators:	
4. Elymus repens	5	4.5%	FACU		for Hydrophytic Veget	ation
5. Symphyotrichum puniceum 6.	5	4.5%	OBL	l	e Test is > 50%	
7.		0.0%		✓ 3 - Prevalence	e Index is ≤3.0 ¹	
8.		0.0%		4 - Morpholog	ical Adaptations <sup>1</sup> (Pro	vide supporting
9.		0.0%		data in Remai	rks or on a separate she	eet)
10.	0	0.0%			lydrophytic Vegetation	
Weady Vine Stratum (Diet size: 5' v 450'	110	= Total Cove	er		ydric soil and wetland l s disturbed or problem	
Woody Vine Stratum (Plot size: 6' x 450' )		0.00/		be present, unles	s alstarbed of problem	uuc.
12.	0 0	0.0%		Hydrophytic		
<u>-</u>	0	= Total Cove	er	Vegetation Present?	Yes   No	
		10101 0000	<u></u>			
Remarks: (Include photo numbers here or on a separate	e sheet.)					
This point is located in a wet meadow plant community.	,					
The criterion for hydrophytic vegetation is met at this po						

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Description: (Describe to the Depth Matrix	aeptn needed		tne inai dox Feati		ntirm the	absence of indicators.)	
Бери	% Col	or (moist)	%	Type	Loc <sup>2</sup>	Texture	Remarks
0-9 10YR 3/2	95 7.5Y	′R 5/6	5	С	M,PL	Silty Clay Loam	
9-20 10YR 5/3	80 10Y	R 5/2	10	D	М	Silty Clay Loam	
	10Y	R 5/1	5	D	М		
	7.5Y	′R 5/6	5	С	M		
			=				
ype: C=Concentration, D=Depletion, RN	M=Reduced Ma	trix, CS=Covere	ed or Coat	ed Sand Gra	nins.	Rocation: PL=Pore Lining. M=	=Matrix.
ydric Soil Indicators:		,				Indicators for Problem	atic Hydric Soils <sup>3</sup> :
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Muck Mineral (S1) 5 cm Mucky Peat or Peat (S3)  **Strictive Layer (if observed): Type: None Depth (inches): NA  **Emarks: I appears to be a roadside fill and a criterion for hydric soil is met at		Depleted Dark	(S5) ix (S6) Mineral ( Matrix (F3) urface (F6  Surface	F1) (2) (F7)		Coast Prairie Redox (A Dark Surface (S7) Iron Manganese Mass Very Shallow Dark Sur Other (Explain in Rem  Indicators of hydrophyt wetland hydrology m unless disturbed or  Hydric Soil Present?	es (F12)  rface (TF12)  arks)  ic vegetation and hust be present,
DROLOGY etland Hydrology Indicators:							
imary Indicators (minimum of one is rec	quired; check a	ll that apply)				Secondary Indicator	s (minimum of two required)
Surface Water (A1)		Water-Stain	ed Leaves	s (B9)		Surface Soil Cra	cks (B6)
High Water Table (A2)		Aquatic Fau	na (B13)			Drainage Patteri	ns (B10)
Saturation (A3)		True Aquati				Dry Season Wat	
☐ Water Marks (B1)						Crayfish Burrow	, ,
Sediment Deposits (B2)	Ĺ	Oxidized Rh			Roots (C3)		le on Aerial Imagery (C9)
Drift Deposits (B3)		Presence of	Reduced	Iron (C4)		Stunted or Stres	` '
☐ Algal Mat or Crust (B4)	L	Recent Iron	Reduction	n in Tilled So	oils (C6)	✓ Geomorphic Pos	
Iron Deposits (B5)	L	Thin Muck S	Surface (C	7)		✓ FAC-Neutral Tes	st (D5)
Inundation Visible on Aerial Imagery	(B7)	Gauge or W	'ell Data (l	D9)			
Sparsely Vegetated Concave Surface	(B8)	Other (Expla	ain in Rem	narks)			
eld Observations:							
urface Water Present? Yes	No 💿	Depth (inc	ches):		_		
/ater Table Present? Yes •	No O	Depth (inc	hes):	6	_		v
aturation Present? ncludes capillary fringe)	No O	Depth (inc	ches):	0	- Wet	and Hydrology Present?	Yes • No O
escribe Recorded Data (stream gau	ge, monitorir	ng well, aerial	photos,	previous in	nspections	s), if available:	
revious delineation, DNR WWI map	, NRCS Soils	map, Topogra	aphic ma	p, Aerial p	hotos		
emarks:							
ased on a WETS analysis, antecede ne criterion for hydrology is met at		on was within	a norma	aı range.			

Project/Site: IH 94 (N-S Freeway)		Cit	ty/County:	Milwaukee Co	ounty		Sampling Date:	19-Aug-14
Applicant/Owner: Wisconsin Department	of Transportation			State:	WI	Sampling I	Point:	SP-48
Investigator(s): Ron Londre, Geof Parish			Section, Towr	nship, Range:	S 30 T	5N	R 22E	
Landform (hillslope, terrace, etc.): Summ	it/mound			Local relief (c	oncave, convex, n	one): con	vex	
Slope: 2.0% 1.1 • Lat.:			Long.:				Datum:	
Soil Map Unit Name: _Ashkum silty cla	y Ioam (AsA) All hydric		~-		WWI	classification	= = ==================================	
Are climatic/hydrologic conditions on the si		., (	● No ○	(If no, ex	plain in Remarks.)		· LZIX	
	, , , , , , , , , , , , , , , , , , ,	gnificantly dis	turbed?	Are "No	rmal Circumstance	es" present?	Yes	No ○
		aturally proble			ded, explain any a			
							•	
SUMMARY OF FINDINGS - At		ving sam	Jiing poir	1t location	ns, transects	, import	ant reature	es, etc. 
Hydrophytic Vegetation Present?	Yes O No O		Ts the	e Sampled A	rea			
Hydric Soil Present?	Yes O No O			in a Wetland		No 💿		
Wetland Hydrology Present?	Yes ○ No ●							
Remarks: Construction has altered this area w None of the parameters have been  VEGETATION - Use scien	met at this point. Thus,	this point is	Dominant - Species?	an upland.	Dominance Te	est workshi	eet:	
Tree Stratum (Plot size: 30' r	)	% Cover	Cover	Status	Number of Dom			
1		0	0.0%		That are OBL, F			0 (A)
2		0	0.0%		Total Number o	f Dominant		
3		0	0.0%		Species Across		-	2 (B)
4. 5.			0.0%		Percent of do	minant Sne	acias	
J		0 0	= Total Cove	- — — — — — — — — — — — — — — — — — — —	That Are OBL			0.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15'	r )		= 10(a) 50	51	Prevalence Inc	lev workst	neet:	
1.		0	0.0%			Cover of:	Multiply	bv:
2.		0	0.0%		OBL species	0	1 2	0
3.		0	0.0%		FACW specie	es 5	x 2 =	10
4.		0	0.0%		FAC species	0	x 3 =	0
5.		0	0.0%		FACU species	s 115	5 x 4 =	460
Herb Stratum (Plot size: 5' r	)	0	= Total Cove	er	UPL species	0	x 5 =	0
1. Festuca rubra		_70_	✓ 58.3%	FACU	Column Tota	ıls: 120	) (A)	470 (B)
2. Lolium multiflorum		40	<b>✓</b> 33.3%	FACU	Prevalenc	e Index =	R/A =	3.917
3. Cirsium arvense		5	4.2%	FACU	Hydrophytic Ve			
4. Phalaris arundinacea		5	4.2%	FACW		-	inuicators: drophytic Veg	etation
5.			0.0%		2 - Domina	•		etation
6. 7.			0.0%		3 - Prevale			
8.		0	0.0%					Provide supporting
9.		0	0.0%				n a separate s	
10.		0	0.0%		Problemati	c Hydroph	ytic Vegetatio	on <sup>1</sup> (Explain)
		120	= Total Cove	- — — or				d hydrology must
Woody Vine Stratum (Plot size: 30' r	)	120	_ Total Cove	51	be present, un	less distur	bed or proble	matic.
1			0.0%		I lead on a selecation			
2		0	0.0%		Hydrophytic Vegetation	<b></b> $\cap$	(	
			= Total Cove	er	Present?	Yes O	No 💿	
Remarks: (Include photo numbers I	'	•						
Vegetation is disturbed due to receive The criterion for hydrophytic vegeta			season gras	sses.				
The different for Hydrophytic vegete	morris not met at this p	Oli It.						

