

Assured Wetland Delineation Report

4908 Pierceville Road Town of Sun Prairie, Dane County, Wisconsin Stantec Project #:193708475

Lead Delineator: Kate Remus

August 26, 2021

Prepared for:

Todd Justmann 4908 Pierceville Road Cottage Grove, WI 53527

Prepared by:

Stantec Consulting Services Inc. 209 Commerce Parkway PO Box 128 Cottage Grove, WI 53527 Phone: (608) 839-1998

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1.0 INTRODUCTION

Stantec Consulting Services Inc. (Stantec) performed a wetland delineation of the Justmann property at 4908 Pierceville Road (the "Study Area") on behalf of Todd Justmann. The wetland delineation was completed by Kate Remus of Stantec, an assured delineator qualified via the Wisconsin Department of Natural Resources (WDNR) Wetland Delineation Assurance Program, on August 12, 2021 (see Appendix A for Delineator Qualifications).

The Study Area is approximately 3.7 acres in size and located in Section 35, Township 8 North, Range 11 East, Town of Sun Prairie, Dane County, Wisconsin. Specifically, the Study Area is east of Pierceville Road, approximately one mile east of the intersection of Pierceville Road and County Trunk Highway TT (CTH TT) (Appendix B, Figure 1). The purpose and objective of the wetland determination and delineation was to identify the extent and spatial arrangement of wetlands, as well as to identify potentially jurisdictional waterways, within the Study Area.

Wetland and waterways may be subject to federal regulation under the jurisdiction of the U.S. Army Corps of Engineers (USACE), state regulation under the jurisdiction of the WDNR, and local regulation under jurisdiction of the local county, town, city, or village. Stantec recommends this report be submitted to local authorities, the WDNR, and USACE for final jurisdictional review. Delineations completed by a WDNR Assured Delineator do not need to obtain WDNR concurrence.

4908 Pierceville Road Methods August 26, 2021

2.0 METHODS

2.1 WETLANDS

Wetland delineations were based on the criteria and methods outlined in the *Corps of Engineers Wetlands Delineation Manual*, Technical Report Y-87-1 (1987) and subsequent guidance documents, and applicable Regional Supplements to the *Corps of Engineers Wetland Delineation Manual*.

The wetland delineation involved the use of available resources to assist in the assessment such as U.S. Geological Survey (USGS) topographic maps, U.S. Department of Agriculture Natural Resources Conservation Service (NRCS) soil survey, WDNR Wisconsin Wetland Inventory (WWI) mapping, and aerial photography.

The on-site wetland delineation was made using the three criteria (vegetation, soil, and hydrology) and technical approach defined in the USACE 1987 Manual and applicable Regional Supplement. According to procedures described in the 1987 Manual and applicable Regional Supplement, areas that under normal circumstances reflect a predominance of hydrophytic vegetation, hydric soils, and wetland hydrology (e.g., inundated or saturated soils) are considered wetlands.

As recent weather patterns influence the visibility and presence of some wetland hydrology indicators, the antecedent precipitation in the three months leading up to the field investigation was reviewed. The current year's precipitation data were compared to the most recent long-term (30-year) precipitation averages and standard deviation to determine if precipitation was normal, wet, or dry for the area using a WETS analysis as developed by the NRCS.

The wetland boundary and sampling points were identified and surveyed with a Global Positioning System (GPS) capable of sub-meter accuracy and mapped using Geographical Information System (GIS) software. The wetland boundary was flagged with pink pin flags in the field.

2.2 WATERWAYS

Review of waterway characteristics and determination of navigability and jurisdiction was beyond the scope of the investigation. However, if observed, waterways, waterbodies, culverts, and/or other connections to off-site wetland or aquatic features that may be under federal or state authority were surveyed using a GPS and mapped using GIS software.

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3.0 RESULTS

3.1 SITE DESCRIPTION

The Study Area is a residential property that includes a house and wooded yard in the western third of the property, woodland in the middle third, with an early successional irregularly mowed grassy field and wet meadow wetland in the eastern third of the property. There is a gravel pad over an area of graded fill just east of the eastern woodland edge and a large brush pile within the wetland area. The property follows a gradual west-east slope from topographic highs of approximately 900 feet above mean sea level (msl) at Pierceville Road near the western property boundary to approximately 870 feet msl near the eastern property boundary. The Study Area is bordered by similar wooded residential properties to the north and south, Pierceville Road to the west, and open undeveloped land to the east.

Soils present within the Study Area and their hydric status are summarized in Table 1. Wetlands identified during the field investigation are located primarily within areas mapped as predominantly hydric soils and very poorly drained wetland indicator soils (Appendix B, Figures 2 and 3).

Table 1. Summary of Soils Identified within the Study Area

Soil symbol: Soil Unit Name	Soil Unit Component	Soil Unit Component Percentage	Landform	Hydric status
DnB: Dodge silt loam, 2 to 6 percent slopes	Dodge	80-95	Drumlins	No
	St. Charles	3-10	Drumlins	No
	Mayville	2-7	Drumlins	No
	Lamartine	0-3	Drumlins	No
Ho: Houghton muck	Houghton	100	Depressions on stream terraces	Yes
SaA: Sable silty clay loam, 0 to 2 percent slopes	Sable	85-100	Swales	Yes
	Ipava	0-7	Ground moraines	No
	Muscatune	0-6	Ground moraines	No
	Buckhart	0-4	Knolls	No
	Elburn	0-3	Outwash plains	No
ScB: St. Charles silt loam, 2 to 6 percent slopes	St. Charles	80-90	Till plains	No
	St. Charles- Moderately well drained	5-10	Till plains	No
	Virgil	3-5	Till plains	No
	Pella	2-5	Drainageways	Yes

The WWI map identifies one wetland area within the eastern third of the Study Area that extends beyond the Study Area to the north, east, and south (Appendix B, Figure 4). The field delineated wetland is within the same vicinity as the wetland area identified on the WWI map (Appendix B, Figure 5).

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3.2 CLIMATIC CONDITIONS

Average precipitation for the investigation area was obtained from the Dane County Regional Airport WETS weather station located in Madison, WI and used for the WETS analysis. A total of 8.38 inches of precipitation occurred in the three-month time period prior to the field investigation in 2021 compared to the long-term average of 13.68 inches. Based on the WETS analysis, conditions were drier than normal (Appendix C). No rain fell between August 1-4, 2021, but between August 5-11, 2.15 inches of precipitation was recorded. Field conditions were still considered drier than normal despite the rain immediately preceding the field investigation as wetland hydrology was only observed at one of the sample points completed within W1 despite similar landscape position and soil profiles.

3.3 WETLANDS

One wetland was identified and delineated within the Study Area. Wetland determination data forms were completed for five sample points along transects through the wetland and adjacent upland and are included in Appendix D. Photographs of the wetlands and Study Area context are included in Appendix E. The wetland boundary and sample point locations are shown on Figure 5 (Appendix B). The wetland is summarized in Table 2 below and described in detail in the following sections.

Table 2. Summary of Wetlands Identified within the Study Area

Wetland ID	Observed Wetland	Mapped WWI	Adjacent Surface	Acreage
	Type*	Wetland Type**	Waters	(on-site)
W1	Fresh (wet) meadow	E1Kg	Intermittent waterway mapped in 24K hydro layer through wetland east of the Study Area	0.86

^{*}Wetland type based on Eggers & Reed, 2014

3.3.1 Wetland 1

Wetland 1 (W1) is a degraded wet meadow community within the eastern quarter of the Study Area that is irregularly mowed and contains a large brush pile and trees along the eastern property boundary. The wetland appears to continue off-site to the north, south, and east. W1 appears to be directly connected to an unnamed intermittent waterway located outside the Study Area to the east that is identified on the 24k hydro layer mapped by USGS (Figure 1, Appendix A) and visible in the WDNR 24k hydrography layer (Figure 4, Appendix A). The unnamed intermittent waterway associated with W1 flows south and eventually discharges to Koshkonong Creek. Koshkonong Creek flows to Lake Koshkonong which discharges to the Rock River.

Vegetation

The dominant plant species identified at sample points completed within W1 was reed canary grass (*Phalaris arundinacea*, FACW). Other common species identified in the wetland are listed on the data forms included in Appendix B. The dominant species within the wetland are comprised mostly of hydrophytic vegetation (OBL, FACW, and/or FAC) and meet the hydrophytic vegetation criterion.

^{**}Mapped WWI wetland may or may not correspond to field observed wetland type

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Hydrology

The wetland appears to have a seasonally saturated hydroperiod. Primary indicators of wetland hydrology were only observed at sample point SP4 and included High Water Table (A2) and Saturation within the upper 12 inches (A3). Secondary indicators of wetland hydrology observed at both sample points SP1 and SP4 included Geomorphic Position (D2) and a positive FAC-Neutral Test (D5), and Dry-Season Water Table at SP4. Therefore, the wetland hydrology criterion was met.

