Wetland Delineation Report

Hooper Property

Village of DeForest, Dane County Wisconsin

November 9th, 2010

Prepared for:

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Table of Contents

Wetland Delineator Qualifications	2
Introduction	2
Methods	2
Method of Data Collection	3
Location of Transects	3
Procedure for Locating Wetland Boundaries	3
Results and Discussion	
Regional Geology & Soils	4
Wetlands	4
Wetland Boundary Characteristics	4
Wetland Vegetation	4
Wetland Hydrology	4
Wetland Soils	5
Wisconsin Wetland Inventory	5
Uplands	5
Upland Vegetation	5
Upland Hydrology	6
Upland Soils	
Assessment of Wetland Quality per NR 151	6
Conclusion	7
References	7
Figures	
Figure 1: Landscape Overview Map	9
Figure 2: Survey Map – Parcel A.	10
Figure 3: Survey Map – Parcel B.	11
Figure 4: Air Photo, Sample Plots & Wetland Boundary – Parcel A	12
Figure 5: Air Photo, Sample Plots & Wetland Boundary – Parcel B	13
Figure 6: Soils of Project Area	14
Appendix I: Crop Slide Analysis	15
Appendix II: Data Sheets	17

Wetland Delineator Qualifications

Scott Taylor holds a Master of Science degree in Forest Ecology and Management from the University of Wisconsin-Madison (1999). Taylor has attended the "Critical Methods in Wetland Delineation" training course annually since 2006. Taylor also completed the following courses that prepared him for performing wetland determinations and delineations in Wisconsin using the Army Corps of Engineers 1987 Manual Method:

- ➤ Wetland Plant Identification (July 2003, Delafield, WI. Biotic Consultants, Inc.)
- ➤ Basic Wetland Delineation Training (August 2003, Wisconsin Rapids, WI. UW La Crosse Continuing Education/Extension)
- ➤ Advanced Wetland Delineation Training (August 2006, Cable, WI. UW La Crosse Continuing Education/Extension)

Introduction

On October 22nd of 2010, Scott Taylor of Taylor Conservation LLC identified and staked wetlands on two agricultural parcels – one 27 acres and the other 58 acres – on the northern outskirts of the Village of DeForest, Dane County, Wisconsin (Figures 1-5). The parcels consisted almost entirely of cropland. Wetlands were found in three different settings on the parcels: (1) the bottoms and side-slopes of an agricultural drainage ditch, (2) the banks of the Yahara River and (3) the bottom of a roadside ditch.

As a storm-water management area, the roadside ditch may not be subject to WDNR or Army Corps jurisdiction. This area was staked and mapped since it occurred within an area mapped as having hydric soil inclusions on the NRCS soil map (Figure 6).

To identify wetlands on the cropland, air photos were inspected. Six years – all of them years of normal precipitation – of crop slides from the local Farm Service Agency office were inspected for wetland "signatures". No part of the crop fields, with the exception of very small areas adjoining the wetlands along the Yahara River and the agricultural ditch, were found to be wetlands based in the crop slide analysis.

The Village of DeForest is preparing to purchase the two parcels. The village ordered a wetland delineation to establish a fair purchase price, and to plan future property development in a way that avoids or minimizes wetland impacts. Approximately 1.2 acres of wetland was delineated on the two parcels. They are in T9N, R10E, Section 8 (SENW, SWNE, SENE).

Methods

The following reference materials were reviewed prior to performing field work:

- 1) National Cooperative Soil Survey, Web Soil Survey
- 2) Wisconsin Wetland Inventory maps (WDNR Surface Water Data Viewer Wetlands Theme).

- 3) U.S.G.S. 7.5 minute topographical map, Morrisonville Quadrangle.
- 4) <u>Wisconsin Official Hydric Soil List</u> (NRCS website: http://www.wi.nrcs.usda.gov/technical/soil/hyd.html).

The wetland determinations and the delineations followed the procedures for the Routine Method set forth in <u>The Corps of Engineers Wetlands Delineation Manual</u> (US Army Corps of Engineers 1987) and <u>Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region</u>. They also followed the methods set forth in the <u>Basic Guide to Wisconsin Wetlands and their Boundaries</u> (WI Dept. of Administration 1995).

Method of Data Collection

Vegetation, hydrology and soil information were gathered in sample plots and recorded on USACE data sheets. At each plot, a plot center was established and the presence or absence of normal circumstances or disturbances was noted. Next, herbaceous vegetation was sampled within a circular 5-foot radius plot. After that, vines, shrubs and trees were sampled within a circular 30-foot radius plot, centered on the herbaceous plot. Next, an 18 inch-deep soil pit was dug at the plot center. The presence or absence of hydrology indictors in the soil pit and within the surrounding 30-foot circular plot was noted. Finally, the soil profile in the pit was examined and described. A determination was then made as to whether the site was wetland or upland.

For plots located in agricultural fields, air photos were inspected for "wetland signatures", or evidence of saturated soil, standing water or crop drown-out or stress. Air photos for 6 normal precipitation years (average monthly precipitation for January-June between 1.6 and 3.1 inches) between 1989 and 2001 were inspected. If a site possessed wetland signatures for at least 3 of the 6 years, it was judged to have wetland hydrology.

However, if field evidence, e.g. presence of wetland obligate plants or stunted crops, strongly suggested an area was wetland, it was determined to be so in spite of lacking wetland signatures 3 of 6 years.

Location of Transects

Sample plots were located inside of areas that appeared to be wetlands. If the sample plot data suggested the location was inside of a wetland, a second plot was placed in an upslope location with a different plant community. If data collected at this plot suggested that the location was inside of the upland, no further plots were sampled. Otherwise, the process was repeated. This procedure was followed 5 times. A total of 8 plots were sampled, 3 inside of wetlands and 5 on the uplands (Figures 4 & 5). Sample plots were marked with red wire-stake flags.

Procedure for Locating Wetland Boundaries

The wetland boundary was located by observing changes in elevation – especially when staking drainage ditch banks – and plant community composition. The presence of healthy, dominant quack grass (*Agropyron repens*-FacU) and smooth brome grass (*Bromus inermis*-Upl) as one moved upslope, away from the wetland were often considered reliable indicators of the boundary. The wetland boundary was marked with pink "wetland delineation" wire-stake flags.

Results and Discussion

Regional Geology & Soils

The geology of the surrounding region is dominated by old lake basins and glacial deposits, including outwash plains and ground moraines. The land surface is gently sloping in the higher areas and nearly level in low-lying areas, which are generally extinct lake beds. Soils that formed in ground moraines have silt loam and silty clay loam surface layers underlain by sandy loam material. Soils that formed in glacial outwash often have silt loam surface layers underlain by sand. Soils that formed in lake deposits consist of stratified layers of silt and sand.

Wetlands

Wetland Boundary Characteristics

Wetlands were found in three different settings on the parcels: (1) the bottoms and side-slopes of an agricultural drainage ditch, (2) the banks of the Yahara River and (3) the bottom of a roadside ditch (Figures 2, 3, 4 & 5).

Along the ditches, the wetland boundaries were abrupt and followed the tops of the ditch banks, where a transition from wetland vegetation, usually dominated by reed canary grass (*Phalaris arundinacea*-FacW) and shrub willows (*Salix discolor*-FacW; *Salix fragilis*-Fac), to upland vegetation, usually dominated by brome grass and quack grass, was observed.

Along the Yahara River, the wetland boundary simply followed the edge of the cropland where it met grassy river-side vegetation, although in some very low areas it encompassed parts of the cropland as well.

Wetland Vegetation

The ditch-bottom wetlands were mostly brushy and grassy communities with scattered trees. They were completely dominated by hydrophytes, including reed canary grass, shrub willows, cottonwood (*Populus deltoids*-Fac), box elder (*Acer negundo*-FacW) and peach-leaf willow (*Salix amygdaloides*-FacW).

The river-side wetland was open and grassy. It was completely dominated by hydrophytes, primarily reed canary grass and stinging nettles (*Urtica dioica*-Fac).

Wetland Hydrology

The primary water sources of the wetlands were (1) surface runoff from surrounding cropland and (2) shallow ground water discharge.

Although water was observed in all of the wetland sample plots, the water table most likely draws down by early summer in most years. The current year, 2010, was wetter than most:

			5 inches Above
January - mid-	28 inches (1971-2000	33 inches (2010 Total	Average for Jan
October Totals:	Jan mid-Oct. Average)	for Jan mid-Oct.)	mid-Oct. 2010
			(18%)

(Data from NOAA Online Weather Data, Madison, WI.)

All of the wetlands showed the primary hydrology indicator, "Saturation". They also showed two secondary hydrology indicators, "Geomorphic Position" and "FAC-Neutral Test".

Analysis of Farm Service Agency crop slides showed the all of the crop fields were successfully cropped in the majority of years. Four low spots in the fields were examined on crop slides taken during 6 normal precipitation years (see Appendix I for air photos and analysis results). None of the low areas showed wetland signatures for more than 2 of 6 normal precipitation years.

Nonetheless, the lowest portions of Areas 2 and 4 (Appendix I) were found to be wetlands upon field inspection. No wetland indicators were found in the field for any of the other areas examined on crop slides; hence they were judged to be uplands.

Wetland Soils

The mapped soils of the wetlands are (Figure 6):

	Drainage	
Soil	class	Hydric?
Otter silt loam	Poorly	
(Ot)	Drained	Yes
	Somewhat	
Radford silt loam	Poorly	Hydric
(RaA)	Drained	inclusions

Otter soil forms on stream-bottoms in deep silt loam. Radford soil forms in low drainage-ways in deep silt loam.

The wetland soils observed in the field consisted of black (10 YR 2/1) silt loam or silty clay loam underlain by lighter-colored, low-chroma (e.g. 10 YR 4/2 or 5/2) clay or sandy clay. Plot 2A simply consisted of deep, black silt loam.

Plots 1A and 3A showed the hydric indicator "Depleted Matrix". Plot 2A, however, did not show a hydric indicator but was assumed hydric based on the vegetation, hydrology and landscape position indicators.

Wisconsin Wetland Inventory

The Wisconsin Wetlands Inventory (W.W.I.) map did not identify any wetlands on this site.

Uplands

The uplands consisted of the grassy tops of the ditch banks and almost all of the crop fields (Figures 2, 3, 4 & 5).

Upland Vegetation

Upland vegetation on the tops of ditch banks was dominated by upland grasses, e.g. brome grass and quack grass. However they also contained smaller amounts of reed canary grass, a hydrophyte, and Fac-rate plants like garlic mustard (*Allialaria petiolata*-Fac) and Kentucky blue grass (*Poa pratensis*-

Fac). Scattered plants of burdock (Arctium minus-Upl) and motherwort (Leonurus cardiaca-Upl) were noted as well.

The crop fields were simply dominated by field corn (Zea mays-Upl).

Upland Hydrology

No hydrology indicators were noted in any of the upland sample plots. They were all well-elevated above the nearby wetlands. Moreover, the cropland that was close to the plots, or on which the plots were located, did not show wetland signatures on crop slides in the majority of years.

Upland Soils

The mapped soils of the uplands are (Figure 6):

	Drainage	
Soil	class	Hydric?
Dodge silt loam		
(DnB, C2)	Well Drained	No
McHenry silt loam		
(MdB)	Well Drained	No
Plano silt loam		
(PnA)	Well Drained	No
Otter silt loam	Poorly	
(Ot)	Drained	Yes
	Somewhat	Hydric
	Poorly	Inclusions
Radford silt loam	Drained	
St. Charles silt		
loam		
(ScB)	Well Drained	No

Apart from Otter and Radford (see "Wetland Soils" above), these soils formed in loess over glacial till. Typical profiles consist of silt loam surface layers underlain by silty clay loam and sandy loam till.

In general, upland soils consisted of deep dark (10 YR 2/1 or 2/2) silt loam or silty clay loam. No hydric indicators were observed in any of the upland plots.

In some cases, redox concentrations were noted in upland soils; however they were either too few and faint or they began too deep to qualify as hydric indicators.

Assessment of Wetland Quality per NR 151

Since the wetlands were heavily dominated by reed canary grass and/or occupied dug ditches, they would probably be considered "less susceptible" to storm-water impacts under NR 151.

For "less susceptible" wetlands, the width of the Protective Area, which is an area adjoining waters and wetlands that is free of buildings and impervious surfaces, must be "10% of the average wetland width, but no less than 10 feet nor more than 30 feet" (see NR 151.12, p. 410-1 "Protective Areas").

Project designers must determine the average width of each wetland to find the exact width of the Protective Areas.