rofile Description: (Describe to t Depth Matrix	ine depth nee		t the indicator or co dox Features	onfirm the a	absence of indicators.)	
(inches) Color (moist)	%	Color (moist)	% Type	Loc <sup>2</sup>	Texture	Remarks
0-10 10YR 3/1	100		,		Silty Clay Loam	
10-24 10YR 3/2	100	<del></del>			Silty Clay Loam	
				<u> </u>		
	==			$\equiv$		
/pe: C=Concentration, D=Depletion	ı, RM=Reduced	Matrix, CS=Covere	ed or Coated Sand Gra	ains.	Location: PL=Pore Lining.	M=Matrix.
ydric Soil Indicators:  Histosol (A1)					Indicators for Proble	matic Hydric Soils <sup>3</sup> :
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surface (A1 Thick Dark Surface (A12) Sandy Muck Mineral (S1)	1)	Sandy Gleyed Sandy Redox Stripped Matr Loamy Mucky Loamy Gleyed Depleted Mat Redox Dark S Depleted Darl Redox Depres	(S5) ix (S6) Mineral (F1) d Matrix (F2) rix (F3) urface (F6) < Surface (F7)		Coast Prairie Redox Dark Surface (S7) Iron Manganese Ma Very Shallow Dark S Other (Explain in Re	emarks)  nytic vegetation and vegetation was be present,
5 cm Mucky Peat or Peat (S3) strictive Layer (if observed):				1	unless disturbed	or problematic.
					HVaric Soil Present?	
il is disturbed due to recent cor					Hydric Soil Present?	Yes ○ No •
emarks: il is disturbed due to recent cor e criterion for hydric soil is not					nyaric Soil Present?	Tes O NO @
emarks:  il is disturbed due to recent cor e criterion for hydric soil is not  YDROLOGY					nydric Soil Present?	Tes ○ NO ◎
emarks:  il is disturbed due to recent cor e criterion for hydric soil is not  YDROLOGY  etland Hydrology Indicators:	met at this po	oint.				ors (minimum of two required)
emarks: il is disturbed due to recent cor	s required; chea	ck all that apply)  Water-Stain  Aquatic Fau  True Aquati  Hydrogen S  Oxidized Rh  Presence of  Recent Iron  Thin Muck S  Gauge or W	ed Leaves (B9) na (B13) c Plants (B14) ulfide Odor (C1) ilzospheres on Living (Freduced Iron (C4) Reduction in Tilled Sourface (C7) fell Data (D9) ain in Remarks)		Secondary Indicat  Surface Soil C  Drainage Patt  Dry Season W  Crayfish Burro  Saturation Vis	ors (minimum of two required) racks (B6) erns (B10) /ater Table (C2) ows (C8) ible on Aerial Imagery (C9) ressed Plants (D1) Position (D2)
emarks: il is disturbed due to recent cone criterion for hydric soil is not  YDROLOGY  Yetland Hydrology Indicators: rimary Indicators (minimum of one is  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imag  Sparsely Vegetated Concave Surf  Yes  Yes  Yes  Yes  Yes  Aturation Present?  Yes	s required; cher	ck all that apply)  Water-Stain  Aquatic Fau  True Aquati  Hydrogen S  Oxidized Rh  Presence of  Recent Iron  Thin Muck S  Gauge or W	na (B13) c Plants (B14) ulfide Odor (C1) ilzospheres on Living (Freduced Iron (C4) Reduced Iron in Tilled Sourface (C7) (ell Data (D9) ain in Remarks) ches):	oils (C6)	Secondary Indicat  Surface Soil C  Drainage Patt  Dry Season W  Crayfish Burro  Saturation Vis  Stunted or Str	ors (minimum of two required) racks (B6) erns (B10) /ater Table (C2) ows (C8) ible on Aerial Imagery (C9) ressed Plants (D1) Position (D2)
emarks: il is disturbed due to recent cone criterion for hydric soil is not  YDROLOGY  Vetland Hydrology Indicators: rimary Indicators (minimum of one is  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imag  Sparsely Vegetated Concave Surf  Vetland Observations:  Vetland Observations:  Vetland Observation Present?  Veslaturation Present?	gery (B7) Face (B8)  No  No  gauge, monit	ck all that apply)  Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of Recent Iror Thin Muck S Gauge or W Other (Expl	na (B13) c Plants (B14) ulfide Odor (C1) ulfide Odor (C1) ulfidespheres on Living (C1) Reduced Iron (C4) Reduction in Tilled Sourface (C7) (ell Data (D9) ain in Remarks)  ches): ches): photos, previous i	wetla	Secondary Indicat  Surface Soil C  Drainage Patt  Dry Season W  Crayfish Burro  Saturation Vis  Stunted or Str  Geomorphic F  FAC-Neutral T	ors (minimum of two required) racks (B6) erns (B10) /ater Table (C2) ows (C8) ible on Aerial Imagery (C9) ressed Plants (D1) Position (D2) Test (D5)
emarks: il is disturbed due to recent core e criterion for hydric soil is not  YDROLOGY  etland Hydrology Indicators: imary Indicators (minimum of one is  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imag  Sparsely Vegetated Concave Surf  eld Observations: urface Water Present? yes of atter Table Present? yes of	gery (B7) Face (B8)  No  No  gauge, monit	ck all that apply)  Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of Recent Iror Thin Muck S Gauge or W Other (Expl	na (B13) c Plants (B14) ulfide Odor (C1) ulfide Odor (C1) ulfidespheres on Living (C1) Reduced Iron (C4) Reduction in Tilled Sourface (C7) (ell Data (D9) ain in Remarks)  ches): ches): photos, previous i	wetla	Secondary Indicat  Surface Soil C  Drainage Patt  Dry Season W  Crayfish Burro  Saturation Vis  Stunted or Str  Geomorphic F  FAC-Neutral T	ors (minimum of two required) racks (B6) erns (B10) /ater Table (C2) ows (C8) ible on Aerial Imagery (C9) ressed Plants (D1) Position (D2) Test (D5)

			ty/County:	Milwaukee C	ounty	Sampling Date:	19-Aug-14
oplicant/Owner: Wisconsin Department of	Transportation			State:	Sar	mpling Point:	SP-49
vestigator(s): Ron Londre, Geof Parish			Section, Towr	nship, Range:	s 30 T 5N	R 22E	
ndform (hillslope, terrace, etc.): Footslop	e			Local relief (c	oncave, convex, none)	: concave	_
ope: 2.0% 1.1 • Lat.:			Long.:				
	(Man) Not budsi				\M\M\\ classi	fication: E2K	
		., (	● No ○	(If no. ex	plain in Remarks.)	ilication. <u>EZK</u>	
e climatic/hydrologic conditions on the site e Vegetation	r Hydrology	significantly dis		•		resent? Yes	● No ○
	, ,, ,,	0			ormal Circumstances" p	r Coorne.	0 110 0
e Vegetation 🔲 , Soil 📙 , o	r Hydrology	naturally proble	matic?	(If nee	ded, explain any answe	ers in Remarks.)	
JMMARY OF FINDINGS - Atta	ch site map s	howing samp	pling poir	nt locatio	ns, transects, in	nportant feature	s, etc.
ydrophytic Vegetation Present? Y	'es ● No ○						
ydric Soil Present? Y	'es ● No ○			e Sampled A	irea		
,	'es ● No ○		Withi	n a weuanc	l? Yes • No		
Remarks:							
All three parameters have been met a	it this point. Thus	, this point is loc	cated in a w	etland.			
Wetland ID: W10-1							
VEGETATION - Use scienti	fic names of r	lants	Dominant				
VEGETATION - Ose scienti	——————————————————————————————————————		- Species?		B T		
Tree Stratum (Plot size: 30' r	)	Absolute % Cover	Rel.Strat. Cover	Indicator Status	Dominance Test w		
	_	0	0.0%		<ul> <li>Number of Dominant That are OBL, FACW</li> </ul>		1 (A)
2.		0	0.0%			_	
3.		0	0.0%		Total Number of Dor Species Across All St		1 (B)
4		0	0.0%			_	
5			0.0%		Percent of domina That Are OBL, FAC		00.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15' r	,		= Total Cove	er			
1.		0	0.0%		Prevalence Index v		la
2.			0.0%		Total % Cov OBL species	er of: Multiply $0 \times 1 =$	0
3.			0.0%		FACW species	100 x 2 =	200
4.		0	0.0%		FAC species	0 x 3 =	0
5.		0	0.0%		FACU species	3 x 4 =	12
Herb Stratum (Plot size: 5' r	)	0	= Total Cove	er	UPL species	0 x 5 =	0
1. Phalaris arundinacea	='	100	<b>✓</b> 97.1%	FACW	Column Totals:	103 (A)	212 (B)
2. Cirsium arvense		3	2.9%	FACU	Prevalence In	dov P/A	2.058
3.		0	0.0%			_	2.030
1			0.0%		Hydrophytic Veget		
4		0	0.070		A Danid Tank 4	I I	
5.			0.0%		l — ·	for Hydrophytic Vege	tation
5. 6.				$\equiv$	<b>✓</b> 2 - Dominance	Test is > 50%	tation
5. 6. 7.		0 0	0.0%		2 - Dominance 3 - Prevalence	Test is > 50% Index is ≤3.0 <sup>1</sup>	
5. 6. 7. 8.		0 0 0	0.0% 0.0% 0.0%		2 - Dominance 3 - Prevalence 4 - Morphologic	Test is > 50%	ovide supportin
5. 6. 7. 8. 9.		0 0 0	0.0% 0.0% 0.0% 0.0%		2 - Dominance 3 - Prevalence 4 - Morphologic data in Remark	Test is > 50%  Index is $\leq$ 3.0 $^{1}$ cal Adaptations $^{1}$ (Pi	ovide supportin neet)
5. 6. 7. 8. 9.		0 0 0 0 0	0.0% 0.0% 0.0% 0.0% 0.0% 0.0%		2 - Dominance 3 - Prevalence 4 - Morphologic data in Remark Problematic Hy  1 Indicators of hyd	Test is > 50%  Index is ≤3.0 <sup>1</sup> cal Adaptations <sup>1</sup> (Pressor on a separate short on the state of the state	rovide supportin neet) n <sup>1</sup> (Explain) hydrology must
5. 6. 7. 8. 9.	)	0 0 0	0.0% 0.0% 0.0% 0.0%	er	2 - Dominance 3 - Prevalence 4 - Morphologic data in Remark Problematic Hy  1 Indicators of hyd	Test is > 50%  Index is ≤3.0 <sup>1</sup> cal Adaptations <sup>1</sup> (Processor on a separate short on the state of the sta	rovide supporting neet) n <sup>1</sup> (Explain) hydrology must
5. 6. 7. 8. 9. 10.  Woody Vine Stratum (Plot size: 30' r	)	0 0 0 0 0	0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	er	2 - Dominance 3 - Prevalence 4 - Morphologic data in Remark Problematic Hy  Indicators of hyde	Test is > 50%  Index is ≤3.0 <sup>1</sup> cal Adaptations <sup>1</sup> (Pressor on a separate short on the state of the state	rovide supporting neet) n <sup>1</sup> (Explain) hydrology must
5. 6. 7. 8. 9. 10. Woody Vine Stratum (Plot size: 30' r	)	0 0 0 0 0 0	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% Total Cove		2 - Dominance 3 - Prevalence 4 - Morphologic data in Remark Problematic Hy Indicators of hyde present, unless	Test is > 50%  Index is ≤3.0 <sup>1</sup> cal Adaptations <sup>1</sup> (Pressor on a separate short on the state of the state	rovide supporting neet) n <sup>1</sup> (Explain) hydrology must

