
Wetland Delineation Report

~ Leitner Property

Town of Pleasant Springs, Dane County
Wisconsin

November 10th, 2015

Prepared for:

Mr. Don Leitner
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Prepared by:

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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 is an **Assured Wetland Delineator** under Wisconsin Department of Natural Resources guidelines. 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 2006, Cable, WI. – University of Wisconsin, La Crosse Continuing Education & Extension)
- Advanced Wetland Delineation Training (July 2012, LaCrosse, WI – University of Wisconsin, La Crosse Continuing Education & Extension).
- Hydric Soils Identification (June 2014, UW-Waukesha Field Station - University of Wisconsin, La Crosse Continuing Education & Extension).

Introduction

On August 7th of 2015, Scott Taylor of Taylor Conservation, LLC performed wetland determinations and delineations on the Leitner property in the Town of Pleasant Springs, Dane County, Wisconsin (Figure 1). Two parcels were investigated (Lots 1 & 2), one on either side of Penny Lane (Figure 2). The parcels consisted of tree groves and brush. Most of the brush in Lot 2 had been cut with a forestry mower earlier in the growing season.

A large portion of Lot 2, which occupied the fringe of a wetland complex extending far beyond the investigation area boundaries, was found to be wetland (Wetlands 1 & 2). A small portion of Lot 1, which generally occupied higher-lying ground than Lot 2, was found to be wetland (Wetland 3; Figure 2).

The property owner, Mr. Don Leitner, would like to sell the lots as home sites. He ordered a wetland delineation to determine if there was enough space to build homes.

The investigation area was 3.2 acres (Lot 1 – 1.5 acres; Lot 2 – 1.7 acres). A total of approximately 0.6 acre of wetlands was delineated (Wetland 1 – 0.4 acre; Wetland 2 – 1,300 square feet; Wetland 3 – 6,400 sf). The site is in Section 28 (NWNW) T6N, R11E.

The purpose of this report is to explain the results of the wetland delineation and to describe the features of the wetlands and non-wetlands (uplands) in the project area.

Methods

The following reference materials were reviewed prior to performing fieldwork:

- 1) Natural Resource Conservation Service, Soil Survey.

- 2) Wisconsin Wetland Inventory (WDNR Surface Water Data Viewer – Wetlands & Wetland Indicators Theme).
- 3) United States Geological Survey 7.5-minute quadrangle map, Stoughton Quadrangle.
- 4) Natural Resource Conservation Service, hydric soils list for Dane County.

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

Method of Data Collection

Vegetation, hydrology and soil information were gathered in sample plots and recorded on U.S. Army Corps of Engineers “Wetland Determination Data Forms” for the appropriate region. 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 20 inch-deep (at minimum) soil pit was dug at the plot center. The presence or absence of hydrology indicators 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.

Location of Transects

Sample plots were located inside of areas that appeared to have potential be wetlands. If the sample plot data suggested that 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. A total of 8 plots were sampled, 4 inside of wetlands and 4 on the uplands (Figure 2). Sample plots were marked with red wire-stake flags.

Procedure for Locating Wetland Boundaries

The wetland boundaries were located by observing gradual increases in elevation and changes in plant community composition. The presence of healthy, dominant populations of upland plants, such as black raspberry (*Rubus occidentalis*-Upl), honeysuckle (*Lonicera X bella*-FacU), and milkweed (*Asclepias syriaca*-FacU), as one moved upslope, away from the wetland, was often considered a reliable indicator of the wetland boundary.

Results and Discussion

Wetlands

Overview of Wetlands & Wetland Boundary Characteristics

Three wetlands were identified. The wetlands were partially wooded, brushy areas with grassy, herbaceous ground layers (Figure 2). Wetland 1 was the northernmost extension of a large wetland complex that extends far beyond the project area.

Although the wetlands possessed moderate tree and brush cover, the grassy, herbaceous ground layers best characterized wetlands 1 and 3, which would therefore be classified as **fresh (wet) meadows**.

Wetland 2, which was heavily shaded and mostly empty of ground layer vegetation, would be classified as a **forested wetland**.

Based on their floristic quality, wetlands 1 and 3 would have **moderate susceptibility** to storm-water runoff impacts. Wetland 2, which is almost completely empty of ground layer vegetation, would have **low susceptibility** to storm-water runoff.

The wetland boundaries were gradual. They were not marked by sharp slope breaks or strong vegetative transitions. However, the distribution of several upland plant species formed a relatively distinct boundary. These included honeysuckle, black raspberry and creeping Charlie (*Glechoma hederacea*-FacU).

Wetland Vegetation

The wetlands were heavily dominated by hydrophytic plant species. Reed canary grass (*Phalaris arundinacea*-FacW), giant goldenrod (*Solidago gigantea*-FacW), false nettle (*Boehmeria cylindrica*-Obl), red top grass (*Agrostis stolonifera*-FacW) and blunt broom sedge (*Carex tribuloides*-FacW) dominated the ground layer. Red osier dogwood (*Cornus alba*-FacW), buckthorn (*Rhamnus cathartica*-Fac) and bebb's willow (*Salix bebbiana*-FacW) dominated the shrub layer. Cottonwood (*Populus deltoides*-Fac), box elder (*Acer negundo*-Fac) and silver maple (*Acer saccharinum*-FacW) dominated the tree layer.

Wetland Hydrology

The wetlands' chief water sources are surface runoff from surrounding uplands and persistently high water tables in low areas. The wetlands probably saturate in the spring of most years and during rainy periods. They probably become dry by early summer of most years.

Prior Rainfall Analysis:

(USDA Field Office Climate Data – WETS Station: Stoughton, Wisconsin.)

	30% chance will have precipitation (inches)		2015 precipitation:	Condition	Condition value (Dry=1, Normal=2, Wet=3)	Month weight value	Product of previous two columns
	less than:	more than:					
May	2.22	4.14	4.61	Wet	3	1	3
June	2.56	4.59	4.09	Normal	2	2	4
July	2.83	4.48	3.61	Normal	2	3	6
Sum:							13

(If sum is 6-9, prior period dry; 10-14, prior period normal; 15-18, prior period wet. From USDA, Natural Resource Conservation Service. 1997. Hydrology Tools for Wetland Determination. Part 650. Engineering Field Handbook.)

A sum of 13 indicates that moisture conditions in the prior period were **normal**. Zero inches of rainfall were recorded at the Stoughton weather station in the current month (August).

No water was directly observed in any of the wetland sample plots, however the primary hydrology indicator, Sparsely Vegetated Concave Surface, was noted in wetland sample plots 2A and 3.

All wetland plots showed the two secondary hydrology indicators, "Geomorphic Position" and "FAC Neutral Test". The plots showed "Geomorphic Position" due to their landscape positions on the bottoms of depressions where frequent, prolonged saturation and/or inundation were likely.

Wetland Soils

The Natural Resource Conservation Service-mapped soil of the wetlands is Wacousta silty clay loam (Wa; Figure 4). Wacousta soil is classified as very poorly drained. It is listed as a hydric soil in Dane County.

The field-observed soils in Wetland 1 consisted of black (10 YR 2/1) silt loam underlain by lighter-colored, low-chroma (10 YR 4/2; 2.5 Y 6/2) silty clay loam. The soils of Wetlands 2 and 3 showed evidence of fill placement, or possibly deposition of eroded sediment. They consisted of alternating layers of brown (10 YR 3/3) and dark brown (10 YR 3/2, 2/2) silt loam and silty clay loam.

Two of 4 wetland sample plots (1A & 1B) showed the hydric soil indicator, "Thick Dark Surface" (A12). The remaining 2 wetland sample plots (2A & 3) did not show hydric soil indicators. However professional judgment was used to assume the soils were hydric based on strong vegetation, hydrology and landscape position indicators.

Wisconsin Wetland Inventory

The Wisconsin Wetlands Inventory (W.W.I.) identifies a tree and shrub-dominated wetland (T3/S3K) in the investigation area that encompasses all field-identified wetlands (Figure 5). Discrepancies between the W.W.I. and field-identified wetland boundaries reflect the greater accuracy of field methods over interpretation of wetland boundaries from aerial photographs, which is the method used in the W.W.I.

Uplands

The uplands were the wooded and brushy areas that occupied the high-lying ground (Figure 2). Most of the upland in Lot 2 had been mowed with a forestry mower earlier in the growing season. Hence there were fewer shrubs than before mowing, however most of the cut shrubs were re-sprouting.

Upland Vegetation

Upland vegetation was a mix of upland and Fac and FacW-rated hydrophytes. Enchanter's nightshade (*Circaea Canadensis*-FacU), creeping charlie, burdock (*Arctium minus*-FacU), reed canary grass, woodbine (*Parthenocissus quinquefolia*-FacU) and giant goldenrod, among many other species, dominated upland ground layers. Honeysuckle, buckthorn, silver maple, box

elder, black cherry (*Prunus serotina*-FacU), sumac (*Rhus birta*-Upl) and cottonwood dominated upland shrub and tree layers.

Upland sample plots 1D and 2C showed dominance by hydrophytic species. This reflected the abundance of Fac and FacW-rated plants like buckthorn, silver maple and box elder. While hydrophytic, these species still thrive in moist uplands. The presence of upland plant populations, as well as the absence of hydric soil and wetland hydrology indicators, strongly suggested these sites were non-wetlands and therefore capable of supporting dominance by upland vegetation.

