

May 10, 2021

WETLAND DELINEATION REPORT

Veterans Park Campground Sec 17, T 35 North, R 13 East

Prepared for: Mr. Travis Wollenberg County Forest Administrator Forest County 200 East Madison Street Crandon, WI 54520

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1.0 Introduction

Coleman Engineering Company (CEC) completed a wetland delineation on May 4, 2021 at the request of Forest County on a 16.8-acre subject property at Veterans Park Campground, Forest County, Wisconsin (Project Area). Figure 1 in Appendix A details the project location. The purpose of the delineation was to determine site conditions and as a means to limit or avoid impact to wetlands for future re-development. Until recently, the Project Area served as a functioning campground. The aerial imagery in Figures 2 and 3 in Appendix A display the locations of the site features, buildings, parking lot, and road that were installed as early as the 1970s.

Prior to any earthwork, nine soil borings were drilled across the site in November 2020. A boring map and soil logs are included in Appendix E. In December 2020, approximately 30% of the Project Area, mainly the interior campsites, were scraped of existing top soil to expose the historic fill material used to create the campground substrate and confirmed the lack of hydric wetland soil. Fill material was also deposited along the road for future use. Photos of this earthwork, taken on March 31, 2021, are included in Appendix C. The delineation on May 4, 2021 was completed around all existing structures and materials.

The delineation was completed by Molly Gardner, an Environmental Specialist who has been with CEC for more than four years. She has completed 16 Continuing Education Units in Wetland Delineation, along with a B.S. in Geoscience and a Certificate in GIS.

2.0 Desktop Review

2.1 Site Conditions

The topography of the Project Area slopes gradually from the Lake Metonga embankment at the northern Project Area boundary to the south and out of the Project Area. There are small pockets of lower elevation scattered throughout the Project Area. Overall, the elevation change is approximately 4 feet from north to south. Additionally, two culverts in the southwest quadrant of the Project Area aid in moving excess water off the site and into a larger wetland complex to the south. The topographic data was collected by the CEC survey department in October 2020. Contour lines and culvert locations are included on Figures 2 and 3 in Appendix A.

Long-term weather information is recorded by the National Weather Service to calculate the current climatic conditions. The nearest station with compiled historic data is in Rhinelander, Wisconsin which is approximately 30 miles west of the Project Area. Table 1 in Appendix B shows the average May temperature in Rhinelander over the past 50 years was 53.9 degrees Fahrenheit with an annual average of 3.52 inches of precipitation.

Table 2 in Appendix B is the Natural Resource Conservation Service (NRCS) Rainfall Documentation Worksheet which compares long-term rainfall statistics from the Rhinelander weather station data to current precipitation data. The prior 3 month period from February through April was calculated to have 'wetter than normal' conditions. The estimated growing season dates, where the temperature would be warm enough to support wetland vegetation,



are calculated to be May 3 to October 11, 2021. Therefore, CEC performed this delineation approximately 1 day into the growing season.

2.2 Wisconsin Wetland Inventory

The Wisconsin Wetland Inventory (WWI) is a compilation of predicted and confirmed wetlands compiled by the Wisconsin Department of Natural Resources (WDNR). These wetland maps can be useful for general, large scale interpretation; however, the actual location and size of wetlands must be determined by field visits.

The WWI descriptions of the wetland types found in the Project Area are classified consistent with the Cowardin Classification of Wetlands and Deepwater Habitats of the United States, 1979. Figure 2 in Appendix A shows a large, WWI mapped, mixed forest wetland across the entire southern boundary of the Project Area and continuing south to and across East Lakeview Street.

2.3 Mapped Soils

The NRCS database classifies and defines soil associations nationwide based upon geology, landform, relief, climate, and natural vegetation of the area. Figure 2 in Appendix A displays the main four soil complexes within the Project Area.

NRCS Soil Classes across the Project Area from west to east and north to south:

- PsB Pence Vilas complex, 0 to 6 percent slopes
- PsC Pence Vilas complex, 6 to 15 percent slopes
- WhA Whisklake silt loam, 0 to 3 percent slopes
- Lu Lupton and Cathro soils, 0 to 1 percent slopes

3.0 Methods

Methodology used to identify and delineate wetland boundaries in the Project Area was done in accordance with the U.S. Army Corps of Engineers (USACE) Delineation Manual, Northcentral and Northeast Region 2012 (Version 2.0). First, historic photos were reviewed for signatures, the entire parcel was visually surveyed, and prior soil borings were examined for the initial wetland determination. Areas that exhibited a dominance of wetland hydrology, wetland vegetation, and wetland soils were identified and the wetland boundaries were estimated.

To determine if an area met the wetland criteria, a wetland determination plot within the wetland was selected and an upland determination plot was selected in a nearby upland area. Within each of the plots, data was gathered and recorded on the USACE Automated Wetland Determination Data Form (Northcentral/Northeast Region Version 2.0) describing the hydrology, vegetation, and soil. If all three of these characteristics contained appropriate wetland indicators, the estimated boundary line was supported. Appendix C includes the data sheet sets for the determination plots completed in the Project Area. The locations of the plots were surveyed in the field are displayed on the wetland delineation map in Appendix A.



4.0 Results

4.1 Site Observations

The Project Area is bordered by County Park Road to the west, Lake Metonga to the north, a chain link fence to the east, and a coniferous swamp to the south. Due to the proximity to Lake Metonga, the Project Area has a highwater table within 1-4 feet of the soil surface. This hydrologic influence has likely aided in the presence of lacustrine soil horizons that were observed at depth in the 10-foot soil borings. Historic construction activity and property maintenance has altered the natural layering of the soil and the vegetative communities, as well.

Site preparation and construction activities have the potential to introduce and exasperate the existence of invasive and exotic species. Although the sample plots in the Project Area were primarily native species, construction activities may introduce and exasperate any non-native plants observed near the Project Area, along with invasive species. If located, measures may be taken by the property owner to limit the spread. Threatened or endangered species were not encountered, but may exist, in the Project Area.

4.2 Wetlands

The Project Area contained two wetlands. Wetland A is pocket wetland in a slight depression located in the northwest quadrant of the Project Area and is located on the Wetland Map in Appendix A. Wetland A was determined to be a persistent, emergent wetland classified by the Wetlands and Deepwater Habitats Classification system as PEM1. It was first identified by a slightly wet signature on aerial imagery and wetland soil on nearby boring log B-3 that met the hydric indicator S3. The vegetation in Wetland A has been categorized as significantly disturbed since its alteration to maintained lawn. The soils examined in Wetland A were comprised of a sandy topsoil underlain by mucky peat. Data Sheets detailing this information are located in Appendix C.

Wetland B is a larger wetland complex located across the southern boundary and along the eastern chain link fence just east of the Project Area. Wetland B is a hummocky northern white cedar and balsam fir dominated wetland. The topography continues to gradually grade downward off site to the south to East Lakeview Street. The soils in Wetland B were observed to be unaltered by historic construction activities. They were very wet and comprised of muck which is typical of the Lupton and Cathro soil series. The culverts in the southwest quadrant of the Project Area aid in concentrating the runoff from the parking lot on the western portion of the site to the southwest of the Project Area.

4.3 Jurisdiction

The wetlands identified for this report may be subject to Federal regulation under the jurisdiction of the USACE, State regulation under the jurisdiction of the WDNR, and local jurisdiction under the local County, Town, City, or Village. Be advised that any future site activities or construction may require the acquisition of wetland permits for any unavoidable disturbances or impacts.



The information contained herein represents the findings of CEC during wetland evaluation activities conducted on May 4, 2021 at the referenced site.