These conclusions are merely the opinion of Taylor Conservation LLC; they must be confirmed with WDNR personnel before further planning or development of the property.

Conclusion

The wetland boundaries marked in the field are the best estimate of the locations of the boundaries based on the available vegetation, hydrology and soil evidence on October 22nd of 2010. Wetland boundaries can change over time with changes in vegetation, precipitation, or regional hydrology. The US Army Corps of Engineers and/or the Wisconsin Department of Natural Resources have authority to make the final decision regarding the wetland boundary. Personnel from these agencies may adjust the boundary upon field inspection. The client is advised to delay any development of the property until receiving a formal opinion from regulatory authorities regarding the presence of jurisdictional wetlands on the property.

References

Hurt, G.W. & Vasilas, L.M. 2006. <u>Field Indicators of Hydric Soils in the United States: A Guide for Identifying and Delineating Hydric Soils, Version 6.0</u>. Natural Resource Conservation Service, United States Department of Agriculture.

Reed, P.B. 1988. National List of Plant Species that Occur in Wetlands: Region 3. U.S. Fish and Wildlife Service. Biol. Rept. 88.

US Army Corps of Engineers, Waterways Experiment Station. 1987. Corps of Engineers Wetlands Delineation Manual. Wetlands Research Program Technical Report Y-87-1.

USDA, Natural Resource Conservation Service (NRCS). 2004. <u>Wisconsin Official Hydric Soil List</u> (NRCS website: http://www.wi.nrcs.usda.gov/technical/soil/hyd.html).

Wisconsin Department of Administration, Coastal Management Program. 1995. <u>Basic Guide to</u> Wisconsin's Wetlands and their Boundaries.

Figures

Figure 1: Landscape Overview Map

Source: U.S.G.S. 7.5 Minute Topographical Map, Morrisonville Quadrangle.

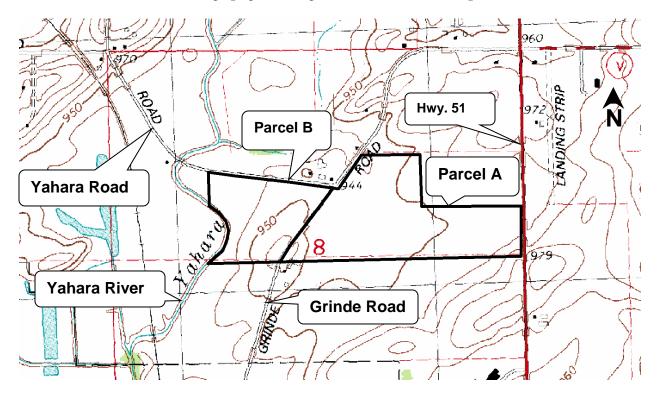


Figure 2: Survey Map - Parcel A.

Source: Vierbicher



Figure 3: Survey Map - Parcel B.

Source: Vierbicher

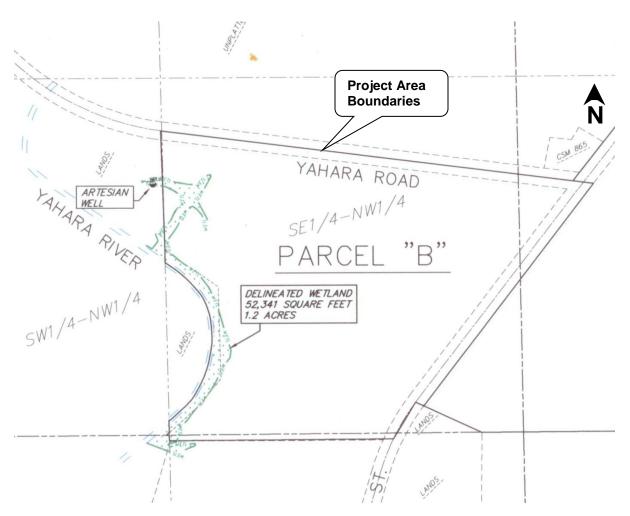


Figure 4: Air Photo, Sample Plots & Wetland Boundary - Parcel A.

Source: National Agricultural Imagery Program, 2008.

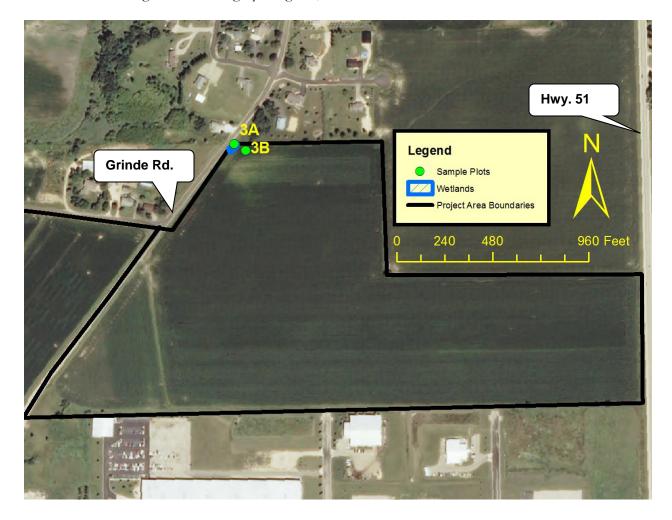


Figure 5: Air Photo, Sample Plots & Wetland Boundary - Parcel B.

Source: National Agricultural Imagery Program, 2008.

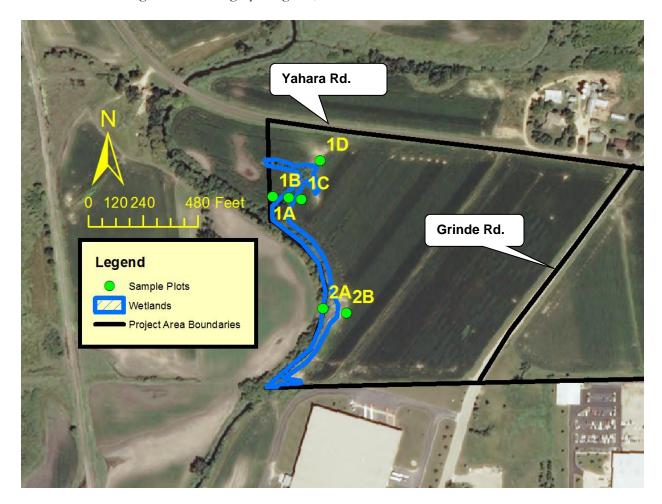
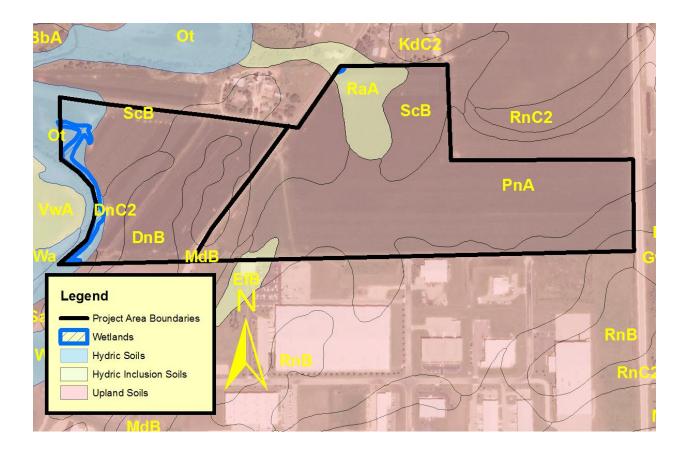
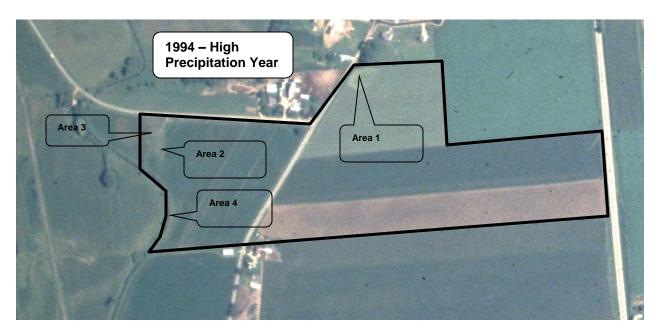


Figure 6: Soils of Project Area.

Source: Natural Resource Conservation Service.



Appendix I: Crop Slide Analysis





NRCS-CPA-32W (1-9-98)

WETLAND DOCUMENTATION RECORD Remotely Sensed Data Summary

Owner/Operate	- 11	- Property			
Slide Reviewe	r Scott	Taylor	Date	e October	12,2010
Site Identifica	ation No		(Tract N	o. + Site No.)	*
Date (Mo./Yr)) vne 1991 ", 92 ", 94 ", 94	Rainfall (in) ThD/N/W (Apr. June ave. 1 1 2 3 2 5	Farm Service A 3. 1 > A vers Interpretation- Area 1 N Y N N	age Raint	all > 1.6"	Area 4
Air Photo		\/ ₆	2/6	76	2/6
CR = cropped (r Feature 1 = water 2 = mud flat 3 = bare spot	6666	Color a = dark green b = light green c = yellow	NC = nc Manipul 7a = dite 7b = tile 7c = fill	ched d ed	
4 = drowned crop 5 = planted late	. 6	id = brown ie = black	8 = ploy	e/brush removal ved/tilled	
Does Slide/Ai	r Photo data ind	icate the site is a	wetland? (y/n)	Noneofa	rear 2-4 are wetlands.
#years o	ut of #year	rs observed have	wet (Y) signa	tures.	

Appendix II: Data Sheets

oject/Site: Hooper Property	City/County: Dane County	Sampling Date: October 22, 2010	-
oplicant/Owner: Village of DeForest vestigator(s): Scott Taylor	State: WI Section, Township, R	Sampling Point: 1A	-
indform (hillslope, terrace, etc.): Toeslope of ditchba		•	=
		M 16N	-
oil Map Unit Name: Otter silt loam (Ot) e climatic/hydrologic conditions of the site typical for this		VI Classification: None no, explain in remarks)	-
e vegetation , soil Yes , or hydrology	significantly disturbed?		
e vegetation, soil, or hydrology	naturally problematic? N	Are "normal circumstances" present? Yes	=
needed, explain any answers in remarks)			
JMMARY OF FINDINGS			_
rdrophytic vegetation present? Yes	Is the sampled area within a wetlan	? Yes	
dric soil present? Yes	If yes, optional wetland site ID:		
etland hydrology present? Yes	,,		
emarks: (Explain alternative procedures here or in a sep-	arate report)		-
e soil was significantly disturbed since it was on the bot			
]
EGETATION - Use scientific names of plants			
Coc delentine names of plante			
		dicator	20% 50%
Salix amygdaloides	% Cover Species 70 Yes	Staus Tree Stratum FacW Sapling/Shrub Stratum	18 45 15 38
Populus deltoides	10 No	Fac Herb Stratum	14 35
Acer negundo	10 No	Woody Vine Stratum	0 0
		Dominance Test Worksheet	
		Number of Dominant Species that are OBL, FACW,	
	 	FAC:	4 (A)
	90 = Total Cover	Total Number of Dominant Species Across all Strat	ta:(B)
Sanling/Shurh	Absoluto Dominant	digator D. L. C. D. L. C. D. L. C. D. C.	
	Absolute Dominant I % Cover Species	dicator Percent of Dominant Species that are OBL, FACW, FAC:	or 100% (A/I
Salix discolor	75 Yes	FacW	10070 (70
		<u></u>	
		Prevalence Index Worksheet	
		Total % Cover of: OBL species	x 1 = 0
		FACW species 195	x 2 = 390
		FAC species 35	x 3 = 105
		FACU species 5	x 4 = 20 x 5 = 0
		Column totals 235	(A) 515 (B)
	75 = Total Cover	Prevalence Index = B/A =	2.191489
		Hydrophytic Vegetation Indicators:	
Phalaris arundinacea	% Cover Species 40 Yes	Staus Hydrophytic Vegetation Indicators: FacW Rapid test for hydrophytic vegetation	
Geum canadense	25 Yes	Fac X Dominance test is >50%	
Taraxacum officinale	5 No	FacU Prevalence index is ≤3.0*	
<u></u>		Morphogical adaptations* (provide suppo	rting data in Remar
		or on a separate sheet)	J
		Problematic hydrophytic vegetation* (exp	vlain)
		Problematic hydrophytic vegetation* (exp	iaiii)
		*Indicators of hydric soil and wetland hydrology mus	t be present, unless
<u></u>	70 = Total Cover	disturbed or problematic	
ody Vine Stratum Plot Size (2,826 sf)		dicator	
ouy vine Stratum Flot Size (2,020 Si)	% Cover Species	Staus	
			