Upland Hydrology

No hydrology indicators were noted in any of the upland sample plots. All parts of the uplands occupied high-lying or sloping ground where water would be unlikely to linger for long periods.

Upland Soils

The Natural Resource Conservation Service-mapped soils of the uplands are (Figure 4):

Soil	Drainage class	Percent Hydric
Wacousta silty clay loam (Wa)	Very Poorly Drained	100%
Whalan silt loam (WxC2)	Well Drained	0%

The field-observed upland soils consisted of alternating layers of dark brown and brown (10 YR 3/2, 2/2, 3/3, 4/4) silt loam and silty clay loam. Irregular surface contours, suggesting placement of fill in the distant past, were noted surrounding plot 2B in Lot 1.

No hydric indicators were observed in any of the upland sample plots.

Conclusion

The wetland boundary marked in the field is the best estimate of the location of the boundary based on the available vegetation, hydrology and soil evidence on August 7th of 2015. 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.

Activities within or close to the delineated wetland boundaries generally require permits from the Army Corps of Engineers, WDNR or local authorities. If the client proceeds with any work within or close to the delineated wetland boundaries without authorization or permits from the appropriate regulatory authorities, Scott Taylor or Taylor Conservation LLC shall not be responsible or liable for any resulting damages.

Scott Taylor is an **Assured Wetland Delineator** under Wisconsin Department of Natural Resources guidelines (<http://dnr.wi.gov/topic/wetlands/assurance.html>). Taylor's wetland delineations are considered dependable by the WDNR for purposes of Wisconsin wetland and waterway permits, shoreland-wetland zoning or other

state-mandated local wetland programs. Therefore Taylor's clients do not require concurrence letters from WDNR before project planning or permit applications that are based on Taylor's wetland delineations. However, concurrence from the Army Corps of Engineers is still necessary. The WDNR and Army Corps have final authority over wetlands in Wisconsin. They may adjust Taylor's wetland boundaries. Assurance does not change decisions about wetland fill. Assurance is not a guarantee of accuracy or relief from landowner responsibility in the event an error occurs and wetlands are filled. While it is unlikely for a professional whose work is assured, inadvertent wetland fill that may result from errors must be remedied.

References

- Hurt, G.W. & Vasilas, L.M. 2010. Field Indicators of Hydric Soils in the United States: A Guide for Identifying and Delineating Hydric Soils, Version 7.0. Natural Resource Conservation Service, United States Department of Agriculture.
- Lichvar, R.W., M. Butterwick, N.C. Melvin, and W.N. Kirchner, US Army Corp of Engineers, 2014. State of Wisconsin 2014 Wetland Plant List.
- 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. 1997. Hydrology Tools for Wetland Determination. Part 650. Engineering Field Handbook.
- Wisconsin Department of Administration, Coastal Management Program. 1995. Basic Guide to Wisconsin's Wetlands and their Boundaries.

Figures

Figure 1: Landscape Overview.

Source: Imagery - National Agricultural Imagery Program, 2013; Roads & Waters – Wisconsin Department of Natural Resources.



Figure 2: Investigation Area, Wetlands & Sample Plots.

Source: National Agricultural Imagery Program, 2013.

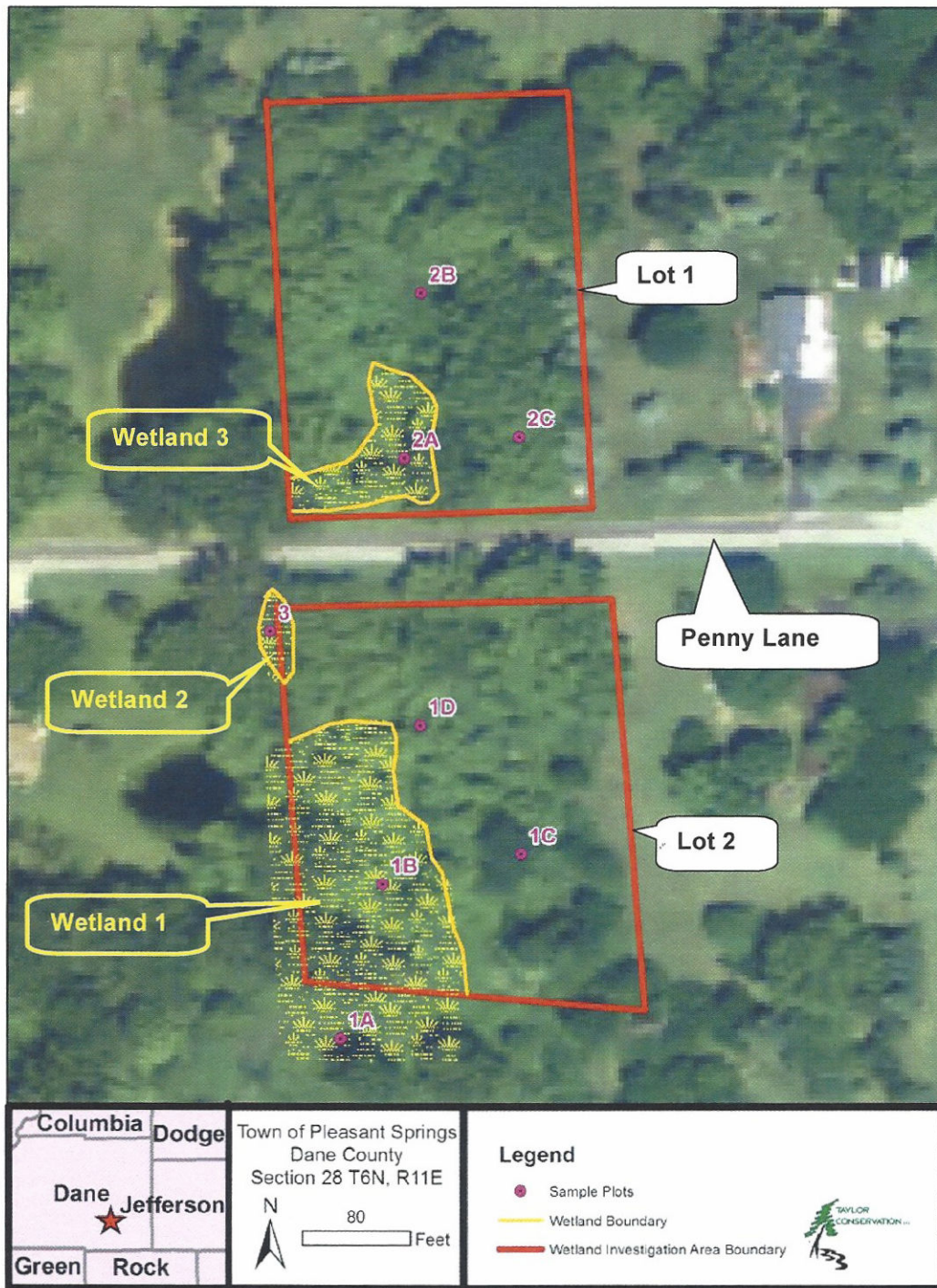


Figure 3: Topography.

Source: U.S. Geological Survey 7.5-Minute Quadrangle Map, Stoughton Quadrangle.