Soils

Soils within the wetland are mapped by the NRCS as Houghton muck (Ho) (Figure 2, Appendix A). The soils observed at the sample points were consistent with the Houghton series characteristics. Field indicators of hydric soil identified at sample points SP1 and SP4 consisted of NRCS field Indicators A1-Histosol, A3-Black Histic, and A12-Thick Dark Surface. Therefore, the hydric soil criterion was satisfied.

3.3.2 Wetland Boundary

The wetland boundary was determined based on distinct differences in vegetation, hydrology, soils, and topography consisting of the following: 1) Transition from a wet meadow wetland community dominated by reed canary grass to an early transitional open grassy upland community dominated by red clover (*Trifolium pratense*, FACU), Queen Anne's-lace (*Daucus carota*, UPL); barnyard grass (*Echinochloa crus-galli*, FAC), giant foxtail (*Setaria faberi*, FACU), and a reduced footprint of reed canary grass; 2) Transition from an area exhibiting wetland hydrology indicators within the wetland to a lack of wetland hydrology indicators within the adjacent upland; and 3) Transition from soils exhibiting hydric soil indicators to soils lacking indicators of hydric soil conditions. The transition from wetland to upland characteristics generally correlated with a subtle topographic break.

3.4 UPLANDS

Upland within the Study Area consists of a house and wooded yard in the western third of the property at the highest elevations, disturbed upland woodland following the slope in the middle third of the property, and an early successional grassy field adjacent to the field identified wetland in the eastern third of the property. The woodland contains various oaks (*Quercus* spp.) and black cherry (*Prunus serotina*, FACU) with box elder (*Acer negundo*, FAC) and Siberian elm (*Ulmus pumila*, FACU) in the canopy over common buckthorn (*Rhamnus cathartica*, FAC), multiflora rose (*Rosa multiflora*, FACU), honeysuckle (*Lonicera* spp.), and common blackberry (*Rubus alleghaniensis*, FACU) in the shrub layer. Most of the upland grassy field just east of the woodland edge contains a gravel pad over an area of graded fill that slopes down to the wetland area. The area of grading/fill grades into the natural elevation contours to the north and south and ranges from one to three feet above the wetland area to the east. Along the fill slope and in areas unaffected by the grading/fill, common vegetation included red clover, common plantain (*Plantago major*, FACU), Queen Anne's-lace, barnyard grass, reed canary grass, black medic (*Medicago lupulina*, FACU), giant foxtail, and various thistles (*Cirsium* spp). There was a noticeable transition from upland to wetland vegetation, with reed canary grass becoming dominant in the wetland and the upland forb species mostly absent.

As would be expected based on the NRCS soil data, hydric soils were observed at sample points SP2 and SP3 where fill materials were not present, with very dark soils over a depleted layer. While NRCS Field Indicators of Hydric Soil were observed at these sample points, conditions were determined to be relic and non-wetland due to the lack of wetland hydrology and dominance of non-hydrophytic vegetation. Hydrology conditions on site are likely impacted by the lateral effect of ditched waterways east and south of the Study Area, as well as subsurface drain tile that is likely present on neighboring properties. In general, upland areas were determined to be non-wetland based on the lack of wetland hydrology, hydric soils, hydrophytic

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vegetation, and an elevated location in the landscape that lacked suitable geomorphic position for wetland conditions to exist.

3.5 WATERWAYS

One waterway is mapped by USGS and the WDNR 24K hydrography layer (WDNR Water Body Identification Code 5035047) outside of the Study Area to the east. No waterways are mapped by the USGS or WDNR 24k hydrography layer within the Study Area and no waterways were observed during the on-site field investigation.

3.6 OTHER ENVIRONMENTAL CONSIDERATIONS

This report is limited to the identification of state and/or federally regulated wetlands and waterways within the Study Area. However, there may be other regulated features within the Study Area, including, but not limited to, historical or archeological features, endangered or threatened species, navigable waters, shoreland zones, and/or floodplains, etc. Federal, state, and local units of government and regional planning organizations may have regulatory authority to control or restrict land uses within or in close proximity to these features.

Specifically, in the state of Wisconsin, Wis. Adm. Code NR 151.12 requires that a "protective area" or buffer be determined from the top of the channel of lakes, streams and rivers, or at the delineated boundary of wetlands. In accordance with NR 151.12, the width of the "protective area" for less susceptible wetlands is determined by using 10% of the average wetland width, no less than 10 feet or more than 30 feet. Moderately susceptible wetlands, lakes, and perennial and intermittent streams identified on USGS topographic maps or NRCS county soil survey maps (whichever is more current) require a protective buffer of 50 feet, and outstanding or exceptional resource waters, highly susceptible wetlands, and wetlands in areas of special natural resource interest require protective buffers of 75 feet. The jurisdictional authority on wetland buffers rests with the WDNR. Local zoning authorities and/or a regional planning organization may have more restrictive buffers from wetlands than that imposed under NR 151.

4908 Pierceville Road Conclusion August 26, 2021

4.0 CONCLUSION

Stantec performed a wetland delineation of the Justmann property at 4908 Pierceville Road on behalf of Todd Justmann. The approximately 3.7 acres Study Area is located in Section 16, Township 8 North, Range 11 East, Town of Sun Prairie, Dane County, Wisconsin. The purpose and objective of the wetland delineation was to identify wetlands and potentially jurisdictional waterways within the Study Area.

One wetland totaling 0.86 acre was identified and delineated within the Study Area in accordance with state and federal guidelines and were subsequently flagged, surveyed with GPS, and mapped using GIS software. The wetland is comprised of fresh (wet) meadow and adjacent uplands are composed of early successional grassland.

The wetlands identified in this report may be subject to federal regulation under the jurisdiction of USACE, state regulation under the jurisdiction of the WDNR, and local regulation under jurisdiction of the local county, town, city, or village. Stantec recommends this report be submitted to local authorities, the WDNR, and USACE for final jurisdictional review.

Prior to beginning work at this site or disturbing or altering wetlands, waterways, or adjacent lands in any way, Stantec recommends that the owner obtain the necessary permits or other agency regulatory review and concurrence with regard to the proposed work to comply with applicable regulations.

The information provided by Stantec regarding wetland boundaries is a scientific-based analysis of the wetland and upland conditions present within the Study Area at the time of the fieldwork. The delineation was performed by experienced and qualified professionals using standard practices and sound professional judgment. The ultimate decision on wetland boundaries rests with the USACE and, in some cases, the WDNR or a local unit of government. As a result, there may be adjustments to boundaries based upon review by a regulatory agency. An agency determination can vary from time to time depending on various factors including, but not limited to recent precipitation patterns and the season of the year. In addition, the physical characteristics of the Study Area can change over time, depending on the weather, vegetation patterns, drainage activities on adjacent parcels, or other events. Any of these factors can change the nature and extent of wetlands within the Study Area.

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5.0 REFERENCES

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Wisconsin Department of Natural Resources (WDNR), Bureau of Watershed Management. 2018. [Digital inventory of Wisconsin wetlands]. Wisconsin Wetland Inventory. WDNR Surface Water Data Viewer, https://dnrmaps.wi.gov/H5/?Viewer=SWDV.

WDNR 24K Hydro Full File Geodatabase (Updated May 10, 2018). [24k hydrography geospatial data layers]. Available online: https://data-wi-dnr.opendata.arcgis.com/datasets?t=water

WDNR. 1992. *Wisconsin Wetland Inventory Classification Guide*. PUBL-WZ-WZ203. http://dnr.wi.gov/topic/wetlands/documents/WWI_Classification.pdf.

4908 Pierceville Road Delineator Qualifications August 26, 2021

Appendix A DELINEATOR QUALIFICATIONS

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
1300 W Clairemont Avenue
Eau Claire, WI 54701

Tony Evers, Governor Preston D. Cole, Secretary Telephone 608-266-2621 Toll Free 1-888-936-7463 TTY Access via relay - 711



March 22, 2021

Kate Remus Stantec 209 Commerce Parkway P.O. Box 128 Cottage Grove, WI 53527

Subject: 2021 Assured Wetland Delineator Confirmation

Dear Ms. Remus:

This letter provides Wisconsin Department of Natural Resources (WDNR) confirmation for the wetland delineations you conduct during the 2021 growing season. You and your clients will not need to wait for the WDNR to review your wetland delineations before moving forward with project planning. This will help expedite the review process for WDNR's wetland regulatory program. Your name and contact information will continue to be listed on our website at: http://dnr.wi.gov/topic/wetlands/assurance.html.

In the instance where a municipality may require a letter of confirmation for your work prior to moving forward in the local regulatory process, this letter shall serve as that confirmation. Although your wetland delineations do not require WDNR field review, inclusion of a Wetland Delineation Report is required for projects needing State authorized wetland, waterway and/or storm water permit approvals.