Respectfully, COLEMAN ENGINEERING COMPANY

Molly C. Gardner

5/10/2021

Date

Molly C. Gardner Environmental Specialist Wetland Project Manager

Enclosures

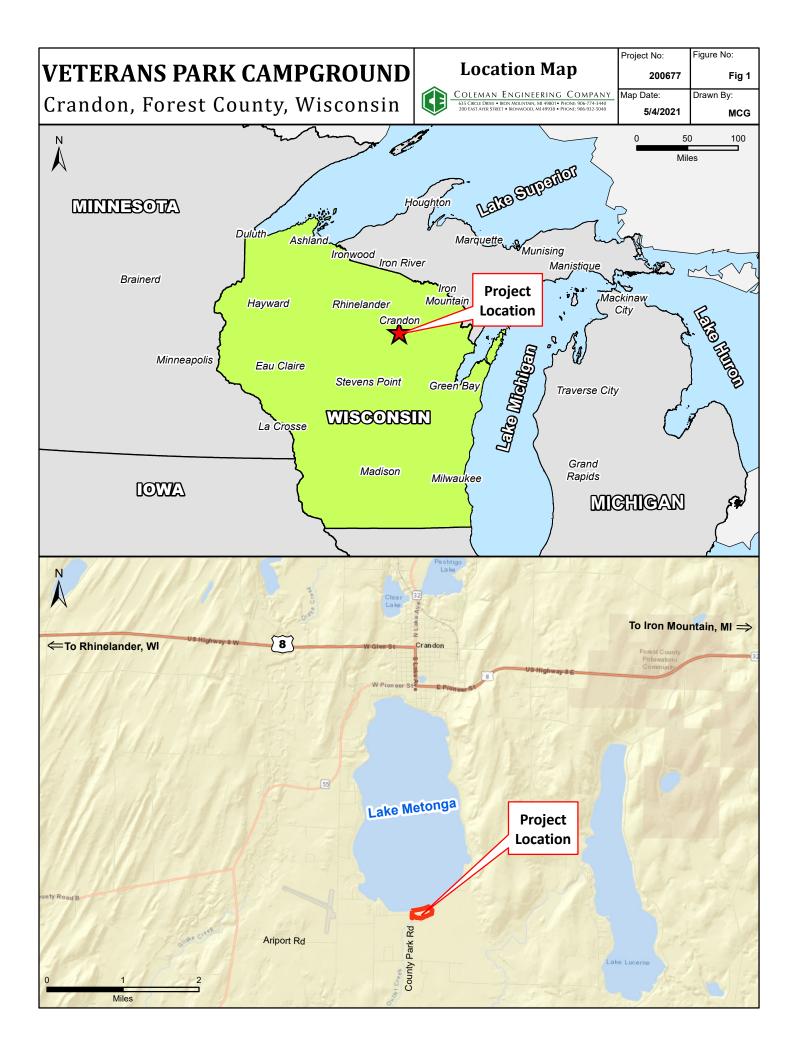


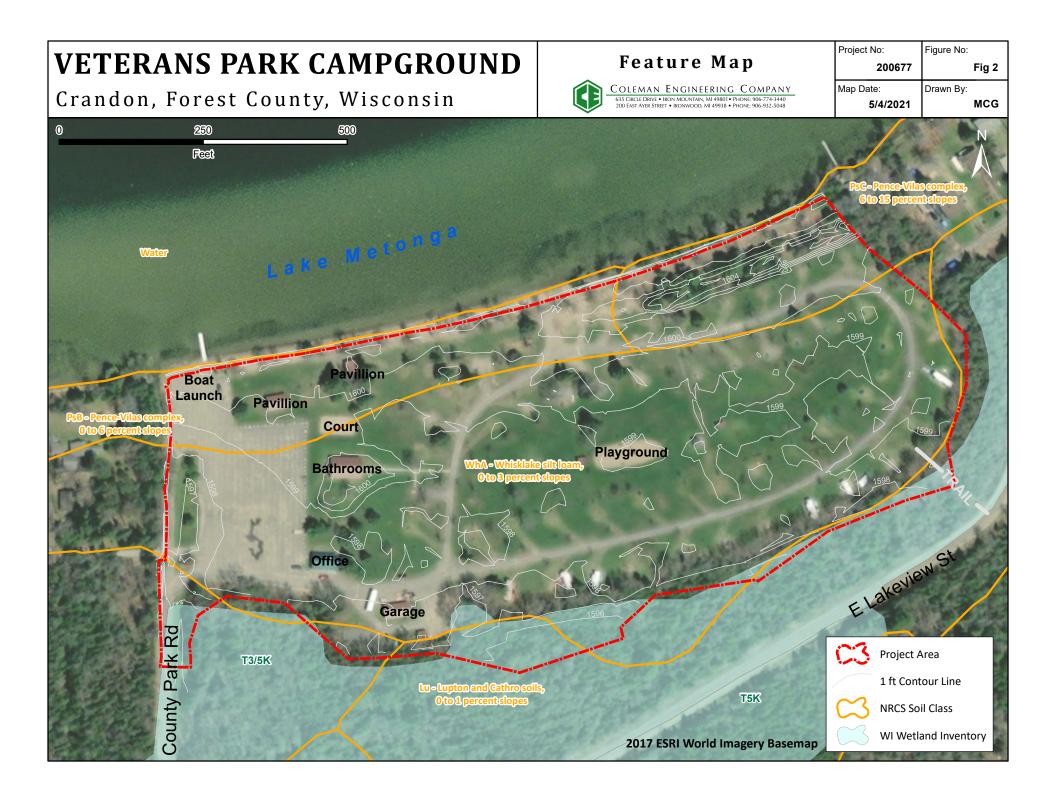
Veterans Park Campground

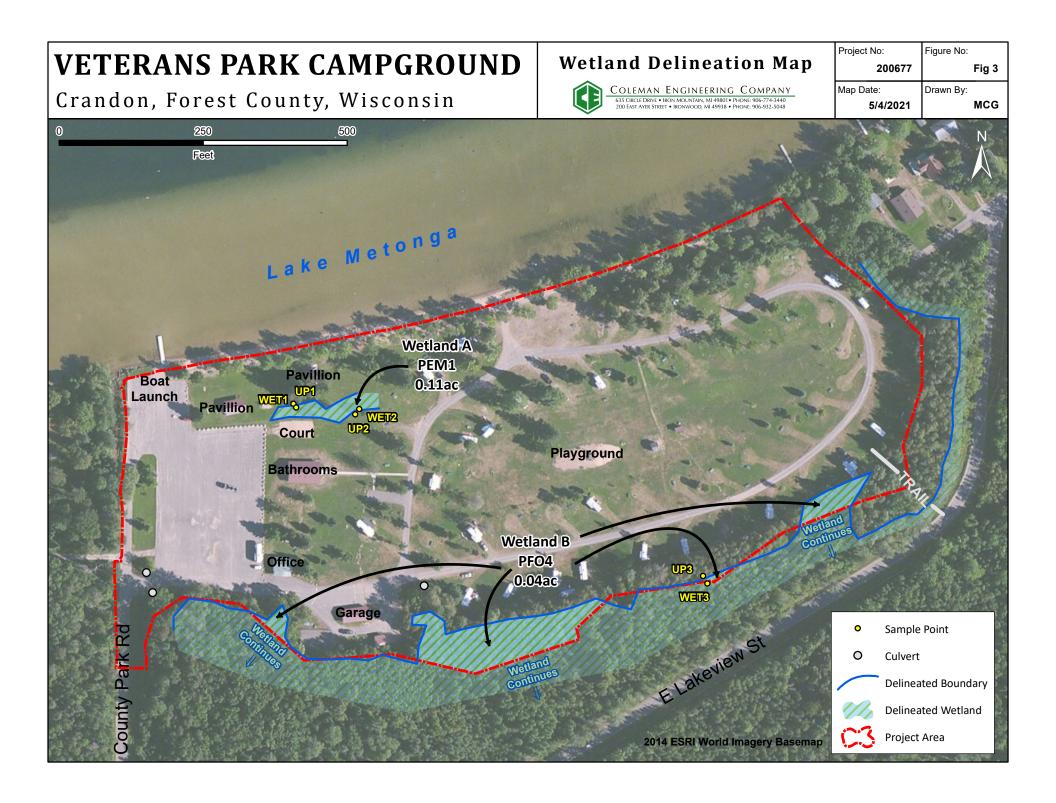
APPENDIX A

Figure 1: Project Location Map Figure 2: Feature Map Figure 3: Wetland Delineation Map









Veterans Park Campground

APPENDIX B

Table 1: NRCS Wetlands (WETS) Climate Table

Table 2: NRCS Method for Rainfall Documentation



Figure 1:

WETS Table

WETS Station: RHINELANDER, WI

Requested years: 1971 - 2020

Month	Avg Max Temp	Avg Min Temp	Avg Mean Temp	Avg Precip	30% chance precip less than	30% chance precip more than	Avg number days precip 0.10 or more	Avg Snowfall	
Jan	22.1	0.8	11.5	1.16	0.76	1.40	4	11.1	
Feb	27.1	3.8	15.5	1.04	0.54	1.27	3	9.0	
Mar	38.5	15.4	27.0	1.69	1.02	2.05	5	8.0	
Apr	52.4	28.7	40.6	2.74	1.85	3.27	7	4.5	
Мау	66.5	41.3	53.9	3.52	2.43	4.19	8	0.2	
Jun	74.8	51.1	62.9	4.22	2.92	5.02	8	0.0	
Jul	79.3	55.9	67.6	4.01	2.69	4.81	7	0.0	
Aug	76.6	54.0	65.3	4.03	2.80	4.79	7	0.0	
Sep	68.1	45.8	57.0	4.15	2.66	5.00	7	0.0	
Oct	54.7	34.2	44.5	3.07	2.11	3.66	7	0.8	
Nov	38.9	22.3	30.6	1.93	1.18	2.34	5	5.3	
Dec	26.2	8.4	17.3	1.52	1.00	1.83	5	12.3	
Annual:					30.09	36.54			
Average	52.1	30.1	41.1	-	-	-	-	-	
Total	-	-	-	33.08			73	51.2	

GROWING SEASON DATES

24 deg =	28 deg =	32 deg =
6	5	3
24 deg =	28 deg =	32 deg =
0	0	0
24 deg =	28 deg =	32 deg =
44	45	47
24 F or	28 F or	32 F or
higher	higher	higher
4/23 to	5/6 to	5/22 to
10/23:	10/7: 154	9/26: 127
183 days	days	days
4/18 to	5/3 to	5/19 to
10/28:	10/11:	9/30: 134
193 days	161 days	days
	6 24 deg = 0 24 deg = 44 24 F or higher 4/23 to 10/23: 183 days 4/18 to 10/28:	6 5 24 deg = 28 deg = 0 24 deg = 24 deg = 28 deg = 44 245 24 F or 28 F or higher 10/8 4/23 to 5/6 to 10/23: 10/7: 154 183 days 5/3 to 10/28: 10/11:

* Percent chance of the growing season occurring between the Beginning and Ending dates.

STATS TABLE - total precipitation (inches)													
Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annl
1895	0.14	M0.30	MT	M0.29				2.26	M3. 04	MT			6.03
1896													
1897													
1898													
1899													
1900													
1901													
1902													
1903													
1904													
1905													
1906													
1907													
1908	0.34	1.46	1.48	3.38	2.44	4.12	3.76	1.35	4.	M0.	1.37	M0.	25.

									49	95		71	85
1909	0.49	0.76	0.76	M3.12	2.43	4.01	M3.46	3.83	2. 90	1. 15		1.27	29 50
1910	M0.48	M0.54	0.38	2.82	2.46	0.53	1.44	3.40	2. 49	M1. 74	M1. 03	M0. 52	17 83
1911	0.66	1.17	M1.46	1.18	M5.25	2.45	M8.32	3.29	4. 45	8. 87	M1. 72	1.97	40 79
1912	0.36	0.17	0.58	3.28	M7.31	1.28	4.09	8.32	4. 58	2. 23	0.85	2.02	35 07
1913	0.42	0.64	2.62	1.60	4.68	3.66	6.47	M1.83	5. 17	3. 76	1.23	0.03	32 11
1914	1.26	M0.35	1.30	3.48	2.12	6.84	7.03	5.91	2. 70	1. 06	1.08	0.23	33 30
1915	1.39	0.98	0.32	M1.48	3.79	3.43	4.52	4.17	3. 06	2. 37	4.39	M0. 97	30 8 ⁻
1916	2.47	0.46	2.38	3.46	3.56	7.55	4.40	2.13	7. 79	2. 99	1.97	0.63	39 79
1917	0.55	0.72	M1.16	1.84	0.98	4.87	0.99	3.86	1. 87	3. 56	0.37	0.71	21 43
1918	1.26	1.59	1.24	1.65	7.30	1.82	3.22	7.91	2. 54	2. 16	2.48	1.46	34 63
1919	M0.41	M1.53	1.32	2.64	1.91	8.88	5.34	2.83	2. 94	M3. 35	3.13	M0. 22	34 50
1920	M1.47	M0.73	3.43	1.70	1.52	6.54	2.97	1.83	1. 61	3. 05	M0. 95	1.76	27 5
1921	0.84	M0.84	3.53	5.13	1.93	2.07	3.46	4.26	3. 81	1. 18	0.87	1.37	29 29
1922	M0.57	2.94	0.82	2.17	2.65	3.46	4.20	1.42	4. 04	1. 58	2.24	0.77	26 81
1923	1.37	0.30	1.57	2.60	2.09	9.06	4.13	2.88	2. 02	0. 76	M0. 71	0.80	28 2
1924	0.86	0.49	0.82	3.54	3.64	4.63	2.97	6.27	2. 65	0. 74	0.94	0.85	28 4
1925	0.49	M0.98	0.60	1.74	1.27	6.02	2.88	3.02	3. 81	1. 85	M1. 19	M0. 74	24 59
1926	M0.59	1.31	1.31	1.90	3.22	3.82	4.27	7.91	M5. 21	3. 32	M2. 59	1.20	36 6
1927	0.67	0.61	1.88	1.77	3.42	3.70	8.16	0.99	3. 33	3. 74	2.21	M2. 04	32 51
1928	0.78	1.10	0.97	2.62	2.22	2.93	6.28	4.41	7. 26	4. 87	0.57		34 19
1929	1.19	0.90	0.85	3.05	3.80	7.93	8.83	2.71	3. 04	0. 84	1.33	0.37	
1930	0.56	0.97	0.57	1.47	3.12	5.45	2.03	3.10	4. 01	1. 93	1.63	0.14	24 9
1931	0.50	0.50	0.64	0.57	1.07	8.84	3.90	4.24	5. 50	3. 41	4.59	1.03	34 7
1932	1.67	2.27	0.75	1.82	2.36	2.00	3.53	4.34	1. 49	0. 92	1.43	2.21	24 79
1933	1.09	1.66	0.50	2.70	4.63	4.93	1.50	1.41	2. 47	2. 03	M0. 14	M1. 10	24 1
1934		0.32	2.14	2.39	2.11	3.51	2.04	4.21	8. 90	2. 86		1.25	35
1935	M3.28	0.83	0.79	1.55	2.12	M5.02	4.63	5.84	4. 59	3. 25	0.61	0.43	32
1936	1.47	1.43	1.74	0.97	3.71	1.67	2.14	8.51	2. 55	2. 54	0.73	1.18	28
1937	M1.40	3.36	0.17	1.87	3.63	1.13	3.65	2.38	3. 17	3. 18	1.65	0.64	20
1938	2.09	1.75	2.73	3.65	5.85	4.46	5.93	4.53	3. 88	2. 34	2.63	1.67	41
1939	3.04	2.48	2.48	2.61	3.91	8.22	1.39	1.94	1. 80	1. 66	0.12	1.91	3
1940	0.67	2.40	1.06	2.09	3.74	7.65	4.76	4.49	1. 49	2. 04	3.25	1.90	35
1941	0.77	M0.45	0.58	1.89	3.22	2.18	4.36	6.99	43 6. 12	5. 94	1.23	0.91	34 6-
1942	0.89	0.45	5.75	M1.83	M5.51	2.67	4.68	2.37	8.	2.	1.88	1.62	38