		Hydrophytic vegetation present? Yes	
	0 = Total Cover		

US Army Corps of Engineers

Northcentral and Northeast Region

SOIL								Sampling Point: 1A
Profile Desc	crintion: (Descri	he to the	a denth needed t	o documer	nt the indicator or conf	irm the absence	of indicators)	
Depth	Matrix	De lo lin	e depui needed t		edox Features	iiii tile abselle		Remarks
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks
0-3 3-18	10 YR 2/1 2.5 Y 5/1	100 95	None 10 YR 5/6	5	С	PL	Silt loam Sandy clay	
0.0	2.0 1 0/1		10 111 0/0				Suriay slay	
*Type: C=C M=Matrix	Concentration, D	=Depleti	on, RM=Reduce	d Matrix, C	S=Covered or Coated	Sand Grains		**Location: PL=Pore Lining,
Hydric Soil	Indicators:						Indicators for Problem	natic Hydric Soils*:
Histisol	(A1)						2 cm Muck (A1	10) (LRR K, L, MLRA 149B
	Epipedon (A2)		Polyvalu	e Below S	urface (S8) (LRR R, I	MLRA 149B)		Redox (A16) (LRR K, L, R)
	Histic (A3)					=		eat or Peat (S3) (LRR K, L, R)
Hydroge	en Sulfide (A4)		I hin Da	rk Surface	(S9) (LRR R, MLRA	149B	Dark Surface (S/) (LRR K, L
Deplete Thick D Sandy I Sandy I Sandy I Stripped Dark St 149B)	ed Layers (A5) ed Below Dark Su Dark Surface (A1: Mucky Mineral (S Gleyed Matrix (S Redox (S5) d Matrix (S6) urface (S7) (LRF of hydrophytic ve	2) 51) 64) R R, ML	Loamy (X Depleter Redox I Depleter Redox I	Gleyed Mard Mard Matrix (F Dark Surfact Dark Sur Depression	3) ce (F6) face (F7)	disturbed or pr	Thin Dark Surf Iron-Manganes Piedmont Floo Mesic Spodic (Red Parent Ma Very Shallow I Other (Explain	Dark Surface (TF12)
Restrictive I Type: Depth (inch	Layer (if observe	ed):	None				Hydric soil pre	esent? Yes
	on the toe-slope	of a dito	ch; the soil may h	ave been	disturbed as a result o	f ditch excavati	on.	
HYDROL	.OGY							
Primary Ind	licators (minimur	n of one	is required; che	ck all that a	apply)			Secondary Indicators (minimum of two equired)
Surface	Water (A1)		Wate	er-Stained I	eaves (B9)		10	Surface Soil Cracks (B6)
	ater Table (A2)			atic Fauna (-	Drainage Patterns (B10)
X Saturation				Deposits (I			_	Moss Trim Lines (B16)
	Marks (B1) nt Deposits (B2)			ogen sunc	le Odor (C1)		=	_ Dry-Season Water Table (C2) Crayfish Burrows (C8)
	posits (B3)		Oxid	ized Rhizos	spheres on Living Roots	s (C3)	_	,
	at or Crust (B4)		Pres	ence of Re	duced Iron (C4)		_	_Saturation Visible on Aerial Imagery (C9)
	posits (B5) ion Visible on Aer	ial	Rece	ent Iron Red	duction in Tilled Soils (C	26)	X	Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Imagery		iai		Muck Surfa		,0)		Shallow Aquitard (D3)
	y Vegetated Cond	cave			n Remarks)		X	FAC-Neutral Test (D5)
Surface	(B8)		· 				_	Microtopographic Relief (D4)
Field Obser	rvations:							T
	iter present?	Yes	No	X De	pth (inches):			
Water table	present?	Yes	X No	De	pth (inches):		12	
Saturation p	present? apillary fringe)	Yes	X No	De	pth (inches):		6	Wetland hydrology present? Yes
(III COLUCES CE	upinary ititiye <i>)</i>							
Describe re	ecorded data (str	eam ga	uge, monitoring v	vell, aerial	photos, previous inspe		able:	•
					N	one		
Remarks:								
The plot is o	on the toe-slope	of a dito	th, where prolong	ged freque	nt saturation is likely.			

US Army Corps of Engineers

Northcentral and Northeast Region

Project/Site: F	Hooper Property		City/Cou	nty: Dane County	Sampling	Date: October 22, 1	2010
applicant/Owner:	: Village of Def	orest		State: W		ling Point: 1	В
nvestigator(s):				Section, Town		Section 8, T9N, R10E	
andform (hillslo _l lope (%): 2	pe, terrace, etc.):	High bench 3° 15' 42.5"N	Long : 90° 20' 5		ive, convex, none): n: UTM 16N	Convex	
	me: Otter silt loam		_Long.: 89° 20' 5	Datuii	WWI Classification	n: None	
	ologic conditions of		or this time of the	year? Yes	(If no, explain in re		
re vegetation _		, or hydrol	٠, ٠	ficantly disturbed?	No		
re vegetation _ f needed, expla	, soil in any answers in re	, or hydrol emarks)	ogynatu	rally problematic?	No Are "norm	al circumstances" present?	Yes
UMMARY O	F FINDINGS						
	etation present?	No	Is the sa	mpled area within a	wetland?	No	
ydric soil presei /etland hydrolog	nt?	No No		otional wetland site			
emarks: (Expla	in alternative proced	dures here or in a	a separate report.)			
/EGETATION	l - Use scientific	names of plar	nts				
Tree Stratum	n Plot Size (2,826 sf)	Absolute	Dominant	Indicator	Troc Stratum	20% 50% 0 0
1			% Cover	Species	Staus	Tree Stratum Sapling/Shrub Stratum	0 0
2						Herb Stratum	26 65
3 4						Woody Vine Stratum	0 0
5						Dominance Test Worksl	heet
7 8						· ·	pecies that are OBL, FACW, or
9						FAC:	(A)
				= Total Cover		Total Number of Domi	inant Species Across all Strata: 1 (B)
Sapling/Shurl Stratum	Plot Size (2,826 sf)	Absolute % Cover	Dominant Species	Indicator Staus	Percent of Dominant Sp FAC:	pecies that are OBL, FACW, or 0% (A/E
2						Prevalence Index Works	chaot
4						Total % Cover of:	sileet.
5						OBL species	x 1 = 0
3						FACW species	20 x 2 = 40
7 3						FAC species FACU species	10 x 3 = 30 x 4 = 0
) 9						UPL species	100 x 5 = 500
						Column totals	130 (A) 570 (B)
				= Total Cover		Prevalence Index = B/A	4.3846154
Herb Stratum	n Plot Size (78.5 sf)	Absolute % Cover	Dominant Species	Indicator Staus	Hydrophytic Vegetation	Indicators
1	Bromus inermis	s	70	Yes	Upl		r hydrophytic vegetation
2	Phalaris arundina		20	No	FacW	Dominance t	
3	Arctium minus			No	Upl	Prevalence i	ndex is ≤3.0*
4 5 6	Leonurus cardia Allialaria petiola		10	No No	Upl Fac	Morphogical on a separat	adaptations* (provide supporting data in Remarks
7							hydrophytic vegetation* (explain)
9							, yer regerment (orleanly
1			 			*Indicators of hydric soil disturbed or problematic	and wetland hydrology must be present, unless
			Abcoluto	= Total Cover	Indicator		
loody Vine Stra	atum Plot Size (2,826 sf)	Absolute % Cover	Dominant Species	Indicator Staus		
•							
12							
123							
1 2 3 4 5 5			0	= Total Cover		Hydrophytic present?	vegetation No