If you or any client has a question regarding your status in the Wetland Delineation Professional Assurance Program, contact me by email at kara.brooks@wisconsin.gov or phone at 414-308-6780. Thank you for all your hard work and best wishes for the upcoming field season.

Sincerely,

Kara Brooks

Wetland Identification Coordinator Bureau of Watershed Management



Kate Remus PWS

Environmental Scientist · 14 Years of Experience · Cottage Grove, Wisconsin

Kate is an environmental scientist specializing in wetland and biological inventory work, and environmental planning and permitting support. Kate's experience includes wetland delineations and assessments, habitat assessments, rare species surveys and endangered resources reviews, watershed assessments, and invasive species inventory and management. She has experience working with a variety of clients across the private, municipal, and government sectors on a wide-range of projects, from small to large-scale.

EDUCATION

Master of Science, Water Resource Management, University of Wisconsin, Madison, Wisconsin, 2010

Bachelor of Science, Forestry Major (Ecosystem Restoration & Management), Soil Science Minor, University of Wisconsin, Stevens Point, Wisconsin, 2006

CERTIFICATIONS & TRAINING

Sedges: Identification and Ecology, UW-Milwaukee Field Station, Cedarburg, Wisconsin, 2014

Certified S130/S190 Wildland Fire, Stevens Point, Wisconsin, 2006

Wetland Delineation Training, Wetland Training Institute, Wisconsin, 2010

Certified Endangered Resources Reviewer, Wisconsin Department of Natural Resources, Wisconsin, 2011

Advanced Wetland Delineation, UW-La Crosse Extension, La Crosse, Wisconsin, 2012

Critical Methods in Wetland Delineation, UW-La Crosse Extension (2014-2021), Madison, Wisconsin, 2021

Karner Blue Butterfly HCP Monitoring - 2016, 2021, Department of Natural Resources, Wisconsin, 2021

Wetland Plant Identification, Wetland Training Institute, Wisconsin, 2011

Assured Wetland Delineator, Wetland Delineation Professional Assurance Program, Wisconsin Department of Natural Resources, WI, United States, 2019

REGISTRATIONS

Professional Wetland Scientist #2973, Society of Wetland Scientists Certification Program, 2018

4908 Pierceville Road Figures August 26, 2021

Appendix B FIGURES

- Figure 1. Project Location and Topography
- Figure 2. NRCS Soil Survey Data Hydric Ratings
- Figure 3. NRCS Soil Survey Data Wetland Indicator Soils
- Figure 4. Wisconsin Wetland Inventory
- Figure 5. Field Collected Data

Revised: 2021-08-23 By: jmarty

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Notes
1. Coordinate System: NAD 1983 StatePlane
Wisconsin South FIPS 4803 Feet
2. Data Sources: Stantec, WDNR, WisDOT, NRCS
3. Background: 2018 NAIP

Legend

Project Boundary NRCS Soil Survey Data Hydric Soil Rating

Predominantly Hydric Soil Partially Hydric Soil

Non-Hydric Soil

DNR 24k Hydrography Perennial Stream*

Intermittent Stream Waterbody*

*No features within data frame



(At original document size of 8.5x11) 1:2,400





Project Location T8N, R11E, S35, T. of Sun Prairie, Dane Co., WI

Prepared by JM on 2021-08-02 TR by RA on 2021-08-05 IR by KR on 2021-08-23

Justmann Wetland Determination

Title
NRCS Soil Survey Data **Hydric Ratings**

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Notes
1. Coordinate System: NAD 1983 StatePlane
Wisconsin South FIPS 4803 Feet
2. Data Sources: Stantec, WDNR, WisDOT, NRCS
3. Background: 2018 NAIP

Legend

Project Boundary NRCS Soil Survey Data Drainage Classification

Very Poorly Drained Poorly Drained

Somewhat Poorly Drained

DNR 24k Hydrography

Perennial Stream* Intermittent Stream Waterbody*

*No features within data frame



(At original document size of 8.5x11) 1:2,400





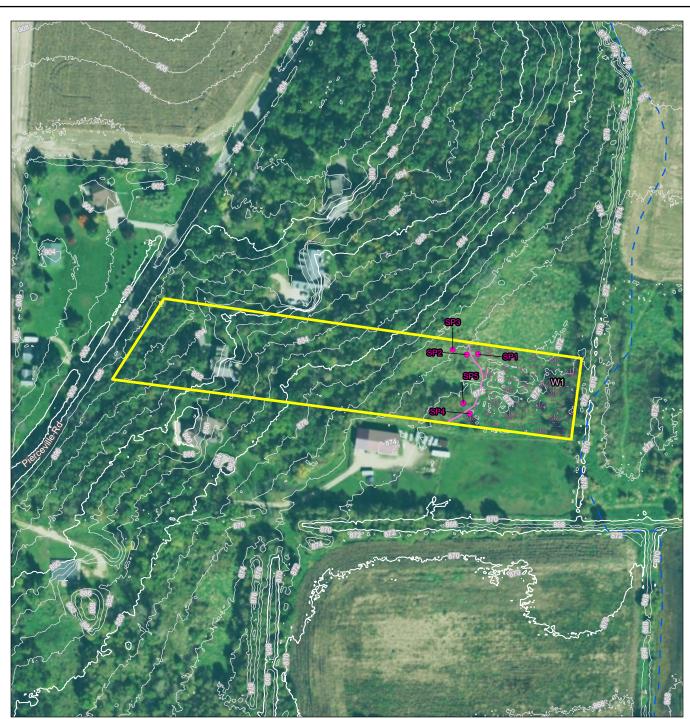
Prepared by JM on 2021-08-02 TR by RA on 2021-08-05 IR by KR on 2021-08-23 Project Location T8N, R11E, S35, T. of Sun Prairie, Dane Co., WI

Justmann Wetland Determination

NRCS Soil Survey Data **Drainage Classification**

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Notes
1. Coordinate System: NAD 1983 StatePlane
Wisconsin South FIPS 4803 Feet
2. Data Sources: Stantec, WDNR, WisDOT
3. Background: 2018 NAIP

Legend

Project Boundary

Sample Point

Field Delineated Wetland

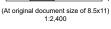
2ft Elevation Contour DNR 24k Hydrography

Perennial Stream*

Intermittent Stream

Waterbody*









Project Location T8N, R11E, S35, T. of Sun Prairie, Dane Co., WI

Prepared by JM on 2021-08-04 TR by RA on 2021-08-05 IR by KR on 2021-08-23

Justmann Wetland Determination

Figure No.
5
Title
Field Collected Data





Notes
1. Coordinate System: NAD 1983 StatePlane
Wisconsin South FIPS 4803 Feet
2. Data Sources: Stantec, WDNR, WisDOT
3. Background: 2018 NAIP

Legend

Project Boundary

WWI Wetland Class Points

★ Wetland Too Small to Delineate*

WWI Wetland Class Areas

Wetland

DNR 24k Hydrography

Perennial Stream*

Intermittent Stream Waterbody*





Prepared by JM on 2021-08-02 TR by RA on 2021-08-05 IR by KR on 2021-08-23

Justmann Wetland Determination

Title
Wisconsin Wetland Inventory

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4908 Pierceville Road WETS Analysis August 26, 2021

Appendix C WETS ANALYSIS

WETS Analysis Worksheet

Project Name: 4908 Pierceville Road

Project Number: 193708475 Period of interest: May - July

Station: Dane County Regional Airport

County: Dane County, WI

Long-term rainfall records (from WETS table)

		3 years in 10		3 years in 10
	Month	less than	Normal	greater than
1st month prior:	July	3.14	4.36	5.15
2nd month prior:	June	3.26	5.24	6.33
3rd month prior:	May	2.75	4.08	4.88

Sum = **13.68**

Site determination

	Site	Condition	Condition**	Month					
	Rainfall (in)	Dry/Normal*/Wet	Value	Weight	Product				
	1.58	Dry	1	3	3				
	4.60	Normal	2	2	4				
	2.20	Dry	1	1	1				
Sum =	8.38			Sum*** =	8				

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

Determination:

X Wet

Normal

**Condition value:
Dry = 1

***If sum is:

then period has been drier than normal

Normal = 2

6 to 9

then period has been normal

Wet = 3

10 to 14 15 to 18

then period has been wetter than normal

NOTE: 2.15 inches of precipitation received August 5-11, 2021, with 0.97in 8/7, 0.02in 8/8, 0.80in 8/9, and 0.35in 8/10.

Precipitation data source: Agricultural Applied Climate Information System: http://agacis.rcc-acis.org/

Reference: Donald E.Woodward, ed. 1997. Hydrology Tools for Wetland Determination, Chapter 19. Engineering Field Handbook. U.S. Department of

Agriculture, Natural Resources Conservation Service, Fort Worth, TX.