									54	26			45
1943	1.06	0.30	1.95	1.37	3.96	8.56	1.11	M4.85	1. 74	2. 04	2.34	0.03	29 31
1944	1.06	0.59	2.13	1.33	3.96	6.49	1.82	1.88	3. 46	0. 70	2.00	0.46	25 88
1945	0.61	2.78	2.06	4.37	4.00	3.22	4.33	4.24	2. 19	1. 54	3.30	M1. 56	34 20
1946	2.18	0.69	0.65	0.33	2.59	11.72	2.49	M2.48	4. 14	2. 98	2.48	1.34	34 07
1947	0.41	0.46	0.75	3.50	2.83	4.00	2.29	4.15	1. 81	1. 47	M2. 37	0.93	24 97
1948	0.46	1.32	0.94	M1.58	0.73	3.00	4.38	2.00	2. 91	0. 97	3.60	0.53	22 42
1949	1.35	0.65	1.35	0.87	3.00	5.28	6.36	1.58	4. 52	2. 67	1.33	1.07	30 03
1950	3.54	0.69	2.45	2.62	3.60	2.32	4.69	3.07	1. 52	2. 48	1.59	1.95	30 51
1951	0.52	2.10	3.03	2.85	4.39	3.92	8.62	4.83	4. 26	3. 45	1.28	1.11	40 30
1952	1.64	0.49	1.58	1.95	3.28	3.87	5.75	4.88	0. 70	0. 23	1.47	1.33	27 17
1953	0.69	2.09	M1.43	2.42	3.17	8.87	3.80	2.10	M1. 41	0. 29	1.10	1.69	29 0
1954	0.67	0.65	1.24	4.79	3.09	4.04	2.79	1.56	6. 02	3. 66	0.90	0.42	29 83
1955	0.58	0.72	1.72	2.35	3.50	2.61	4.09	4.89	2. 35	3. 58	1.40	1.14	28 93
1956	0.58	0.21	1.00	1.31	2.47	6.05	3.88	5.55	1. 61	0. 58	3.25	0.45	26 94
1957	0.31	0.70	0.99	1.33	3.04	3.19	2.13	M4.66	M2. 72	0. 93	2.26	0.41	22 6
1958	0.49	0.03	0.68	1.30	5.52	3.11	4.81	4.56	3. 62	2. 34	1.89	0.33	28 6
1959	0.42	0.43	0.80	1.99	3.37	2.99	4.83	8.89	7. 32	3. 71	0.58	2.40	37 73
1960	1.05	0.33	0.18	3.06	5.62	4.91	2.24	5.80	3. 22	2. 67	1.33	0.40	3(8
1961	0.21	1.27	2.07	1.70	2.67	3.54	4.47	3.50	4. 34	3. 17	2.66	0.95	30 5
1962	0.67	1.69	0.40	M2.11	4.59	2.93	M2.69	M3.12	3. 20	1. 55	M0. 68	M0. 52	24 1
1963	M0.28	0.46	1.09	M1.35	2.86	2.49	2.10	3.43	3. 81	0. 74		0.82	
1964	0.72	0.22	0.83	3.58	3.29	2.60	3.36	5.87	3. 62	0. 44	3.02	1.65	29 21
1965	0.44	0.82	1.64	2.91	4.50	3.25	2.99	2.82	4. 73	1. 68	3.55	1.40	30
1966	0.87	0.43	3.14	1.24	0.77	M2.22	1.50	6.86	2. 63	3. 29	1.28	1.13	2!
1967	2.68	0.60	1.39	4.32	1.67	5.70	2.68	3.48	3. 13	3. 27	0.72	0.39	30
1968	0.99	0.19	1.25	2.49	5.10	9.89	4.67	1.94	7. 47	2. 34	0.52	2.74	39
1969	2.79	0.12	0.60	1.30	3.58	4.76	2.44	0.82	2. 40	4. 27	1.56	2.00	26
1970	0.92	0.35	0.87	1.04	4.90	2.05	3.63	0.69	8. 38	3. 44	2.95	1.90	3 ⁻ 1:
1971	2.50	2.82	1.04	0.65	4.05	5.27	3.32	3.36	5. 71	3. 14	2.05	2.27	36
1972	1.13	1.12	2.39	3.11	2.13	2.86	3.22	6.69	4. 96	2. 69	2.76	2.62	35
1973	0.92	0.72	4.09	3.25	6.86	2.29	4.41	7.42	3. 20	2. 05	1.29	1.55	38
1974	0.50	0.83	0.61	3.41	2.59	3.03	2.97	6.33	20 3. 21	1. 18	2.72	0.79	28 1
1975	1.90	1.35	1.21	3.33	2.22	4.33	1.05	4.06	4. 44	1. 25	4.21	1.12	30 4
1976	1.70	0.98	2.54	2.63	1.55	1.71	1.53	3.43	44 0.	25 0.	0.20	0.45	4

									40	43			63
1977	0.58	0.44	3.28	3.81	2.87	4.21	2.97	7.01	5. 41	2. 49	4.09	1.85	39. 01
1978	0.55	0.38	0.15	2.75	4.66	4.48	7.70	9.15	5. 70	1. 42	1.54	1.44	39. 92
1979	1.65	1.57	3.11	M0.82	3.25	3.19	3.98	4.54	0. 84	5. 90	1.90	0.59	31. 34
1980	1.81	0.23	0.37	1.49	1.93	4.58		8.58	5. 03	1. 62	0.74	1.03	27. 41
1981	0.43	1.95	0.62	3.49	4.01	10.22	1.18	0.82	2. 24	2. 19	0.27	1.16	28. 58
1982	M1.40	0.23	1.03	4.09	3.15	2.13	5.57	2.86	6. 10	3. 45	2.44	3.32	35. 77
1983	1.49	0.81	M1.57	1.39	4.36	3.86	1.95	3.12	4. 72	3. 81	3.81	1.13	32. 02
1984	0.51	1.39	1.26	3.59	1.07		2.55	3.24	4. 32	4. 65	0.38	2.33	25. 29
1985	0.14	0.88	2.21	1.57	4.85	2.39	4.73	4.80	6. 42	4. 31	3.70	1.05	37. 05
1986	0.89	0.44	0.86	2.28	0.56	3.01	8.88	2.79	7. 73	3. 03	0.87	0.47	31. 81
1987	M0.85	0.10	0.63	1.02	2.81	1.70	3.76	1.65	2. 59	1. 79	2.45	3.46	22. 81
1988	1.18	0.24	1.50	1.28	1.19	2.32	2.99	4.14	3. 78	1. 83	1.30	1.01	22. 76
1989	1.26	0.41	1.41	M0.79		2.27	0.63	4.25	0. 57	1. 45	0.46	0.61	14. 11
1990	0.37	0.32	0.73	3.10	4.97	7.06	4.69	7.91	6. 43	3. 72	1.35	0.77	41. 42
1991	0.70	1.04	3.04	4.33	7.50	4.27	4.99	2.32	3. 46	3. 03	4.87	M1. 16	40. 71
1992	0.70	1.39	1.76	2.87	2.66	2.52	2.23	3.17	6. 71	2. 17	3.49	1.80	31. 47
1993	1.45	0.04	M0.43	2.60	4.53	5.81	2.77	3.42	3. 62	2. 17	1.76	0.59	29. 19
1994	0.90	0.94	0.75	2.91	1.71	4.40	3.94	4.76	8. 51	1. 77	1.49	0.35	32. 43
1995	0.39	0.51	1.41	1.94	4.07	0.85	5.40	5.74	2. 58	5. 44	2.03	1.35	31. 71
1996	2.53	0.56	2.16	2.16	0.97	4.42	5.43	3.45	2. 60	4. 23	2.57	2.03	33. 11
1997	3.15	0.11	1.78	1.04	2.53	6.31	4.58	3.79	4. 23	3. 91	0.73	0.59	
1998	1.84	1.06	3.24	1.16	4.43	5.25	1.04	1.82	1. 87	1. 57	2.09	0.84	26. 21
1999	2.30	1.46	0.46	1.87	7.25	2.99	7.88	2.79	1. 78	1. 94	1.55	0.76	33. 03
2000	1.57	1.86	2.30	2.51	2.46	5.00	10.24	3.24	4. 10	0. 73	M2. 19	1.15	37. 35
2001	0.89	1.14	0.69	4.69	4.49	M4.01	4.65	2.13	6. 38	2. 73		1.93	36. 52
2002	0.61	1.88	2.42	6.33	2.86	4.18	5.69	3.66	6. 54	3. 94	0.43	0.65	39. 19
2003	0.28	1.20	2.23	4.32	2.92	2.46	4.21	1.34	34 3. 30	94 1. 37	2.38	1.13	27. 14
2004	1.47	2.21	3.70	2.32	4.85	3.26	2.11	3.38	3. 04	37 3. 49	M1. 39	2.11	33
2005	1.27	1.53	1.82	2.02	1.98	3.68	1.99	2.16	3. 15	49 3. 90		1.29	27. 50
2006	1.12	0.81	2.75	0.55	6.68	0.50	M3.55	3.95	3. 06	90 2. 08	1.65	2.11	28. 81
2007	0.91	0.85	1.71	1.90	3.10	4.30	M2.68	1.95	3. 50	6. 10	0.71	1.92	29. 63
2008	1.12	1.16	0.81	4.01	4.25	3.62	3.43	1.41	2. 40	1. 82	1.18	2.19	27. 40
2009	0.64	0.91	1.22	3.66	2.64	2.14	1.68	5.04	0.	5.	0.37	2.02	26.
2010	0.72	M0.58	0.69	0.95	2.28	8.19	5.47	3.64	61 9.	59 2.	M1	1.80	52 38