rofile Description Depth	ı	Matrix		R	edox Feat	ures			
	olor (m	ioist)	%	Color (moist)	%	Туре	Loc2	Texture	Remarks
0-24 10	OYR	2/1	100					Muck	
24-26 10	OYR	3/1	100					Peaty Muck	
26-28 10	OYR	6/1	70	7.5YR 5/6	30	С	М	Fine Sandy Loam	
		_	_			_			
		-Depletion,	RM=Reduc	ed Matrix, CS=Cove	red or Coat	ed Sand Gra	nins.	Eocation: PL=Pore Lining.	M=Matrix.
ydric Soil Indica  Histosol (A1)	itors:			Sandy Gleye				Indicators for Proble	ematic Hydric Soils $^3$ :
Histic Epipedon Black Histic (A3) Hydrogen Sulfid Stratified Layers 2 cm Muck (A10) Depleted Below Thick Dark Surfa Sandy Muck Mir 5 cm Mucky Pea	) de (A4) s (A5) O) Dark Su face (A12 neral (S1	2)	)	Sandy Redo Stripped Ma Loamy Muc Loamy Gley Depleted M Redox Dark Depleted Da Redox Depr	trix (S6)  ky Mineral ( ed Matrix (F atrix (F3)  Surface (F6 ark Surface	52) 5) (F7)		Coast Prairie Redox Dark Surface (S7) Iron Manganese Ma Very Shallow Dark S Other (Explain in Re	esses (F12) Surface (TF12) emarks)  nytic vegetation and y must be present,
		oil is met a	at this poir	nt.			_	Hydric Soil Present?	Yes • No O
Depth (inches): emarks: e criterion for hy		oil is met a	at this poir	nt.				Hydric Soil Present?	Yes  No
Depth (inches): emarks: e criterion for hy	ydric sa		at this poir	nt.				Hydric Soil Present?	Yes No O
Depth (inches): emarks: e criterion for hy  YDROLOGY etland Hydrolog imary Indicators (re	ydric sc y Indic minimun	ators:		neck all that apply)					Yes No No
-	y Indic minimum (A1) ole (A2) sits (B2) B3) ust (B4) B5) ole on A6	eators:  n of one is i	required; cf	neck all that apply)  Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized I Presence Recent Iru Thin Muck	of Reduced	B14) or (C1) s on Living F Iron (C4) n in Tilled Sc 7) D9)		Secondary Indicat  Surface Soil C  Drainage Patt  Dry Season W  Crayfish Burro  Saturation Vis	cors (minimum of two required) Cracks (B6) Errns (B10) Vater Table (C2) Crows (C8) Sible on Aerial Imagery (C9) Cressed Plants (D1) Cosition (D2)
Depth (inches):  demarks: de criterion for hy  YDROLOGY  Tetland Hydrolog demary Indicators (r  Surface Water (and Hydrolog) demary Indicators (r  High Water Tab  Saturation (A3)  Water Marks (B)  Sediment Deposits (B)  Algal Mat or Cru  Iron Deposits (B)  Inundation Visit  Sparsely Vegeta  Tetled Observations defautration Present deturation Present?	ydric sc yy Indic minimun (A1) ole (A2) sits (B2) B3) ust (B4) B5) ole on Ae ated Con	eators:  n of one is i	required; ch	meck all that apply)  Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized I Presence Recent Ira Gauge or Other (Ex	auna (B13) atic Plants (I Sulfide Odo Rhizosphere of Reduced on Reductio a Surface (C Well Data ( bolain in Rem unches):	B14) or (C1) s on Living F Iron (C4) n in Tilled Sc 7) D9)	oils (C6)	Secondary Indicat  Surface Soil C  Drainage Patt  Dry Season W  Crayfish Burro  Saturation Vis  Stunted or Sti  Geomorphic F	cors (minimum of two required) Cracks (B6) Errns (B10) Vater Table (C2) Crows (C8) Sible on Aerial Imagery (C9) Cressed Plants (D1) Cosition (D2)
Depth (inches): emarks: e criterion for hy  YDROLOGY  etland Hydrolog imary Indicators (r    Surface Water (   High Water Tab   Saturation (A3)   Water Marks (B   Sediment Deposits (E   Algal Mat or Cru   Iron Deposits (E   Inundation Visits   Sparsely Vegeta  eld Observations urface Water Prese fater Table Present atturation Present? ricludes capillary fri escribe Recorded	ydric scool yydric scool yy Indice minimun (A1) sits (B2) sits (B2) sits (B4) sits (B4	erial Imagel ncave Surface Yes C Yes C (stream g.	required; ch	meck all that apply)  Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized I Presence Recent Ira Gauge or Other (Ex Depth (i	auna (B13) atic Plants (I Sulfide Odo Rhizosphere of Reduced on Reductio Surface (C Well Data ( oblain in Rem nches): nches): al photos,	B14) or (C1) s on Living F Iron (C4) n in Tilled Sc 7) D9) narks)	wetl	Secondary Indicat  Surface Soil C  Drainage Patt  Dry Season W  Crayfish Burro  Saturation Vis  Stunted or St  Geomorphic F  FAC-Neutral T	cors (minimum of two required) Cracks (B6) Perns (B10) Vater Table (C2) Dows (C8) Sible on Aerial Imagery (C9) Pressed Plants (D1) Position (D2) Fest (D5)
Depth (inches): emarks: e criterion for hy  TDROLOGY  etland Hydrolog imary Indicators (r  High Water Tab  Saturation (A3)  Water Marks (B  Sediment Deposits (E  Algal Mat or Cru  Iron Deposits (E  Inundation Visits  Sparsely Vegeta  eld Observations inface Water Prese ater Table Present ituration Present? includes capillary fri escribe Recorded	ydric scool yydric scool yy Indice minimun (A1) sits (B2) sits (B2) sits (B4) sits (B4	erial Imagel ncave Surface Yes C Yes C (stream g.	required; ch	neck all that apply)  Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized I Presence Recent Iru Gauge or Other (Ex	auna (B13) atic Plants (I Sulfide Odo Rhizosphere of Reduced on Reductio Surface (C Well Data ( oblain in Rem nches): nches): al photos,	B14) or (C1) s on Living F Iron (C4) n in Tilled Sc 7) D9) narks)	wetl	Secondary Indicat  Surface Soil C  Drainage Patt  Dry Season W  Crayfish Burro  Saturation Vis  Stunted or St  Geomorphic F  FAC-Neutral T	cors (minimum of two required) Cracks (B6) Everns (B10) Vater Table (C2) Cows (C8) Cobible on Aerial Imagery (C9) Cressed Plants (D1) Cosition (D2) Cest (D5)

Project/Site: _IH 94 (N-S Freeway)	City/Coun	ty: Milwaukee C	ounty	Sampling Date: 19-Aug-14
Applicant/Owner: Wisconsin Department of Transportation		State:	WI Samp	ling Point: SP-50
Investigator(s): Ron Londre, Geof Parish	Section,	Township, Range:	s 30 T 5N	R 22E
Landform (hillslope, terrace, etc.): Toeslope/ditch		Local relief (c	concave, convex, none):	concave
Slope: 6.0% 3.4 • Lat.:	Lor	ng.:		Datum:
Soil Map Unit Name: Morley silt loam (MzdB), Not hydric			WWI classifica	ation: None
Are climatic/hydrologic conditions on the site typical for this time of	<sub>f vear?</sub> Yes • No	(If no, ex	kplain in Remarks.)	None
Are Vegetation ✓ , Soil ✓ , or Hydrology	significantly disturbed?	' Are "No	ormal Circumstances" pres	sent? Yes   No
Are Vegetation , Soil , or Hydrology	naturally problematic?		ded, explain any answers	
SUMMARY OF FINDINGS - Attach site map she		,	, ,	•
Hydrophytic Vegetation Present? Yes No   No				
Hydric Soil Present? Yes No   No		Is the Sampled A		
Wetland Hydrology Present? Yes No   No		within a Wetland	1? Yes ○ No ●	
Remarks: This point is located in a recently constructed ditch and properties that the parameter have been met at this point  VEGETATION - Use scientific names of place.	t. Thus, this point is lants.	located in an upl	and.	
T (0) (1) (10) (20)		trat. Indicator	Dominance Test wor	ksheet:
Tree Stratum (Plot size: 10' x 285'	% Cover Cov		Number of Dominant Sp	
12.		.0%	That are OBL, FACW, or	r FAC: 0 (A)
3		.0%	Total Number of Domin Species Across All Strat	
4.		.0%	Species Across Air Strat	
5.	0 0	.0%	Percent of dominant That Are OBL, FACW	
0 10 10 10 10 10 10 10 10 10 10 10 10 10	= Tota	al Cover	That Are Obt, FACW	V, OI FAC.
Sapling/Shrub Stratum (Plot size: 10' x 70'		201	Prevalence Index wo	
12.		.0%	Total % Cover OBL species	1 3 3
3.		.0%	FACW species	0
4.		.0%	FAC species	$0 \times 3 = 0$
5.		.0%	FACU species	90 x 4 = 360
Herb Stratum (Plot size: 5' r )	0 = Tota	al Cover	UPL species	0 x 5 = 0
1. Lolium multiflorum	60 🗸 66	.7% FACU	Column Totals:	90 (A) 360 (B)
2. Festuca rubra		3.3% FACU	_	
3.		.0%	Prevalence Inde	<del></del>
4.	0 0	.0%	Hydrophytic Vegetati	
5.	0 0	.0%	I —	Hydrophytic Vegetation
6.	_ 0 □ 0	.0%	2 - Dominance Te	
7. 8.		.0%		uex is \( \sigma 5.0 \)  I Adaptations \( \frac{1}{2} \) (Provide supporting
9.		.0%		or on a separate sheet)
10.		.0%	Problematic Hydr	ophytic Vegetation $^1$ (Explain)
<u> </u>		.0%		c soil and wetland hydrology must
Woody Vine Stratum (Plot size: 10' x 285'	90 = 1018	ii Covei	be present, unless di	sturbed or problematic.
1,		.0%	Hadaa kata	
2		.0%	Hydrophytic Vegetation	O O
	= Tota	al Cover	Present? Yes	○ No •
	1 12		L	
Remarks: (Include photo numbers here or on a separate	,			
Some shoulder gravel is in the plot and has restricted very Vegetation is disturbed due to recent planting of cool sea				
The criterion for hydrophytic vegetation is not met at this				