4908 Pierceville Road Wetland Determination Data Forms August 26, 2021

Appendix D WETLAND DETERMINATION DATA FORMS

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Investigator(s): K. Remus Section, Township, Range: S35, T8N, R11E Landform (hillside, terrace, etc.): Terrace / Plain Local relief (concave, convex, none): None Slope %: 1 Subregion (LRR or MLRA): LRR K, MLRA 95B Lat: Long: Datum: NAD83 Soil Map Unit Name: Houghton muck NWI classification: WWI: E1Kg Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.) Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes X No Wetland Hydrology Present? Yes X No If yes, optional Wetland? Yes X No If yes, optional Wetland Site ID: W1 Remarks: (Explain alternative procedures here or in a separate report.) Based on a WETS anlysis of May-July 2021 precipitation records, climatic conditions were drier than the 30-year normal range. In August, 2.15in of precipitation was received in the week (Aug 5-11) leading up to the field investigation. Sample point located in fallow/old field irregularly mowed by landowner.	Project/Site: 4908 Pierceville Road		City/County: T. of Sur	n Prairie / Dane County	Sampling Date: <u>8/12/2021</u>
Landform (hillside, terrace, etc.):	Applicant/Owner: Todd Justmann			State: WI	Sampling Point: SP1
Subregion (LRR or MLRA): LRR K, MLRA 95B Lat: Long: NWI classification: WWI: ETKg Are climatic / hydrologic conditions on the site typical for this time of year? Are limatic / hydrologic conditions on the site typical for this time of year? Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes x No Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes x No Is the Sampled Area within a Wetland? Yes x No Wetland Hydrology Present? Yes x No If yes, optional Wetland Site ID: WI Wetland Hydrology Present? Yes x No If yes, optional Wetland Site ID: WI Precipitation as received in the week (Aug 5-11) leading up to the field investigation. Sample point located in fallow/old field irregularly mowed by landowner. HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required: check all that apply) Surface Wolter (A1) Water-Stained Leaves (B9) Drainage Patterns (B10) Hydroge Patterns (B10) Dry-Sasson Water Table (A2) Aquatic Fanua Right (B10) Dry-Sasson Water Table (C2) Dry-Sasson Water Table (C2) Dry-Sasson Water Table (C2) Oxidized Rhizopheres on Living Roots (C3) Suturation Provos (C8) Dry-Sasson Water Table (C2) Dry-Sasson Water Table (C2) Dry-Sasson Water Table (C2) Saluration Prosposits (B3) Presence of Reduced Iron (C4) Suturation Provos (C8) Suturation Visible on Aerial Imagery (C9) Sparsely Vegetated Concave Surface (B8) Freence of Reduced Iron (C4) Scaluration Prosposite (B4) Recent fron Reduction in Tilled Soils (C6) Secure of Saluration Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inch	Investigator(s): K. Remus		Section, Tow	nship, Range: S35, T8N	N, R11E
Are climatic / hydrologic conditions on the site typical for this time of year? Are Vegetation	Landform (hillside, terrace, etc.): Terrace /	Plain Local re	elief (concave, convex	, none): None	Slope %: 1
Are climatic / hydrologic conditions on the site typical for this time of year? Are Vegetation	Subregion (LRR or MLRA): LRR K, MLRA 9	•		,	
Are Vegetation, Soil, or Hydrologysignificantly disturbed?	Soil Map Unit Name: Houghton muck			NWI classification:	
Are Vegetation, Soil, or Hydrologysignificantly disturbed? Are "Normal Circumstances" present? YesX No	Are climatic / hydrologic conditions on the site	typical for this time of year?	Yes	No X (If no, e	explain in Remarks.)
Hydrophytic Vegetation Present? Yes X No Is the Sampled Area within a Wedland? Yes X No Welland Hydrology Present? Yes X No If yes, optional Wetland Site ID: WI Remarks: (Explain alternative procedures here or in a separate report.) Based on a WETS anilysis of May-July 2021 precipitation records, climatic conditions were drier than the 30-year normal range. In August, 2.15in of precipitation was received in the week (Aug 5-11) leading up to the field investigation. Sample point located in fallow/old field irregularly mowed by landowner. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10) Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10) Saturation (A3) Mari Deposits (B15) Dpy-Season Water Table (C2) Saturation (A3) Mari Deposits (B15) Dpy-Season Water Table (C2) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) In Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (B7) In Muck Surface (C7) Shallow Aquitar (D3) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) Field Observations: Water Table Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Water arable present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): If available:			ed? Are "Norm		•
Hydrophytic Vegetation Present? Yes X No within a Wetland? Yes X No Wetland Hydrology Present? Yes X No Wetland Hydrology Indicators (August 2.15in of precipitation was received in the week (Aug 5-11) leading up to the field investigation. Sample point located in fallowold field irregularly mowed by landowner. HYDROLOGY Wetland Hydrology Indicators: Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No Wetland Hy	Are Vegetation, Soil, or Hydro	ologynaturally problemat	ic? (If needed	, explain any answers in	Remarks.)
Hydric Soil Present? Yes X No If yes, optional Wetland? Yes X No If yes, optional Wetland Site ID: W1 Remarks: (Explain alternative procedures here or in a separate report.) Based on a WETS anilysis of May-July 2021 precipitation records, climatic conditions were drier than the 30-year normal range. In August, 2.15in of precipitation was received in the week (Aug 5-11) leading up to the field investigation. Sample point located in fallow/old field irregularly mowed by landowner. HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Marl Deposits (B15) Sutrace Water (B1) Marl Deposits (B15) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Sprace Vater (A1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Sprace Vater (D4) Sprace Vater (D4) Sprace Vater (D5) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table (P2) Wetland Hydrology Present? Yes No X Depth (inches): Water Table (D2) Water Marks: Wetland Hydrology Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No Metland Hydrology Present? Yes X No Remarks:	SUMMARY OF FINDINGS – Attach	site map showing samp	oling point location	ons, transects, imp	oortant features, etc.
Hydric Soil Present? Yes X No If yes, optional Wetland? Yes X No If yes, optional Wetland Site ID: W1 Remarks: (Explain alternative procedures here or in a separate report.) Based on a WETS anilysis of May-July 2021 precipitation records, climatic conditions were drier than the 30-year normal range. In August, 2.15in of precipitation was received in the week (Aug 5-11) leading up to the field investigation. Sample point located in fallow/old field irregularly mowed by landowner. HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Marl Deposits (B15) Sutrace Water (B1) Marl Deposits (B15) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Sprace Vater (A1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Sprace Vater (D4) Sprace Vater (D4) Sprace Vater (D5) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table (P2) Wetland Hydrology Present? Yes No X Depth (inches): Water Table (D2) Water Marks: Wetland Hydrology Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No Metland Hydrology Present? Yes X No Remarks:	Hvdrophytic Vegetation Present?	Yes X No	Is the Sampled Are	ea	
Remarks: (Explain alternative procedures here or in a separate report.)			-		No
Based on a WETS anlysis of May-July 2021 precipitation records, climatic conditions were drier than the 30-year normal range. In August, 2.15in of precipitation was received in the week (Aug 5-11) leading up to the field investigation. Sample point located in fallow/old field irregularly mowed by landowner. HYDROLOGY	I -		If yes, optional Wet		
Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10) High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Inon Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) X Pact-Neutral Test (D5) Field Observations: Surface Water Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No Water Table Present? Yes		5-11) leading up to the field inve	stigation. Sample poir	nt located in fallow/old fie	eld irregularly mowed by
Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10) Moss Trim Lines (B16) Saturation (A3) Marl Deposits (B15) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: 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) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X No X Depth (inches): Saturation Present? Yes No X No X Depth (inches): Saturation Present? Yes No X No X Depth (inches): Saturation Present? Yes No X No X Depth (inches):	HYDROLOGY				
Surface Water (A1)	Wetland Hydrology Indicators:			Secondary Indicators (n	ninimum of two required)
High Water Table (A2)					
Saturation (A3)			9)		•
Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) X FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					·
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Visible on Aerial Imagery (D1) Saturation Visible on Aerial Imagery (D2) Saturation Visible Saturation (D3) Saturation Visible Saturation (D2) Saturation Visible Saturation (D3) Saturation Visible Saturation (\				· ·
Drift Deposits (B3)	` ′		· ·		·
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) X FAC-Neutral Test (D5) 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): Saturation Present? Yes No X Depth (inches): Seturation Present? Yes No X No X Depth (inches): Seturation Present? Yes No X No X Depth (inches): Seturation Present? Yes No X No X Depth (inches): Seturation Present? Yes No X No X Depth (inches): Seturation Present? Yes No X No X Depth (inches): Seturation Present? Yes No X No X Depth (inches): Seturation Present? Yes No X No X Depth (inches): Seturation Present? Yes X No X No X Depth (inches): Seturation Present? Yes X No X No X Depth (inches): Seturation Present? Yes X No X No X Depth (inches): Seturation Present? Yes X No X No X Depth (inches): Seturation Present? Yes X No X No X Depth (inches): Seturation Present? Yes X No X No X Depth (inches): Seturation Present? Yes X No X No X Depth (inches): Seturation Present? Yes X No X No X No X No X Depth (inches): Seturation Present? Yes X No X N					
Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) X_FAC-Neutral Test (D5) Sparsely Vegetated Concave Surface (B8) X_FAC-Neutral Test (D5)					· ·
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) X FAC-Neutral Test (D5)			` '		
Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:					
Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	I	· ——	s)		` '
Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	- · · · · ·	8)		X FAC-Neutral Lest (I	D5)
Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:					
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:		No X Depth (inches):	Wetland	d Hydrology Present?	Yes X No
Remarks:		20 1 University of the state of	· · · · · · · · · · · · · · · · · · ·		
	Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, previ	ious inspections), if av	ailable:	
Soil profile moist throughout, but no water table or saturation observed likely due to drier than normal conditions. Sample point approx 11t below SP2.			d 4 dui a u 41	and an aditional Communication	saint annuau 4ff balau CDO
	Soil profile moist throughout, but no water tail	ole or saturation observed likely	due to drier than norm	iai conditions. Sample p	ooint approx 11t below 5P2.