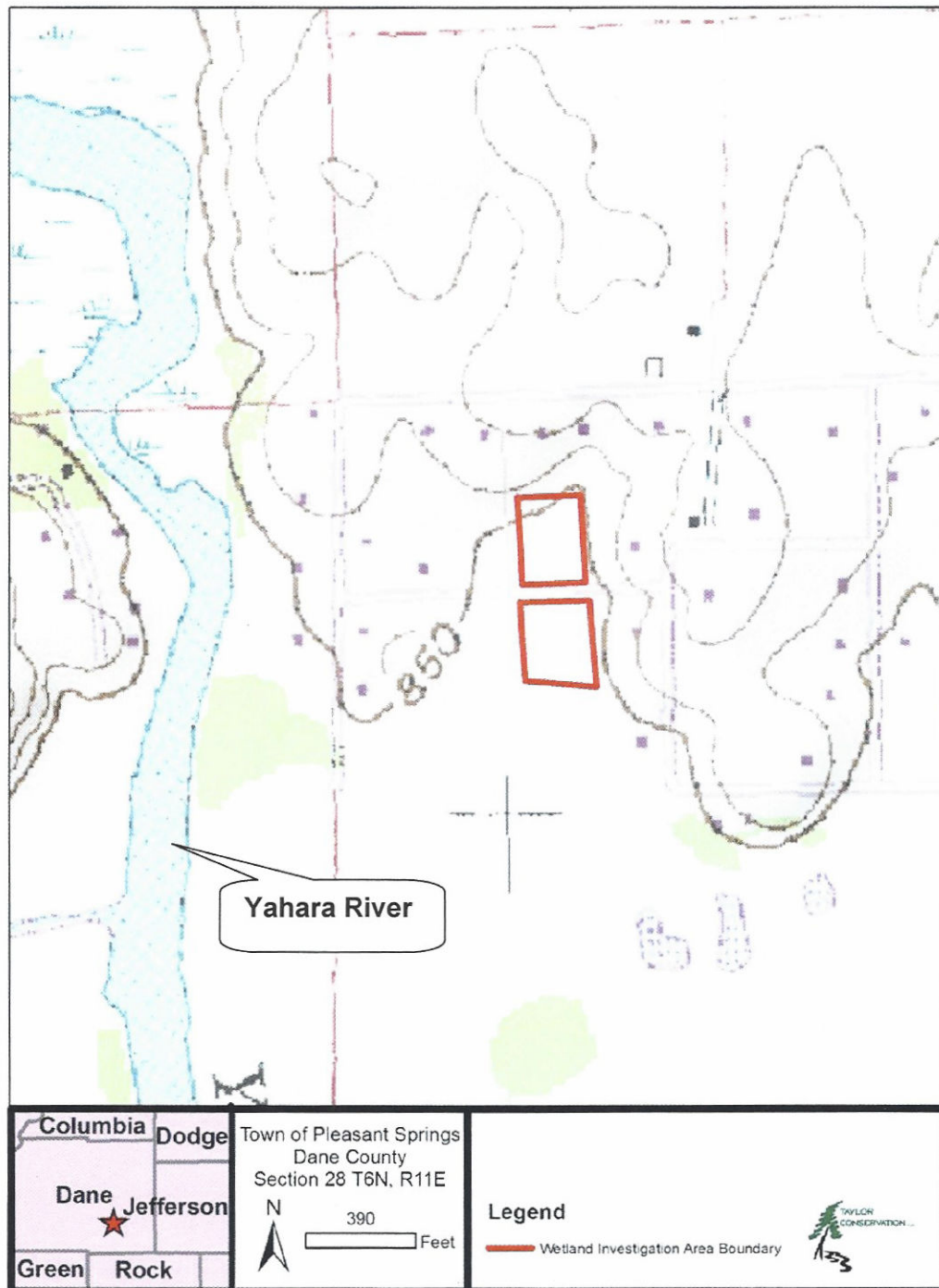


Figure 4: Soils.

Source: Natural Resource Conservation Service.

Investigation Area Soils	Drainage class	Percent Hydric
Wacousta silty clay loam (Wa)	Very Poorly Drained	100%
Whalan silt loam (WxC2)	Well Drained	0%

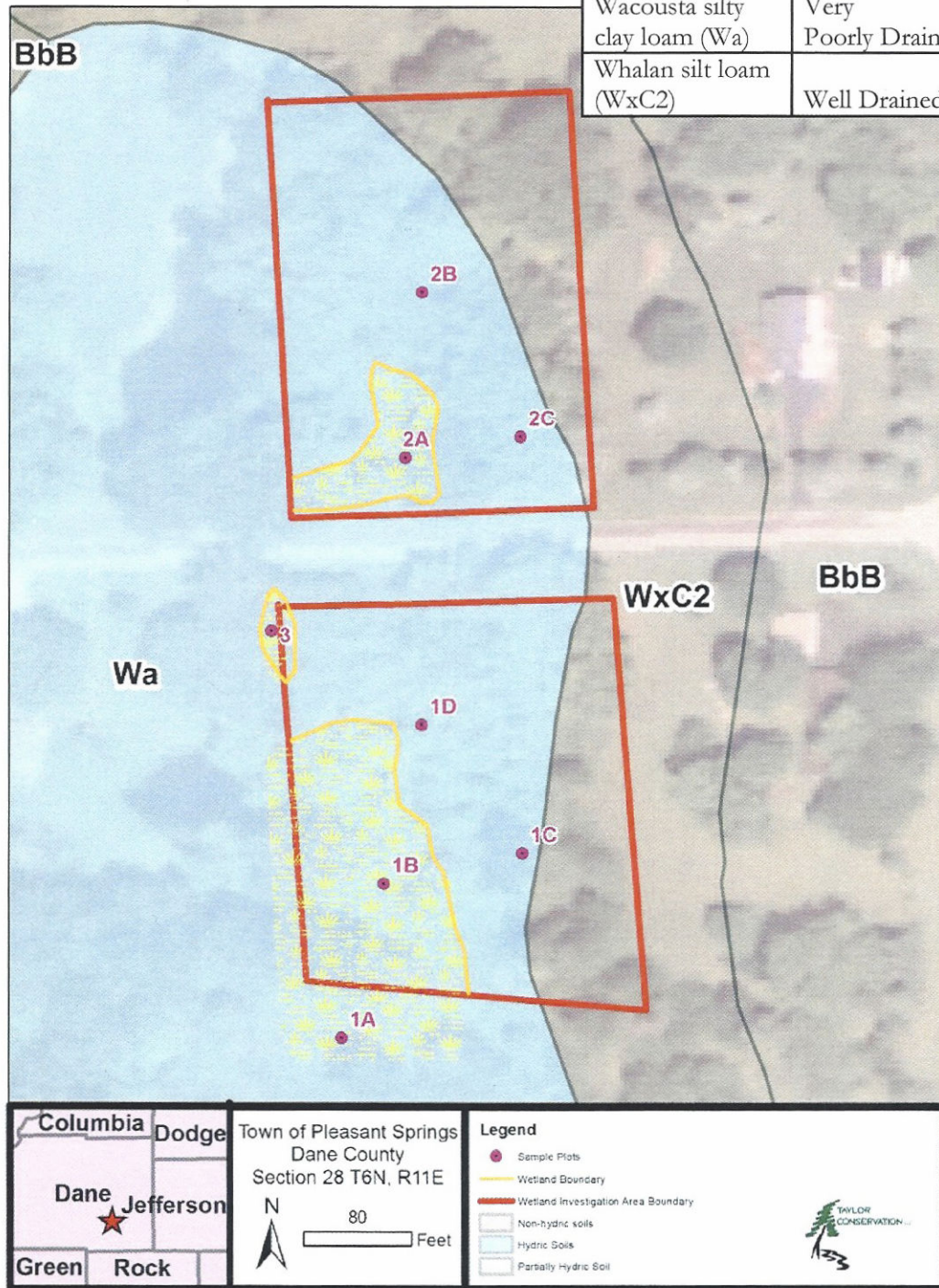
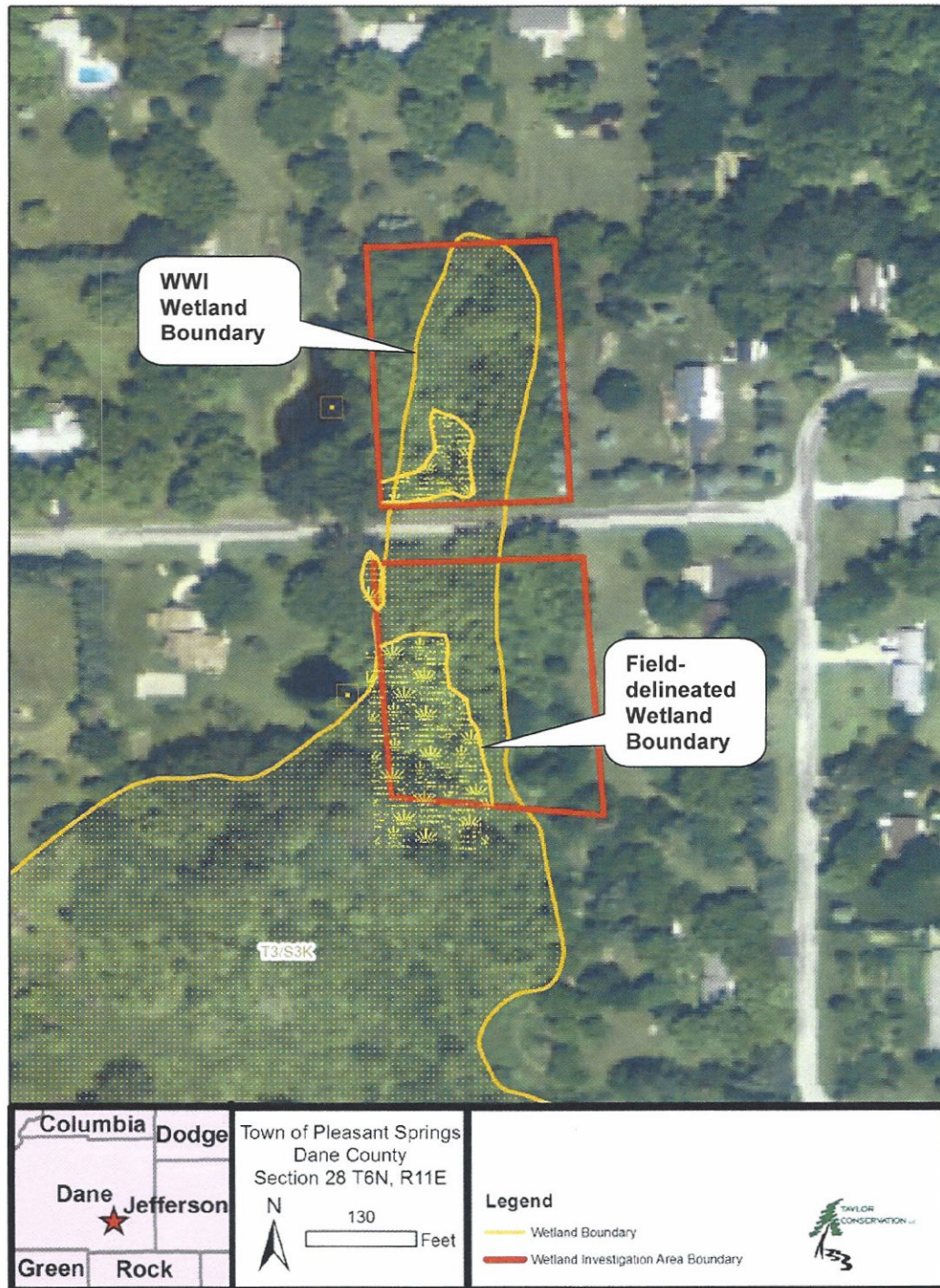


Figure 5: Wisconsin Wetland Inventory Map.