SOIL Sampling Point: 1B

Depth (Inches)	Matrix							
	Color (moist)	%	Color (moist)	%	edox Features Type*	Loc**	Texture	Remarks
0-14	10 YR 2/1	100	None	70	Турс	200	Silt loam	
14-18	10 YR 2/1	95	10 YR 4/6	5	С	PL	Silt loam	
Type: C=C	Concentration, D=	Depletion	on, RM=Reduced	Matrix, CS	=Covered or Coated	Sand Grains		**Location: PL=Pore Lining, M=Matri
Hydric Soil	Indicators:						Indicators for Probler	natic Hydric Soils*:
Histisol	I (A1)						2 cm Muck (A	10) (LRR K, L, MLRA 149B
Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, MLRA 149B)						ILRA 149B)		Redox (A16) (LRR K, L, R)
	Histic (A3)		This Dea	l. C	CO) / DD D M DA	140D		Peat or Peat (S3) (LRR K, L, R)
Hyarog	gen Sulfide (A4)		Inin Dar	к Ѕипасе (S9) (LRR R, MLRA 1	1498	Dark Surface	(S7) (LRR K, L
Stratifie	ed Layers (A5)						Polyvalue Bel	ow Surface (S8) (LRR K, L)
	ed Below Dark Su		· —		ral (F1) (LRR K, L)			face (S9) (LRR K, L)
	Dark Surface (A12			Bleyed Matri				se Masses (F12) (LRR K, L, R)
	Mucky Mineral (S			Matrix (F3				odplain Soils (F19) (MLRA 149B)
	Gleyed Matrix (S4	4)		ark Surface				(TA6) (MLRA 144A, 145, 149B)
	Redox (S5) ed Matrix (S6)			I Dark Surfa epressions			Red Parent M Very Shallow	Dark Surface (TF12)
	urface (S7) (LRR	R, MLF			v =1		Other (Explain	
149B)	. , ,							
'Indicators	of hydrophytic ve	getatior	and weltand hyd	drology mus	t be present, unless	disturbed or prol	olematic	
	Layer (if observed	d):	None				Hudria aail n	rangat? No
Type: Depth (inch	>						Hydric soil pr	resent? No
Doptii (iiioi								
Remarks:								
The redox	concentrations be	gin too	doon to qualify a	ماز مانداند بما ما م				
			ueep to quality as	s a nyunc in	idicator. No B horizoi	n was encounter	ed.	
			deep to quality as	s a nyonc in	idicator. No B horizoi	n was encounter	ed.	
			ueep to quality as	s a nyunc ir	idicator. No B horizoi	n was encounter	ed.	
UVDBOL	OCY		ueep to quality as	s a nyonc ir	idicator. No B horizoi	n was encounter	ed.	
		of one				n was encounter		Secondary Indicators (minimum of two
Primary Inc	dicators (minimum	of one	is required; chec	k all that ap	ply)	n was encounter		required)
Primary Inc	dicators (minimum e Water (A1)	of one	is required; chec	k all that ap	ply) eaves (B9)	n was encounter		required)Surface Soil Cracks (B6)
Primary Inc Surface High W	dicators (minimum e Water (A1) /ater Table (A2)	n of one	is required; chec Wate	k all that ap er-Stained Lo atic Fauna (E	ply) eaves (B9) 313)	n was encounter		required) Surface Soil Cracks (B6) Drainage Patterns (B10)
Surface High W Saturat	dicators (minimum e Water (A1) /ater Table (A2) tion (A3)	of one	is required; chec Wate Aque Marl	k all that ap er-Stained Lo atic Fauna (E Deposits (B	ply) eaves (B9) 313) 15)	n was encounter		required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16)
Surface High W Saturat Water N	dicators (minimum e Water (A1) /ater Table (A2) tion (A3) Marks (B1)	of one	is required; chec Wate Aque Marl	k all that ap er-Stained Lo atic Fauna (E	ply) eaves (B9) 313) 15)	n was encounter		required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2)
Surface High W Saturat Water M Sedime	dicators (minimum e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2)	n of one	is required; chec Wate Aque Marl Hydr	k all that ap er-Stained Li atic Fauna (I Deposits (B ogen Sulfide	ply) eaves (B9) 313) 15) e Odor (C1)			required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16)
Surface High W Saturat Water M Sedime Drift De	dicators (minimum e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3)	n of one	is required; chec Wate Aque Marl Hydr	k all that ap er-Stained Li tic Fauna (E Deposits (B ogen Sulfide ized Rhizos)	ply) eaves (B9) 313) 15) e Odor (C1) pheres on Living Rool			required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Surface High W Saturat Water N Sedime Drift De	dicators (minimum e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2)	ı of one	is required; chec Wate Aque Marl Hydr	k all that ap er-Stained Li tic Fauna (E Deposits (B ogen Sulfide ized Rhizos)	ply) eaves (B9) 313) 15) e Odor (C1)			required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2)
Surface High W Saturat Water M Sedime Drift De Algal M	dicators (minimum e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) flat or Crust (B4)		is required; chec Wate Aque Marl Hydr Oxid	k all that ap er-Stained Li atic Fauna (I Deposits (B ogen Sulfide ized Rhizos) ence of Red	ply) eaves (B9) 313) 15) e Odor (C1) pheres on Living Rool	ls (C3)		required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Surface High W Saturat Water M Sedime Drift De Algal M	dicators (minimum e Water (A1) /ater Table (A2) ition (A3) Marks (B1) ent Deposits (B2) eposits (B3) flat or Crust (B4) eposits (B5) tion Visible on Aeri		is required; chec Wate Aque Marl Hydr Oxid Pres Recc Thin	k all that ap er-Stained Litic Fauna (t Deposits (B ogen Sulfide ized Rhizos ence of Red ent Iron Red Muck Surfa	ply) eaves (B9) 313) 15) e Odor (C1) pheres on Living Rool luced Iron (C4) uction in Tilled Soils (ls (C3)		required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3)
Surface High W Saturat Water M Sedime Drift De Algal M Iron De Inundat Imagen Sparsel	dicators (minimum e Water (A1) fater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) fat or Crust (B4) eposits (B5) tion Visible on Aeri y (B7)	ial	is required; chec Wate Aque Marl Hydr Oxid Pres Recc Thin	k all that ap er-Stained L stic Fauna (E Deposits (B ogen Sulfide ized Rhizos; ence of Red ent Iron Red	ply) eaves (B9) 313) 15) e Odor (C1) pheres on Living Rool luced Iron (C4) uction in Tilled Soils (ls (C3)		required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Surface High W Saturat Water M Sedime Drift De Algal M Iron De Inundat	dicators (minimum e Water (A1) fater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) fat or Crust (B4) eposits (B5) tion Visible on Aeri y (B7)	ial	is required; chec Wate Aque Marl Hydr Oxid Pres Recc Thin	k all that ap er-Stained Litic Fauna (t Deposits (B ogen Sulfide ized Rhizos ence of Red ent Iron Red Muck Surfa	ply) eaves (B9) 313) 15) e Odor (C1) pheres on Living Rool luced Iron (C4) uction in Tilled Soils (ls (C3)		required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3)
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Surface Surface High W Saturat Water M Sedime Drift De Algal M Iron De Inundat Imagen Sparsel Surface	dicators (minimum e Water (A1) /ater Table (A2) /ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) /tion Visible on Aeri y (B7) ly Vegetated Conce (B8)	ial	is required; chec Wate Aque Marl Hydr Oxid Pres Recc Thin	k all that ap er-Stained Li tic Fauna (E Deposits (B ogen Sulfide ized Rhizos) ence of Red Muck Surfa r (Explain in	ply) eaves (B9) 313) 15) e Odor (C1) pheres on Living Rool luced Iron (C4) uction in Tilled Soils (ls (C3)		required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
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Primary Inco Surface High W Saturat Water M Sedime Drift De Inundat Imagen Sparsel Surface wa Water table Saturation	dicators (minimum be Water (A1) later Table (A2) lion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) tion Visible on Aeri y (B7) ly Vegetated Conce le (B8) rivations: later present? e present?	ial cave Yes	is required; chec Wate Aque Marl Hydr Oxid Pres Rece Thin Othe	k all that ap er-Stained L title Tana (E Deposits (B ogen Sulfide ized Rhizos) ence of Red Muck Surfa r (Explain in	ply) saves (B9) 313) 15) e Odor (C1) pheres on Living Rool uced Iron (C4) uction in Tilled Soils (ce (C7) Remarks)	ls (C3)		required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
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Primary Inc Surface High W Saturat Water N Sedime Drift De Algal M Iron De Inundat Imagen Sparsel Surface Surface wa Water table Saturation Cincludes ci	dicators (minimum be Water (A1) later Table (A2) lition (A3) Marks (B1) more the Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) tion Visible on Aeri y (B7) ly Vegetated Conce a (B8) rvations: ater present? present? present?	ial eave Yes Yes Yes	is required; chec Wate Aque Marl Hydr Oxid Pres Recc Thin Othe No No No So ge, monitoring w	k all that ap pr-Stained Li tic Fauna (f Deposits (B ogen Sulfide ized Rhizos) ence of Red Muck Surfa r (Explain in X Dep X Dep C Dep Ell, aerial pi	ply) eaves (B9) 313) 15) e Odor (C1) pheres on Living Root uced Iron (C4) uction in Tilled Soils (ce (C7) Remarks) with (inches): th (inches): th (inches):	ts (C3) C6)		required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Microtopographic Relief (D4) Wetland hydrology present? No
Primary Inc Surface High W Saturat Water N Sedime Drift De Algal M Iron De Inundat Imagen Sparsel Surface Surface wa Water table Saturation includes ci	dicators (minimum be Water (A1) later Table (A2) lition (A3) Marks (B1) more the Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) tion Visible on Aeri y (B7) ly Vegetated Conce a (B8) rvations: ater present? present? present?	ial eave Yes Yes Yes	is required; chec Wate Aque Marl Hydr Oxid Pres Recc Thin Othe No No No So ge, monitoring w	k all that ap pr-Stained Li tic Fauna (f Deposits (B ogen Sulfide ized Rhizos) ence of Red Muck Surfa r (Explain in X Dep X Dep C Dep Ell, aerial pi	ply) eaves (B9) 313) 15) e Odor (C1) pheres on Living Root uced Iron (C4) uction in Tilled Soils (ce (C7) Remarks) with (inches): th (inches): th (inches):	ts (C3) C6)		required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Microtopographic Relief (D4) Wetland hydrology present? No
Primary Incomplete Surface Water No. 1 Sedime Drift De Algal Multon De Inundat Imagen Surface Water table Surface was Water table Saturation I includes co	dicators (minimum be Water (A1) later Table (A2) lition (A3) Marks (B1) more the Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) tion Visible on Aeri y (B7) ly Vegetated Conce a (B8) rvations: ater present? present? present?	ial eave Yes Yes Yes	is required; chec Wate Aque Marl Hydr Oxid Pres Recc Thin Othe No No No So ge, monitoring w	k all that ap pr-Stained Li tic Fauna (f Deposits (B ogen Sulfide ized Rhizos) ence of Red Muck Surfa r (Explain in X Dep X Dep C Dep Ell, aerial pi	ply) eaves (B9) 313) 15) e Odor (C1) pheres on Living Root uced Iron (C4) uction in Tilled Soils (ce (C7) Remarks) with (inches): th (inches): th (inches):	ts (C3) C6)		required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Microtopographic Relief (D4) Wetland hydrology present? No
Surface Finally Inc. Surface High W Saturat Water M Sedime Drift De Algal M Iron De Inundat Imagen Sparsel Surface Surface Surface Surface Water table Surface wa Water table Surface Sur	dicators (minimum e Water (A1) later Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) tion Visible on Aeri y (B7) ly Vegetated Conce e (B8) rvations: alter present? present? present? apillary fringe) ecorded data (stree	Yes Yes Yes Yes The ne	is required; chec Wate Aque Marl Hydr Oxid Pres Recc Thin Othe No No No So Ge, monitoring wearby cropland at	k all that ap er-Stained Li tic Fauna (t Deposits (B ogen Sulfide ized Rhizos; ence of Red Muck Surfa r (Explain in X Dep X Dep Lell, aerial pf the same e	ply) eaves (B9) 313) 15) e Odor (C1) pheres on Living Rool uced Iron (C4) uction in Tilled Soils (ce (C7) Remarks) with (inches): with (inches): with (inches): with (inches): with (inches):	ts (C3) C6)		required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Microtopographic Relief (D4) Wetland hydrology present? No
Surface High W Saturat Water M Sedime Drift De Algal M Iron De Inundat Imagen Sparsel Surface Surface Surface wa/ater table aturation ncludes cr	dicators (minimum be Water (A1) later Table (A2) lition (A3) Marks (B1) more the Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) tion Visible on Aeri y (B7) ly Vegetated Conce a (B8) rvations: ater present? present? present?	Yes Yes Yes Yes The ne	is required; chec Wate Aque Marl Hydr Oxid Pres Recc Thin Othe No No No So Ge, monitoring wearby cropland at	k all that ap er-Stained Li tic Fauna (t Deposits (B ogen Sulfide ized Rhizos; ence of Red Muck Surfa r (Explain in X Dep X Dep Lell, aerial pf the same e	ply) eaves (B9) 313) 15) e Odor (C1) pheres on Living Rool uced Iron (C4) uction in Tilled Soils (ce (C7) Remarks) with (inches): with (inches): with (inches): with (inches): with (inches):	ts (C3) C6)		required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Microtopographic Relief (D4) Wetland hydrology present? No

Project/Site: Hooper Property City/County: Dane County	Sampling Date: October 22, 2010
Applicant/Owner: Village of DeForest State: WI	
Investigator(s): Scott Taylor Section, Township	
Landform (hillslope, terrace, etc.): High bench Local relief (concave. Slope (%): 2 Lat.: 43° 15' 42.5"N Long.: 89° 20' 5.3" W Datum:	
Soil Map Unit Name: Otter silt loam (Ot)	WWI Classification: None
Are climatic/hydrologic conditions of the site typical for this time of the year? Yes	(If no, explain in remarks)
Are vegetation , soil , or hydrology significantly disturbed? Are vegetation , soil , or hydrology naturally problematic?	No No Are "normal circumstances" present? Yes
(If needed, explain any answers in remarks)	
SUMMARY OF FINDINGS	
Hydrophytic vegetation present? No Is the sampled area within a we	wetland? No
Hydric soil present? No If yes, optional wetland site ID:	
Wetland hydrology present? NoNo	
Remarks: (Explain alternative procedures here or in a separate report.)	
VEGETATION - Use scientific names of plants	
To Club and District Control Absolute Dominant	Indicator 20% 50%
Tree Stratum Plot Size (2,826 sf) % Cover Species	Staus Tree Stratum 0 0
1	Sapling/Shrub Stratum 0 0 0 Herb Stratum 26 65
3	Woody Vine Stratum 0 0
4	
5	Dominance Test Worksheet
7	
8	Number of Dominant Species that are OBL, FACW, or
9	FAC:
= Total Cover	Total Number of Dominant Species Across all Strata:(
Sapling/Shurb Plot Size (2,826 sf) Absolute Dominant	Indicator Percent of Dominant Species that are OBL, FACW, or
Stratum Stratum % Cover Species	Staus FAC: 0% (
3	Prevalence Index Worksheet
4	Total % Cover of: OBL species x 1 = 0
6	FACW species 15 x 2 = 30
7	FAC species x 3 = 0
8	FACU species
10	Column totals 130 (A) 605 (
0 = Total Cover	Prevalence Index = B/A = 4.6538462
Herb Stratum Plot Size (78.5 sf) Absolute Dominant % Cover Species	Indicator Staus Hydrophytic Vegetation Indicators:
1 Bromus inermis 100 Yes	Upl Rapid test for hydrophytic vegetation
2 Phalaris arundinacea 15 No	FacW Dominance test is >50%
3 <u>Arctium minus</u> 15 No	Upl Prevalence index is ≤3.0*
5 6	Morphogical adaptations* (provide supporting data in Rema on a separate sheet)
7	Problematic hydrophytic vegetation* (explain)
9	
10	
12	*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
130 = Total Cover	
Woody Vine Stratum Plot Size (2,826 sf) Absolute Dominant Species	Indicator Staus
2	
3	
5	Hydrophytic vegetation
0 = Total Cover	present? No
Remarks: (Include photo numbers here or on a separate sheet) The plot is in an open, grassy area.	
The piece in an open, grassy area.	
1	