VEGETATION	 Use scientific 	names of plants.
VEGETATION	— USE SCIELLING	Hailles of Dialits.

	Absolute	Dominant	Indicator			
ree Stratum (Plot size: 30ft radius)	% Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
				Number of Dominant Species That Are OBL, FACW, or FAC:	1	(A)
				_	'	_(//)
				Total Number of Dominant Species Across All Strata:	1	(B)
				Percent of Dominant Species That Are OBL, FACW, or FAC:	100.0%	(A/E
				Prevalence Index worksheet:		_ `
		=Total Cover		Total % Cover of:	Multiply by:	
apling/Shrub Stratum (Plot size: 15ft radius)		•		OBL species 0 x 1	1 =0	
				FACW species 95 x 2	2 = 190	
				FAC species 7 x 3	3 = 21	
				FACU species 18 x 4	4 = 72	
				UPL species 0 x 5	5 = 0	
				Column Totals: 120 (A)) 283	(
				Prevalence Index = B/A =	2.36	
				Hydrophytic Vegetation Indicato	ors:	
		=Total Cover		X 1 - Rapid Test for Hydrophytic	Vegetation	
erb Stratum (Plot size: 5ft radius)		ı		X 2 - Dominance Test is >50%	· ·	
Phalaris arundinacea	80	Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹		
Cyperus esculentus	10	No	FACW	4 - Morphological Adaptations	1 (Provide sup	porti
Cerastium fontanum	10	No	FACU	data in Remarks or on a se		
Apocynum cannabinum	7	No	FAC	Problematic Hydrophytic Vege	etation¹ (Explai	n)
Ambrosia artemisiifolia	5	No	FACU	11		
Solidago gigantea	5	No	FACW	¹ Indicators of hydric soil and wetlar present, unless disturbed or proble		nust
Abutilon theophrasti	3	No	FACU	Definitions of Vegetation Strata:	:	
				Tree – Woody plants 3 in. (7.6 cm)) or more in dia	amet
				at breast height (DBH), regardless	of height.	
)				Sapling/shrub – Woody plants les		вн а
·				greater than or equal to 3.28 ft (1 r	n) tall.	
	120	=Total Cover		Herb – All herbaceous (non-woody of size, and woody plants less than		rdles
oody Vine Stratum (Plot size:30ft radius)				Woody vines – All woody vines gr	reater than 3.2	ጸ ft i
				height.	cator triair 0.2	0 10 1
				Hydrophytic Vegetation		
				Present? Yes X	No	
		=Total Cover				

SOIL Sampling Point: SP1

Depth	Matrix	.0 1.10 40		x Featur			nfirm the absence of indicators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture Remarks		
0-18	10YR 2/1	100					muck		
18-25	10YR 5/1	93	10GY 5/1	5		<u>—</u>	silty clay		
10 20	1011(0/1						only stay		
			2.5Y 5/6	2	<u>C</u>	<u>M</u>			
¹ Type: C=Co	oncentration, D=Depl	etion, RM	=Reduced Matrix, M	S=Mask	ed Sand	Grains.	² Location: PL=Pore Lining, M=Matrix.		
Hydric Soil	Indicators:						Indicators for Problematic Hydric Soils ³ :		
X Histosol			Polyvalue Belov		ce (S8) (I	LRR R,	2 cm Muck (A10) (LRR K, L, MLRA 149B)		
	pipedon (A2)		MLRA 149B)	-	<i>(</i> DD D		Coast Prairie Redox (A16) (LRR K, L, R)		
X Black Hi	stic (A3) n Sulfide (A4)		Thin Dark Surfa High Chroma S		•				
	l Layers (A5)		Loamy Mucky N			-	Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L)		
	d Below Dark Surface	e (A11)	Loamy Gleyed			, = /	Iron-Manganese Masses (F12) (LRR K, L, R)		
	ark Surface (A12)	,	Depleted Matrix		,		Piedmont Floodplain Soils (F19) (MLRA 149B)		
Sandy M	lucky Mineral (S1)		Redox Dark Su	rface (F	6)		Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
	sleyed Matrix (S4)		Depleted Dark		` '		Red Parent Material (F21)		
	ledox (S5)		Redox Depress	-	3)		Very Shallow Dark Surface (F22)		
	Matrix (S6)		Marl (F10) (LR l	RK,L)			Other (Explain in Remarks)		
Dark Su	rface (S7)								
³ Indicators of	f hydrophytic vegetati	on and w	etland hydrology mus	st be pre	esent, un	less distur	rbed or problematic.		
	Layer (if observed):				,				
Type:									
Depth (ir	nches):						Hydric Soil Present? Yes X No		
Remarks:									
NRCS Field	Indicators of Hydric S	Soils, Ver	sion 8.2, 2018 review	ved to co	onfirm pro	esence/ab	osenc of hydric soil indicators.		

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 4908 Pierceville Road		City/County: T. of Su	n Prairie / Dane County	Sampling Date: <u>8/12/2021</u>		
Applicant/Owner: Todd Justmann			State: WI	Sampling Point: SP2		
Investigator(s): K. Remus		Section, Tov	vnship, Range: S35, T8N	N, R11E		
Landform (hillside, terrace, etc.): Footslope	Local re	elief (concave, conve	x, none): none	Slope %: 1		
Subregion (LRR or MLRA): LRR K, MLRA 9			,	Datum: NAD83		
Soil Map Unit Name: Houghton muck			NWI classification:			
Are climatic / hydrologic conditions on the site	tvoical for this time of year?	Yes		explain in Remarks.)		
Are Vegetation, Soil, or Hydro			<u></u>	ent? Yes X No		
Are Vegetation, Soil, or Hydro			l, explain any answers in	Remarks.)		
SUMMARY OF FINDINGS – Attach	site map showing samp	ling point location	ons, transects, imp	oortant features, etc.		
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled Ar	ea			
Hydric Soil Present?	Yes X No	within a Wetland?		No X		
Wetland Hydrology Present?	Yes No X	If yes, optional Wet				
precipitation was received in the week (Aug 5	Based on a WETS anlysis of May-July 2021 precipitation records, climatic conditions were drier than the 30-year normal range. In August, 2.15in of precipitation was received in the week (Aug 5-11) leading up to the field investigation. Sample point located in fallow/old field irregularly mowed by landowner. Hydric soil indicators observed, but overall lack of hydrophytic vegetation and wetland hydrology indicators.					
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicators (n	ninimum of two required)		
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Cracks	s (B6)		
Surface Water (A1)	Water-Stained Leaves (B					
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)				
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)				
——Water Marks (B1)	Hydrogen Sulfide Odor (C	•	Crayfish Burrows (0	•		
Sediment Deposits (B2)	Oxidized Rhizospheres or	• , ,		n Aerial Imagery (C9)		
Drift Deposits (B3)	Presence of Reduced Iron		Stunted or Stressed	` '		
Algal Mat or Crust (B4)	Recent Iron Reduction in	` '	Geomorphic Position			
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D			
Inundation Visible on Aerial Imagery (B7)		s)	Microtopographic R	, ,		
Sparsely Vegetated Concave Surface (Bi	β)		FAC-Neutral Test (I	D5)		
Field Observations:						
Surface Water Present? Yes	No X Depth (inches):					
Water Table Present? Yes	No X Depth (inches):					
Saturation Present? Yes	No X Depth (inches):	Wetland	d Hydrology Present?	Yes No _X		
(includes capillary fringe)						
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previ	ious inspections), if a	/ailable:			
Remarks:						
Sample point located upslope, approx 1ft high	ner than SP1.					