Source: Wisconsin Department of Natural Resources.



Appendix II: Investigation Area Photos

Wetland - Plot 1A



Wetland - Plot 1B



Upland - Plot 1C



Wetland - Plot 2A



Upland - Plot 2B



Wetland - Plot 3



Appendix III: Data Sheets

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Leitner Property City/County: Pleasant Springs, Dane Co. Sampling Date: 8/7/15
 Applicant/Owner: Don Leitner State: WI Sampling Point: 1A
 Investigator(s): Scott Taylor Section, Township, Range: Section 28 (NWNW), T6N, R11E
 Landform (hillslope, terrace, etc.): Lake Plain/Toeslope Local relief (concave, convex, none): None
 Slope (%): 0 Lat.: 42.960333 N Long.: 89.207994 W Datum: UTM 16N
 Soil Map Unit Name: Waucousta silty clay loam (Wa) WWI Classification: T3/S3K
 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? No
 Are vegetation soil or hydrology naturally problematic? 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 wetland?	Yes
Hydric soil present?	Yes	If yes, optional wetland site ID:	
Wetland hydrology present?	Yes		

Remarks: (Explain alternative procedures here or in a separate report.)
 Using the Natural Resource Conservation Service weighted-month method, antecedent moisture, based on total precipitation for the previous 3 months (May-Wet; June-Normal; July-Normal; Stoughton, WI weather station), was found to be above average. No precipitation was recorded at the Stoughton weather station in the 6 days of August preceding the fieldwork.

VEGETATION - Use scientific names of plants

Tree Stratum	Plot Size (2,826 sf)	Absolute % Cover	Dominant Species	Indicator Staus	Tree Stratum	20%	50%
1					Sapling/Shrub Stratum	0	0
2					Herb Stratum	23	58
3					Woody Vine Stratum	0	0
4							
5							
6							
7							
8							
9							
10							
0 = Total Cover							
Sapling/Shrub Stratum	Plot Size (2,826 sf)	Absolute % Cover	Dominant Species	Indicator Staus			
1	Cornus alba	10	Yes	FacV			
2							
3							
4							
5							
6							
7							
8							
9							
10							
10 = Total Cover							
Herb Stratum	Plot Size (78.5 sf)	Absolute % Cover	Dominant Species	Indicator Staus			
1	Phalaris arundinacea	100	Yes	FacV			
2	Boehmeria cylindrica	15	No	Obl			
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
115 = Total Cover							
Woody Vine Stratum	Plot Size (2,826 sf)	Absolute % Cover	Dominant Species	Indicator Staus			
1							
2							
3							
4							
5							
0 = Total Cover							

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across all Strata: 2 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 100% (A/B)

Prevalence Index Worksheet

Total % Cover of:

OBL species	15	x 1 =	15
FACW species	110	x 2 =	220
FAC species		x 3 =	0
FACU species		x 4 =	0
UPL species		x 5 =	0
Column totals	125	(A)	235 (B)

Prevalence Index = B/A = 1.88

Hydrophytic Vegetation Indicators:

Rapid test for hydrophytic vegetation

X Dominance test is >50%

Prevalence index is ≤3.0*

Morphological 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

Hydrophytic vegetation present? Yes

Remarks: (Include photo numbers here or on a separate sheet)
 The plot was in an open grassy area.

SOIL

Sampling Point: 1A

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

Depth (Inches)	Matrix Color (moist)	%	Color (moist)	%	Redox Features Type*	Loc**	Texture	Remarks
0-19	10 YR 2/1	100	None				Silt loam	
19-26	10 YR 4/2	98	10 YR 4/6	2	C	PL	Sandy clay loam	

*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)
Histic Epipedon (A2)							Coast Prairie Redox (A16) (LRR K, L, R)
Black Histic (A3)							5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)							Dark Surface (S7) (LRR K, L)
Stratified Layers (A5)							Polyvalue Below Surface (S8) (LRR K, L)
Depleted Below Dark Surface (A11)							Thin Dark Surface (S9) (LRR K, L)
X Thick Dark Surface (A12)							Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy Mucky Mineral (S1)							Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Gleyed Matrix (S4)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Redox (S5)							Red Parent Material (TF2)
Stripped Matrix (S6)							Very Shallow Dark Surface (TF12)
Dark Surface (S7) (LRR R, MLRA 149B)							Other (Explain in Remarks)

*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if observed):	None						
Type:							
Depth (inches):							

Remarks:

HYDROLOGY

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)
Saturation (A3)						Marl Deposits (B15)
Water Marks (B1)						Hydrogen Sulfide Odor (C1)
Sediment Deposits (B2)						Oxidized Rhizospheres on Living Roots (C3)
Drift Deposits (B3)						Presence of Reduced Iron (C4)
Algal Mat or Crust (B4)						Recent Iron Reduction in Tilled Soils (C6)
Iron Deposits (B5)						Thin Muck Surface (C7)
Inundation Visible on Aerial Imagery (B7)						Other (Explain in Remarks)
Sparsely Vegetated Concave Surface (B8)						

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)					
X Geomorphic Position (D2)					
Shallow Aquitard (D3)					
X FAC-Neutral Test (D5)					
Microtopographic Relief (D4)					

Field Observations:

Surface water present?	Yes	No	X	Depth (inches):		
Water table present?	Yes	No	X	Depth (inches):		
Saturation present?	Yes	No	X	Depth (inches):		
(includes capillary fringe)						

Wetland hydrology present? Yes

Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

None

Remarks:

The plot met the criteria of Geomorphic Position since it occupied the bottom of a depression where prolonged saturation or inundation would be likely.

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Leitner Property City/County: Pleasant Springs, Dane Co. Sampling Date: 8/7/15
Applicant/Owner: Don Leitner State: WI Sampling Point: 1B
Investigator(s): Scott Taylor Section, Township, Range: Section 28 (NWNW), T6N, R11E
Landform (hillslope, terrace, etc.): Lake Plain/Toeslope Local relief (concave, convex, none): None
Slope (%): 0 Lat.: 42.960333 N Long.: 89.207994 W Datum: UTM 16N
Soil Map Unit Name: Waucousta silty clay loam (Wa) WWI Classification: T3/S3K
Are climatic/hydrologic conditions of the site typical for the time of the year? Yes (If no, explain in remarks)
Are vegetation soil, or hydrology significantly disturbed? No
Are vegetation soil, or hydrology naturally problematic? 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 wetland? Yes
Hydric soil present? Yes If yes, optional wetland site ID:
Wetland hydrology present? Yes

Remarks: (Explain alternative procedures here or in a separate report.)

Using the Natural Resource Conservation Service weighted-month method, antecedent moisture, based on total precipitation for the previous 3 months (May-Wet; June-Normal; July-Normal; Stoughton, WI weather station), was found to be above average. No precipitation was recorded at the Stoughton weather station in the 6 days of August preceding the fieldwork. The vegetation was disturbed since the site was brush mowed earlier in the growing season. However this was not considered significant disturbance since it did not interfere with the investigator's ability to accurately identify plant species.

VEGETATION - Use scientific names of plants

Tree Stratum	Plot Size (2,826 sf)	Absolute % Cover	Dominant Species	Indicator Staus	20% 50%
1	<i>Populus deltoides</i>	25	Yes	Fac	5 13
2					9 23
3					41 103
4					0 0
5					
6					
7					
8					
9					
10		25 = Total Cover			
Sapling/Shrub Stratum	Plot Size (2,826 sf)	Absolute % Cover	Dominant Species	Indicator Staus	
1	<i>Rhamnus cathartica</i>	20	Yes	Fac	
2	<i>Salix amygdaloides</i>	15	Yes	FacW	
3	<i>Salix bebbiana</i>	10	Yes	FacW	
4					
5					
6					
7					
8					
9					
10		45 = Total Cover			
Herb Stratum	Plot Size (78.5 sf)	Absolute % Cover	Dominant Species	Indicator Staus	
1	<i>Agrostis stolonifera</i>	60	Yes	FacW	
2	<i>Solidago gigantea</i>	30	Yes	FacW	
3	<i>Carex tribuloides</i>	40	Yes	FacW	
4	<i>Boehmeria cylindrica</i>	20	No	Obl	
5	<i>Eupatorium maculatum</i>	10	No	Obl	
6	<i>Symphoricarpon puniceum</i>	10	No	Obl	
7	<i>Acer negundo</i>	10	No	Fac	
8	<i>Lonicera X bella</i>	10	No	FacU	
9	<i>Cornus alba</i>	5	No	FacW	
10	<i>Symphoricarpon lateriflorum</i>	5	No	Fac	
11	<i>Mentha arvensis</i>	5	No	FacW	
12		205 = Total Cover			
Woody Vine Stratum	Plot Size (2,826 sf)	Absolute % Cover	Dominant Species	Indicator Staus	
1					
2					
3					
4					
5					
		0 = Total Cover			

Tree Stratum 20% 50%
Sapling/Shrub Stratum 9 23
Herb Stratum 41 103
Woody Vine Stratum 0 0

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 7 (A)
Total Number of Dominant Species Across all Strata: 7 (B)
Percent of Dominant Species that are OBL, FACW, or FAC: 100% (A/B)

Prevalence Index Worksheet

Total % Cover of:
OBL species 40 x 1 = 40
FACW species 165 x 2 = 330
FAC species 60 x 3 = 180
FACU species 10 x 4 = 40
UPL species x 5 = 0
Column totals 275 (A) 590 (B)
Prevalence Index = B/A = 2.14545455

Hydrophytic Vegetation Indicators:
Rapid test for hydrophytic vegetation
X Dominance test is >50%
Prevalence index is ≤3.0*

Morphological 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

Hydrophytic vegetation present? Yes

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

The plot was in a partially wooded area with a grassy, herbaceous ground layer. The surrounding area was brush-mowed recently, it was a red osier dogwood/buckthorn thicket before mowing. There was much disturbed soil and tire ruts from equipment working on wet ground.