SOIL Sampling Point: 1C

Depth Matrix	(depth needed to	Redo	x Features		Texture	Remarks
(Inches) Color (moist)	% 100	Color (moist)	%	Type*	Loc**		ivelliaiva
0-22 10 YR 2/1	100	None				Silty clay loam	
Type: C=Concentration, E)=Depletion	on, RM=Reduced	Matrix, CS=Co	overed or Coated	Sand Grains		**Location: PL=Pore Lining, M=Matri
ydric Soil Indicators:						Indicators for Proble	ematic Hydric Soils*:
Histisol (A1)						2 cm Muck (A10) (LRR K, L, MLRA 149B
Histic Epipedon (A2)		Polyvalu	e Below Surfac	ce (S8) (LRR R, M	/ILRA 149B)	Coast Prairie	e Redox (A16) (LRR K, L, R)
Black Histic (A3) Hydrogen Sulfide (A4)		Thin Dar	k Surface (SO)	(LRR R, MLRA 1	140B		Peat or Peat (S3) (LRR K, L, R) e (S7) (LRR K, L
Hydrogen Suilide (A4)			k Surface (S9)	(LIKK K, WILKA	1490	Daik Sullace	(37) (LKK K, L
Stratified Layers (AE)						Dobarduo Po	Now Surface (S9) (LDD K. L.)
Stratified Layers (A5) Depleted Below Dark	Suface (A	11) Loamy M	Mucky Mineral ((F1) (LRR K, L)			elow Surface (S8) (LRR K, L) urface (S9) (LRR K, L)
Thick Dark Surface (A			Bleyed Matrix (F				ese Masses (F12) (LRR K, L, R)
Sandy Mucky Mineral			d Matrix (F3)				oodplain Soils (F19) (MLRA 149B)
Sandy Gleyed Matrix (Sandy Redox (S5)	S4)		ark Surface (F Dark Surface				c (TA6) (MLRA 144A, 145, 149B) Material (TF2)
Stripped Matrix (S6)			epressions (F8				v Dark Surface (TF12)
Dark Surface (S7) (LR	R R, MLF		.,	,			in in Remarks)
149B)					aliatla a al a a a a a l	I	
ndicators of hydrophytic	vegetation	rand welland hyd	arology must be	e present, unless	disturbed or prob	rematic	
		Ness					
estrictive Layer (if observ	rea):	None					
vne:						Hydric soil r	present? No
ype: epth (inches):						Hydric soil p	present? No
epth (inches):						Hydric soil p	present? No
epth (inches):emarks:	ered.					Hydric soil p	oresent? No No
epth (inches):	ered.					Hydric soil p	oresent? No
epth (inches):emarks:	ered.					Hydric soil (oresent? No
epth (inches): emarks: o B horizon was encount	ered.					Hydric soil p	oresent? No
epth (inches): emarks: o B horizon was encount						Hydric soil p	
epth (inches): emarks: o B horizon was encount		is required; chec	k all that apply,)		Hydric soil p	Secondary Indicators (minimum of two required)
epth (inches): emarks: o B horizon was encount IYDROLOGY rimary Indicators (minimu Surface Water (A1)		Wate	er-Stained Leav	es (B9)		Hydric soil p	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6)
epth (inches): emarks: o B horizon was encount IYDROLOGY rimary Indicators (minimu Surface Water (A1) High Water Table (A2)		Wate Aqua	er-Stained Leav atic Fauna (B13	es (B9)		Hydric soil p	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10)
epth (inches): emarks: o B horizon was encount IYDROLOGY rimary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3)		Wate Aqua Marl	er-Stained Leav atic Fauna (B13 Deposits (B15)	es (B9))		Hydric soil p	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16)
epth (inches): emarks: o B horizon was encount IYDROLOGY rimary Indicators (minimu Surface Water (A1) High Water Table (A2)	um of one	Wate Aqua Marl	er-Stained Leav atic Fauna (B13	es (B9))		Hydric soil p	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10)
epth (inches): emarks: o B horizon was encount IYDROLOGY rimary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	um of one	Wate Aque Marl Hydr	er-Stained Leav atic Fauna (B13 Deposits (B15) rogen Sulfide O	es (B9)) dor (C1) res on Living Root	ts (C3)	Hydric soil p	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8)
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epth (inches): emarks: o B horizon was encount IYDROLOGY rimary Indicators (minimu. 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 A Imagery (B7) Sparsely Vegetated Co Surface (B8) ield Observations: urface water present? ater table present? aturation present? aturation present?	um of one) erial ncave Yes Yes Yes	Wate Aque Marl Hydr Oxid Pres Rece Thin Othe No No No See, monitoring w	er-Stained Leav atic Fauna (B13) Deposits (B15) orgen Sulfide Or ized Rhizosphe ence of Reduce ent Iron Reduct Muck Surface (er (Explain in Re X Depth (X Depth (X Depth (es (B9)) dor (C1) res on Living Root d Iron (C4) on in Tilled Soils ((C7) emarks) (inches): (inches): (inches):	cctions), if availab	le:	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Microtopographic Relief (D4) Wetland hydrology present? No

Project/Site: Hooper Property	State: WI Section, Township, Range:	
SUMMARY OF FINDINGS Hydrophytic vegetation present? No No Wetland hydrology present? No	Is the sampled area within a wetland? If yes, optional wetland site ID: parate report.)	No
VEGETATION - Use scientific names of plants Tree Stratum Plot Size (2,826 sf) 1 2 3 4 5 6 7 8 9 10	Absolute Dominant Indicator % Cover Species Staus	20% 50%
Sapling/Shurb Stratum Plot Size (2,826 sf) 1	0 = Total Cover Absolute Dominant Indicator % Cover Species Staus	Total Number of Dominant Species Across all Strata: 3 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 33% (A/B) Prevalence Index Worksheet
Herb Stratum	Total Cover	Column totals Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Rapid test for hydrophytic vegetation Dominance test is >50% Prevalence index is ≤3.0* Morphogical adaptations* (provide supporting data in Remarks or on a separate sheet) Problematic hydrophytic vegetation* (explain) *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
Woody Vine Stratum Plot Size (2,826 sf) 1 2 3 4 5 Remarks: (Include photo numbers here or on a separate The plot is in an open, grassy area.	Absolute Dominant Indicator % Cover Species Staus 0 = Total Cover sheet)	

SOIL Sampling Point: 1D

rofile Description: (Description: Matrix		1	D,	dov Features			
Depth Matrix (Inches) Color (moist)	%	Color (moist)	%	edox Features Type*	Loc**	Texture	Remarks
0-16 10 YR 2/1	100	None	/0	туре	LUC	Silty clay loam	
16-22 10 YR 2/1	99	10 YR 4/6	1	С	PL	Silty clay loam	
10 22 10 11(2)1	00	10 11(4/0	· ·			City day loam	
ype: C=Concentration, E	=Depleti	on, RM=Reduced	d Matrix, CS	=Covered or Coated	Sand Grains		**Location: PL=Pore Lining, M=Matri
ydric Soil Indicators:						Indicators for Proble	matic Hydric Soils*:
Histisol (A1)						2 cm Muck (A10) (LRR K, L, MLRA 149B
Histic Epipedon (A2)		Polyvalu	ie Below Su	rface (S8) (LRR R, N	ILRA 149B)		Redox (A16) (LRR K, L, R)
Black Histic (A3)		′		, ,, ,	,	5 cm Mucky	Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)		Thin Dar	rk Surface (69) (LRR R, MLRA 1	149B	Dark Surface	e (S7) (LRR K, L
Stratified Layers (A5)							elow Surface (S8) (LRR K, L)
_ Depleted Below Dark S		· —	•	al (F1) (LRR K, L)			Irface (S9) (LRR K, L)
Thick Dark Surface (A			Gleyed Matri				ese Masses (F12) (LRR K, L, R) podplain Soils (F19) (MLRA 149B)
Sandy Mucky Mineral			d Matrix (F3				
Sandy Gleyed Matrix (Sandy Redox (S5)	54)		oark Surface d Dark Surfa				c (TA6) (MLRA 144A, 145, 149B) Material (TF2)
Stripped Matrix (S6)			Dark Surra Depressions				Dark Surface (TF12)
Dark Surface (S7) (LR	R R. MI F		p. 00010110	· -/			in in Remarks)
149B)	,						•
ndicators of hydrophytic	egetation	n and weltand hyd	drology mus	t be present, unless	disturbed or prob	olematic	
					_		
estrictive Layer (if observ	ed):	None					
/pe:	,						
						Hydric soil p	present? No
epth (inches):						Hydric soil p	present? No
						Hydric soil p	present? No No
epth (inches):emarks:							
epth (inches):	vere very	r few and faint. Th	ney were als	o too deep to qualify	as a hydric indic		
epth (inches):emarks:	vere very	r few and faint. Th	ney were als	o too deep to qualify	as a hydric indic		
epth (inches):emarks:	vere very	r few and faint. Th	ney were als	o too deep to qualify	as a hydric indid		
epth (inches): emarks: ue redox concentrations v	were very	r few and faint. Th	ney were als	o too deep to qualify	as a hydric indid		
epth (inches): emarks: ele redox concentrations v					as a hydric indid		
emarks: en redox concentrations of the redox concentration		is required; chec	ck all that ap	ply)	as a hydric indic		encountered. Secondary Indicators (minimum of two required)
epth (inches): emarks: le redox concentrations of the concentration o		is required; chec	ck all that ap er-Stained Le	ply) eaves (B9)	as a hydric indic		encountered. Secondary Indicators (minimum of two required) _Surface Soil Cracks (B6)
epth (inches):emarks: see redox concentrations of the redox concentrations of th		is required; chec	ck all that ap er-Stained Le atic Fauna (E	ply) eaves (B9)	as a hydric indic		encountered. Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10)
epth (inches): emarks: eredox concentrations of the properties o		is required; chec Wate Aque Marl	ck all that ap er-Stained Lo atic Fauna (E Deposits (B	ply) eaves (B9) 313) 15)	as a hydric indic		encountered. Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16)
emarks: ere redox concentrations versions for the redox concentrations versions version		is required; chec Wate Aque Marl	ck all that ap er-Stained Le atic Fauna (E	ply) eaves (B9) 313) 15)	as a hydric indic		encountered. Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2)
epth (inches): emarks: ee redox concentrations of the properties		is required; chec Wate Aquu Marl Hydr	ck all that ap er-Stained Le atic Fauna (E Deposits (B rogen Sulfide	ply) eaves (B9) 113) 15) e Odor (C1)			encountered. Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16)
PyDROLOGY imary Indicators (minimu. Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2, Drift Deposits (B3)		is required; chece Wate Aque Marl Hydr	ck all that ap er-Stained Lo atic Fauna Deposits (B rogen Sulfide dized Rhizos)	ply) eaves (B9) 113) 15) e Odor (C1) pheres on Living Root			encountered. Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8)
epth (inches): emarks: he redox concentrations was redox redo		is required; chece Wate Aque Marl Hydr	ck all that ap er-Stained Lo atic Fauna Deposits (B rogen Sulfide dized Rhizos)	ply) eaves (B9) 113) 15) e Odor (C1)			encountered. Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
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Project/Site: Ho	ooper Property	WEILAND DI	City/Cou	inty: Dane C			ling Date		October 22, 2010		
Applicant/Owner:	Village of DeFo	orest		State:	WI		ampling I		2A		-
nvestigator(s): So					, Township			Section 8,			-
andform (hillslope		Low bench				convex, none):			Concave		- -
Slope (%): 0	Lat.: 43 ne: Otter silt loam	° 15' 42.5"N	_Long.: 89° 20' 5	5.3" W	Datum:	UTM 16N WWI Classific	ation:	None			=
	ogic conditions of t	he site typical fo	r this time of the	year?	Yes	(If no, explain					-
Are vegetation	, soil	X , or hydrolo	ogysign	ificantly distur							
Are vegetation	, soil X	, or hydrolo	ogynatu	rally problema	atic?	Are "n	normal cir	cumstance	s" present?	Yes	_
ır needed, expiain	any answers in rei	marks)									
SUMMARY OF	FINDINGS										-
Hydrophytic vegeta	ation present?	Yes	Is the sa	mpled area w	ithin a wetl	and?	Yes	_			
Hydric soil present Wetland hydrology		Yes Yes	If yes, or	ptional wetlan	d site ID:						
	alternative proced	ures here or in a	senarate report	1							
	ably significantly dis				ned stream	channel. The s	oil is nati	urally proble	ematic since it is black in o	color, which could	
VEGETATION	11		4-								
VEGETATION	- Use scientific r	names of plan	ts								
Tree Stratum	Plot Size (2,826 sf)	Absolute % Cover	Dominar		Indicator		Trop Ct-	atum		20% 50% 0 0
1			% Cover	Species	,	Staus		Tree Stra	aturn Shrub Stratum		1 3
2			= -	-				Herb Str			22 55
3								Woody \	/ine Stratum		0 0
5											
6				-				Dominar	nce Test Worksheet		
7				-							
9								Number FAC:	of Dominant Species that	are OBL, FACW,	
10				-				TAC.			2 (A)
			0	= Total Cover	r			Total N	Number of Dominant Spec	cies Across all Stra	ta: 2 (B)
Sapling/Shurb	Dist Ciss (0.000 -f \	Absolute	Dominar	nt	Indicator		Percent	of Dominant Species that	are OBL. FACW. o	or
Stratum	Plot Size (2,826 sf)	% Cover	Species	•	Staus		FAC:			100%(A/B)
1	Acer negundo		5	Yes		FacW					
3			-					Provalor	nce Index Worksheet		
4									Cover of:		
5				-				OBL spe			x 1 =0
6								FACW s	•	105	x 2 = 210
8								FAC spe FACU sp		10	$\begin{array}{ccc} x 3 = & 30 \\ x 4 = & 0 \end{array}$
9								UPL spe		-	x5 = 0
10								Column		115	(A) 240 (B)
				= Total Cover				Prevalen	nce Index = B/A =		2.0869565
Herb Stratum	Plot Size (78.5 sf)	Absolute % Cover	Dominar Species		Indicator Staus		Hydroph	ytic Vegetation Indicators		
1	Phalaris arundinac	ea	100	Yes		FacW		Пушорп	Rapid test for hydrophy		
2	Urtica dioica		10	No		Fac		Х	Dominance test is >50	%	
3			-					-	Prevalence index is ≤3	3.0*	
5									Morphogical adaptation	ns* (provide suppo	rting data in Remarks
6 7			=						on a separate sheet)		
8									Problematic hydrophyt	ic vegetation* (exp	lain)
9											
10 11								*Indicato	ors of hydric soil and wetla	and hydrology must	be present unless
12									d or problematic		p. 000, um000
				= Total Cover							
Woody Vine Strati	um Plot Size (2,826 sf)	Absolute % Cover	Dominar Species		Indicator Staus					
1			/0 GUVEI	openes	•	Giaus					
2											
3											
5			=						Hydrophytic vegetation	1	
~			0	= Total Cover	r				present?	Yes	
	photo numbers he	re or on a separa					l				
The plot is in an op	oen, grassy area.										