VEGETATION – Use scientific names of plants. Sampling Point: SP2 Absolute Dominant Indicator **Dominance Test worksheet:** <u>Tree Stratum</u> (Plot size: 30ft radius) % Cover Species? Status 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 6. 50.0% (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: Multiply by: Sapling/Shrub Stratum (Plot size: 15ft radius) OBL species 0 x 1 = 0 **FACW** species 60 120 1. x 2 = 13 2. FAC species x 3 = 3. FACU species x 4 = 5 4. UPL species x 5 = 380 Column Totals: 127 2.99 Prevalence Index = B/A = **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)

٥.				
6.				
7.				
		=	Total Cover	
<u>Her</u>	<u>b Stratum</u> (Plot size: <u>5ft radius</u>)			
1.	Phalaris arundinacea	55	Yes	FACW
2.	Trifolium pratense	30	Yes	FACU
3.	Apocynum cannabinum	10	No	FAC
4.	Plantago major	10	No	FACU
5.	Cyperus esculentus	5	No	FACW
6.	Daucus carota	5	No	UPL
7.	Setaria faberi	5	No	FACU
8.	Ambrosia trifida	3	No	FAC
9.	Erigeron strigosus	2	No	FACU
10.	Lotus corniculatus	2	No	FACU
11.				
12.				
		127 =	Total Cover	
Wo	ody Vine Stratum (Plot size: 30ft radius)			
1.				
2.				
3.				

¹Indicators of hydric soil and wetland hydrology must

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

Definitions of Vegetation Strata:

 $\label{eq:Tree-Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.}$

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

 $\label{eq:herb-all} \textbf{Herb} - \text{All herbaceous (non-woody) plants, regardless} \\ \text{of size, and woody plants less than 3.28 ft tall.}$

 $\label{eq:woody vines} \textbf{Woody vines} - \textbf{All woody vines greater than 3.28 ft in height.}$

Hydrophytic			
Vegetation			
Present?	Yes	No	Χ

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

Noted shift in vegetation between wetland and upland - much more red clover, Queen Anne's-lace in upland areas.

=Total Cover

SOIL Sampling Point: SP2

Profile Desc Depth	ription: (Describe to Matrix	o the de	-	ment th x Featur		tor or con	nfirm the absence of indicators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture Remarks		
0-6	10YR 2/1	100					clay loam		
6-12	10YR 2/1	100					silty clay loam		
12-21	10YR 5/1	85	10GY 5/1	10		M	silty clay		
12-21	1011(3/1						Sity day		
			2.5Y 5/6	5	<u>C</u>	<u>M</u>			
		etion, RM	1=Reduced Matrix, MS	3=Mask	ed Sand	Grains.	² Location: PL=Pore Lining, M=Matrix.		
Hydric Soil Indicators:						DD D	Indicators for Problematic Hydric Soils ³ :		
Histosol (A1) — Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B)					LKK K,	2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)			
Black His			Thin Dark Surfa		(LRR R	, MLRA 14			
Hydroge	n Sulfide (A4)		High Chroma S	ands (S	11) (LR F	R K, L)	Polyvalue Below Surface (S8) (LRR K, L)		
	Layers (A5)		Loamy Mucky N	∕lineral (F1) (LR	R K, L)	Thin Dark Surface (S9) (LRR K, L)		
	l Below Dark Surface	(A11)	Loamy Gleyed I		=2)		Iron-Manganese Masses (F12) (LRR K, L, R)		
	rk Surface (A12)		Depleted Matrix		0)		Piedmont Floodplain Soils (F19) (MLRA 149B)		
	ucky Mineral (S1)		Redox Dark Su	-	-		Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
	leyed Matrix (S4) edox (S5)		Depleted Dark S Redox Depress				Red Parent Material (F21) Very Shallow Dark Surface (F22)		
	Matrix (S6)		Marl (F10) (LRF)		Other (Explain in Remarks)		
	face (S7)			, _ /					
_	,								
		on and w	etland hydrology mus	t be pre	sent, un	less distur	bed or problematic.		
Type:	ayer (if observed):								
Depth (ir	nches).						Hydric Soil Present? Yes X No		
Remarks:							Tryuno con riesent: Tes X No		
	Indicators of Hydric S	Soils, Ver	sion 8.2, 2018 review	ed to co	onfirm pro	esence/ab	sence of hydric soil indicators.		

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 4908 Pierceville Road	City/Count	y: T. of Sun Prairie / Dane County	Sampling Date: <u>8/12/2021</u>					
Applicant/Owner: Todd Justmann		State: WI	Sampling Point: SP3					
Investigator(s): K. Remus	S	ection, Township, Range: S35, T8N	N, R11E					
Landform (hillside, terrace, etc.): Footslope	Local relief (conca	ave, convex, none): none	Slope %: 1					
Subregion (LRR or MLRA): LRR K, MLRA 95B Lat:		Long:	Datum: NAD83					
Soil Map Unit Name: Sable silty clay loam		NWI classification:						
Are climatic / hydrologic conditions on the site typical for	this time of year?		explain in Remarks.)					
Are Vegetation, Soil, or Hydrology	-	Are "Normal Circumstances" prese						
Are Vegetation, Soil, or Hydrology	_	(If needed, explain any answers in	Remarks.)					
SUMMARY OF FINDINGS – Attach site map	showing sampling poir	nt locations, transects, imp	oortant features, etc.					
Hydrophytic Vegetation Present? Yes	No X Is the Sa	ampled Area						
Hydric Soil Present? Yes X		Wetland? Yes	No X					
Wetland Hydrology Present? Yes	-	otional Wetland Site ID:						
Based on a WETS anlysis of May-July 2021 precipitation records, climatic conditions were drier than the 30-year normal range. In August, 2.15in of precipitation was received in the week (Aug 5-11) leading up to the field investigation. Sample point located in fallow/old field irregularly mowed by landowner. Hydric soil indicators observed, but overall lack of hydrophytic vegetation and wetland hydrology indicators.								
HYDROLOGY								
Wetland Hydrology Indicators:		Secondary Indicators (n	ninimum of two required)					
Primary Indicators (minimum of one is required; check a	all that apply)	Surface Soil Cracks	s (B6)					
Surface Water (A1) Wate	er-Stained Leaves (B9)	(B9) Drainage Patterns (B10)						
High Water Table (A2)	atic Fauna (B13)	Moss Trim Lines (B16)						
Saturation (A3) Marl	Deposits (B15)	Dry-Season Water Table (C2)						
 -	ogen Sulfide Odor (C1)							
Sediment Deposits (B2) Oxid	ized Rhizospheres on Living Ro	ed Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)						
	ence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)					
1 	ent Iron Reduction in Tilled Soils	• • •						
	Muck Surface (C7)	, · · · · · · · · · · · · · · · · · · ·						
Inundation Visible on Aerial Imagery (B7) Othe	r (Explain in Remarks)							
Sparsely Vegetated Concave Surface (B8)		FAC-Neutral Test (I	D5)					
Field Observations:								
Surface Water Present? Yes No X								
Water Table Present? Yes No _X								
Saturation Present? Yes No X	Depth (inches):	Wetland Hydrology Present?	Yes No _X					
(includes capillary fringe)								
Describe Recorded Data (stream gauge, monitoring wel	ll, aerial photos, previous inspec	tions), if available:						
Remarks:								
Sample point located upslope, approx 2ft higher than SF	P1.							

VEGETATION – Use scientific names of plants.	Sampling Point:	SP3
1 = 0 = 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		٠. ٠

Tree Stratum (Plot size: 30ft radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1 2				Number of Dominant Species That Are OBL, FACW, or FAC:(A)
3. 4.				Total Number of Dominant Species Across All Strata:3(B)
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15ft radius)				OBL species 0 x 1 = 0
1				FACW species 20 x 2 = 40
2.				FAC species 10 x 3 = 30
3.				FACU species 80 x 4 = 320
4.				UPL species15 x 5 =75
5.				Column Totals: 125 (A) 465 (B)
6.				Prevalence Index = B/A = 3.72
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5ft radius)		,		2 - Dominance Test is >50%
1. Trifolium pratense	35	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹
Phalaris arundinacea	20	Yes	FACW	4 - Morphological Adaptations ¹ (Provide supporting
3. Plantago major	20	Yes	FACU	data in Remarks or on a separate sheet)
4. Daucus carota	10	No	UPL	Problematic Hydrophytic Vegetation ¹ (Explain)
5. Medicago lupulina	10	No	FACU	
6. Setaria faberi	10	No	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7. Ambrosia trifida	5	No No	FAC	Definitions of Vegetation Strata:
- 	5			Definitions of Vegetation Strata.
		No No	FAC	Tree – Woody plants 3 in. (7.6 cm) or more in diameter
9. Cirsium discolor	5	No No	UPL	at breast height (DBH), regardless of height.
10. Lotus corniculatus	5	No No	FACU	Sapling/shrub – Woody plants less than 3 in. DBH and
11				greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	125	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30ft radius)				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				Hydrophytic
3				Hydrophytic Vegetation
4.				Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a separa Noted shift in vegetation between wetland and upland	,	e red clover, Qu	een Anne's-la	ace in upland areas.