									63	78	66		39
2011	0.89	0.40	2.70	2.72	4.00	4.95	2.74	M2.52	3. 04	1. 83	1.26	1.86	28. 91
2012	1.42	2.03	1.41	2.02	5.67	3.94	6.33	1.84	1. 87	3. 88	1.44	0.82	32. 67
2013	1.23	1.53	1.94	4.44	4.50	5.49	2.87	5.43	2. 71	4. 47	2.09	1.68	38. 38
2014	1.39	1.36	0.87	4.28	3.00	8.01	4.80	6.74	7. 26	4. 25	3.52	1.78	47. 26
2015	0.70	0.31	0.68	3.24	4.16	3.42	4.19	3.59	3. 37	3. 68	2.66	4.68	34. 68
2016	0.70	0.72	3.47	3.16	3.09	6.99	3.95	8.13	5. 91	5. 19	2.12	1.92	45. 35
2017	1.87	1.17	1.38	6.17	5.88	7.38	2.32	4.74	2. 11	4. 89	1.09	1.62	40. 62
2018	1.18	1.18	1.92	2.34	1.76	7.92	3.75	2.12	5. 30	6. 42	2.02	1.44	37. 35
2019	0.85	4.44	0.99	3.55	5.37	4.29	4.96	3.40	5. 81	3. 16	1.57	2.96	41. 35
2020	1.68	0.36	3.12	2.86	1.59	5.13	8.77	2.19	5. 17	2. 74	2.30	0.60	36. 51
2021	0.53	1.45	1.72	M4.56	M0.07								8.33
Notos: Data missing in any													

Notes: Data missing in any month have an "M" flag. A "T" indicates a trace of precipitation.

Data missing for all days in a month or year is blank.

Creation date: 2016-07-22

Table 2:

NRCS Engineering Field Handbook Chapter 19												
Date	5/10/2021	Landowner/Project	Forest Co / Veterans Park									
Weather Station	Rhinelander	State	Wisconsin									
County	Forest	Growing Season	5/3/2021 - 10/11/2021									
Photo/obs Date	5/4/2021	Soil Name	WhA - Whisklake silt loam									

NRCS method - Rainfall Documentation Worksheet Hydrology Tools for Wetland Determination	
NRCS Engineering Field Handbook Chapter 19	

shaded cells are locked or calculated	Long-term r (from WETS Climatology	table or S						
		30%	30%		Condition	C IV	Month	Product of
	Marath	chance	chance	Dussin	Dry, Wet,	Condition	Weight	Previous 2
	Month	<	>	Precip	Normal	Value	Value	Columns
1st Prior Month*	April	1.85	3.27	4.18	W	3	3	9
2nd Prior Month*	March	1.02	2.05	1.37	Ν	2	2	4
3rd Prior Month*	February	0.54	1.27	0.99	Ν	2	1	2
	*compared to	o photo/ob	servation o	late			Sum	15
	Note: If sum	is			1		L	
	6 - 9	prior peri- than norm	od has bee 1al	en drier		Condition v D ry =1	alue:	
10 - 14 prior period has been no						Normal =2 Wet =3		
	15 - 18	od has bee	n wetter					
				-				
Conclusions:	pri	or period	has been	wetter th	an normal			

Veterans Park Campground

APPENDIX C

Wetland Determination Data Sheets



Project/Site: Veterans Park Campground	C	City/County: Forest C	County	Sampling Date: 5/4/21
Applicant/Owner: Forest County		,	State: WI	Sampling Point: WET1
Investigator(s): Molly Gardner; CEC		Section, Tov	wnship, Range: Sec 17 T	
Landform (hillside, terrace, etc.): Slight dep	ression Local rel	lief (concave, conve	· · · ·	Slope %: 0-1
Subregion (LRR or MLRA): LRR K, MLRA 9		•	-88.901283	Datum: WISCRS Forest Co
Soil Map Unit Name: PsB - Pence-Vilas com			NWI classification:	
Are climatic / hydrologic conditions on the site	• • •	Yes X		explain in Remarks.)
Are Vegetation <u>Y</u> , Soil <u>N</u> , or Hydro			al Circumstances" prese	
Are Vegetation, SoilN, or Hydro			l, explain any answers in	
SUMMARY OF FINDINGS – Attach	site map showing sampi	ling point locati	ons, transects, im	portant features, etc.
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Ar	ea	
Hydric Soil Present?	Yes X No	within a Wetland?	Yes <u>X</u>	No
Wetland Hydrology Present?	Yes X No	If yes, optional Wet	tland Site ID: Wetland	Α
Remarks: (Explain alternative procedures he Sample point is located ~5ft southwest of we quadrant of the project area. The wetland cor community. In 2020 a large load of fill materia on topography and previous photos which are maintained lawn leading to the eastward cam creating the wetland boundary.	tland flag A3 within Wetland A. V nsists of a slight depression withi al was dumped on the eastern er e included with this report. South	hin the maintained lav and of Wetland A, the n of wetland A is a sp	wn which has significantly prefore, the eastern boun port court and abundant g	ly disturbed the vegetative ndary was estimated based gravel beneath the
creating the wetianu boundary.				
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicators (m	ninimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Cracks	. ,
Surface Water (A1)	Water-Stained Leaves (B9)))	Drainage Patterns (
X High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B	,
X Saturation (A3)	Marl Deposits (B15)		Dry-Season Water	
Water Marks (B1)	Hydrogen Sulfide Odor (C1	1)	Crayfish Burrows (C	28)
Sediment Deposits (B2)	Oxidized Rhizospheres on	Living Roots (C3)	X Saturation Visible o	on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron		Stunted or Stressed	d Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in T	Filled Soils (C6)	X Geomorphic Positio	on (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D)3)
Inundation Visible on Aerial Imagery (B7)) Other (Explain in Remarks)	\$)	Microtopographic R	telief (D4)
Sparsely Vegetated Concave Surface (B	8)		X FAC-Neutral Test (I	
Field Observations:				
Surface Water Present? Yes	No X Depth (inches):			
Water Table Present? Yes X	No Depth (inches):	8		
Saturation Present? Yes X	No X Depth (inches): No Depth (inches): No Depth (inches):	0 Wetland	d Hydrology Present?	Yes X No
(includes capillary fringe)	· · · <u>_</u>	— I		
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previo	ous inspections), if a	vailable:	
Domoriko				
Remarks: The close proximity to Lake Metonga (~115 for throughout the site.	eet to the north) along with the b	ooring logs indicate a	water table within 4ft fro	om the soil surface

Sampling Point: WET1

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Picea mariana	15	Yes	FACW	
2.				Number of Dominant Species That Are OBL, FACW, or FAC:(A)
3				Total Number of Dominant
4.				Species Across All Strata: 2 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 50.0% (A/B)
7				Prevalence Index worksheet:
	15	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species 10 x 1 = 10
1				FACW species 20 x 2 = 40
2				FAC species x 3 =0
3				FACU species x 4 =0
4.				UPL species 0 x 5 = 0
5.				Column Totals: 30 (A) 50 (B)
6.				Prevalence Index = $B/A = 1.67$
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)				2 - Dominance Test is >50%
1. Spagnum sp.	50	Yes		X 3 - Prevalence Index is ≤3.0 ¹
2. Lemna minor	10	No	OBL	4 - Morphological Adaptations ¹ (Provide supporting
3. Poa palustris	5	No	FACW	data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation ¹ (Explain)
5				¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in
9				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	65	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: n/a)				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				I hules who die
3				Hydrophytic Vegetation
4				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a separation				
	d as lawn but	t approximately	/ 20% of Wetl	land A has bare soil and the inability to sustain lawn type
grasses likely due to inundation.				