SOIL

Sampling Point: 1B

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

Depth (Inches)	Matrix Color (moist)	%	Color (moist)	%	Redox Features Type*	Loc**	Texture	Remarks
0-21	10 YR 2/1	100	None				Silt loam	
21-27	2.5 Y 6/2	99	10 YR 4/6	1	C	PL	Silty clay loam	

*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)
..... Histic Epipedon (A2)							Coast Prairie Redox (A16) (LRR K, L, R)
..... Black Histic (A3)							5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
..... Hydrogen Sulfide (A4)							Dark Surface (S7) (LRR K, L)
..... Stratified Layers (A5)							Polyvalue Below Surface (S8) (LRR K, L)
..... Depleted Below Dark Surface (A11)							Thin Dark Surface (S9) (LRR K, L)
X Thick Dark Surface (A12)							Iron-Manganese Masses (F12) (LRR K, L, R)
..... Sandy Mucky Mineral (S1)							Piedmont Floodplain Soils (F19) (MLRA 149B)
..... Sandy Gleyed Matrix (S4)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
..... Sandy Redox (S5)							Red Parent Material (TF2)
..... Stripped Matrix (S6)							Very Shallow Dark Surface (TF12)
..... Dark Surface (S7) (LRR R, MLRA 149B)							Other (Explain in Remarks)

*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if observed): None

Type:

Depth (inches):

Hydric soil present?

Yes

Remarks:

HYDROLOGY

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)	..... Saturation Visible on Aerial Imagery (C9)
..... Algal Mat or Crust (B4)	..... Presence of Reduced Iron (C4)	..... Stunted or Stressed Plants (D1)
..... Iron Deposits (B5)		X Geomorphic Position (D2)
..... Inundation Visible on Aerial Imagery (B7)	..... Recent Iron Reduction in Tilled Soils (C6)	..... Shallow Aquitard (D3)
..... Sparsely Vegetated Concave Surface (B8)	..... Thin Muck Surface (C7)	X FAC-Neutral Test (D5)
	..... Other (Explain in Remarks)	..... Microtopographic Relief (D4)

Field Observations:

Surface water present?	Yes	No	X	Depth (inches):
Water table present?	Yes	No	X	Depth (inches):
Saturation present?	Yes	No	X	Depth (inches):

(includes capillary fringe)

Wetland hydrology present? Yes

Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

None

Remarks:

The plot met the criteria of Geomorphic Position since it occupied the bottom of a depression where prolonged saturation or inundation would be likely. There were many deep tire ruts in the surrounding area, indicating wet soil conditions earlier in the growing season when the site was brush mowed.

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Leitner Property City/County: Pleasant Springs, Dane Co. Sampling Date: 8/7/15
Applicant/Owner: Don Leitner State: WI Sampling Point: 1C
Investigator(s): Scott Taylor Section, Township, Range: Section 28 (NWNW), T6N, R11E
Landform (hillslope, terrace, etc.): Lake Plain/Footslope Local relief (concave, convex, none): Convex
Slope (%): 1 Lat.: 42.960333 N Long.: 89.207994 W Datum: UTM 16N
Soil Map Unit Name: Waucousta silty clay loam (Wa) 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? No
Are vegetation, soil, or hydrology naturally problematic? 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 wetland? No
Hydric soil present? No If yes, optional wetland site ID:
Wetland hydrology present? No
Remarks: (Explain alternative procedures here or in a separate report.)
Using the Natural Resource Conservation Service weighted-month method, antecedent moisture, based on total precipitation for the previous 3 months (May-Wet; June-Normal; July-Normal; Stoughton, WI weather station), was found to be above average. No precipitation was recorded at the Stoughton weather station in the 6 days of August preceding the fieldwork. The vegetation was disturbed since the site was brush mowed earlier in the growing season. However this was not considered significant disturbance since it did not interfere with the investigator's ability to accurately identify plant species.

VEGETATION - Use scientific names of plants

Tree Stratum	Plot Size (2,826 sf)	Absolute % Cover	Dominant Species	Indicator Status	20%	50%
1	<i>Prunus serotina</i>	20	Yes	FacU	4	10
2					14	35
3					15	38
4					0	0
5						
6						
7						
8						
9						
10		20 = Total Cover				
Sapling/Shrub Stratum	Plot Size (2,826 sf)	Absolute % Cover	Dominant Species	Indicator Status		
1	<i>Acer negundo</i>	40	Yes	Fac		
2	<i>Rhamnus cathartica</i>	30	Yes	Fac		
3						
4						
5						
6						
7						
8						
9						
10		70 = Total Cover				
Herb Stratum	Plot Size (78.5 sf)	Absolute % Cover	Dominant Species	Indicator Status		
1	<i>Lonicera X bella</i>	40	Yes	FacU		
2	<i>Circaea canadensis</i>	10	No	FacU		
3	<i>Arctium minus</i>	5	No	FacU		
4	<i>Barbarea vulgaris</i>	5	No	Fac		
5	<i>Geum canadense</i>	5	No	Fac		
6	<i>Hackelia virginiana</i>	5	No	FacU		
7	<i>Vitis riparia</i>	5	No	Fac		
8						
9						
10						
11						
12		75 = Total Cover				
Woody Vine Stratum	Plot Size (2,826 sf)	Absolute % Cover	Dominant Species	Indicator Status		
1						
2						
3						
4						
5		0 = Total Cover				

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)

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

Percent of Dominant Species that are OBL, FACW, or FAC: 50% (A/B)

Prevalence Index Worksheet

Total % Cover of:

OBL species	x 1 =	0
FACW species	x 2 =	0
FAC species	x 3 =	255
FACU species	x 4 =	320
UPL species	x 5 =	0
Column totals		165 (A) 575 (B)
Prevalence Index = B/A =		3.48484848

Hydrophytic Vegetation Indicators:

Rapid test for hydrophytic vegetation

Dominance test is >50%

Prevalence index is ≤3.0*

Morphological 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

Hydrophytic vegetation present? No

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

The plot was in a partially wooded area with a brushy understory and a sparse herbaceous ground layer. The area was brush mowed recently and there were many re-sprouting honeysuckle shrubs.

SOIL

Sampling Point: 1C

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

Depth (Inches)	Matrix Color (moist)	%	Color (moist)	%	Redox Features Type*	Loc**	Texture	Remarks
0-19	10 YR 3/2	100	None				Silt loam	
19-25	10 YR 3/2	98	10 YR 4/6	2	C	PL	Silty clay loam	

*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)
Histic Epipedon (A2)							Coast Prairie Redox (A16) (LRR K, L, R)
Black Histic (A3)							5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)							Dark Surface (S7) (LRR K, L)
Stratified Layers (A5)							Polyvalue Below Surface (S8) (LRR K, L)
Depleted Below Dark Surface (A11)							Thin Dark Surface (S9) (LRR K, L)
Thick Dark Surface (A12)							Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy Mucky Mineral (S1)							Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Gleyed Matrix (S4)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Redox (S5)							Red Parent Material (TF2)
Stripped Matrix (S6)							Very Shallow Dark Surface (TF12)
Dark Surface (S7) (LRR R, MLRA 149B)							Other (Explain in Remarks)

*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if observed): None

Type:

Hydric soil present?

No

Depth (inches):

Remarks:

No hydric indicators.

HYDROLOGY

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 Imagery (B7)						Recent Iron Reduction in Tilled Soils (C5)		Geomorphic Position (D2)
Sparsely Vegetated Concave Surface (B8)						Thin Muck Surface (C7)		Shallow Aquitard (D3)
						Other (Explain in Remarks)		FAC-Neutral Test (D5)
								Microtopographic Relief (D4)

Field Observations:

Surface water present? Yes No X Depth (inches):

Water table present? Yes No X Depth (inches):

Saturation present? Yes No X Depth (inches):

(includes capillary fringe)

Wetland hydrology present? No

Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

None

Remarks:

No hydrology indicators. The plot occupied a relatively high area, well elevated above nearby wetland plots 1A & 1B. Water would not be likely to linger here for long periods.