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

•	Describe to 1  Matrix	the depth ne		: the indica lox Featur		nfirm the	absence of indicators.)	
Depth inches) Color	(moist)	%	Color (moist)	%	Type	Loc <sup>2</sup>	Texture	Remarks
0-4 10YR	2/1	100					Silty Clay Loam	
4-20 10YR	4/2	70					Silty Clay	
10YR	4/3	30						
			<del></del>					
			<del></del>					
pe: C=Concentration,	D_Doplotion		od Matrix, CS_Covere	d or Coatoo	d Sand Cra	ne .	Location: PL=Pore Lining. M	-Matrix
dric Soil Indicators	-	I, RIVI=REGUCE	ed Matrix, C3=C0Vere	ed of Coatec	a Sariu Gra	113.		
Histosol (A1)	•		Sandy Gleyed	Matrix (S4)			Indicators for Problem	-
Histic Epipedon (A2)			Sandy Redox				Coast Prairie Redox (	(A16)
Black Histic (A3)			Stripped Matri	ix (S6)			☐ Dark Surface (S7)	(=.=)
Hydrogen Sulfide (A			Loamy Mucky	Mineral (F1	)		☐ Iron Manganese Mas	
Stratified Layers (A5	)		Loamy Gleyed	Matrix (F2)	)		☐ Very Shallow Dark Su	
2 cm Muck (A10) Depleted Below Dark	. Cf (A1	11)	Depleted Matr	ix (F3)			Other (Explain in Rer	narks)
Thick Dark Surface (	`	11)	Redox Dark Si	urface (F6)				
Sandy Muck Mineral	,		Depleted Dark		7)		<sup>3</sup> Indicators of hydrophy	
5 cm Mucky Peat or	` ′		Redox Depres	sions (F8)			wetland hydrology unless disturbed o	
trictive Layer (if ol								<u> </u>
Type: None								
Depth (inches): NA							Hydric Soil Present?	Yes O No 💿
is disturbed due to criterion for hydric								
criterion for hydric	soil is not							
COROLOGY  Stland Hydrology In	c soil is not	met at this p	point.				Secondary Indicato	rs (minimum of two required)
criterion for hydric  DROLOGY  tland Hydrology In	c soil is not	met at this p	point.	ed Leaves (	B9)		Secondary Indicato	• • • • • • • • • • • • • • • • • • • •
DROLOGY  tland Hydrology In	dicators:	met at this p	eck all that apply)	,	B9)			acks (B6)
DROLOGY  Cland Hydrology In DIAMETER (MINISTER)  Surface Water (A1)	dicators:	met at this p	eck all that apply)  Water-Stain	na (B13)	,		Surface Soil Cr.	acks (B6) rns (B10)
Criterion for hydric DROLOGY Cland Hydrology In hary Indicators (mining Surface Water (A1) High Water Table (A Saturation (A3)	dicators:	met at this p	eck all that apply)  Water-Stain Aquatic Fau	na (B13) c Plants (B1	4)		Surface Soil Cr. Drainage Patte	acks (B6) rns (B10) ater Table (C2)
DROLOGY  Cland Hydrology In lary Indicators (minir Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1)	dicators: num of one is	met at this p	eck all that apply)  Water-Stain Aquatic Fau	na (B13) c Plants (B1 ulfide Odor	4) (C1)	oots (C3)	Surface Soil Cr. Drainage Patte Dry Season Wa	acks (B6) rns (B10) ater Table (C2)
Criterion for hydric  DROLOGY  Cland Hydrology In hary Indicators (minin Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits ( Drift Deposits (B3)	dicators: num of one is	met at this p	eck all that apply)  Water-Stain Aquatic Fau True Aquatic Hydrogen Stain Oxidized Rh Presence of	na (B13) c Plants (B1 ulfide Odor izospheres o Reduced Ir	4) (C1) on Living R on (C4)		Surface Soil Cr. Drainage Patte Dry Season Wa Crayfish Burrov Saturation Visit	acks (B6) rns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1)
Criterion for hydric  DROLOGY  Eland Hydrology In hary Indicators (minin Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits ( Drift Deposits (B3) Algal Mat or Crust (E	dicators: num of one is	met at this p	eck all that apply)  Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron	na (B13) c Plants (B1 ulfide Odor izospheres ( Reduced Ir Reduction i	4) (C1) on Living R on (C4) in Tilled So		Surface Soil Cr. Drainage Patte Dry Season Wa Crayfish Burrov Saturation Visit Stunted or Stre	acks (B6) rns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) bition (D2)
Criterion for hydric DROLOGY  Eland Hydrology In hary Indicators (minin Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5)	dicators: mum of one is  2)  B2)	met at this part of the state o	eck all that apply)  Water-Stain Aquatic Faul True Aquatic Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S	na (B13) c Plants (B1 ulfide Odor izospheres o Reduced Ir Reduction i Surface (C7)	4) (C1) on Living Ron (C4) in Tilled So		Surface Soil Cr. Drainage Patte Dry Season Wa Crayfish Burrov Saturation Visit	acks (B6) rns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) bition (D2)
Criterion for hydric CROLOGY  Cland Hydrology In Lary Indicators (mining Surface Water (A1) High Water Table (And Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B1) Iron Deposits (B5) Inundation Visible on	dicators: num of one is 2) B2) Aerial Imag	met at this part of the strength of the streng	eck all that apply)  Water-Stain Aquatic Faul True Aquatic Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S	na (B13) c Plants (B1 ulfide Odor izospheres o Reduced Ir Reduction i Surface (C7)	4) (C1) on Living R on (C4) in Tilled So		Surface Soil Cr. Drainage Patte Dry Season Wa Crayfish Burrov Saturation Visit Stunted or Stre	acks (B6) rns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) bition (D2)
DROLOGY  Iland Hydrology In Inary Indicators (minir Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Inundation Visible on	dicators: num of one is 2) B2) Aerial Imag	met at this part of the strength of the streng	eck all that apply)  Water-Stain Aquatic Faul True Aquatic Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S	na (B13) c Plants (B1 ulfide Odor izospheres o Reduced Ir Reduction i Surface (C7)	4) (C1) on Living R on (C4) in Tilled So		Surface Soil Cr. Drainage Patte Dry Season Wa Crayfish Burrov Saturation Visit Stunted or Stre	acks (B6) rns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) bition (D2)
Criterion for hydric DROLOGY  Cland Hydrology In hary Indicators (mining Surface Water (A1))  High Water Table (And Saturation (A3))  Water Marks (B1)  Sediment Deposits (B3)  Algal Mat or Crust (End Info Deposits (B5))  Inundation Visible of Sparsely Vegetated	dicators: mum of one is  2)  B2)  B4)  n Aerial Imag Concave Surf	met at this part of the second	eck all that apply)  Water-Stain Aquatic Faul True Aquatic Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S	na (B13) c Plants (B1 ulfide Odor izospheres o Reduced Ir Reduction i Surface (C7)	4) (C1) on Living R on (C4) in Tilled So		Surface Soil Cr. Drainage Patte Dry Season Wa Crayfish Burrov Saturation Visit Stunted or Stre	acks (B6) rns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) bition (D2)
DROLOGY  tland Hydrology In mary Indicators (minin Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Inundation Visible of Sparsely Vegetated (B1) Ind Observations:	dicators: num of one is 2) B2) Aerial Imag	met at this part of the second	eck all that apply)  Water-Stain Aquatic Fau True Aquatic Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) c Plants (B1 ulfide Odor izospheres o Reduced Ir Reduction i Surface (C7) ell Data (D9	4) (C1) on Living R on (C4) in Tilled So		Surface Soil Cr. Drainage Patte Dry Season Wa Crayfish Burrov Saturation Visit Stunted or Stre	acks (B6) rns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) bition (D2)
TDROLOGY  Itland Hydrology Inmary Indicators (minimary Indicators (Minim	dicators: mum of one is  2)  B2)  B4)  n Aerial Imag Concave Surf	met at this part of the strength of the streng	eck all that apply)  Water-Stain Aquatic Fau True Aquatic Hydrogen Sr Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) c Plants (B1 ulfide Odor izospheres o Reduced Ir Reduction i Gurface (C7) fell Data (D9 ain in Remai	4) (C1) on Living R on (C4) in Tilled So		Surface Soil Cr. Drainage Patte Dry Season Wa Crayfish Burrov Saturation Visit Stunted or Stre	acks (B6) rns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) bition (D2) est (D5)
Criterion for hydric CDROLOGY  Itland Hydrology Inmary Indicators (mining Surface Water (A1)) High Water Table (A Saturation (A3)) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B1) Inundation Visible on Sparsely Vegetated (Id Observations: face Water Present?	dicators: num of one is 22) B2) B4) Aerial Imag Concave Surf Yes Yes	s required; ch	eck all that apply)  Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Explain	na (B13) c Plants (B1 ulfide Odor izospheres of Reduced Ir Reduction if Surface (C7) ell Data (D9 ain in Remail	4) (C1) on Living R on (C4) in Tilled So	ils (C6)	Surface Soil Cr. Drainage Patte Dry Season Wa Crayfish Burrov Saturation Visit Stunted or Stre	acks (B6) rns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) bition (D2)
DROLOGY  tland Hydrology In mary Indicators (minir Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Inundation Visible of Sparsely Vegetated Id Observations: face Water Present? ter Table Present? uration Present?	dicators: num of one is  2)  B2)  B4)  Aerial Imag Concave Surf  Yes Yes Yes	gery (B7) face (B8)  No  No  No  No  No	eck all that apply)  Water-Stain- Aquatic Fau True Aquatic Hydrogen Sr Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) c Plants (B1 ulfide Odor izospheres ( Reduced Ir Reduction i Gurface (C7) cell Data (D9 ain in Remai	4) (C1) on Living Report (C4) in Tilled So (P) rks)	wetl	Surface Soil Cr. Drainage Patte Dry Season Wa Crayfish Burrov Saturation Visit Stunted or Stre Geomorphic Pc FAC-Neutral Te	acks (B6) rns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) bition (D2) est (D5)
DROLOGY  Cland Hydrology In Drology In Drolo	dicators: num of one is  2)  B2)  B2)  Aerial Imag Concave Surf  Yes Yes Yes Yes ta (stream	s required; ch	eck all that apply)  Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Explain	na (B13) c Plants (B1 ulfide Odor izospheres of Reduced Ir Reduction i Surface (C7) fell Data (D9 ain in Remai	4) (C1) on Living R on (C4) in Tilled So P) rks)	wetla	Surface Soil Cr. Drainage Patte Dry Season Wa Crayfish Burrov Saturation Visit Stunted or Stre Geomorphic Pc FAC-Neutral Te	acks (B6) rns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) bition (D2) est (D5)
DROLOGY  Cland Hydrology In mary Indicators (mining Surface Water (A1)) High Water Table (A) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B) Inundation Visible of Sparsely Vegetated of the Vegetat	dicators: num of one is  2)  B2)  B2)  Aerial Imag Concave Surf  Yes Yes Yes Yes ta (stream	s required; ch	eck all that apply)  Water-Stain- Aquatic Fau True Aquatic Hydrogen Sr Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) c Plants (B1 ulfide Odor izospheres of Reduced Ir Reduction i Surface (C7) fell Data (D9 ain in Remai	4) (C1) on Living R on (C4) in Tilled So P) rks)	wetla	Surface Soil Cr. Drainage Patte Dry Season Wa Crayfish Burrov Saturation Visit Stunted or Stre Geomorphic Pc FAC-Neutral Te	acks (B6) rns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) bition (D2) est (D5)
Criterion for hydric  CROLOGY  Cland Hydrology In Diary Indicators (mining Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B3) Inundation Visible of Sparsely Vegetated  If Observations: Diare Water Present? Diare Table Present? Diare Table Present? Diare Table Recorded Davious delineation, In Darks:	dicators: mum of one is  2)  B2)  Aerial Imag Concave Surf  Yes Yes Yes Yes Ta (stream DNR WWI r	gery (B7) face (B8)  No  No  gauge, mon	eck all that apply)  Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Explain	na (B13) c Plants (B1 ulfide Odor izospheres ( Reduced Ir Reduction i Gurface (C7) fell Data (D9 ain in Remai	4) (C1) on Living R on (C4) in Tilled So (C4) (C4) (C5) (C7) (C7) (C7) (C7) (C7) (C7) (C7) (C7	wetla	Surface Soil Cr. Drainage Patte Dry Season Wa Crayfish Burrov Saturation Visit Stunted or Stre Geomorphic Pc FAC-Neutral Te	acks (B6) rns (B10) ater Table (C2) ws (C8) ble on Aerial Imagery (C9) essed Plants (D1) bition (D2) est (D5)