Profile Desc	ription: (Describe	to the dep	oth needed to docu	ument t	he indica	tor or co	onfirm the absence of	indicators.)
Depth	Matrix		Redo	x Featur	res			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-2	10YR 3/2	100					Sandy	Topsoil
2-9	10YR 2/2	100					Mucky Peat	Lacustrine, organic peat
9-20	10YR 5/3	100					Sandy	Well sorted
<u> </u>		·	,					
<u> </u>	-							
<u> </u>			<u> </u>					
		· ·						
<u> </u>								
	oncentration, D=Dep	letion RM	-Reduced Matrix N		ked Sand	Grains	² Location: PL	=Pore Lining, M=Matrix.
Hydric Soil				/IO=IVIA3	Keu Ganc	oranis.		r Problematic Hydric Soils ³ :
Histosol			Polyvalue Belo	w Surfa	ce (S8) (I	LRR R.		k (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B			,		airie Redox (A16) (LRR K, L, R)
Black Hi			Thin Dark Surf	·) (LRR R.	MLRA 1		ky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)	•	High Chroma S					Below Surface (S8) (LRR K, L)
	d Layers (A5)	•	Loamy Mucky			-		Surface (S9) (LRR K, L)
Depleted	d Below Dark Surfac	e (A11)	Loamy Gleyed	Matrix ((F2)		Iron-Mang	ganese Masses (F12) (LRR K, L, R)
Thick Da	ark Surface (A12)	•	Depleted Matri	x (F3)			Piedmont	Floodplain Soils (F19) (MLRA 149B)
Sandy M	lucky Mineral (S1)		Redox Dark Su	urface (F	-6)		Mesic Spo	odic (TA6) (MLRA 144A, 145, 149B)
Sandy G	leyed Matrix (S4)		Depleted Dark	Surface	e (F7)		Red Pare	nt Material (F21)
Sandy R	edox (S5)		Redox Depress	sions (F	8)		Very Shal	low Dark Surface (F22)
Stripped	Matrix (S6)		Marl (F10) (LR	R K, L)			Other (Ex	plain in Remarks)
Dark Su	rface (S7)							
			etland hydrology mu	ust be pi	resent, ur	less dist	urbed or problematic.	
_	Layer (if observed):							
Туре:								
Depth (ir	nches):						Hydric Soil Present	? Yes X No
Remarks:								
								S Field Indicators of Hydric Soils,
version 7.0,	2015 Errata. (http://	www.nrcs.u	Isda.gov/Internet/F	SE_DOU	JUMENT	S/nrcs14	2p2_051293.docx)	
Soil directly s	south of Wetland A I	nave been	historically overlain	with gra	avel and to	opsoil wit	h a buried peat layer. A	t the time of delineation, the wetland
bounday is a	t the this contact.		2	-			· ·	

Project/Site: Veterans	Park Campground	City/County: Forest County San	npling Date: 5/4/21
Applicant/Owner: Fo	orest County	State: WI S	ampling Point: UP1
Investigator(s): Molly Ga	ardner; CEC	Section, Township, Range: Sec 17 T35N	NR13E
Landform (hillside, terrac	ce, etc.): Slight hillside Loca	I relief (concave, convex, none): Convex	Slope %: 1-2
Subregion (LRR or MLR/	A): LRR K, MLRA 90A Lat: 45.521674	Long:88.901301	Datum: WISCRS Forest Co
Soil Map Unit Name: P	sB - Pence-Vilas complex, 0 to 6 percent slopes	NWI classification: No	ne
Are climatic / hydrologic	conditions on the site typical for this time of year?	Yes X No (If no, expla	ain in Remarks.)
Are Vegetation Y,	Soil <u>N</u> , or Hydrology <u>N</u> significantly distu	rbed? Are "Normal Circumstances" present?	Yes X No
Are Vegetation N,	Soil <u>N</u> , or Hydrology <u>N</u> naturally problem	hatic? (If needed, explain any answers in Rer	marks.)
SUMMARY OF FIN	DINGS – Attach site map showing san	npling point locations, transects, impor	rtant features, etc.

Hydrophytic Vegetation Present?	Yes	No X	Is the Sampled Area			
Hydric Soil Present?	Yes	No X	within a Wetland?	Yes	No	Х
Wetland Hydrology Present?	Yes	No X	If yes, optional Wetland Si	te ID:		

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

Sample point is located ~5ft west of wetland flag A3 north of Wetland A. Wetland A is located ~75ft north of the bathroom building in the northwest quadrant of the project area. The sample point is within a maintained lawn which has significantly disturbed the vegetative community.

HYDROLOGY

Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is require	Surface Soil Cracks (B6)		
Surface Water (A1)	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 Ro	ots (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	s (C6)	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	3)		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 X	No Depth (inches): 14	Wetlan	d Hydrology Present? Yes No X
(includes capillary fringe)			
Describe Recorded Data (stream gauge, mon	itoring well, aerial photos, previous inspec	ctions), if a	available:
Remarks:			
The close proximity to Lake Metonga (~115 fe	eet to the north) along with the boring logs	indicate a	a water table within 4ft from the soil surface
throughout the site.			

Sampling Point: UP1

<u>Tree Stratum</u> (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Picea mariana	<u>30</u>	Yes	FACW	Dominance rest worksheet.
2. Populus tremuloides	10	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
	10	165	FAC	$\frac{11}{11} = \frac{11}{10} = 11$
3.				Total Number of Dominant
4			·	Species Across All Strata: 5 (B)
5				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: <u>60.0%</u> (A/B)
7				Prevalence Index worksheet:
	40	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species x 1 =
1. Populus tremuloides	5	Yes	FAC	FACW species 30 x 2 = 60
2				FAC species 15 x 3 = 45
3				FACU species 40 x 4 =160
4				UPL species 0 x 5 = 0
5				Column Totals: 85 (A) 265 (B)
6				Prevalence Index = B/A =3.12
7.				Hydrophytic Vegetation Indicators:
	5	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)				X 2 - Dominance Test is >50%
1. Poa pratensis	25	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹
2. Trifolium pratense	10	Yes	FACU	4 - Morphological Adaptations ¹ (Provide supporting
3. Taraxacum officinale	5	No	FACU	data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation ¹ (Explain)
5.				
				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
б 7				Definitions of Vegetation Strata:
8 9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				diameter at breast height (DDH), regardless of height.
				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	40	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: n/a)				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2.			<u> </u>	Hydrophytic
3				Vegetation
4				Present? Yes <u>No X</u>
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa				
Although the vegetation passes dominance test for h Additionally, the vegetation has been categorized as				he criteria due to failing the prevalence index paramater. teration by maintaining the area as a lawn
	e.g.mounty (g. i rogular al	

Profile Desc	cription: (Describe	to the de	pth needed to docu	iment t	he indica	tor or co	onfirm the absence of	indicators.)
Depth	Matrix		Redox	<pre>< Feature</pre>	res			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-11	10YR 2/2	100					Loamy/Clayey	Sandy loam
11-20	10YR 5/3	100					Sandy	Poorly sorted sand
		·						
. <u> </u>		·					<u> </u>	
1								
¹ Type: C=C	oncentration, D=Dep	letion, RN		IS=Mas	ked Sand	Grains	² l ocation: Pl	.=Pore Lining, M=Matrix.
Hydric Soil		louon, ru				<u>oranio</u>		r Problematic Hydric Soils ³ :
Histosol			Polyvalue Belo		ce (S8) (I	LRR R,		ck (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 1498)					airie Redox (A16) (LRR K, L, R)
	istic (A3)		Thin Dark Surfa					cky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		High Chroma S			-		Below Surface (S8) (LRR K, L)
	d Layers (A5)	(Loamy Mucky I			R K, L)		Surface (S9) (LRR K, L)
	d Below Dark Surfac	e (A11)	Loamy Gleyed		F2)			ganese Masses (F12) (LRR K, L, R)
	ark Surface (A12)		Depleted Matrix		-0)			Floodplain Soils (F19) (MLRA 149B)
	Aucky Mineral (S1)		Redox Dark Su					odic (TA6) (MLRA 144A, 145, 149B)
	Gleyed Matrix (S4)		Depleted Dark					nt Material (F21)
	Redox (S5)		Redox Depress		8)			llow Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR	R K, L)			Other (Ex	plain in Remarks)
Dark Su	rface (S7)							
			vetland hydrology mu	ist be pi	resent, ur	nless dist	urbed or problematic.	
	Layer (if observed):							
Type:	nches):						Hydric Soil Present	t? Yes No X
Remarks: This data for	rm is revised from No	orthcontra	l and Northeast Redi	onal Su	Innlement	Version	2.0 to include the NRC	S Field Indicators of Hydric Soils,
	2015 Errata. (http://							