SOIL Sampling Point: SP3

Profile Desc	ription: (Describe to	o the de	oth needed to docu	ment th	e indicat	or or cor	nfirm the absence of in	ndicators.)	
Depth	Matrix			x Featur					
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks	
0-5	10YR 2/1	60						clay loam	
	10YR 2/2	40						clay loam	
5-12	10YR 3/1	95	10YR 3/4	5	С	<u>M</u>		silty clay loam	
12-20	10YR 4/1	95	10YR 4/4	5	C	<u>M</u>		silty clay	
¹ Type: C=Co	oncentration, D=Deple	etion, RM	=Reduced Matrix, M	S=Mask	ed Sand	Grains.		=Pore Lining, M=Matrix.	
Hydric Soil I	ndicators:						Indicators for Problematic Hydric Soils ³ :		
Histosol			Polyvalue Belo		ce (S8) (L	.RR R,		k (A10) (LRR K, L, MLRA 149B)	
	ipedon (A2)		MLRA 149B	,				irie Redox (A16) (LRR K, L, R)	
Black His			Thin Dark Surfa				· —	ky Peat or Peat (S3) (LRR K, L, R)	
	n Sulfide (A4)		High Chroma S			-		Below Surface (S8) (LRR K, L)	
	Layers (A5)	(* ()	Loamy Mucky I			(K, L)	Thin Dark Surface (S9) (LRR K, L)		
	Below Dark Surface	(A11)	Loamy Gleyed		F2)		Iron-Manganese Masses (F12) (LRR K, L, R)		
	ark Surface (A12)		Depleted Matrix		(0)			Floodplain Soils (F19) (MLRA 149B)	
	lucky Mineral (S1)		X Redox Dark Su		•		Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21)		
	leyed Matrix (S4)		Depleted Dark		` '			, ,	
	edox (S5) Matrix (S6)		Redox Depress Marl (F10) (LR		o)		Very Shallow Dark Surface (F22) Other (Explain in Remarks)		
	face (S7)		Wall (1 10) (ER	IX IX, ∟)			Other (EX	Stall III Nelliaiks)	
Daik Sui	lace (37)								
	hydrophytic vegetation	on and w	etland hydrology mus	st be pre	esent, unl	ess distur	bed or problematic.		
Type:	_ayer (if observed):								
Depth (ir	nches):						Hydric Soil Present	? Yes X No	
Remarks:								<u> </u>	
NRCS Field	Indicators of Hydric S	Soils, Ver	sion 8.2, 2018 review	ved to co	onfirm pre	esence/ab	sence of hydric soil indi	cators.	

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 4908 Pierceville Road	City/County: T. of Sun Prairie / Dane County Sampling Date: 8/12/2021							
Applicant/Owner: Todd Justmann	State: WI Sampling Point: SP4							
Investigator(s): K. Remus	Section, Township, Range: S35, T8N, R11E							
Landform (hillside, terrace, etc.): Terrace / Plain Loc	ocal relief (concave, convex, none): none Slope %: 1							
Subregion (LRR or MLRA): LRR K, MLRA 95B Lat:	Long: Datum: NAD83							
Soil Map Unit Name: Houghton muck	NWI classification: WWI: E1Kg							
Are climatic / hydrologic conditions on the site typical for this time of year?	? Yes No X (If no, explain in Remarks.)							
Are Vegetation, Soil, or Hydrology significantly dis								
Are Vegetation, Soil, or Hydrology naturally proble	ematic? (If needed, explain any answers in Remarks.)							
SUMMARY OF FINDINGS – Attach site map showing sa	ampling point locations, transects, important features, etc.							
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area							
Hydric Soil Present? Yes X No	within a Wetland? Yes X No							
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: W1							
Based on a WETS anlysis of May-July 2021 precipitation records, climatic conditions were drier than the 30-year normal range. In August, 2.15in of precipitation was received in the week (Aug 5-11) leading up to the field investigation. Sample point located in fallow/old field irregularly mowed by landowner.								
HYDROLOGY								
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)							
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)							
Surface Water (A1) Water-Stained Leave								
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)							
X Saturation (A3) — Marl Deposits (B15)								
	gen Sulfide Odor (C1) Crayfish Burrows (C8)							
	es on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)							
	ce of Reduced Iron (C4) Stunted or Stressed Plants (D1)							
Algal Mat or Crust (B4) Recent Iron Reductio	· , · · · · · · · · · · · · · · · · ·							
Iron Deposits (B5) Thin Muck Surface (C	· · · · · · · · · · · · · · · · · · ·							
Inundation Visible on Aerial Imagery (B7) Other (Explain in Ren								
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)							
Field Observations:								
Surface Water Present? Yes No X Depth (inch								
Water Table Present? Yes X No Depth (inches								
Saturation Present? Yes X No Depth (inch	les): 11 Wetland Hydrology Present? Yes X No							
(includes capillary fringe)								
Describe Recorded Data (stream gauge, monitoring well, aerial photos,	previous inspections), if available:							
Remarks:								
Soil profile moist throughout, water table rose in soil pit left open.								

SP4

Tree Stratum (Plot size: 30ft radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:				
1				Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)				
3.				Total Number of Dominant				
4.				Species Across All Strata: 1 (B)				
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)				
7				Prevalence Index worksheet:				
		=Total Cover		Total % Cover of: Multiply by:				
Sapling/Shrub Stratum (Plot size: 15ft radius)				OBL species 0 x 1 = 0				
1				FACW species 95 x 2 = 190				
2				FAC species 20 x 3 = 60				
3				FACU species 0 x 4 = 0				
4.				UPL species0 x 5 =0				
5				Column Totals: 115 (A) 250 (B)				
6.				Prevalence Index = B/A = 2.17				
7.				Hydrophytic Vegetation Indicators:				
		=Total Cover		X 1 - Rapid Test for Hydrophytic Vegetation				
Herb Stratum (Plot size: 5ft radius)				X 2 - Dominance Test is >50%				
1. Phalaris arundinacea	95	Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹				
Persicaria maculosa	10	No	FAC	4 - Morphological Adaptations ¹ (Provide supporting				
3. Rumex crispus	7	No	FAC	data in Remarks or on a separate sheet)				
4. Ambrosia trifida	3	No	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)				
5.				1				
6.				¹ Indicators of hydric soil and wetland hydrology must b present, unless disturbed or problematic.				
7.				Definitions of Vegetation Strata:				
8.								
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diamete at breast height (DBH), regardless of height.				
10.								
11.				Sapling/shrub – Woody plants less than 3 in. DBH an greater than or equal to 3.28 ft (1 m) tall.				
12				Herb – All herbaceous (non-woody) plants, regardless				
	115	=Total Cover		of size, and woody plants less than 3.28 ft tall.				
Woody Vine Stratum (Plot size: 30ft radius) 1.				Woody vines – All woody vines greater than 3.28 ft in height.				
2				Hydrophytic				
4.				Vegetation Present? Yes X No				
··		=Total Cover		1105 <u>X</u> No				
Remarks: (Include photo numbers here or on a separa	ato shoot)	Total Gover						
Tremarks. (Include prioto numbers here of on a separa	ate sneet.)							

SOIL Sampling Point: SP4

Depth	Matrix	the de		ment tn x Featur		or or com	firm the absence of indic	ators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-29	10YR 2/1	100						muck		
¹ Type: C=Co	oncentration, D=Deple	tion, RM	l=Reduced Matrix, M	S=Mask	ed Sand	Grains.	² Location: PL=Po	ore Lining, M=Matrix.		
Hydric Soil I	ndicators:						Indicators for Pr	oblematic Hydric Soils ³ :		
X Histosol			Polyvalue Belor		ce (S8) (L	RR R,		A10) (LRR K, L, MLRA 149B)		
	ipedon (A2)		MLRA 149B				Coast Prairie Redox (A16) (LRR K, L, R)			
X Black His			Thin Dark Surfa							
	n Sulfide (A4) Layers (A5)		High Chroma S Loamy Mucky N			-	Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L)			
	Below Dark Surface	(A11)	Loamy Gleyed			κ ι κ, ι	Iron-Manganese Masses (F12) (LRR K, L, R)			
	rk Surface (A12)	(/ (1)	Depleted Matrix		<i>-</i>)		Piedmont Floodplain Soils (F19) (MLRA 149B)			
	ucky Mineral (S1)		Redox Dark Su		6)			(TA6) (MLRA 144A, 145, 149B)		
Sandy G	leyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Parent M			
Sandy R	edox (S5)		Redox Depress	sions (F8	3)		Very Shallow Dark Surface (F22)			
Stripped	Matrix (S6)		Marl (F10) (LR	R K, L)			Other (Explai	n in Remarks)		
Dark Sur	face (S7)									
a										
	hydrophytic vegetatio	n and w	etland hydrology mus	st be pre	esent, unl	ess disturb	oed or problematic.			
Type:	ayer (if observed):									
							Undria Cail Brasanta	Vaa V Na		
Depth (ir	icnes).						Hydric Soil Present?	Yes X No		
Remarks:	Indicators of Hydric C	oilo Vor	oion 9.2. 2019 roviou	and to on	onfirm nr	oonoo/oho	ones of budris soil indicat	oro		
NRC3 FIEIU	indicators of Hydric S	olis, ver	Sion 6.2, 2016 review	rea to cc	miim pre	esence/abs	sence of hydric soil indicat	ors.		