SOIL Sampling Point: 2A Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth Matrix Redox Features

Tex Remarks

0-22 10 YR 2/1 100	None			Silt loam	
	u-				
pe: C=Concentration, D=Deplet	tion, RM=Reduced Matrix	, CS=Covered or Coated Sand	d Grains		**Location: PL=Pore Lining, M=Mat
dric Soil Indicators:				Indicators for Problem	atic Hydric Soils*:
Histisol (A1)				2 cm Muck (A1	0) (LRR K, L, MLRA 149B
Histic Epipedon (A2)	Polyvalue Belov	w Surface (S8) (LRR R, MLRA	149B)		ledox (A16) (LRR K, L, R)
Black Histic (A3)			,		eat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)	Thin Dark Surfa	ace (S9) (LRR R, MLRA 149B		Dark Surface (
,g (,		(, (,		(, (, -
Ctratificad Laurena (A.E.)				Dalimalia Dala	Curfore (CO) (LDD K. L.)
_ Stratified Layers (A5)	A445	f (54) (1 DD K 1)			w Surface (S8) (LRR K, L)
_ Depleted Below Dark Suface (/		Mineral (F1) (LRR K, L)			ace (S9) (LRR K, L)
Thick Dark Surface (A12)	Loamy Gleyed I				e Masses (F12) (LRR K, L, R)
Sandy Mucky Mineral (S1)	Depleted Matrix	(F3)		Piedmont Floo	dplain Soils (F19) (MLRA 149B)
Sandy Gleyed Matrix (S4)	Redox Dark Su	rface (F6)		Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Redox (S5)	Depleted Dark S	Surface (F7)		Red Parent Ma	terial (TF2)
Stripped Matrix (S6)	Redox Depress				Park Surface (TF12)
Dark Surface (S7) (LRR R, ML		- (-)		X Other (Explain	The state of the s
149B)					,
ndicators of hydrophytic vegetation	on and weltand hydrology	must be present, unless distur	rbed or prob	lematic	
	N				
estrictive Layer (if observed):	None			11 429	
/pe:		_		Hydric soil pre	esent? Yes
epth (inches):					
emarks: ther: No hydric indicator was obs asked a hydric indicator. No B ho		sumed hydric based on the ve	getation, hyd	Irology and landscape po	sition indicators. The black color could ha
ther: No hydric indicator was obs		sumed hydric based on the veg	getation, hyd	Irology and landscape po	sition indicators. The black color could ha
ther: No hydric indicator was obs asked a hydric indicator. No B ho		Sumed hydric based on the ve	getation, hyd	drology and landscape po	sition indicators. The black color could ha
ther: No hydric indicator was obs asked a hydric indicator. No B ho	orizon was encountered.		getation, hyd		sition indicators. The black color could have been similar to be seen as the black color could have been similar to be seen as the black color could have been seen as the black color color been seen as the black color been seen
ther: No hydric indicator was obs	orizon was encountered.		getation, hyd	s	
ther: No hydric indicator was obs asked a hydric indicator. No B ho	orizon was encountered.		getation, hyd	s	econdary Indicators (minimum of two
ther: No hydric indicator was obsasked a hydric indicator. No B ho YDROLOGY imary Indicators (minimum of one	orizon was encountered.	at apply) ed Leaves (B9)	getation, hyd	s	econdary Indicators (minimum of two equired)
ther: No hydric indicator was obsasked a hydric indicator. No B ho YDROLOGY imary Indicators (minimum of one Surface Water (A1)	e is required; check all tha	at apply) ed Leaves (B9) una (B13)	getation, hyd	s	econdary Indicators (minimum of two equired) Surface Soil Cracks (B6) Drainage Patterns (B10)
ther: No hydric indicator was obsasked a hydric indicator. No B ho YDROLOGY imary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3)	e is required; check all the	at apply) ed Leaves (B9) ina (B13) its (B15)	getation, hyd	s	econdary Indicators (minimum of two equired) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16)
ther: No hydric indicator was obsasked a hydric indicator. No B ho YDROLOGY imary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	e is required; check all the	at apply) ed Leaves (B9) una (B13)	getation, hyd	s	econdary Indicators (minimum of two equired) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2)
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Project/Site: Hoo	per Property	VETEAND DET		nty: Dane County	Sampling D	•	
Applicant/Owner:	Village of DeFo	rest		State: W	Samplin	ng Point: 2B	
Investigator(s): Scot		1 P - E - E E		Section, Town		Section 8, T9N, R10E	
Landform (hillslope, Slope (%): 5		High bench 15' 42.5"N L	ong.: 89° 20' 5	Local relief (conca 5.3" W Datum		Convex	
Soil Map Unit Name:			ong <u>03 20 0</u>	Datum	WWI Classification:	None	
Are climatic/hydrolog			is time of the	year? Yes	(If no, explain in ren	marks)	
		es , or hydrology		ficantly disturbed?			
Are vegetation (If needed, explain a	, soil any answers in ren	, or hydrology narks)	natu	rally problematic?	No Are "norma	I circumstances" present? Yes	
SUMMARY OF F	INDINGS						
Hydrophytic vegetati	ion present?	No	Is the sa	mpled area within a	wetland? No)	
Hydric soil present? Wetland hydrology p		No No	If yes, or	otional wetland site II): 		
Remarks: (Explain a The soil was signific					ent. The vegetation was s	significantly disturbed since it was in a cultivated	field.
VEGETATION - I	Use scientific n	ames of plants					
			Absolute	Dominant	Indicator		20% 50%
Tree Stratum	Plot Size (2,826 sf)	% Cover	Species	Staus	Tree Stratum	0 0
1						Sapling/Shrub Stratum	0 0
3						Herb Stratum Woody Vine Stratum	20 50 0 0
5						Dominance Test Worksheet	
7							
8 9						Number of Dominant Species that are OBL FAC:	, FACW, or0 (A)
10			0 :	Total Cover		Total Number of Dominant Species Acros	ss all Strata:1 (B)
Sapling/Shurb Stratum	Plot Size (2,826 sf)	Absolute % Cover	Dominant Species	Indicator Staus	Percent of Dominant Species that are OBL FAC:	FACW, or(A/B)
2						Prevalence Index Worksheet	
4						Total % Cover of:	
5						OBL species	x 1 =0
6						FACW species	x 2 = 0
7						FAC species FACU species	x 3 = 0 x 4 = 0
9						UPL species	100 x 5 = 500
10						Column totals	100 (A) 500 (B)
				= Total Cover	Indicator	Prevalence Index = B/A =	5
Herb Stratum	Plot Size (78.5 sf)	Absolute % Cover	Dominant Species	Indicator Staus	Hydrophytic Vegetation Indicators:	
1	Zea mays		100	Yes	Upl	Rapid test for hydrophytic veget	ation
3						Dominance test is >50% Prevalence index is ≤3.0*	
5							de supporting data in Remarks or
6 7						on a separate sheet)	
8 9						Problematic hydrophytic vegeta	tion* (explain)
10						*Indicators of hydric soil and wetland hydro	logy must be present, unless
12			100 :	= Total Cover		disturbed or problematic	
Woody Vine Stratun	n Plot Size (2,826 sf)	Absolute % Cover	Dominant Species	Indicator Staus		
1			,,, cover				
3							
4							
5				= Total Cover		Hydrophytic vegetation present?	No
Remarks: (Include p	hoto numbers her	e or on a separate		. Oldi OOVEI		protent	.10
		e or on a separate		Total Cover		Hydrophytic vegetation present?	No