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Leitner Property City/County: Pleasant Springs, Dane Co. Sampling Date: 8/7/15
Applicant/Owner: Don Leitner State: WI Sampling Point: 1D
Investigator(s): Scott Taylor Section, Township, Range: Section 28 (NWNW), T6N, R11E
Landform (hillslope, terrace, etc.): Lake Plain/Footslope Local relief (concave, convex, none): None
Slope (%): 1 Lat.: 42.960333 N Long.: 89.207994 W Datum: UTM 16N WWI Classification: T3/S3K
Soil Map Unit Name: Waucousta silty clay loam (Wa)
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? No
Are vegetation soil or hydrology naturally problematic? 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 wetland? No
Hydric soil present? No If yes, optional wetland site ID:
Wetland hydrology present? No
Remarks: (Explain alternative procedures here or in a separate report.)
Using the Natural Resource Conservation Service weighted-month method, antecedent moisture, based on total precipitation for the previous 3 months (May-Wet; June-Normal; July-Normal; Stoughton, WI weather station), was found to be above average. No precipitation was recorded at the Stoughton weather station in the 6 days of August preceding the fieldwork. The vegetation was disturbed since the site was brush mowed earlier in the growing season. However this was not considered significant disturbance since it did not interfere with the investigator's ability to accurately identify plant species.

VEGETATION - Use scientific names of plants

Tree Stratum	Plot Size (2,826 sf)	Absolute % Cover	Dominant Species	Indicator Staus	20%	50%
1	<i>Acer negundo</i>	40	Yes	Fac	8	20
2					8	20
3					34	85
4					0	0
5						
6						
7						
8						
9						
10		40 = Total Cover				
Sapling/Shrub Stratum	Plot Size (2,826 sf)	Absolute % Cover	Dominant Species	Indicator Staus		
1	<i>Acer negundo</i>	40	Yes	Fac		
2						
3						
4						
5						
6						
7						
8						
9						
10		40 = Total Cover				
Herb Stratum	Plot Size (78.5 sf)	Absolute % Cover	Dominant Species	Indicator Staus		
1	<i>Glechoma hederacea</i>	60	Yes	FacU		
2	<i>Solidago gigantea</i>	20	Yes	FacW		
3	<i>Rubus occidentalis</i>	10	No	Upl		
4	<i>Cornus alba</i>	10	No	FacW		
5	<i>Lonicera X bella</i>	15	Yes	FacU		
6	<i>Barbarea vulgaris</i>	10	No	Fac		
7	<i>Carex tribuloides</i>	10	No	FacW		
8	<i>Tortilis japonica</i>	10	No	Upl		
9	<i>Rhamnus cathartica</i>	5	No	Fac		
10	<i>Circaea canadensis</i>	5	No	FacU		
11	<i>Pilea pumila</i>	5	No	FacW		
12	<i>Phalaris arundinacea</i>	10	No	FacW		
		170 = Total Cover				
Woody Vine Stratum	Plot Size (2,826 sf)	Absolute % Cover	Dominant Species	Indicator Staus		
1						
2						
3						
4						
5		0 = Total Cover				

Tree Stratum 20% 50%

Sapling/Shrub Stratum 8 20

Herb Stratum 34 85

Woody Vine Stratum 0 0

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across all Strata: 5 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 60% (A/B)

Prevalence Index Worksheet

Total % Cover of:

OBL species	x 1 =	0
FACW species	x 2 =	110
FAC species	x 3 =	285
FACU species	x 4 =	320
UPL species	x 5 =	100
Column totals	(A)	815 (B)
Prevalence Index = B/A =		3.26

Hydrophytic Vegetation Indicators:

X Rapid test for hydrophytic vegetation

Dominance test is >50%

Prevalence index is ≤3.0*

Morphological 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

Hydrophytic vegetation present? Yes

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

The plot was in a partially wooded area with a sparse herbaceous understory. The area was brush mowed recently and there were many re-sprouting honeysuckle shrubs. Although the site was dominated by hydrophytic vegetation, the absence of hydric soil indicators and wetland hydrology indicators, as well as the presence of upland plant populations, strongly suggested this site could support dominance by upland vegetation. Also note the P-index was >3 and the FAC-Neutral Test was not met.

SOIL

Sampling Point: 1D

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

Depth (Inches)	Matrix Color (moist)	%	Color (moist)	%	Redox Features Type*	Loc**	Texture	Remarks
0-11	10 YR 3/2	100	None				Silt loam	
11-19	10 YR 2/2	100	None				Silt loam	
19-25	10 YR 3/2	95	10 YR 4/6	5	C	PL	Silty clay loam	

*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)
Histic Epipedon (A2)							Coast Prairie Redox (A16) (LRR K, L, R)
Black Histic (A3)							5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)							Dark Surface (S7) (LRR K, L)
Stratified Layers (A5)							Polyvalue Below Surface (S8) (LRR K, L)
Depleted Below Dark Surface (A11)							Thin Dark Surface (S9) (LRR K, L)
Thick Dark Surface (A12)							Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy Mucky Mineral (S1)							Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Gleyed Matrix (S4)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Redox (S5)							Red Parent Material (TF2)
Stripped Matrix (S6)							Very Shallow Dark Surface (TF12)
Dark Surface (S7) (LRR R, MLRA 149B)							Other (Explain in Remarks)

*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if observed): None

Type:

Depth (inches):

Hydric soil present?

No

Remarks:

No hydric indicators.

HYDROLOGY

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)
Saturation (A3)	Mari Deposits (B15)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)
Sediment Deposits (B2)	
Drift Deposits (B3)	Oxidized Rhizospheres on Living Roots (C3)
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)
Iron Deposits (B5)	
Inundation Visible on Aerial Imagery (B7)	Recent Iron Reduction in Tilled Soils (C6)
Sparsely Vegetated Concave Surface (B8)	Thin Muck Surface (C7)
	Other (Explain in Remarks)

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)

Field Observations:

Surface water present?	Yes	No	X	Depth (inches):
Water table present?	Yes	No	X	Depth (inches):
Saturation present?	Yes	No	X	Depth (inches):

(includes capillary fringe)

Wetland hydrology present? No

Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

None

Remarks:

No hydrology indicators. The plot occupied a relatively high area, well elevated above nearby wetland plots 1A & 1B. Water would not be likely to linger here for long periods.

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Leitner Property City/County: Pleasant Springs, Dane Co. Sampling Date: 8/7/15
Applicant/Owner: Don Leitner State: WI Sampling Point: 2A
Investigator(s): Scott Taylor Section, Township, Range: Section 28 (NWNW), T6N, R11E
Landform (hillslope, terrace, etc.): Lake Plain/Toeslope Local relief (concave, convex, none): Concave
Slope (%): 0 Lat.: 42.960333 N Long.: 89.207994 W Datum: UTM 16N
Soil Map Unit Name: Waucousta silty clay loam (Wa) WWI Classification: T3/S3K
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? No
Are vegetation, soil, or hydrology naturally problematic? 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 wetland? Yes
Hydric soil present? Yes If yes, optional wetland site ID: _____
Wetland hydrology present? Yes
Remarks: (Explain alternative procedures here or in a separate report.)
Using the Natural Resource Conservation Service weighted-month method, antecedent moisture, based on total precipitation for the previous 3 months (May-Wet; June-Normal; July-Normal; Stoughton, WI weather station), was found to be above average. No precipitation was recorded at the Stoughton weather station in the 6 days of August preceding the fieldwork. The soil was naturally problematic since it was judged hydric even though no hydric indicators were observed.

VEGETATION - Use scientific names of plants

Tree Stratum	Plot Size (2,826 sf)	Absolute % Cover	Dominant Species	Indicator Staus	20%	50%
1	<i>Acer saccharum</i>	50	Yes	FacW	10	25
2					2	5
3					28	70
4					1	3
5						
6						
7						
8						
9						
10		50 = Total Cover				
Sapling/Shrub Stratum	Plot Size (2,826 sf)	Absolute % Cover	Dominant Species	Indicator Staus		
1	<i>Acer negundo</i>	10	Yes	Fac		
2						
3						
4						
5						
6						
7						
8						
9						
10		10 = Total Cover				
Herb Stratum	Plot Size (78.5 sf)	Absolute % Cover	Dominant Species	Indicator Staus		
1	<i>Phalaris arundinacea</i>	60	Yes	FacW		
2	<i>Carex tribuloides</i>	20	Yes	FacW		
3	<i>Solidago gigantea</i>	20	Yes	FacW		
4	<i>Typha latifolia</i>	10	No	Obl		
5	<i>Boehmeria cylindrica</i>	10	No	Obl		
6	<i>Carex stricta</i>	10	No	Obl		
7	<i>Mimulus ringens</i>	5	No	Obl		
8	<i>Acer saccharum</i>	5	No	FacW		
9						
10						
11						
12		140 = Total Cover				
Woody Vine Stratum	Plot Size (2,826 sf)	Absolute % Cover	Dominant Species	Indicator Staus		
1	<i>Echinocystis lobata</i>	5	Yes	FacW		
2						
3						
4						
5		5 = Total Cover				

Remarks: (Include photo numbers here or on a separate sheet)
The plot was in a partially wooded area with a grassy understory.