Project/Site: _IH 94 (N-S Freeway)	Cit	y/County:	Milwaukee C	County Sampling Date: 19-Aug-14
Applicant/Owner: Wisconsin Department of Transportation			State:	WI Sampling Point: SP-51
nvestigator(s): Ron Londre, Geof Parish		Section, Tow	nship, Range:	: S 30 T 5N R 22E
andform (hillslope, terrace, etc.): Toeslope/ditch			Local relief (d	concave, convex, none): concave
Slope: 3.0% 1.7 • Lat.:		Long.:		- Datum:
Soil Map Unit Name: Morley silt loam (MzdB), Not hydric		~ -		WWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of	vear? Yes	● No ○	(If no, ex	xplain in Remarks.)
Are Vegetation, Soil	significantly dis	turbed?	Are "No	ormal Circumstances" present?  Yes  No  No
Are Vegetation , Soil , or Hydrology	naturally proble			eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map she			,	,
Hydrophytic Vegetation Present? Yes No O	owing samp		iit iocatio	ms, transects, important reatures, etc.
			e Sampled A	Area
		with	in a Wetland	d? Yes   No
Wetland Hydrology Present? Yes ♥ No ♥  Remarks:				
This point is located in a roadside ditch.  All three parameters have been met at this point. Thus,  VEGETATION - Use scientific names of plants of the parameters of plants.		Dominant	t	Dominance Test worksheet:
Tree Stratum (Plot size: 10' x 285'	% Cover	Cover	Status	Number of Dominant Species
1	0	0.0%		That are OBL, FACW, or FAC: 2 (A)
2.		0.0%		Total Number of Dominant
3 4.		0.0%		Species Across All Strata: 2 (B)
5.	0 0	0.0%		Percent of dominant Species
		= Total Cov		That Are OBL, FACW, or FAC: 100.0% (A/B)
Sapling/Shrub Stratum (Plot size: 10' x 70'				Prevalence Index worksheet:
1.	0	0.0%		Total % Cover of: Multiply by:
2	0	0.0%		OBL species 95 x 1 = 95
3	0	0.0%		FACW species 0 x 2 = 0
4		0.0%		FAC species $0 \times 3 = 0$
5		0.0%		FACU species $10 \times 4 = 40$
Herb Stratum (Plot size: 5' r )		= Total Cov	/er	UPL species 0 x 5 = 0
1. Typha angustifolia	50	47.6%	OBL	Column Totals: 105 (A) 135 (B)
2. Typha X glauca	40	<b>✓</b> 38.1%	OBL	Prevalence Index = B/A = 1.286
3. Festuca rubra	10	9.5%	FACU	Hydrophytic Vegetation Indicators:
4. Schoenoplectus fluviatilis 5.		4.8%	OBL	✓ 1 - Rapid Test for Hydrophytic Vegetation
6.		0.0%		<b>✓</b> 2 - Dominance Test is > 50%
7.		0.0%		<b>✓</b> 3 - Prevalence Index is $\leq$ 3.0 <sup>1</sup>
8.	0	0.0%		4 - Morphological Adaptations 1 (Provide supporting
9.	0	0.0%		data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
10.	0	0.0%		
Woody Vine Stratum (Plot size: 10' x 285' )	105	= Total Cov	/er	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	0	0.0%		
		0.0%		Hydrophytic
				Vegetation
2.		= Total Cov	/er	Present? Yes • No

Profile Description: (Describe to the dep	th needed to doo	ument the indi	cator or co	nfirm the	absence of indicators.)	
Depth Matrix		Redox Featu	ıres			
(inches) Color (moist) %	Color (mo		Туре	Loc <sup>2</sup>	Texture	Remarks
0-7 10YR 3/1 90	10YR	4/6 5	C	M	Silty Clay Loam	
	5YR	4/4 5	С	M		
7-20 10YR 5/2 90	7.5YR	5/4 10	C	М	Silty Clay	
Type: C=Concentration, D=Depletion, RM=R	educed Matrix, CS=	Covered or Coat	ed Sand Grai	ns.	PL=Pore Lining. M=N	latrix.
Hydric Soil Indicators:					Indicators for Problema	ic Hydric Soils <sup>3</sup> :
Histosol (A1)	_	Gleyed Matrix (S	4)		Coast Prairie Redox (A1	5)
Histic Epipedon (A2) Black Histic (A3)		Redox (S5)			Dark Surface (S7)	-,
Hydrogen Sulfide (A4)		ed Matrix (S6)			Iron Manganese Masses	(F12)
Stratified Layers (A5)	_	Mucky Mineral (F			Very Shallow Dark Surfa	ce (TF12)
2 cm Muck (A10)		Gleyed Matrix (F ed Matrix (F3)	۷)		Other (Explain in Remar	ks)
✓ Depleted Below Dark Surface (A11)	_ '	eu Mairix (F3) Dark Surface (F6	,)			
Thick Dark Surface (A12)		ed Dark Surface (			<sup>3</sup> Indicators of hydrophytic	vogatation and
Sandy Muck Mineral (S1)		Depressions (F8)			wetland hydrology mu	st be present,
5 cm Mucky Peat or Peat (S3)		. , , ,			unless disturbed or p	roblematic.
estrictive Layer (if observed):						
Type: None					Hydric Soil Present? Y	es • No O
Depth (inches): NA					,	
HYDROLOGY Wetland Hydrology Indicators:						
Primary Indicators (minimum of one is require	ed; check all that ap	pply)			Secondary Indicators	(minimum of two required)
Surface Water (A1)	☐ Wate	er-Stained Leaves	(B9)		Surface Soil Crack	s (B6)
High Water Table (A2)	Aqua	itic Fauna (B13)			Drainage Patterns	(B10)
Saturation (A3)	True	Aquatic Plants (E	314)		Dry Season Water	
☐ Water Marks (B1) ☐		ogen Sulfide Odo			Crayfish Burrows	
Sediment Deposits (B2)		ized Rhizosphere:		oots (C3)		on Aerial Imagery (C9)
Drift Deposits (B3)		ence of Reduced		IIo (C()	Stunted or Stress	
☐ Algal Mat or Crust (B4)☐ Iron Deposits (B5)		nt Iron Reduction		iis (C6)	✓ Geomorphic Posit ✓ FAC-Neutral Test	
Inundation Visible on Aerial Imagery (B7)		Muck Surface (Ci ge or Well Data (I			▼ TAC-Neutral Test	(D3)
Sparsely Vegetated Concave Surface (B8)	_ `	r (Explain in Rem				
_ , , , ,		(Explain in Non	idi KS)			
eld Observations:						
urface Water Present? Yes O	lo 💿 De	oth (inches):		.		
√ater Table Present? Yes ○ N	lo 💿 De	oth (inches):				0 0
aturation Present?  Includes capillary frings)  Yes O	o 💿 De	oth (inches):		Wetl	and Hydrology Present?	Yes   No
escribe Recorded Data (stream gauge,			previous in	spections	s), if available	
revious delineation, DNR WWI map, NI	_				.,, availabio.	
emarks:		1 -9 -1	1 b.			
ased on a WETS analysis, antecedent p	precipitation was	within a norma	al range.			
ne criterion for hydrology is met at this			9**			



# **APPENDIX H**

# **Plant Lists / Floristic Quality Assessments**

#### FLORISTIC QUALITY ASSESSMENT



# IH 94 (N-S Freeway)

Plant Community ID: Wetland W-1

Observer(s): Ron Londre, Geof Parish

Community Classification:

WisDOT SM (D)

Dominant	Scientific Name Achillea millefolium	<u>Common Name</u> common yarrow	<u>Ind. Status</u> FACU	WI C Value
	Agrostis gigantea	redtop	FACW	
	Ambrosia artemisiifolia	annual bur-sage	FACU	0
	Asclepias incarnata	swamp milkweed	OBL	5
	Cirsium arvense	Canada thistle	FACU	
	Cornus racemosa	gray dogwood	FAC	2
	Daucus carota	Queen Anne's-lace		
	Elymus repens	quackgrass	FACU	
	Euthamia graminifolia	grass-leaved goldenrod	FACW	4
	Festuca rubra	red fescue	FACU	
	Fragaria virginiana	thick-leaved wild strawberry	FACU	1
	Fraxinus pennsylvanica	green ash	FACW	2
	Hordeum jubatum	foxtail barley	FAC	
	Juncus canadensis	Canadian rush	OBL	7
	Juncus tenuis	path rush	FAC	1
	Lythrum salicaria	purple loosestrife	OBL	
	Parthenocissus quinquefolia	Virginia creeper	FACU	5
	Persicaria maculosa	Lady's-Thumb	FACW	
	Phalaris arundinacea	reed canary grass	FACW	
	Phragmites australis	common reed	FACW	1
	Poa pratensis	Kentucky bluegrass	FAC	
	Rumex crispus	curly dock	FAC	
	Schoenoplectus tabernaemontani	soft-stem bulrush	OBL	4
	Solidago canadensis	Canadian goldenrod	FACU	1
	Solidago sempervirens	seaside goldenrod	FACW	
	Sonchus arvensis	field sow-thistle	FACU	
	Symphyotrichum novae-angliae	New England aster	FACW	3
	Symphyotrichum puniceum	Purple-Stem American-Aster	OBL	
<b>✓</b>	Typha angustifolia	narrow-leaved cat-tail	OBL	

## FLORISTIC QUALITY ASSESSMENT



# IH 94 (N-S Freeway)

Plant Co	ommunity ID:	Wetland W-1	Observer(s):	Ron Londre, Geof Parish		
Commu	nity Classificat	tion:				
Wis	<u>DOT</u> S	SM (D)				
✓	Typha X glaud	ca	hybrid cat-	tail	OBL	
	Vitis riparia		river-bank	grape	FACW	2
			FQI = C N		TOTAL =	39
			FQI = Floristic Quality In	dex	<u>N</u> =	15
			C = Mean C Value N = Number of native tax	<b>1</b> 2	C =	2.6
			in - indiliber of flative tax	Na	FQI =	10.1

#### FLORISTIC QUALITY ASSESSMENT



## IH 94 (N-S Freeway)

Plant Community ID: Wetland W-2 Observer(s):

Community Classification:

WisDOT SM(D), M(D)

Londre,	Geof Parish
	Londre,

TOTAL =

N =

<u>C</u> =

FQI =

31

10

3.1

9.8

Dominant	Scientific Name	Common Name	Ind. Status	WI C Value
	Cirsium arvense	Canada thistle	FACU	
	Daucus carota	Queen Anne's-lace		
	Dipsacus laciniatus	cut-leaved teasel		
	Euthamia graminifolia	grass-leaved goldenrod	FACW	4
	Geum canadense	white avens	FAC	2
	Hackelia virginiana	beggar's-lice	FACU	3
	Oenothera biennis	bastard evening-primrose	FACU	1
	Parthenocissus quinquefolia	Virginia creeper	FACU	5
•	Phalaris arundinacea	reed canary grass	FACW	
	Rhamnus cathartica	common buckthorn	FAC	
	Ribes missouriense	Missouri gooseberry		4
	Solidago gigantea	giant goldenrod	FACW	3
	Symphyotrichum novae-angliae	New England aster	FACW	3
	Toxicodendron radicans	common eastern poison-ivy	FAC	4
•	Typha angustifolia	narrow-leaved cat-tail	OBL	
	Vitis riparia	river-bank grape	FACW	2