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 4908 Pierceville Road	City/County: T. of Sun Prairie / Dane County Sampling Date: 8/12/2021							
Applicant/Owner: Todd Justmann	State: WI Sampling Point: SP5							
Investigator(s): K. Remus	Section, Township, Range: S35, T8N, R11E							
Landform (hillside, terrace, etc.): Footslope Local	relief (concave, convex, none): none Slope %: 1							
Subregion (LRR or MLRA): LRR K, MLRA 95B Lat:	Long: Datum: NAD83							
Soil Map Unit Name: Houghton muck	NWI classification: WWI: E1Kg							
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes No _ X _ (If no, explain in Remarks.)							
Are Vegetation, SoilX_, or Hydrology significantly disturl								
Are Vegetation, Soil, or Hydrology naturally problems	atic? (If needed, explain any answers in Remarks.)							
SUMMARY OF FINDINGS – Attach site map showing same	pling point locations, transects, important features, etc.							
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area							
Hydric Soil Present? Yes No X	within a Wetland? Yes No X							
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:							
precipitation was received in the week (Aug 5-11) leading up to the field investigation. Sample point located in fallow/old field irregularly mowed by landowner at edge of fill area.								
HYDROLOGY Western Hydrology Indicators:	Connedow Indicators (minimum of two required)							
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)							
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)							
Surface Water (A1) — Water-Stained Leaves (I High Water Table (A2) — Aquatic Fauna (B13)	B9) Drainage Patterns (B10) Moss Trim Lines (B16)							
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)							
Water Marks (B1) Water Marks (B1) Hydrogen Sulfide Odor (_							
Sediment Deposits (B2) Oxidized Rhizospheres of								
Drift Deposits (B3) Presence of Reduced Inc.	· · · · · · · · · · · · · · · · · · ·							
Algal Mat or Crust (B4) Recent Iron Reduction in								
Iron Deposits (B5) Thin Muck Surface (C7)	. , , ,							
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	. , ,							
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)							
Field Observations:								
Surface Water Present? Yes No X Depth (inches)								
Water Table Present? Yes No X Depth (inches):								
Saturation Present? Yes No X Depth (inches)								
(includes capillary fringe)								
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:							
Remarks:	1							

Tree Stratum (Plot size: 30ft radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. 2.				Number of Dominant Species That Are OBL, FACW, or FAC:(A)			
3. 4.				Total Number of Dominant Species Across All Strata:3(B)			
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)			
7.				Prevalence Index worksheet:			
		=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size: 15ft radius)				OBL species 0 x 1 = 0			
1				FACW species 10 x 2 = 20			
2.				FAC species 40 x 3 = 120			
3.				FACU species 47 x 4 = 188			
4.				UPL species 20 x 5 = 100			
5.				Column Totals: 117 (A) 428 (B)			
6.				Prevalence Index = B/A = 3.66			
7.				Hydrophytic Vegetation Indicators:			
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5ft radius)				2 - Dominance Test is >50%			
1. Daucus carota	20	Yes	UPL	3 - Prevalence Index is ≤3.0 ¹			
2. Echinochloa crus-galli	20	Yes	FAC	4 - Morphological Adaptations (Provide supporting			
3. Setaria faberi	20	Yes	FACU	data in Remarks or on a separate sheet)			
4. Trifolium pratense	15	No	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)			
5. Ambrosia trifida	10	No	FAC	1			
6. Lactuca serriola	10	No	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
7. Phalaris arundinacea	10	No	FACW	Definitions of Vegetation Strata:			
8. Persicaria maculosa	5	No	FAC	Tree Weeds plants 2 in (7.0 cm) on many in dispusses			
9. Rumex crispus	5	No	FAC	Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.			
10. Abutilon theophrasti	2	No	FACU	Canling lake who Weeds plants less than 2 in DRII and			
11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.			
12				Herb – All herbaceous (non-woody) plants, regardless			
	117	=Total Cover		of size, and woody plants less than 3.28 ft tall.			
Woody Vine Stratum (Plot size: 30ft radius) 1.				Woody vines – All woody vines greater than 3.28 ft in height.			
2.							
3.				Hydrophytic			
4.				Vegetation Present? Yes No X			
		=Total Cover					
Remarks: (Include photo numbers here or on a separa	ate sheet)			1			
Tromanto. (molado prioto mambero nere el en a separe	ito onoci.,						

SOIL Sampling Point: SP5

Profile Desc Depth	cription: (Describe t Matrix	o the de	-	ment th x Featur		tor or cor	firm the absence of indica	itors.)			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks			
0-5	10YR 3/1	90						clay loam			
	10YR 5/4	10						sandy clay loa	am		
5-20	10YR 3/1	80						silty clay loar	m		
	10YR 5/3	10						clay loam			
		10						fine to coarse g	ravel		
20-26	10YR 2/1	100						silt loam			
1											
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :											
Histosol			Polyvalue Belov	w Surfac	ce (S8) (L	RR R,	2 cm Muck (A10) (LRR K, L, MLRA 149B)				
Histic Ep	pipedon (A2)		MLRA 149B))			Coast Prairie Redox (A16) (LRR K, L, R)				
Black Hi			Thin Dark Surfa								
	n Sulfide (A4)		High Chroma S			-	Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L)				
	l Layers (A5) d Below Dark Surface	(Δ11)	Loamy Mucky N Loamy Gleyed			K K, L)	Iron-Manganese Masses (F12) (LRR K, L, R)				
	ark Surface (A12)	(7,11)	Depleted Matrix		۷)		Piedmont Floodplain Soils (F19) (MLRA 149B)				
	lucky Mineral (S1)		Redox Dark Su		6)		Mesic Spodic (TA6) (MLRA 144A, 145, 149B)				
	Sleyed Matrix (S4)		Depleted Dark	-	-		Red Parent Material (F21)				
Sandy R	edox (S5)		Redox Depress	sions (F8	3)		Very Shallow Dark Surface (F22)				
Stripped	Matrix (S6)		Marl (F10) (LR l	R K, L)			Other (Explain in Remarks)				
Dark Su	rface (S7)										
³ Indicators o	f hydrophytic vegetati	on and w	vetland hydrology mus	st be pre	sent, unl	ess distur	bed or problematic.				
	Layer (if observed):		, 0,	•			·				
Type:											
Depth (in	nches):						Hydric Soil Present?	Yes	No _ >	<u> </u>	
Remarks: NRCS Field	Indicators of Hydric S	Soils, Vei	rsion 8.2, 2018 review	ved to co	onfirm pre	esence/ab	senc of hydric soil indicators	i.			
Entire profile	unconsilidated/cruml	bly. Mixe	ed fill materials in first	and sec	ond horiz	zon.					

4908 Pierceville Road Site Photographs August 26, 2021

Appendix E SITE PHOTOGRAPHS



Photo 1. Wetland sample point SP1; view east



Photo 2. Wetland sample point SP1; view west



Photo 3. Upland sample point SP2; view east



Photo 4. Upland sample point SP2; view west

Photos taken August 12, 2021

Assured Wetland Delineation Report Town of Sun Prairie, Dane County, Wisconsin Stantec Project #: 193708475



Photo 5. Upland sample point SP3; view east



Photo 6. Upland sample point SP3; view west



Photo 7. Wetland sample point SP4; view east



Photo 8. Wetland sample point SP4; view west



Photo 9. Upland sample point SP5; view east



Photo 10. Upland sample point SP5; view west



Photo 11. View east from near east edge of gravel pad towards wetland W1



Photo 12. View north from near east edge of gravel pad



Photo 13. View south from near east edge of gravel pad



Photo 14. View west from near east edge of gravel pad; access path through woodland visible in background.



Photo 15. View east from access path entrance at east edge of woodland



Photo 16. View northeast from access path entrance at east edge of woodland

Assured Wetland Delineation Report Town of Sun Prairie, Dane County, Wisconsin Stantec Project #: 193708475



Photo 17. View southeast from access path entrance at east edge of woodland



Photo 18. View west at access path through woodland