Hydrophytic vegetation present? Yes

SOIL

Sampling Point: 2A

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

Depth (Inches)	Matrix Color (moist)	%	Color (moist)	%	Redox Features Type*	Loc**	Texture	Remarks
0-3	10 YR 2/2	100	None				Silt loam	many rocks
3-13	10 YR 3/3	100	None				Silty clay loam	many rocks
13-24	10 YR 2/1	98	10 YR 4/6	2	C	PL	Silt loam	many rocks

*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)
Histic Epipedon (A2)							Coast Prairie Redox (A16) (LRR K, L, R)
Black Histic (A3)							5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)							Dark Surface (S7) (LRR K, L)
Stratified Layers (A5)							Polyvalue Below Surface (S8) (LRR K, L)
Depleted Below Dark Surface (A11)							Thin Dark Surface (S9) (LRR K, L)
Thick Dark Surface (A12)							Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy Mucky Mineral (S1)							Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Gleyed Matrix (S4)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Redox (S5)							Red Parent Material (TF2)
Stripped Matrix (S6)							Very Shallow Dark Surface (TF12)
Dark Surface (S7) (LRR R, MLRA 149B)						X	Other (Explain in Remarks)

*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if observed): None

Type:

Hydric soil present?

Yes

Depth (inches):

Remarks:

No hydric indicators were observed however professional judgement was used to assume the soil was hydric based on vegetation and landscape position indicators. The black layer at the bottom of the profile may have been the original surface layer. The material above the bottom horizon may have been fill placed here in the distant past.

HYDROLOGY

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)				Saturation Visible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)						Presence of Reduced Iron (C4)				Stunted or Stressed Plants (D1)	
Iron Deposits (B5)										X Geomorphic Position (D2)	
Inundation Visible on Aerial Imagery (B7)						Recent Iron Reduction in Tilled Soils (C6)				Shallow Aquitard (D3)	
Sparsely Vegetated Concave Surface (B8)						Thin Muck Surface (C7)				X FAC-Neutral Test (D5)	
X						Other (Explain in Remarks)				Microtopographic Relief (D4)	

Field Observations:

Surface water present? Yes No X Depth (inches):

Water table present? Yes No X Depth (inches):

Saturation present? Yes No X Depth (inches):

(includes capillary fringe)

Wetland hydrology present? Yes

Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

None

Remarks:

The plot met the criteria of Geomorphic Position since it occupied the bottom of a depression where prolonged saturation or inundation would be likely.

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Leitner Property City/County: Pleasant Springs, Dane Co. Sampling Date: 8/7/15
Applicant/Owner: Don Leitner State: WI Sampling Point: 2B
Investigator(s): Scott Taylor Section, Township, Range: Section 28 (NWNW), T6N, R11E
Landform (hillslope, terrace, etc.): Lake Plain/ Foothills Local relief (concave, convex, none): Convex
Slope (%): 1 Lat.: 42.960333 N Long.: 89.207994 W Datum: UTM 16N
Soil Map Unit Name: Waucousta silty clay loam (Wa) WWI Classification: T3/S3K
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? No
Are vegetation soil or hydrology naturally problematic? 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 wetland? No
Hydric soil present? No If yes, optional wetland site ID: _____
Wetland hydrology present? No
Remarks: (Explain alternative procedures here or in a separate report.)
Using the Natural Resource Conservation Service weighted-month method, antecedent moisture, based on total precipitation for the previous 3 months (May-Wet; June-Normal; July-Normal; Stoughton, WI weather station), was found to be above average. No precipitation was recorded at the Stoughton weather station in the 6 days of August preceding the fieldwork.

VEGETATION - Use scientific names of plants

Tree Stratum	Plot Size (2,826 sf)	Absolute % Cover	Dominant Species	Indicator Staus	Tree Stratum	20%	50%
1	<i>Acer saccharinum</i>	30	Yes	FacW	Sapling/Shrub Stratum	6	15
2					Herb Stratum	28	70
3					Woody Vine Stratum	0	0
4							
5							
6							
7							
8							
9							
10		30 = Total Cover					
Sapling/Shrub Stratum Plot Size (2,826 sf)					Dominance Test Worksheet		
1	<i>Rhus hirta</i>	60	Yes	Upl	Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)		
2	<i>Lonicera X bella</i>	30	Yes	FacU	Total Number of Dominant Species Across all Strata: 5 (B)		
3	<i>Rhamnus cathartica</i>	20	No	Fac	Percent of Dominant Species that are OBL, FACW, or FAC: 40% (A/B)		
4	<i>Cornus alba</i>	10	No	FacW	Prevalence Index Worksheet		
5	<i>Rosa multiflora</i>	10	No	FacU	Total % Cover of:		
6	<i>Salix discolor</i>	10	No	FacW	OBL species 20 x 1 = 20		
7					FACW species 100 x 2 = 200		
8					FAC species 20 x 3 = 60		
9					FACU species 105 x 4 = 420		
10					UPL species 65 x 5 = 325		
					Column totals 310 (A) 1025 (B)		
		140 = Total Cover			Prevalence Index = B/A = 3.30645161		
Herb Stratum Plot Size (78.5 sf)					Hydrophytic Vegetation Indicators:		
1	<i>Phalaris arundinacea</i>	50	Yes	FacW	Rapid test for hydrophytic vegetation		
2	<i>Glechoma hederacea</i>	40	Yes	FacU	Dominance test is >50%		
3	<i>Boehmeria cylindrica</i>	20	No	Obl	Prevalence index is ≤3.0*		
4	<i>Morus alba</i>	10	No	FacU	Morphological adaptations* (provide supporting data in Remarks or on a separate sheet)		
5	<i>Galium triflorum</i>	10	No	FacU	Problematic hydrophytic vegetation* (explain)		
6	<i>Asclepias syriaca</i>	5	No	Upl	*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic		
7	<i>Hackelia virginiana</i>	5	No	FacU			
8							
9							
10							
11							
12							
		140 = Total Cover					
Woody Vine Stratum Plot Size (2,826 sf)					Hydrophytic vegetation present? No		
1							
2							
3							
4							
5							
		0 = Total Cover					
Remarks: (Include photo numbers here or on a separate sheet)							
The plot was in a shrub thicket with a grassy ground layer.							

SOIL

Sampling Point: 2B

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

Depth (Inches)	Matrix Color (moist)	%	Color (moist)	%	Redox Features Type*	Loc**	Texture	Remarks
0-3	10 YR 3/2	100	None				Silt loam	
3-18	10 YR 3/3	98	10 YR 4/6	2	C	PL	Silt loam	
18-24	10 YR 3/2	98	10 YR 4/6	2	C	PL	Silt loam	

*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)
Histic Epipedon (A2)							Coast Prairie Redox (A16) (LRR K, L, R)
Black Histic (A3)							5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)							Dark Surface (S7) (LRR K, L)
Stratified Layers (A5)							Polyvalue Below Surface (S8) (LRR K, L)
Depleted Below Dark Surface (A11)							Thin Dark Surface (S9) (LRR K, L)
Thick Dark Surface (A12)							Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy Mucky Mineral (S1)							Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Gleyed Matrix (S4)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Redox (S5)							Red Parent Material (TF2)
Stripped Matrix (S6)							Very Shallow Dark Surface (TF12)
Dark Surface (S7) (LRR R, MLRA 149B)							Other (Explain in Remarks)

*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if observed): None

Type:

Hydric soil present?

No

Depth (inches):

Remarks:

No hydric indicators. The unusual sequence of soil colors suggest past disturbance. There were rugged surface contours in the surrounding area, suggesting placement of fill in the distant past. The chroma was too high and the redox concentrations were too few in the middle horizon to meet the criteria of a hydric soil indicator.

HYDROLOGY

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 Imagery (B7)						Recent Iron Reduction in Tilled Soils (C6)		Geomorphic Position (D2)
Sparsely Vegetated Concave Surface (B8)						Thin Muck Surface (C7)		Shallow Aquitard (D3)
						Other (Explain in Remarks)		FAC-Neutral Test (D5)
								Microtopographic Relief (D4)

Field Observations:

Surface water present? Yes No X Depth (inches):

Water table present? Yes No X Depth (inches):

Saturation present? Yes No X Depth (inches):

(includes capillary fringe)

Wetland hydrology present? No

Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

None

Remarks:

No hydrology indicators. The plot occupied a relatively high area, well elevated above nearby wetland plot 2A. Water would not be likely to linger here for long periods.

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Leitner Property City/County: Pleasant Springs, Dane Co. Sampling Date: 8/7/15
Applicant/Owner: Don Leitner State: WI Sampling Point: 2C
Investigator(s): Scott Taylor Section, Township, Range: Section 28 (NWNW), T6N, R11E
Landform (hillslope, terrace, etc.): Lake Plain/Footslope Local relief (concave, convex, none): Convex
Slope (%): 1 Lat.: 42.960333 N Long.: 89.207994 W Datum: UTM 16N
Soil Map Unit Name: Waucousta silty clay loam (Wa) 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? No
Are vegetation, soil, or hydrology naturally problematic? 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 wetland?	No
Hydric soil present?	No	If yes, optional wetland site ID:	
Wetland hydrology present?	No		

Remarks: (Explain alternative procedures here or in a separate report.)
Using the Natural Resource Conservation Service weighted-month method, antecedent moisture, based on total precipitation for the previous 3 months (May-Wet; June-Normal; July-Normal; Stoughton, WI weather station), was found to be above average. No precipitation was recorded at the Stoughton weather station in the 6 days of August preceding the fieldwork.