 $FQI = \overline{C}$ 

Where: FQI = Floristic Quality Index

N = Number of native taxa

C = Mean C Value

Wetland	W-2
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## IH 94 (N-S Freeway)

Plant Community ID: Wetland W-3

Observer(s): Ron Londre, Geof Parish

Community Classification:

WisDOT SM(D), M(D)

Dominant	Scientific Name	Common Name	Ind. Status	WI C Value
	Alisma subcordatum	common water-plantain	OBL	3
	Asclepias incarnata	swamp milkweed	OBL	5
	Carex vulpinoidea	brown fox sedge	FACW	2
	Chelone glabra	turtlehead	OBL	7
	Cichorium intybus	blue chicory	FACU	
	Daucus carota	Queen Anne's-lace		
	Eleocharis obtusa	blunt spike-rush	OBL	3
	Elymus canadensis	Canada wild-rye	FACU	4
	Elymus virginicus	common eastern wild-rye	FACW	6
	Euthamia graminifolia	grass-leaved goldenrod	FACW	4
	Helenium autumnale	common sneezeweed	FACW	4
	Hordeum jubatum	foxtail barley	FAC	
✓	Juncus canadensis	Canadian rush	OBL	7
	Lotus corniculatus	bird's-foot deer-vetch	FACU	
	Lycopus americanus	American water-horehound	OBL	4
	Melilotus albus	white sweet-clover		
	Phalaris arundinacea	reed canary grass	FACW	
	Plantago major	broad-leaved plantain	FAC	
	Rumex crispus	curly dock	FAC	
	Schoenoplectus acutus	hard-stem bulrush	OBL	6
	Schoenoplectus tabernaemontani	soft-stem bulrush	OBL	4
	Scirpus atrovirens	dark-green bulrush	OBL	3
	Solidago sempervirens	seaside goldenrod	FACW	
	Sparganium eurycarpum	broad-fruit bur-reed	OBL	5
	Taraxacum officinale	common dandelion	FACU	
✓	Typha angustifolia	narrow-leaved cat-tail	OBL	
	Typha X glauca	hybrid cat-tail	OBL	



## IH 94 (N-S Freeway)

Plant Community ID: Wetland W-3 Observer(s): Ron Londre, Geof Parish

Community Classification:

WisDOT SM(D), M(D)

FQI = C N	TOTAL =	67
Where: FQI = Floristic Quality Index	N =	15
C = Mean C Value	<u>C</u> =	4.5
N = Number of native taxa	FQI =	17.3



## IH 94 (N-S Freeway)

Plant Community ID: Wetland W-4 Observer(s): Ron Londre, Geof Parish

Community Classification:

**WisDOT** SM(D)

Dominant	Scientific Name Agrostis gigantea	<u>Common Name</u> redtop	Ind. Status FACW	WI C Value
	Carex blanda	common wood sedge	FAC	3
	Cirsium arvense	Canada thistle	FACU	
	Daucus carota	Queen Anne's-lace		
	Fragaria virginiana	thick-leaved wild strawberry	FACU	1
	Juncus tenuis	path rush	FAC	1
	Melilotus albus	white sweet-clover		
	Parthenocissus quinquefolia	Virginia creeper	FACU	5
	Persicaria maculosa	Lady's-Thumb	FACW	
	Poa pratensis	Kentucky bluegrass	FAC	
	Rudbeckia hirta	black-eyed Susan	FACU	4
	Rumex crispus	curly dock	FAC	
	Solidago canadensis	Canadian goldenrod	FACU	1
	Solidago sempervirens	seaside goldenrod	FACW	
✓	Typha X glauca	hybrid cat-tail	OBL	
	Vitis riparia	river-bank grape	FACW	2
	FQI	I = C N	TOTAL =	17
	Where: <u>F</u> QI C = N =	N = C = FQI =	7 2.4 6.4	



## IH 94 (N-S Freeway)

Plant Community ID: Wetland W-5 Observer(s): Ron Londre, Geof Parish

Community Classification:

WisDO	OT SM(D)			
Dominant	Scientific Name Daucus carota	Common Name Queen Anne's-lace	Ind. Status	WI C Value
	Euthamia graminifolia	grass-leaved goldenrod	FACW	4
	Phalaris arundinacea	reed canary grass	FACW	
	Solidago gigantea	giant goldenrod	FACW	3
	Solidago sempervirens	seaside goldenrod	FACW	
	Symphyotrichum novae-angliae	New England aster	FACW	3
<b>✓</b>	Typha angustifolia	narrow-leaved cat-tail	OBL	
•	Typha X glauca	hybrid cat-tail	OBL	
	FQI = C		TOTAL =	10
	Where: <u>F</u> QI = Florist C = Mean C N = Number	<u>N</u> = C = FQI =	3.3 5.8	



## IH 94 (N-S Freeway)

Plant Community ID: Wetland W-6

Observer(s): Ron Londre, Geof Parish

Community Classification:

WisDOT SM(D), M(D), SS

Dominant	Scientific Name	Common Name	Ind. Status	WI C Value
	Agrostis gigantea	redtop	FACW	
	Alisma subcordatum	common water-plantain	OBL	3
	Asclepias syriaca	common milkweed	FACU	1
	Carex pellita	broad-leaved woolly sedge	OBL	4
	Cornus obliqua	Pale Dogwood	FACW	
	Coronilla varia	crown-vetch		
	Eleocharis obtusa	blunt spike-rush	OBL	3
	Erigeron philadelphicus	common fleabane	FACW	2
	Euthamia graminifolia	grass-leaved goldenrod	FACW	4
	Frangula alnus	Glossy False Buckthorn	FACW	
	Fraxinus pennsylvanica	green ash	FACW	2
	Juncus canadensis	Canadian rush	OBL	7
	Juncus tenuis	path rush	FAC	1
	Parthenocissus quinquefolia	Virginia creeper	FACU	5
•	Phalaris arundinacea	reed canary grass	FACW	
	Poa pratensis	Kentucky bluegrass	FAC	
	Populus tremuloides	aspen	FAC	2
	Rhamnus cathartica	common buckthorn	FAC	
	Ribes americanum	American black currant	FACW	4
	Salix amygdaloides	peach-leaved willow	FACW	4
	Salix discolor	pussy willow	FACW	2
	Salix interior	Sandbar Willow	FACW	2
	Scirpus atrovirens	dark-green bulrush	OBL	3
	Solidago canadensis	Canadian goldenrod	FACU	1
	Solidago gigantea	giant goldenrod	FACW	3
	Solidago sempervirens	seaside goldenrod	FACW	
	Symphyotrichum novae-angliae	New England aster	FACW	3
	Toxicodendron radicans	common eastern poison-ivy	FAC	4
•	Typha angustifolia	narrow-leaved cat-tail	OBL	



## IH 94 (N-S Freeway)

Plant Co	ommunity ID:	Wetland W-6	Observer(s):	Ron Londre, Geof Parish		
Commu	nity Classificatio					
<u>Wisl</u>	<u>DOT</u> SM	(D), M(D), SS				
<b>✓</b>	Typha X glauca		hybrid cat-	-tail	OBL	
	Verbena hastata	a	blue verva	in	FACW	3
	Vitis riparia		river-bank	grape	FACW	2
		E	QI = C N		TOTAL	
			•	day	TOTAL = N =	65 22
			I = Floristic Quality In = Mean C Value	uex	C =	3.0
		N =	Number of native tax	ка	FQI =	13.9



## IH 94 (N-S Freeway)

Plant Community ID: Wetland W-7 Observer(s): Ron Londre, Geof Parish

Community Classification:

WisDOT SS

Dominant	Scientific Name		Common Name	Ind. Status	WI C Value
	Agrostis gigantea		redtop	FACW	
	Eleocharis obtusa		blunt spike-rush	OBL	3
	Euthamia graminifolia		grass-leaved goldenrod	FACW	4
	Juncus canadensis		Canadian rush	OBL	7
	Juncus tenuis		path rush	FAC	1
	Lycopus americanus		American water-horehound	OBL	4
<b>✓</b>	Phalaris arundinacea		reed canary grass	FACW	
	Salix discolor		pussy willow	FACW	2
✓	Salix interior		Sandbar Willow	FACW	2
	Scirpus atrovirens		dark-green bulrush	OBL	3
	Solidago canadensis		Canadian goldenrod	FACU	1
	Typha angustifolia		narrow-leaved cat-tail	OBL	
		FQI = C N	_	TOTAL =	27
	v	/here: FQI = Floristic	Quality Index	N =	9
	•	C = Mean C Val		<u>C</u> =	3.0
		N = Number of	native taxa	FQI =	9.0



## IH 94 (N-S Freeway)

Plant Con	nmunity ID:	Wetland W-8	Observer(s):	Ron Londre, Geof Parish		
Communi	ty Classificatio	on:				
WisDO	1)M <u>TO</u>	D)				
Dominant	Scientific Name	<u>e</u>	Common	Name	Ind. Status	WI C Value
	Agrostis gigante	ea	redtop		FACW	
	Festuca rubra		red fescue	<b>;</b>	FACU	
✓	Phalaris arundir	nacea	reed cana	ry grass	FACW	
	Solidago canad	ensis	Canadian	goldenrod	FACU	1
✓	Solidago sempe	ervirens	seaside g	oldenrod	FACW	
	Sonchus arvens	sis	field sow-t	histle	FACU	
		$FQI = \overline{C}$	N		TOTAL =	1
		Where: FQI = FI	loristic Quality In	dex	N =	1
			an C Value		<u>C</u> =	1.0
		N = Nun	nber of native tax	ка	FQI =	1.0



#### IH 94 (N-S Freeway)

Plant Community ID: Wetland W-9 Observer(s): Ron Londre, Geof Parish Community Classification: **WisDOT** M(D) **Dominant Scientific Name Common Name** Ind. Status WI C Value **FACW** Agrostis gigantea redtop Cirsium arvense Canada thistle FACU Euthamia graminifolia grass-leaved goldenrod **FACW** 4 FACW 2 Fraxinus pennsylvanica green ash **✓** Phalaris arundinacea reed canary grass **FACW** Phragmites australis **FACW** common reed 1 Poa pratensis Kentucky bluegrass FAC Solidago gigantea giant goldenrod FACW 3 Solidago sempervirens seaside goldenrod **FACW** Sonchus arvensis field sow-thistle FACU  $FQI = \overline{C} N$ TOTAL = 10 N = 4 Where: FQI = Floristic Quality Index C = Mean C Value C = 2.5

N = Number of native taxa

FQI =

5.0



## IH 94 (N-S Freeway)

Plant Community ID: Wetland W-10 Observer(s): Ron Londre, Geof Parish

Community Classification:

Communi	ty Classification:				
<u>WisD</u>	OT SM(D)				
Dominant	Scientific Name		Common Name	Ind. Status	WI C Value
	Agrostis gigantea		redtop	FACW	
	Cirsium arvense		Canada thistle	FACU	
	Daucus carota		Queen Anne's-lace		
	Euthamia graminifolia		grass-leaved goldenrod	FACW	4
	Juncus tenuis		path rush	FAC	1
	Phalaris arundinacea		reed canary grass	FACW	
	Poa pratensis		Kentucky bluegrass	FAC	
	Rumex crispus		curly dock	FAC	
	Solidago canadensis		Canadian goldenrod	FACU	1
	Solidago sempervirens		seaside goldenrod	FACW	
•	Typha angustifolia		narrow-leaved cat-tail	OBL	
	Verbena hastata		blue vervain	FACW	3
		FQI = C N	<del>_</del>	TOTAL =	9
	W	here: FQI = Floristic	Quality Index	N =	4
	•••	C = Mean C Val	ue	<u>C</u> =	2.3
		N = Number of	native taxa	FQI =	4.5



### IH 94 (N-S Freeway)

Plant Community ID: Wetland W-11 Observer(s): Ron Londre, Geof Parish Community Classification: **WisDOT** M(D) **Dominant Scientific Name Common Name** Ind. Status WI C Value **FACW** Agrostis gigantea redtop Daucus carota Queen Anne's-lace Euthamia graminifolia grass-leaved goldenrod FACW 4 **✓** Phalaris arundinacea FACW reed canary grass Solidago canadensis Canadian goldenrod FACU 1 Symphyotrichum novae-angliae New England aster **FACW** 3 **✓** Typha angustifolia narrow-leaved cat-tail OBL FACW Verbena hastata blue vervain 3  $FQI = \overline{C}$ TOTAL = 11 Where: FQI = Floristic Quality Index N = 4 C = Mean C Value C = 2.8 N = Number of native taxa FQI = 5.5



## IH 94 (N-S Freeway)

Plant Community ID: Wetland W-12 Observer(s): Ron Londre, Geof Parish

Community Classification:

Communi	ty Classification:				
WisDo	OT SM(D)				
<u>Dominant</u>	Scientific Name		Common Name	<u>Ind. Status</u> FACU	WI C Value
	Achillea millefolium		common yarrow		
	Euthamia graminifolia		grass-leaved goldenrod	FACW	4
	Lythrum salicaria		purple loosestrife	OBL	
	Phalaris arundinacea		reed canary grass	FACW	
	Solidago canadensis		Canadian goldenrod	FACU	1
	Solidago sempervirens		seaside goldenrod	FACW	
<b>✓</b>	Typha angustifolia		narrow-leaved cat-tail	OBL	
	Typha X glauca		hybrid cat-tail	OBL	
	Vitis riparia		river-bank grape	FACW	2
		FQI = C N	_	TOTAL =	8
	V	here: FQI = Floristic	Quality Index	N =	4
		C = Mean C Va	lue	<u>C</u> =	2.0
		N = Number of	native taxa	FQI =	4.0



# **APPENDIX I**

**Wetland Summary Table** 

# Table 3. Wetland Summary Table



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Wetland ID	Township (N)	PLSS Location Range (E)		Size Within Study Area (Acres)	C-value <sup>1</sup>	FQI vaue <sup>1</sup>	2014 Wetland Sample Point(s)	2014 Adjacent Upland Sample Point(s)	2009 Wetland Sample Point(s)	2009 Adjacent Upland Sample Point(s)	Wetland Plant Community Description(s) <sup>2</sup>	WWI Mapped Wetland(s)	Mapped Wetland Soil Type (Symbol)	''	Mapped Soils Hydric Classification <sup>3</sup>	Comments on Apparent Connectivity to Surface Waters 4	Comments on Boundary Determination	General Comments
W-1	5	22	30	0.33	2.6	10.1	SP-2	SP-1	None	None	SM	None	MzdB2	Morley silt loam, 2 to 6 percent slopes, eroded	Not hydric		Boundary based on distinct topographic breaks along ditch, presence vs. absence of hydrophytes, and hydric vs. non-hydric soils.	Wetland is entirely contained within a roadside ditch. Wetland W-1 was not delineated in 2009.
W-2	5	22	30	0.07	3.1	9.8	SP-10	SP-9	None	None	SM, M	None	BIA	Blount silt loam, 1 to 3 percent slopes	Not hydric		Boundary based on distinct topographic breaks along ditch, presence vs. absence of hydrophytes, and hydric vs. non-hydric soils.	Wetland is entirely contained within a roadside ditch. Wetland W-2 was not delineated in 2009.
W-3	5	22	30	0.99	4.5	17.3	SP-14, SP-15, SP-19	SP-13	None	None	SM, M	None	BIA MmA	Blount silt loam, 1 to 3 percent slopes Matherton silt loam, 1 to 3 percent slopes	Not hydric Not hydric	Abuts unnamed tributary of Oak Creek.	Boundary based on subtle topographic breaks, presence and absence of hydrophytes, and frequent soil probing to evaluate presence vs. absence of hydric soil.	Wetland is newly formed as a result of rerouting unnamed tributary of Oak Creek. Wetland would not have been present in 2009.
W-4	5	22	19	0.18	2.4	6.4	SP-17	SP-16	None	None	SM	None	BIA	Blount silt loam, 1 to 3 percent slopes	Not hydric	lareas of a difch, to W-5 then through	Boundary based on distinct topographic breaks along ditch, presence vs. absence of hydrophytes, and hydric vs. non-hydric soils.	Wetland is entirely contained within a roadside ditch. Wetland W-4 was not delineated in 2009.
W-5	5	22	19	0.04	3.3	5.8	SP-18	SP-16	None	None	SM	None	AsA	Ashkum silty clay loam, 0 to 3 percent slopes	All hydric		Boundary based on distinct topographic breaks along ditch, presence vs. absence of hydrophytes, and hydric vs. non-hydric soils.	Wetland is entirely contained within a roadside ditch. Wetland W-5 was not delineated in 2009.
W-6	5	22	19	2.35	2.9	14.0	SP-21, SP-23, SP-25, SP-29		None	None	SM, M, SS	E2Kx	BIA AsA	Blount silt loam, 1 to 3 percent slopes Ashkum silty clay loam, 0 to 3 percent slopes	Not hydric Not hydric	Abuts unnamed tributary of Oak Creek.	Portions of W-6 are contained within ditches where the boundary was primarily based on distinct topographic breaks. Remainder of wetland was based on subtle to moderate topographic breaks, frequent soil probing to evaluate presence vs. absence of hydric soils, and presence vs. absence of hydrophytes.	
W-7	5	22	19	0.02	3.0	9.0	SP-27	SP-26	None	None	SS	None	AsA	Ashkum silty clay loam, 0 to 3 percent slopes	All hydric	depression with no apparent outlet for	Boundary was based on fairly distinct topographic break in a shallow depression and the presence vs. absence of hydrophytes and hydric soils.	Wetland appears to have formed in fill soils and was not delineated in 2009.
W-8	5	22	18	0.02	1.0	1.0	SP-33	SP-32	None	None	М	None	MzdC2	Morley silt loam, 6 to 12 percent slopes, eroded	Not hydric	larea through ditches beyond the Study	Boundary based on distinct topographic breaks along ditch, presence vs. absence of hydrophytes, and hydric vs. non-hydric soils.	Wetland is entirely contained within a roadside ditch. Wetland W-8 was not delineated in 2009.
W-9	5	22	18	0.07	2.5	5.0	SP-34	SP-32	None	None	M	None	BIA	Blount silt loam, 1 to 3 percent slopes	Not hydric	larea through difches beyond the Study	Boundary based on distinct topographic breaks along ditch, presence vs. absence of hydrophytes, and hydric vs. non-hydric soils.	Wetland is entirely contained within a roadside ditch. Wetland W-9 was not delineated in 2009.
W-10	5	22	19	0.02	2.3	4.5	SP-43	SP-42	None	None	SM	None	BIA	Blount silt loam, 1 to 3 percent slopes	Not hydric	Ithrough a series of libland areas within	Boundary based on distinct topographic breaks along ditch, presence vs. absence of hydrophytes, and hydric vs. non-hydric soils.	Wetland is entirely contained within a roadside ditch. Wetland W-10 was not delineated in 2009.
W-11	5	22	30	0.14	2.8	5.5	SP-47	SP-46	None	None	М	None	AsA	Ashkum silty clay loam, 0 to 3 percent slopes	All hydric	Ithroligh a series of difches and ciliverts	Boundary based on distinct topographic breaks along ditch, presence vs. absence of hydrophytes, and hydric vs. non-hydric soils.	Wetland is entirely contained within a roadside ditch. Wetland W-11 was not delineated in 2009.
W-12	5	22	30	0.07	2.0	4.0	SP-51	SP-50	None	None	SM	None	MzdB	Morley silt loam, 2 to 6 percent slopes	Not hydric		Boundary based on distinct topographic breaks along ditch, presence vs. absence of hydrophytes, and hydric vs. non-hydric soils.	Wetland is entirely contained within a roadside ditch. Wetland W-12 was not delineated in 2009.
W7-1	5	22	7	0.50	NA	NA	None	None	T-1Bw	T-1Au	RPF	ТЗК	AsA	Ashkum silty clay loam, 0 to 3 percent slopes	All hydric	Abuts unnamed tributary of Oak Creek.	Wetland boundary was revised to include wetlands contained within roadside ditches extending north of original location. Remainder of wetland boundary was verified to not have changed from 2009.	Newly delineated areas are entirely contained within roadside ditches.
W7-6	5	22	7	0.36	NA	NA	None	None	T1-Bw	T-1Au	RPF, SM	T3/E2K	AsA BIA MzdB2	Ashkum silty clay loam, 0 to 3 percent slopes Blount silt loam, 1 to 3 percent slopes	All hydric Not hydric Not hydric	Abuts unnamed tributary of Oak Creek.	Wetland boundary was revised to include wetlands contained within roadside ditches extending north and south of original location. Remainder of wetland boundary was verified to not have changed from 2009.	Newly delineated areas are entirely contained within roadside ditches.
W8-6	5	22	18	0.01	NA	NA	None	None	T1-Bw	T-1Au	SM	T3/E2K	BIA	Blount silt loam, 1 to 3 percent slopes	Not hydric	Wetland W8-6 does not appear to have a surface water connection to other Waters of the US.	Wetland boundary was verified to not have changed from 2009.	