SOIL Sampling Point: 2B

Profile Description: (Description Depth Matrix		1	Re	dox Features			_
(Inches) Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks
0-8 10 YR 3/2	100	None	70	Турс	200	Silty clay loam	
8-22 10 YR 2/1	99	10 YR 4/6	1	С	PL	Silty clay	
				-		- , ,	
Type: C=Concentration, D	=Depleti	on, RM=Reduced	l Matrix, CS=	=Covered or Coated	Sand Grains		**Location: PL=Pore Lining, M=Matri
Hydric Soil Indicators:						Indicators for Proble	matic Hydric Soils*:
Histisol (A1)						2 cm Muck (A	A10) (LRR K, L, MLRA 149B
Histic Epipedon (A2)		Polyvalu	ie Below Sur	rface (S8) (LRR R, N	/ILRA 149B)	Coast Prairie	Redox (A16) (LRR K, L, R)
Black Histic (A3)							Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)		Thin Da	rk Surface (S	S9) (LRR R, MLRA	149B	Dark Surface	(S7) (LRR K, L
Stratified Layers (A5)						Polyvalue Re	low Surface (S8) (LRR K, L)
Depleted Below Dark S	Suface (A	(11) Loamy N	Aucky Miner	al (F1) (LRR K, L)			rface (S9) (LRR K, L)
Thick Dark Surface (A1		· —	Gleyed Matri				ese Masses (F12) (LRR K, L, R)
Sandy Mucky Mineral (d Matrix (F3)				odplain Soils (F19) (MLRA 149B)
Sandy Gleyed Matrix (S			ark Surface				(TA6) (MLRA 144A, 145, 149B)
Sandy Redox (S5)	54)		d Dark Surfa			Red Parent M	
Stripped Matrix (S6)			epressions				Dark Surface (TF12)
Dark Surface (S7) (LRI	R R, MLI		,				n in Remarks)
149B)							
Indicators of hydrophytic v	egetatio	n and weltand hy	drology must	t be present, unless	disturbed or prol	olematic	
Restrictive Layer (if observe	ed):	None					
ype:						Hydric soil p	resent? No
Depth (inches):							
· —							
Remarks:		f	-17	de la Confession The		h.h	
Remarks: The redox concentrations v	vere too	few and faint to q	ualify as a h	ydric indicator. The	surface layer pro	bably consists of deposi	ted sediment, the lower layer is the original
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Remarks: The redox concentrations vurface layer.	vere too	few and faint to q	ualify as a h	ydric indicator. The	surface layer pro	bably consists of deposi	ted sediment, the lower layer is the original
Remarks: The redox concentrations vurface layer.					surface layer pro		Secondary Indicators (minimum of two
Remarks: The redox concentrations vurface layer. HYDROLOGY Primary Indicators (minimu		e is required; chec	k all that app	ply)	surface layer pro		Secondary Indicators (minimum of two required)
Remarks: The redox concentrations viurface layer. HYDROLOGY Primary Indicators (minimu Surface Water (A1)		is required; chec	k all that apper-Stained Le	ply) paves (B9)	surface layer pro		Secondary Indicators (minimum of two required) Surface Soil Cracks (B6)
Remarks: The redox concentrations v urface layer. HYDROLOGY Primary Indicators (minimu Surface Water (A1) High Water Table (A2)		is required; chec	k all that apper-Stained Leatic Fauna (B	ply) eaves (B9)	surface layer pro		Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10)
Remarks: The redox concentrations vuriface layer. HYDROLOGY Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3)		is required; chec Wate Aque Mari	k all that apper-Stained Leatic Fauna (B	ply) paves (B9) 113)	surface layer pro		Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16)
Remarks: The redox concentrations viurface layer. HYDROLOGY Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	m of one	is required; chec Wate Aque Mari	k all that apper-Stained Leatic Fauna (B	ply) paves (B9) 113)	surface layer pro		Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2)
Remarks: The redox concentrations viurface layer. HYDROLOGY Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	m of one	is required; chec Wate Aque Mari Hydi	k all that apper-Stained Leatic Fauna (B Deposits (B' rogen Sulfide	ply) paves (B9) 113) 15) o Odor (C1)			Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16)
Remarks: The redox concentrations virurface layer. HYDROLOGY Primary Indicators (minimulariace Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	m of one	e is required; chec Wate Aque Marl Hyde	k all that apper-Stained Leatic Fauna (B Deposits (B' rogen Sulfide	ply) saves (B9) st3) 15) c Odor (C1) sheres on Living Roo			Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Remarks: The redox concentrations valurface layer. HYDROLOGY Primary Indicators (minimusurface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	m of one	e is required; chec Wate Aque Marl Hyde	k all that apper-Stained Leatic Fauna (B Deposits (B' rogen Sulfide	ply) paves (B9) 113) 15) o Odor (C1)			Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
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Project/Site: Hooper Property	City/County: Dane County	Sampling Da	<u> </u>	
Applicant/Owner: Village of DeForest	State: WI	Samplin	g Point: 3A	
Investigator(s): Scott Taylor Landform (hillslope, terrace, etc.): Deep closed bas	Section, Townsl in Local relief (concave		Section 8, T9N, R10E Concave	
	ong.:89° 20' 5.3" W Datum:	UTM 16N	Concave	
Soil Map Unit Name: Radford silt loam (RaA)		WWI Classification:	None	
Are climatic/hydrologic conditions of the site typical for the same typical for the site typical for the site typical for the same typical forms of the same typical forms of the site typical for the same typical forms of the s		(If no, explain in rem	arks)	
Are vegetation , soil , or hydrology		No Are "normal	circumstances" present? Yes	
(If needed, explain any answers in remarks)	·			
SUMMARY OF FINDINGS				
Hydrophytic vegetation present? Yes	Is the sampled area within a w			
Hydric soil present? Yes Wetland hydrology present? Yes	If yes, optional wetland site ID:	<u> </u>		
Remarks: (Explain alternative procedures here or in a so The soil was significantly disturbed since the plot was or				
The soil was significantly disturbed since the plot was of	The bottom of a dug ditch.			
VEGETATION - Use scientific names of plants				
Tree Stratum Plot Size (2,826 sf)	Absolute Dominant	Indicator		20% 50%
1	% Cover Species	Staus	Tree Stratum Sapling/Shrub Stratum	0 0 10 25
2			Herb Stratum	8 20
3 4			Woody Vine Stratum	10 25
5			Dominance Test Worksheet	
7 8			Number of Dominant Species that are OBL, FACW, or	
9			FAC:	3(A)
	0 = Total Cover		Total Number of Dominant Species Across all Strata:	3(B)
Sapling/Shurb Stratum Plot Size (2,826 sf)	Absolute Dominant % Cover Species	Indicator Staus	Percent of Dominant Species that are OBL, FACW, or FAC:	100% (A/B)
1 Salix fragilis	50 Yes	Fac	TAC.	100% (A/B)
3			Prevalence Index Worksheet	
4			Total % Cover of:	_ 0
5			OBL species x 1 FACW species 90 x 2	
7			FAC species 50 x 3	3 = 150
8			FACU species x 4	
9			UPL species x 5 Column totals 140 (A)	
	50 = Total Cover		Prevalence Index = B/A =	2.3571429
Herb Stratum Plot Size (78.5 sf)	Absolute Dominant	Indicator	III. danah dia Vanatatian ladinatan	
1 Phalaris arundinacea	% Cover Species 40 Yes	Staus FacW	Hydrophytic Vegetation Indicators: Rapid test for hydrophytic vegetation	
2			X Dominance test is >50%	
3			Prevalence index is ≤3.0*	
5			Morphogical adaptations* (provide supporting on a separate sheet)	ı data in Remarks or
7			Problematic hydrophytic vegetation* (explain))
9			(0,pian,)	
11			*Indicators of hydric soil and wetland hydrology must be	present, unless
12	40 = Total Cover		disturbed or problematic	
Woody Vine Stratum Plot Size (2,826 sf)	Absolute Dominant	Indicator		
1 Vitis riparia	% Cover Species 50 Yes	Staus FacW		
2 Vitis riparia	res	FacW		
3				
4 5			Hydrophytic vegetation	
<u> </u>	50 = Total Cover		present? Yes	
Remarks: (Include photo numbers here or on a separate	e sheet)			
Plot is in a brushy area with an understory of reed canal	ry grass.			

SOIL Sampling Point: 3A

Depth Matrix (Inches) Color (moist) % Color (moist) % Type* Loc** Texture Remarks	Profile Desc	ription: (Describe t	the depth needed to	o document	t the indicator or confir	m the absence	of indicators.)	
3-18 2.5 Y S/1 95 10 YR 46 5 C PL Clay Type: C=Concentration, D=Despletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains **Location: PL=Pore Lining, M=M ydnic Soil Indicators: Indicators for Problematic Hydnic Soils*: Histizo (A1)			(Color (moist)			L 00**	Texture	Remarks
Secondary Indicators			_ ` ′	/0	туре	LUC	Silty clay loam	
ydric Soil Indicators: Indicators for Problematic Hydric Soils*: Hatisio (A1) Indicators for Problematic Hydric Soils*: Hatisio (A2) Indicators (A2) Indicators (A2) Indicators (A2) Indicators (A2) Indicators (A2) Indicators (A3) Indicators (A3) Indicators (A3) Indicators (A3) Indicators (A3) Indicators (A4) Indi				5	С	PL		
ydric Soil Indicators: Histisio (A1) Histisio (A2) Histisio (A2) Black Histis (A3) Thin Dark Surface (S8) (LRR R, MLRA 1498) Sora Muccky (A19) (LRR K, L, R) Sor Muccky Peat or Peat (S3) (LRR K, L, R) Sor Muccky Peat or Peat (S3) (LRR K, L, R) Stratified Layers (A5) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Depleted Matrix (F2) Sandy Mucky Mineral (S1) Red Depleted Matrix (F2) Pedmont Floodplan Surface (S1) (LRR K, L) Thin Dark Surface (S8) (LRR K, L) Thin Dark Surface (S8) (LRR K, L) Ton-Manganese Masses (F12) (LRR K, L) Pedmont Floodplan Surface (S1) (LRR K, L) Ton-Manganese Masses (F12) (LRR K, L) Ton-Manganese Masses (F12) (LRR K, L) Ton-Manganese Masses (F12) (LRR K, L) Pedmont Floodplan Surface (S1) (LRR K, L) Ton-Manganese Masses (F12) (LRR K, LR) Pedmont Floodplan Surface (S1) (LRR K, L) Ton-Manganese Masses (F12) (LRR K, LR) Pedmont Floodplan Surface (S1) (LRR K, LR) Ton-Manganese Masses (F12) (LRR K, LR) Pedmont Floodplan Surface (S1) (LRR K, LR) Ton-Manganese Masses (F12)								
Histisol (A1) Histisol (A1) Histisol (A2) Histisol Epipedon (A2) Histisol (A3) Histisol (A4)	ype: C=Co	oncentration, D=De	pletion, RM=Reduce	d Matrix, C	S=Covered or Coated	Sand Grains		**Location: PL=Pore Lining, M=Matrix
Histisol (A1) Histisol (A1) Histisol (A1) Histisol Epipedon (A2) Histisol (A3) Histisol (A3) Histisol (A3) Histisol Epipedon (A2) Histisol (A3) Histisol Canal Part (A3) Histisol (A3) Histisol Canal Part (A3) Histisol Canal P	vdric Soil I	ndicators:					Indicators for Problem	natic Hydric Soils*:
Histic Epipedom (A2) Polyvalue Below Surface (S8) (LRR R, MLRA 1498) Coast Prairie Redox (A16) (LRR K, L, R) Ellack Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Dark Surface (S7) (LRR K, L) Dark Surface (S7) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S								
Black Histic (A3)			Dobarel	ua Balaur C	urfoes (SS) (LBB B M	I DA 440D)		
Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR K, L Dark Surface (S7) (LRR K, L Stratified Layers (A5) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Pedmont Floodplain Soils (F19) MLRA 1498) Mesic Spodic (TA6) (MLRA 1498) Mesic Spodic (TA6) (MLRA 1444, 145, 1498) Red Parent Material (TF2) Very Shallow Dark Surface (F12) Other (Explain in Remarks) Thin Dark Surface (S7) (LRR K, L) Thin Dark Surface (S7) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Mesic Spodic (TA6) (MLRA 1498) Mesic Spodic (TA6) (MLRA 1444, 145, 1498) Red Parent Material (TF2) Very Shallow Dark Surface (F12) Other (Explain in Remarks) Therefore (The Spodic (TF2)) Thin Dark Surface (S7) (LRR K, L) Thin Dark Surface (S0) Thin Dark Su			Polyvali	ue below 3	unace (36) (LKK K, W	LRA 149D)		. , . , , ,
Depleted Below Dark Sufface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Inch. Algorithms es Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) X Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spotic (TA6) (MLRA 144A, 145, 149B) Red Parent (F7) Red Parent (F7) Red Parent Material (TF2) User Sandy Redox (S5) Depleted Dark Surface (F7) Red Parent Material (TF2) User Surface (F6) Wery Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Redox Parent (F7) Red Parent Material (TF2) User (S7) (LRR R, MLRA 149B) Redox Dark Surface (S7) (LRR R, MLRA 149B) Redox Parent (F7) Redox Dark Material (TF2) Other (Explain in Remarks) Redox Dark Surface (S7) (LRR R, MLRA 149B) Redox Parent (F7) Redox Dark Material (TF2) Redox Dark Materia			Thin Da	rk Surface	(S9) (LRR R, MLRA 1	49B		
Thick Dark Surface (A12) Loarny Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) X Depleted Matrix (F3) Peridemont Floodpalan Soils (F19) MiLRA 149B) Sandy Gleyed Matrix (S4) Redox Dark Surface (F6) Mesic Spoolic (TA6) (MLRA 144B, 145, 149B) Sandy Redox (S5) Depleted Dark Surface (F7) Red Parent Material (TF2) Peridemont Floodpark Surface (F7) Red Parent Material (TF2) Sandy Redox (S7) (LRR R, MLRA 144B, 145, 149B) Dark Surface (S7) (LRR R, MLRA 149B) Dark Surface (S7) (LRR R, MLRA 149B) Dark Surface (F7) Red Parent Material (TF2) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): None Pepth (inches): Retrictive Layer (if observed): None Pepth (inches): None Pepth (inches): Retrictive Layer (if observed): None Pepth (inches): None Pepth (inches): Retrictive Layer (if observed): None Pepth (inches): N	Stratified	d Layers (A5)					Polyvalue Belo	ow Surface (S8) (LRR K, L)
Sandy Mucky Mineral (S1)			· · · — ·					
Sandy Gleyed Matrix (S4) Redox Dark Surface (F6) Redox Port Surface (F6) Redox (S5) Depleted Dark Surface (F7) Red Parent Material (TF2) Stripped Matrix (S6) Redox Depressions (F8) Very Stallow Dark Surface (TF12) Other (Explain in Remarks) 1498) Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): None Very Stallow Dark Surface (TF12) None Very Stallow Dark Surface (TF12) Reterrance Restrictive Layer (if observed): None Very Stallow Dark Surface (TF12) Reterrance Restrictive Layer (if observed): None Very Stallow Dark Surface (TF12) Reterrance Restrictive Layer (if observed): None Very Stallow Dark Surface (TF12) Reterrance Restrictive Layer (if observed): None Very Stallow Dark Surface (TF12) Reterrance Restrictive Layer (if observed): None Very Stallow Dark Surface (TF12) Reterrance Restrictive Layer (if observed): None Very Stallow Dark Surface (TF12) Reterrance Restrictive Layer (if observed): None Very Stallow Dark Surface (TF12) Reterrance Restrictive Layer (if observed): None Very Stallow Dark Surface (TF12) Reterrance Restrictive Layer (if observed): None Very Stallow Dark Surface (TF12) Reterrance Restrictive Layer (if observed): None Very Stallow Dark Surface (TF12) Reterrance Restrictive Layer (if observed): None Very Stallow Dark Surface (TF12) Reterrance None (TF12) Reterrance None Parent Reterrance (TF2) Redox Dark Surface (TF12) Reterrance None Parent Reterrance (TF2) Redox Dark Surface (TF12) Reterrance None Parent Reterrance (TF2) Reterrance Non								
Sandy Redox (S5)					•			
Dark Surface (S7) (LRR R, MLRA					` '			
Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): None								
Restrictive Layer (if observed): None		rface (S7) (LRR R,	MLRA				Other (Explain	in Remarks)
Pyper Hydric soil present? Yes Pyper Hydric soil present? Yes		of hydrophytic veget	ation and weltand hy	drology mu	st be present, unless of	disturbed or prob	plematic	
Hydric soil present? Yes								
AYDROLOGY AYDROLOGY Ayder Marks (A1)		.ayer (if observed):	None				Hydric soil pr	esent? Yes
AYDROLOGY Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1)		es):					riyane son pro	163
HYDROLOGY Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1)	Pamarke:							
AYDROLOGY Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13) Water Marks (B1) Water Marks (B1) Water Marks (B1) Drainage Patterns (B10) Moss Trim Lines (B16) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Drift Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Induction Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Surface (B8) Depth (inches): Saturation present? Yes No X Depth (inches): Saturation present? Yes X No Depth (inches): Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		on the bottom of a d	ug ditch. The soil was	s probably o	disturbed during the co	urse of ditch ex	cavation.	
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Bufface Water (A1) Water-Stained Leaves (B9) Aquatic Fauna (B13) Water Table (A2) Aquatic Fauna (B13) Water Marks (B1) Water Marks (B1) Drift Deposits (B2) Algal Mat or Crust (B4) Innudation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface Surface (B8) Water (Ba) Other (Explain in Remarks) Water (Bd) Deposits (B3) Deposits (B3) Deposits (B3) Deposits (B3) Decribe Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Deposits (B5) Water (Explain in Remarks) Depth (inches): Water table present? Yes No X Depth (inches): Water table present? Yes X No Depth (inches): Depart (Inches): Water available:								
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Bufface Water (A1) Water-Stained Leaves (B9) Aquatic Fauna (B13) Water Table (A2) Aquatic Fauna (B13) Water Marks (B1) Water Marks (B1) Drift Deposits (B2) Algal Mat or Crust (B4) Innudation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface Surface (B8) Water (Ba) Other (Explain in Remarks) Water (Bd) Deposits (B3) Deposits (B3) Deposits (B3) Deposits (B3) Decribe Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Deposits (B5) Water (Explain in Remarks) Depth (inches): Water table present? Yes No X Depth (inches): Water table present? Yes X No Depth (inches): Depart (Inches): Water available:								
Surface Water (A1)	IYDROLO	DGY						
Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Water Marks (B1) Mari Deposits (B15) Moss Trim Lines (B16) Water Marks (B1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B3) Oxidized Rhizospheres on Living Roots (C3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Sparsely Vegetated Concave Surface (B8) Surface Soil Cracks (B6) Moss Trim Lines (B16) Tory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C Saturation Visible on Aerial Imag	rimary Indi	cators (minimum of	one is required; che	ck all that a	pply)			
High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) Marl Deposits (B15) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Drift Deposits (B3) Oxidized Rhizospheres on Living Roots (C3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Other (Explain in Remarks) Verage water present? Ves No X Depth (inches): Verage recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Surface	Water (A1)	Wat	er-Stained I	eaves (B9)		ı	
Water Marks (B1)							-	
Sediment Deposits (B2) Drift Deposits (B3) Oxidized Rhizospheres on Living Roots (C3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Ield Observations: Uraface water present? Ves No X Depth (inches): Vater table present? Yes X No Depth (inches): Vateration Visible on Aerial Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Shallow Aquitard (D3) X FAC-Neutral Test (D5) Microtopographic Relief (D4) Wetland hydrology present? Yes Ves No X Depth (inches): Vater table present? Yes X No Depth (inches): Vestration Present? Ves X No Depth (inches): Vestration Visible on Aerial Imagery (C Saturation Visible on Aerial Imagery (C Stunted or Stressed Plants (D1) X Geomorphic Position (D2) Shallow Aquitard (D3) X FAC-Neutral Test (D5) Microtopographic Relief (D4) Wetland hydrology present? Yes							_	
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Thin Muck Surface (C7) Sparsely Vegetated Concave Surface Water present? Vater table present? Ves No Depth (inches): Vesteriable present? Ves Ves Ves Ves Ves Ves Ves Ve			Hyd	Irogen Sulfic	de Odor (C1)		_	
Algal Mat or Crust (B4)							=	Crayfish Burrows (C8)
Iron Deposits (B5) Inundation Visible on Aerial Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Recent Iron Reduction in Tilled Soils (C6) Imagery (B7) Sparsely Vegetated Concave Other (Explain in Remarks) Surface (B8) Other (Explain in Remarks) Idel Observations: Inurface water present? Yes No X Depth (inches): Vater table present? Yes X No Depth (inches): Includes capillary fringe) Wetland hydrology present? Yes No Explain in Remarks No Experious inspections), if available:		. ,				s (C3)		Saturation Visible on Assist Images (CO)
Inundation Visible on Aerial				sence or Re	duced from (C4)		_	_
Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Thin Muck Surface (C7) Shallow Aquitard (D3) X FAC-Neutral Test (D5) Microtopographic Relief (D4) Thin Muck Surface (C7) Shallow Aquitard (D3) X FAC-Neutral Test (D5) Microtopographic Relief (D4) Thin Muck Surface (C7) Shallow Aquitard (D3) X FAC-Neutral Test (D5) Microtopographic Relief (D4) Thin Muck Surface (C7) Shallow Aquitard (D3) X FAC-Neutral Test (D5) Microtopographic Relief (D4) Thin Muck Surface (C7) Shallow Aquitard (D3) X FAC-Neutral Test (D5) Microtopographic Relief (D4) Thin Muck Surface (C7) Shallow Aquitard (D3) X FAC-Neutral Test (D5) Microtopographic Relief (D4) Thin Muck Surface (C7) Shallow Aquitard (D3) X FAC-Neutral Test (D5) Microtopographic Relief (D4) Thin Muck Surface (C7) Shallow Aquitard (D3) X FAC-Neutral Test (D5) Microtopographic Relief (D4)			Red	ent Iron Re	duction in Tilled Soils (C	26)	7	_
Surface (B8) Microtopographic Relief (D4)						,	=	
lescribe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Sparsely	Vegetated Concave	Oth	er (Explain i	n Remarks)		<u>></u>	FAC-Neutral Test (D5)
urface water present? Yes No X Depth (inches): / Alter table present? Yes No X Depth (inches): aturation present? Yes X No Depth (inches): / Opth (Surface	(B8)					=	Microtopographic Relief (D4)
/ater table present? Yes No X Depth (inches): aturation present? Yes X No Depth (inches): ncludes capillary fringe) Wetland hydrology present? Yes lescribe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			N:	V 5:	ath (in the se).			
saturation present? Yes X No Depth (inches): 10 Wetland hydrology present? Yes ncludes capillary fringe)								
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		•			,		10	Wetland hydrology present? Yes
								, , , , , , , , , , , , , , , , , , ,
None	Describe red	corded data (stream	gauge, monitoring v	vell, aerial p	hotos, previous inspec	ctions), if availab	ole:	1
					No	one		
temarks: The plot is on the bottom of a dug ditch, where prolonged, frequent saturation is likely.		un the bettern of a d	ia ditab iudiana accidi	nand for	ont acturation in DEST			