Project/Site: Veterans Park Campground	City/County: Forest County	Sampling Date: 5/4/21
Applicant/Owner: Forest County	State: WI	Sampling Point: WET2
Investigator(s): Molly Gardner; CEC	Section, Township, Range: Sec 17	T35N R13E
	relief (concave, convex, none): Concave	Slope %: 0-1
Subregion (LRR or MLRA): LRR K, MLRA 90A Lat: 45.521650	Long: -88.900855	Datum: WISCRS Forest Co
Soil Map Unit Name: PsB - Pence-Vilas complex, 0 to 6 percent slopes	NWI classification	
Are climatic / hydrologic conditions on the site typical for this time of year?		explain in Remarks.)
Are Vegetation Y , Soil N , or Hydrology N significantly disturb		
Are Vegetation N , Soil N , or Hydrology N naturally problema		
SUMMARY OF FINDINGS – Attach site map showing sam		
Hydrophytic Vegetation Present? Yes X No Hydric Soil 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: Wetland	
Remarks: (Explain alternative procedures here or in a separate report.)		
Sample point is located ~5ft east of wetland flag A9 within Wetland A. Wetla	and A is located ~75ft north of the bathroom	building in the northwest
quadrant of the project area. The wetland consists of a slight depression wit	thin the maintained lawn which has significan	ntly disturbed the vegetative
community. In 2020 a large load of fill material was dumped on the eastern on topography and previous photos which are included with this report. Sour		
maintained lawn leading to the eastward campsites. There was likely a grav		
creating the wetland boundary.	•	
HYDROLOGY		
Wetland Hydrology Indicators:		(minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracl	. ,
Surface Water (A1) Water-Stained Leaves (B	· ·	
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (
X Saturation (A3) Marl Deposits (B15)	C1) Dry-Season Wate	
Water Marks (B1) Hydrogen Sulfide Odor (C	, ,	(),
Sediment Deposits (B2) Oxidized Rhizospheres o		on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iro	· · · ·	
Algal Mat or Crust (B4) Recent Iron Reduction in This Muck Surface (C7)		
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark		
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test	(D5)
Field Observations:		
Surface Water Present? Yes No X Depth (inches):		
Water Table Present? Yes X No Depth (inches):		
Saturation Present? Yes X No Depth (inches):	0 Wetland Hydrology Present?	? Yes <u>X</u> No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	vious inspections), if available:	
Remarks:		
The close proximity to Lake Metonga (~115 feet to the north) along with the	boring logs indicate a water table within 4ft f	rom the soil surface
throughout the site.		

Sampling Point:	WET2
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Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.	70 00101	000000	Olalus	
2.				Number of Dominant Species That Are OBL, FACW, or FAC:(A)
3				Total Number of Dominant Species Across All Strata: 2 (B)
5.				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 50.0% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species <u>1</u> x 1 = <u>1</u>
1				FACW species <u>7</u> x 2 = <u>14</u>
2				FAC species 0 x 3 = 0
3				FACU species x 4 =
4				UPL species 0 x 5 = 0
5.				Column Totals: 8 (A) 15 (B)
6.				Prevalence Index = $B/A = 1.88$
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)				2 - Dominance Test is >50%
1. Carex sp.	10	Yes		X 3 - Prevalence Index is ≤3.0 ¹
2. Poa palustris	5	Yes	FACW	4 - Morphological Adaptations ¹ (Provide supporting
2 Freedow and the size		No	FACW	data in Remarks or on a separate sheet)
 Fraxinus perinsylvanica Lemna minor 	 1		OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
5 6				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8.				Tree – Woody plants 3 in. (7.6 cm) or more in
9				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	18	=Total Cover		of size, and woody plants less than 3.28 ft tall.
<u>Woody Vine Stratum</u> (Plot size: <u>n/a</u>)				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				Hydrophytic
3				Vegetation
4				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

Vegetation has been regularly mowed and maintained as lawn but approximately 20% of Wetland A and approximately 80% of this sample plot has bare soil and the inability to sustain lawn type grasses likely due to inundation.

Profile Desc	ription: (Describe	to the dep	oth needed to doc	ument t	he indica	tor or co	onfirm the absence of indicators.)
Depth	Matrix		Redo	x Featur	es		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture Remarks
0-1	10YR 2/2	100					Peat Peat with organics
1-2	10YR 5/4	100					Sandy Uniform sand
2-12	10YR 2/2	100					Mucky Peat Mucky sandy peat
12-20	10YR 5/2	100					Sandy Poorly sorted sand
		·					
		·					
		·					
¹ Type: C=Co	ncentration, D=Dep	letion, RM	=Reduced Matrix, N	NS=Mas	ked Sand	l Grains.	-
Hydric Soil I							Indicators for Problematic Hydric Soils ³ :
Histosol (. ,		Polyvalue Belo		ce (S8) (I	_RR R,	2 cm Muck (A10) (LRR K, L, MLRA 149B)
	ipedon (A2)		MLRA 149B	,			Coast Prairie Redox (A16) (LRR K, L, R)
Black His			Thin Dark Surf				
	n Sulfide (A4)		High Chroma			-	Polyvalue Below Surface (S8) (LRR K, L)
	Layers (A5) Below Dark Surface	o (A11)	Loamy Mucky Loamy Gleyed			κ κ , L)	Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R
	rk Surface (A12)	e (ATT)	Depleted Matri		12)		Piedmont Floodplain Soils (F12) (IKR K, L, R
	ucky Mineral (S1)		Redox Dark Si		6)		Mesic Spodic (TA6) (MLRA 144A, 145, 149
	leyed Matrix (S4)		Depleted Dark				Red Parent Material (F21)
	edox (S5)		Redox Depres				Very Shallow Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR		0)		Other (Explain in Remarks)
Dark Sur				, _/			
³ Indicators of	hydrophytic vegetat	tion and w	etland hydrology m	ust be pr	esent, ur	less dist	turbed or problematic.
Restrictive L	ayer (if observed):						
Type:							
Depth (in	ches):						Hydric Soil Present? Yes X No
Remarks:							
			0				2.0 to include the NRCS Field Indicators of Hydric Soils,
Version 7.0, 2	2015 Errata. (http://v	www.nrcs.u	usda.gov/Internet/F	SE_DOC	CUMENT	S/nrcs14	l2p2_051293.docx)
The sample p	oint likely had histo	ric alteratio	on with the addition	of a laye	er of surfi	cial sand	dy fill as evidenced by repeating peat layers.
	-			-			

Project/Site: Veteral	ns Park Campgrou	und		City/County: Forest	t County	S	Sampling Date: 5/4	4/21	
Applicant/Owner:	Forest County				State:	WI	Sampling Point:	UP2	
Investigator(s): Molly	/ Gardner; CEC			Section, To	ownship, Range: <u>S</u>	Sec 17 T3	5N R13E		
Landform (hillside, ter	race, etc.): Sliç	ght hillside	Loc	al relief (concave, conv	elief (concave, convex, none): Convex Slope %:				
Subregion (LRR or M	LRA): <u>LRR K, M</u>	ILRA 90A Lat	: 45.521625	Long	: -88.900882		Datum: wise	CRS Forest Co	
Soil Map Unit Name:	WhA - Whisklak	e silt loam, 0 to 3	3 percent slopes		NWI classif	ication: 1	None		
Are climatic / hydrolog	gic conditions on t	the site typical fo	r this time of year	? Yes <u>X</u>	No	(If no, ex	plain in Remarks.)		
Are Vegetation Y	_, Soil <u>N</u> , or	Hydrology N	significantly dis	turbed? Are "Nor	mal Circumstance	s" presen	nt? Yes <u>X</u> No	io	
Are Vegetation N	_, Soil <u>N</u> , or	Hydrology N	naturally proble	matic? (If neede	ed, explain any ans	swers in F	≀emarks.)		
SUMMARY OF F	INDINGS – At	tach site ma	p showing sa	Impling point loca	tions, transec	ts, imp:	ortant features	s, etc.	