# Table 3. Wetland Summary Table



	vvetiani			I				ı		<u> </u>		T T						
Wetland ID	Township (N)	PLSS Location Range (E)		Size Within Study Area (Acres)	C-value <sup>1</sup>	FQI vaue <sup>1</sup>	2014 Wetland Sample Point(s)	2014 Adjacent Upland Sample Point(s)	2009 Wetland Sample Point(s)	2009 Adjacent Upland Sample Point(s)	Wetland Plant Community Description(s) <sup>2</sup>	WWI Mapped Wetland(s)	Mapped Wetland Soil Type (Symbol)	Mapped Soil Taxonomic Classification	Mapped Soils Hydric Classification <sup>3</sup>	Comments on Apparent Connectivity to Surface Waters 4	Comments on Boundary Determination	General Comments
W8-7	5	22	18	0.57	NA	NA	None	None	T-1Bw	T-1Au	M, SM	None	AsA	Ashkum silty clay loam, 0 to 3 percent slopes	All hydric	Surface water from the wetland would drain both north and south through a series of ditches to various tributaries of Oak Creek.	Wetland boundary was revised to include wetlands contained within roadside ditches extending north and south of original location. Remainder of wetland boundary was verified to not have changed from 2009.	Newly delineated areas are entirely contained within roadside ditches.
W8-8	5	22	18	0.86	NA	NA	SP-36	SP-35	T-1Bw	T-1Au	M, SM	E2Ka	BIA	Blount silt loam, 1 to 3 percent slopes	Not hydric	Surface water from the wetland would drain both north and south through a series of ditches to various tributaries of Oak Creek.	Wetland boundary was revised to include wetlands contained within roadside ditches extending north and south of original location. Remainder of wetland boundary was verified to not have changed from 2009.	Newly delineated areas are entirely contained within roadside ditches.
W9-2	5	22	19	1.22	NA	NA	SP-38	SP-37	T-1Bw	T-1Au	RPE, SM	T3/E2K	AsA BIA	1.	All hydric Not hydric	Abuts unnamed tributary of Oak Creek.	Wetland boundary was revised to include wetlands contained within roadside ditches extending north and south of original location. Remainder of wetland boundary was verified to not have changed from 2009.	Newly delineated areas are entirely contained within roadside ditches.
W9-3	5	22	19	1.61	NA	NA	SP-31	SP-31	T-1Bw	T-1Au	RPE, RPF, SM	E2K E2H	HtA	Houghton muck, 0 to 2 percent slopes	All hydric	Abuts unnamed tributary of Oak Creek.	Wetland boundary was revised to include wetlands contained within roadside ditches extending north and south of original location. Remainder of wetland boundary was verified to not have changed from 2009.	Newly delineated areas are entirely contained within roadside ditches.
W9-4	5	22	19	0.25	NA	NA	None	None	T-1Bw	T-1Au	WS	None	MzdB2	Morley silt loam, 2 to 6 percent slopes, eroded	Not hydric	Wetland is adjacent to tributary of Oak Creek.	Wetland boundary was verified to not have changed from 2009.	
W9-4a	5	22	19	0.13	NA	NA	None	None	T-1Bw	T-1Au	М	E2K	BIA	Blount silt loam, 1 to 3 percent slopes	Not hydric	Wetland is adjacent to tributary of Oak Creek.	Wetland boundary was verified to not have changed from 2009.	
W9-5	5	22	19	0.89	NA	NA	SP-40, SP-42	SP-39, SP-41	T-1Bw	T-1Au	M, SM	None	MzdC2 BIA AsA	Islanes	Not hydric Not hydric All hydric	Abuts unnamed tributary of Oak Creek.	Wetland boundary was revised to include wetlands contained within roadside ditches extending north and south of original location. Remainder of wetland boundary was verified to not have changed from 2009.	A portion of the originally delineated area was identified as a storm water pond/landscape pond and is shown on wetland location map. Newly delineated areas are entirely contained within roadside ditches.
W9-6	5	22	19	0.6	NA	NA	None	None	T-1Bw	T-1Au	RPE	E2H	BIA	Blount silt loam, 1 to 3 percent slopes	Not hydric	Abuts unnamed tributary of Oak Creek.	South wetland boundary and location of tributary of Oak Creek was revised as a result of recent, permitted construction activity that filled a portion of the wetland and enclosed the tributary in a culvert. Remainder of wetland was verified to not have changed from 2009.	
W9-7	5	22	19	0.1	NA	NA	None	None	T1-Bw	T-1Au	SM	None	BIA	Blount silt loam, 1 to 3 percent slopes	Not hydric	Adjacent to unnamed tributary of Oak Creek. Possibly drains through a culvert to the tributary.	Wetland boundary was verified to not have changed from 2009.	Wetland area appears that it may be a storm water basin.
W9-8	5	22	19	0.51	NA	NA	SP-45	SP-44	T1-Bw	T-1Au	SM	E2K	MzdB BlA		Not hydric Not hydric	Wetland appears to drain through a culvert to wetland W9-6 that abuts an unnamed tributary of Oak Creek.	Wetland boundary was revised to include wetlands contained within roadside ditches near the east end of W9-8. Remainder of wetland was verified to not have changed from 2009.	Wetland appears to be entirely contained within a roadside ditch and storm water swale.
W9-9	5	22	19	0.84	NA	NA	None	None	T1-Bw	T-1Au	SM	None	MzdB2	Morley silt loam, 2 to 6 percent slopes, eroded	Not hydric	Appears to be adjacent and drains to wetland W9-8 that drains through a culvert to an unnamed tributary of Oak Creek.	Wetland boundary was verified to not have changed from 2009.	
W10-1	5	22	30	3.71	NA	NA	SP-49	SP-48	T-1Bw	T-1Au	RPF, RPE	E2K	MmA	Matherton silt loam, 1 to 3 percent slopes	Not hydric	Abuts Oak Creek.	Eastern boundary revised as a result of permitted construction of Bridge over Oak Creek and IH 94 on ramp that filled part of W10-1. Remainder of wetland was verified to have not changed from 2009.	
W10-2	5	22	30	0.4	NA	NA	None	None	T-1Bw	T-1Au	SM, M	E2K	BIA	Blount silt loam, 1 to 3 percent slopes	Not hydric	Surface water appears to drain from wetland area through a culvert to Oak Creek.	Wetland boundary was verified to not have changed from 2009.	





- Table	ne 5. Wetland Summary Table																	
Wetland ID		PLSS Location Range (E)		Size Within Study Area (Acres)		FQI vaue <sup>1</sup>	2014 Wetland Sample Point(s)	2014 Adjacent Upland Sample Point(s)		2009 Adjacent Upland Sample Point(s)	Wetland Plant Community Description(s) <sup>2</sup>	WWI Mapped Wetland(s)	Mapped Wetland Soil Type (Symbol)	Mapped Soil Taxonomic Classification	Mapped Soils Hydric Classification <sup>3</sup>	Comments on Apparent Connectivity to Surfac Waters <sup>4</sup>	e Comments on Boundary Determination	General Comments
W10-3	5	22	30	4.21	NA	NA	SP-4, SP-6, SP-8	SP-3, SP-4, SP-7	T-1Bw	T-1Au	RPE	T3/E2K	AzB MmA AsA Sm	Ashkum silty clay loam, 0 to 3	Not hydric Not hydric All hydric All hydric	Abuts Oak Creek.	Wetland boundary revised at southwest corner to include a ditch extending to the south. Northwest & west boundary was revised as a result of permitted construction of an off ramp that filled part of W10-3. The northwest boundary was revised and enlarged. The remainder of W10-3 boundary was verified to not have changed from 2009.	
W10-4	. 5	22	30	1.56	NA	NA	SP-11	SP-12	None	None	RPE	None	MmA	Matherton silt loam, 1 to 3 percent slopes	Not hydric	Surface water would drain east through culvert to unnamed tributary of Oak Creek.	W10-4. Construction was active at the time of the field	Active construction taking place along eastern boundary. Boundary likely to change as a result.

<sup>&</sup>lt;sup>1</sup> A Floristic Quality Assessment was conducted only for wetlands delineated in 20014 and not previously delineated in 2009.

<sup>&</sup>lt;sup>2</sup> RPF - Riparian wetland (wooded), RPE - Riparian wetland (emergent), M - Wet meadow, SM - Shallow marsh, DM - Deep marsh, AB - Aquatic bed, SS - Shrub scrub, WS - Wooded swamp

<sup>&</sup>lt;sup>3</sup> "Hydric" means that all components listed for a given map unit are rated as being hydric. "Predominantly hydric" means components that comprise 33 to 66 percent of the map unit are rated as hydric. "Predominantly hydric" means components that comprise 33 to 66 percent of the map unit are rated as hydric. "Predominantly nonhydric" means components that components that components of the map unit are rated as hydric or nonhydric in the underlying database. A "Not rated or not available" map unit rating is displayed when none of the components within a map unit have been rated.

<sup>4</sup> Comments on connectivity are the professional opinion of the investigator based on general field observations at the time of the field wisit and occasionally map resources. The ability to evaluate connectivity in the field may often be limited by public ROW access and private land access limitations. These opinions are not a jurisdictional determination nor a significant nexus determination.



# **APPENDIX J**

Statement of Qualifications

#### STATEMENT OF QUALIFICATIONS

#### FIELD INVESTIGATORS:

#### Ronald A. Londré, M.S., PWS, CE

Mr. Londré has M.S. and B.S. degrees in biological science with focused studies on plant community ecology from UW-Milwaukee and UW-Parkside, respectively. Ron is certified by the Society of Wetland Scientists as a Professional Wetland Scientist (PWS) and the Ecological Society of America as a Certified Ecologist (CE). Ron is also a Certified Wetland Specialist (CWS) in McHenry County and Lake County, Illinois. He has eight years professional experience as an ecological consultant working with natural resources. He specializes in wetland assessments and delineations, wetland and waterway permitting, mitigation site design and monitoring, ecological restoration, water resource studies and management planning, invasive species management, and threatened and endangered species investigations. Previously, Mr. Londré served as a college instructor and research scientist when he taught courses in biological science, environmental science, and botany while conducting research on the forces that structure plant communities and landscape and restoration ecology. Ron has completed the following wetland delineation technical training workshops: Advanced Wetland Delineation Training Workshop provided by the University of Wisconsin-La Crosse in 2013, Critical Methods in Wetland Delineation Workshop provided by the University of Wisconsin-La Crosse in 2013, Regional Supplement Seminar and Field Practicum provided by the Wetland Training Institute in 2012, Basic Wetland Delineation Training Workshop provided by the University of Wisconsin-La Crosse in 2011, and the Wetland Delineation Training Workshop provided by the University of Wisconsin-Milwaukee in 2004.

#### Geoffrey B. Parish, P.G., P.H.

Mr. Parish is a hydrologist and geologist with M.S. and B.S. degrees in geosciences from the University of Wisconsin-Milwaukee. He has studied wetland hydrology and soils in Wisconsin, and Illinois for almost twenty years. His wetland work has included wetland delineations, wetland mitigation projects, including enhancements, restorations and creations in Wisconsin and Illinois. Mr. Parish has worked on over 200 delineations in Wisconsin in the past two years. He was on a team of scientists that provided expert witness services to the US Department of Justice regarding impacts to a state of Wisconsin owned wetland.