Project/Site: Hooper Property	City/County: Dane County	Sampling Dat	ite: October 22, 2010
Applicant/Owner: Village of DeForest	State: WI	Sampling	
nvestigator(s): Scott Taylor _andform (hillslope, terrace, etc.): High bench	Section, Township Local relief (concave, o		Section 8, T9N, R10E Convex
Slope (%): 2 Lat.: 43° 15' 42.5"N	Long.: 89° 20' 5.3" W Datum:	UTM 16N	OUTVOX
Soil Map Unit Name: Radford silt loam (RaA)	This flow of the case O	WWI Classification:	None
Are climatic/hydrologic conditions of the site typical for Are vegetation X , soil X , or hydrolo		_(If no, explain in rema	arks)
Are vegetation, soil, or hydrolo	o, o ,	No Are "normal o	circumstances" present? Yes
If needed, explain any answers in remarks)			
SUMMARY OF FINDINGS			
Hydrophytic vegetation present? No Hydric soil present? No	Is the sampled area within a wetler of the sampled area.	and? No	_
Wetland hydrology present?	ii yes, optional wetiand site ib.	-	
Remarks: (Explain alternative procedures here or in a The vegetation and soil was significantly disturbed sine			
The regulation and our mac eighnicantly dictarbed cities	so the plot had in a califfactor hold.		
VEGETATION - Use scientific names of plant	s		
Tree Stratum Plot Size (2,826 sf)	Absolute Dominant	Indicator	20% 50%
1	% Cover Species	Staus	Tree Stratum 0 0 Sapling/Shrub Stratum 0 0
2			Herb Stratum 20 50
3			Woody Vine Stratum 0 0
5 6			Dominance Test Worksheet
7			Number of Dominant Species that are OBL, FACW, or
9			FAC: (A)
	0 = Total Cover		Total Number of Dominant Species Across all Strata: 1 (B)
Sapling/Shurb Stratum Plot Size (2,826 sf)	Absolute Dominant % Cover Species	Indicator Staus	Percent of Dominant Species that are OBL, FACW, or FAC: 0% (A/B)
1			FAC:(A/B)
3	· ——		Prevalence Index Worksheet
4			Total % Cover of:
56	· ——		OBL species
7			FAC species $x 3 = 0$
8			FACU species x 4 = 0
9			UPL species 100 x 5 = 500 (B) Column totals 100 (A) 500 (B)
	0 = Total Cover		Prevalence Index = B/A = 5
Herb Stratum Plot Size (78.5 sf)	Absolute Dominant % Cover Species	Indicator Staus	Hydrophytic Vegetation Indicators:
1 Zea mays	100 Yes	Upl	Rapid test for hydrophytic vegetation
2	·		Dominance test is >50%
3 4	· —— ·——		Prevalence index is ≤3.0*
5 6			Morphogical adaptations* (provide supporting data in Remarks ofon a separate sheet)
7 8	·		Problematic hydrophytic vegetation* (explain)
9			
11 12			*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
	100 = Total Cover	ladianta.	
		Indicator	
	Absolute Dominant % Cover Species	Staus	
Woody Vine Stratum Plot Size (2,826 sf)		Staus	
Woody Vine Stratum Plot Size (2,826 sf)		Staus	
Woody Vine Stratum Plot Size (2,826 sf) 1 2 3 4		Staus	
Woody Vine Stratum Plot Size (2,826 sf) 1 2 3		Staus	Hydrophytic vegetation present? No

SOIL Sampling Point: 3B Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Texture Remarks Loc** (Inches) Color (moist) Color (moist) 100 Silt loam 0-24 10 YR 2/2 None *Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains **Location: PL=Pore Lining, M=Matrix Hydric Soil Indicators: Indicators for Problematic Hydric Soils*: Histisol (A1) 2 cm Muck (A10) (LRR K, L, MLRA 149B Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Black Histic (A3) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B Dark Surface (S7) (LRR K, L Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Suface (A11) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Sandy Gleyed Matrix (S4) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Depleted Dark Surface (F7) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Redox Depressions (F8) Other (Explain in Remarks) Dark Surface (S7) (LRR R, MLRA 149B) Thdicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): None Hydric soil present? No Type: Depth (inches): Remarks: No B horizon was encountered.

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)	Marl Deposits (B15)	Moss Trim Lines (B16)		
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)		
Sediment Deposits (B2)		Crayfish Burrows (C8)		
Drift Deposits (B3)	Oxidized Rhizospheres on Living Roots (C3)	- •		
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)		
Iron Deposits (B5)		Stunted or Stressed Plants (D1)		
Inundation Visible on Aerial	Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)		
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)		
Sparsely Vegetated Concave	Other (Explain in Remarks)	FAC-Neutral Test (D5)		
Surface (B8)	<u>—</u>	Microtopographic Relief (D4)		
Field Observations:				
Surface water present? Yes	No X Depth (inches):			
Vater table present? Yes	No X Depth (inches):			
Saturation present? Yes	No X Depth (inches):	Wetland hydrology present? No		
includes capillary fringe)				

No hydrology indicators. The plot is well-elevated above nearby wetland plot 3A. The corn crop was healthy in this area.