VEGETATION - Use scientific names of plants

Tree Stratum	Plot Size (2,826 sf)	Absolute % Cover	Dominant Species	Indicator Staus	Tree Stratum	20%	50%
1	<i>Acer saccharinum</i>	35	Yes	FacW	Tree Stratum	19	48
2	<i>Populus deltoides</i>	20	Yes	Fac	Sapling/Shrub Stratum	22	55
3	<i>Acer negundo</i>	20	Yes	Fac	Herb Stratum	23	58
4	<i>Prunus serotina</i>	20	Yes	FacU	Woody Vine Stratum	0	0
5							
6							
7							
8							
9							
10							
		95	= Total Cover				
Sapling/Shrub Stratum	Plot Size (2,826 sf)	Absolute % Cover	Dominant Species	Indicator Staus			
1	<i>Rhamnus cathartica</i>	60	Yes	Fac			
2	<i>Acer negundo</i>	30	Yes	Fac			
3	<i>Lonicera X bella</i>	20	No	FacU			
4							
5							
6							
7							
8							
9							
10							
		110	= Total Cover				
Herb Stratum	Plot Size (78.5 sf)	Absolute % Cover	Dominant Species	Indicator Staus			
1	<i>Glechoma hederacea</i>	30	Yes	FacU			
2	<i>Parthenocissus quinquefolia</i>	20	Yes	FacU			
3	<i>Arctium minus</i>	15	Yes	FacU			
4	<i>Phalaris arundinacea</i>	10	No	FacW			
5	<i>Hackelia virginiana</i>	10	No	FacU			
6	<i>Rubus occidentalis</i>	10	No	Upl			
7	<i>Viola sp.</i>	10	No	Upl			
8	<i>Geum canadense</i>	5	No	Fac			
9	<i>Torilis japonica</i>	5	No	Upl			
10							
11							
12							
		115	= Total Cover				
Woody Vine Stratum	Plot Size (2,826 sf)	Absolute % Cover	Dominant Species	Indicator Staus			
1							
2							
3							
4							
5							
		0	= Total Cover				

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across all Strata: 9 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 56% (A/B)

Prevalence Index Worksheet

Total % Cover of:

OBL species	x 1 =	0
FACW species	x 2 =	90
FAC species	x 3 =	405
FACU species	x 4 =	460
UPL species	x 5 =	125
Column totals		320 (A) 1080 (B)
Prevalence Index = B/A =		3.375

Hydrophytic Vegetation Indicators:

Rapid test for hydrophytic vegetation

X Dominance test is >50%

Prevalence index is ≤3.0*

Morphological 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

Hydrophytic vegetation present? Yes

Remarks: (Include photo numbers here or on a separate sheet)
The plot was in a wooded, brushy area area. Although the site was dominated by hydrophytic vegetation, the absence of hydric soil indicators and wetland hydrology indicators, as well as the presence of upland plant populations, strongly suggested this site could support dominance by upland vegetation. Also note the P-index was >3 and the FAC-Neutral Test was not met.

SOIL

Sampling Point: 2C

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

Depth (Inches)	Matrix Color (moist)	%	Color (moist)	%	Redox Features Type*	Loc**	Texture	Remarks
0-13	10 YR 3/3	100	None				Silt loam	
13-15	10 YR 3/2	100	None				Silt loam	
15-24	10 YR 4/4	100	None				Silty clay loam	

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains

**Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

Histisol (A1)
 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)

Indicators for Problematic Hydric Soils*:

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)
 Dark Surface (S7) (LRR K, L)

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) Depleted Matrix (F3)
 Sandy Gleyed Matrix (S4) Redox Dark Surface (F6)
 Sandy Redox (S5) Depleted Dark Surface (F7)
 Stripped Matrix (S6) Redox Depressions (F8)
 Dark Surface (S7) (LRR R, MLRA 149B)
 Polyvalue Below Surface (S8) (LRR K, L)
 Thin Dark Surface (S9) (LRR K, L)
 Iron-Manganese Masses (F12) (LRR K, L, R)
 Piedmont Floodplain Soils (F19) (MLRA 149B)
 Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
 Red Parent Material (TF2)
 Very Shallow Dark Surface (TF12)
 Other (Explain in Remarks)

*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if observed): None

Type:

Depth (inches):

Hydric soil present?

No

Remarks:

No hydric indicators.

HYDROLOGY

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

Surface Water (A1)
 High Water Table (A2)
 Saturation (A3)
 Water Marks (B1)
 Sediment Deposits (B2)
 Drift Deposits (B3)
 Algal Mat or Crust (B4)
 Iron Deposits (B5)
 Inundation Visible on Aerial Imagery (B7)
 Sparsely Vegetated Concave Surface (B8)
 Water-Stained Leaves (B9)
 Aquatic Fauna (B13)
 Marl Deposits (B15)
 Hydrogen Sulfide Odor (C1)
 Oxidized Rhizospheres on Living Roots (C3)
 Presence of Reduced Iron (C4)
 Recent Iron Reduction in Tilled Soils (C6)
 Thin Muck Surface (C7)
 Other (Explain in Remarks)

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)

Field Observations:

Surface water present? Yes No X Depth (inches):
 Water table present? Yes No X Depth (inches):
 Saturation present? Yes No X Depth (inches):
 (includes capillary fringe)

Wetland hydrology present? No

Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

None

Remarks:

No hydrology indicators. The plot occupied a relatively high area, well elevated above nearby wetland plot 2A. Water would not be likely to linger here for long periods.

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Leitner Property City/County: Pleasant Springs, Dane Co. Sampling Date: 8/7/15
Applicant/Own: Don Leitner State: WI Sampling Point: 3
Investigator(s): Scott Taylor Section, Township, Range: Section 28 (NWNW), T6N, R11E
Landform (hillslope, terrace, etc.): Lake Plain/Toeslope Local relief (concave, convex, none): Concave
Slope (%): 0 Lat.: 42.960333 N Long.: 89.207994 W Datum: UTM 16N
Soil Map Unit Name: Waucousta silty clay loam (Wa) WWI Classification: T3/S3K
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? No
Are vegetation soil X or hydrology naturally problematic? Yes
(If needed, explain any answers in remarks)

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Yes Is the sampled area within a wetland? Yes
Hydric soil present? Yes If yes, optional wetland site ID: _____
Wetland hydrology present? Yes
Remarks: (Explain alternative procedures here or in a separate report.)
Using the Natural Resource Conservation Service weighted-month method, antecedent moisture, based on total precipitation for the previous 3 months (May-Wet; June-Normal; July-Normal; Stoughton, WI weather station), was found to be above average. No precipitation was recorded at the Stoughton weather station in the 6 days of August preceding the fieldwork. The soil was naturally problematic since it was judged hydric even though no hydric indicators were observed.

VEGETATION - Use scientific names of plants

Tree Stratum	Plot Size (314 sf)	Absolute % Cover	Dominant Species	Indicator Staus	20%	50%
1	<i>Populus deltoides</i>	60	Yes	Fac	22	55
2	<i>Acer saccharinum</i>	30	Yes	FacW	9	23
3	<i>Acer negundo</i>	20	No	Fac	0	1
4					0	0
5						
6						
7						
8						
9						
10						
		110 = Total Cover				
Sapling/Shrub Stratum	Plot Size (314 sf)	Absolute % Cover	Dominant Species	Indicator Staus		
1	<i>Acer saccharinum</i>	20	Yes	FacW		
2	<i>Acer negundo</i>	20	Yes	Fac		
3	<i>Morus alba</i>	5	No	FacU		
4						
5						
6						
7						
8						
9						
10						
		45 = Total Cover				
Herb Stratum	Plot Size (78.5 sf)	Absolute % Cover	Dominant Species	Indicator Staus		
1	<i>Vitis riparia</i>	2	No	Fac		
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
		2 = Total Cover				
Woody Vine Stratum	Plot Size (314 sf)	Absolute % Cover	Dominant Species	Indicator Staus		
1						
2						
3						
4						
5						
		0 = Total Cover				

Tree Stratum 20% 50%
Sapling/Shrub Stratum 9 23
Herb Stratum 0 1
Woody Vine Stratum 0 0

Dominance Test Worksheet
Number of Dominant Species that are OBL, FACW, or FAC: 4 (A)
Total Number of Dominant Species Across all Strata: 4 (B)
Percent of Dominant Species that are OBL, FACW, or FAC: 100% (A/B)

Prevalence Index Worksheet
Total % Cover of:
OBL species x 1 = 0
FACW species 50 x 2 = 100
FAC species 102 x 3 = 306
FACU species 5 x 4 = 20
UPL species x 5 = 0
Column totals 157 (A) 426 (B)
Prevalence Index = B/A = 2.7133758

Hydrophytic Vegetation Indicators:
Rapid test for hydrophytic vegetation
X Dominance test is >50%
Prevalence index is ≤3.0*
Morphological 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

Hydrophytic vegetation present? Yes

Remarks: (Include photo numbers here or on a separate sheet)
The plot was in a wooded area with a near-bare understory, probably due to a combination of heavy shade and prolonged ponding of water. The grapes (*Vitis riparia*) in the herb layer were not considered dominant since their cover value was less than 5%.