Hydrophytic Vegetation Present?	Yes	No <u>X</u>	Is the Sampled Area		
Hydric Soil Present?	Yes	No X	within a Wetland?	Yes	No X
Wetland Hydrology Present?	Yes X	No	If yes, optional Wetland S	ite ID:	

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

Sample point is located ~5ft south of wetland flag A9 south of Wetland A. Wetland A is located ~75ft north of the bathroom building in the northwest quadrant of the project area. The sample point is within a maintained lawn which has significantly disturbed the vegetative community.

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is require	Surface Soil Cracks (B6)					
Surface Water (A1)	Drainage Patterns (B10)					
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)			
X 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 Ro	ots (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	s (C6)	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	3)		FAC-Neutral Test (D5)			
Field Observations:						
Surface Water Present? Yes	No X Depth (inches):					
Water Table Present? Yes X	No Depth (inches): 13					
Saturation Present? Yes X	No Depth (inches):8	Wetlar	nd Hydrology Present? Yes X No			
(includes capillary fringe)						
Describe Recorded Data (stream gauge, mon	nitoring well, aerial photos, previous inspe	ctions), if	available:			
Remarks:						
The close proximity to Lake Metonga (~115 fe			a water table within 4ft from the soil surface f the soil surface but the soil and geomorphic position			
due to historic land alteration from the constru			5 1 1			

Sampling Point: UP2

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Populus tremuloides	10	Yes	FAC	Number of Dominant Species
2.				That Are OBL, FACW, or FAC: (A)
3				Total Number of Dominant
4				Species Across All Strata: 2 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 50.0% (A/B)
7				Prevalence Index worksheet:
	10	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species x 1 =
1				FACW species 0 x 2 = 0
2				FAC species 10 x 3 = 30
3.				FACU species 75 x 4 = 300
4.				UPL species 0 x 5 = 0
5.				Column Totals: 85 (A) 330 (B)
6.			;	Prevalence Index = $B/A = 3.88$
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)				2 - Dominance Test is >50%
1. Poa pratensis	50	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹
2. Trifolium pratense	10	No	FACU	4 - Morphological Adaptations ¹ (Provide supporting
3. Taraxacum officinale	10	No	FACU	data in Remarks or on a separate sheet)
4. Plantago major	5	No	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
5				
6.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				Tree – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	75	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: n/a)				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2.				
3				Hydrophytic Vegetation
4.				Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			1
The vegetation has been categorized as significantly		rough regular a	lteration by r	naintaining the area as a lawn.

Profile Desc	cription: (Describe	to the de	-			ator or co	onfirm the absence of	indicators.)
Depth	Matrix			x Featur				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-11	10YR 2/1	100					Loamy/Clayey	Sandy loam w/ cobbles on top
11-20	10YR 5/3	100					Sandy	Sand
-								
¹ Type: C=C	oncentration, D=Dep	letion, RM	/-Reduced Matrix, M	IS=Mas	ked Sand	d Grains.	² Location: PI	L=Pore Lining, M=Matrix.
Hydric Soil			· · · ·					or Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Belo	w Surfa	ce (S8) (LRR R,	2 cm Mu	ck (A10) (LRR K, L, MLRA 149B)
Histic E	pipedon (A2)		MLRA 149B)			Coast Pra	airie Redox (A16) (LRR K, L, R)
	stic (A3)		Thin Dark Surf	ace (S9) (LRR R	, MLRA 1	49B) 5 cm Mu	cky Peat or Peat (S3) (LRR K, L, R)
Hydroge	n Sulfide (A4)		High Chroma S	Sands (S	611) (LRI	R K, L)	Polyvalue	e Below Surface (S8) (LRR K, L)
Stratified	d Layers (A5)		Loamy Mucky	Mineral	(F1) (LR	R K, L)	Thin Darl	k Surface (S9) (LRR K, L)
Depletee	d Below Dark Surface	e (A11)	Loamy Gleyed	Matrix ((F2)		Iron-Man	ganese Masses (F12) (LRR K, L, R)
Thick Da	ark Surface (A12)		Depleted Matri	x (F3)			Piedmon	t Floodplain Soils (F19) (MLRA 149B)
Sandy N	lucky Mineral (S1)		Redox Dark Su	ırface (F	-6)		Mesic Sp	oodic (TA6) (MLRA 144A, 145, 149B)
Sandy G	Bleyed Matrix (S4)		Depleted Dark	Surface	e (F7)		Red Pare	ent Material (F21)
Sandy F	Redox (S5)		Redox Depress	sions (F	8)		Very Sha	allow Dark Surface (F22)
Stripped	Matrix (S6)		Marl (F10) (LR	R K, L)			Other (Ex	xplain in Remarks)
Dark Su	rface (S7)							
31	f h							
	Layer (if observed):		reliand hydrology mit	ist be pi	ieseni, ui	liess uist	urbed or problematic.	
Туре:								
Depth (i							Hydric Soil Presen	nt? Yes No X
Remarks:	·							
	m is revised from No	orthcentra	I and Northeast Regi	ional Su	pplemen	t Version	2.0 to include the NRC	S Field Indicators of Hydric Soils,
Version 7.0,	2015 Errata. (http://v	vww.nrcs.	usda.gov/Internet/FS	SE_DOO	CUMENT	S/nrcs14	2p2_051293.docx)	

Project/Site: Veterans Park Ca	ampground	City		Sam	pling Date:	5/4/21	
Applicant/Owner: Forest Co	ounty			State:	WI Sa	mpling Point:	: WET3
Investigator(s): Molly Gardner; CEC Section, Township, Range: Sec 17 T35N R13E							
Landform (hillside, terrace, etc.)): Drainageway	Local relief	(concave, convex, none	e): Concave	÷	Slope	%: 2-3
Subregion (LRR or MLRA): LF	RR K, MLRA 90A Lat:	45.520825	Long: -88.89	98493		Datum:	WISCRS Forest Co
Soil Map Unit Name: Lu - Lupt	ion and Cathro soils, 0 to	1 percent slopes	N	WI classific	ation: T3/5	5K [PF04]	
Are climatic / hydrologic condition	ons on the site typical for	this time of year?	Yes <u>X</u> N	No (I	lf no, explai	in in Remarks	s.)
Are Vegetation <u>N</u> , Soil	N, or Hydrology N	significantly disturbed?	Are "Normal Circ	umstances'	" present?	Yes X	No
Are Vegetation N, Soil	N , or Hydrology N	naturally problematic?	(If needed, expla	in any ansv	vers in Rem	ıarks.)	
SUMMARY OF FINDING	S – Attach site mar	showing samplin	g point locations,	transect	s, import	tant featur	res, etc.
Hydrophytic Vegetation Presen	nt? Yes <u>X</u>	NoIs	the Sampled Area				
Hydric Soil Present?	Yes X	No w	vithin a Wetland?	Yes	X No		
Wetland Hydrology Present?	Yes X	No If	yes, optional Wetland S	site ID: <u>W</u> e	etland B		
Remarks: (Explain alternative Sample point is located ~15ft s and continues south toward E I	southeast of wetland flag	,	Vetland B is located alor	ng the south	iern bounda	ry of the proj	ect area

HYDROLOGY

Wetland Hydrology Indica	tors:						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)
X High Water Table (A2)			A	Aquati	c Fauna (B13)		Moss Trim Lines (B16)
X Saturation (A3) Marl Deposits (B15)							Dry-Season Water Table (C2)
Water Marks (B1)			F	Hydrog	gen Sulfide Odor (C	1)	Crayfish Burrows (C8)
Sediment Deposits (B2)			Dxidiz	ed Rhizospheres on	Living Ro	coots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)			F	reser	nce of Reduced Iron	(C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)			F	Recen	t Iron Reduction in ⁻	Tilled Soils	Is (C6) X Geomorphic Position (D2)
Iron Deposits (B5)			т	⁻hin N	luck Surface (C7)		Shallow Aquitard (D3)
Inundation Visible on A	erial Ima	agery (B	7) (Other	(Explain in Remarks	3)	Microtopographic Relief (D4)
Sparsely Vegetated Co	ncave S	urface (B8)				X FAC-Neutral Test (D5)
Field Observations:							
Surface Water Present?	Yes		No	Х	Depth (inches):		
Water Table Present?	Yes	Х	No		Depth (inches):	6	
Saturation Present?	Yes	Х	No		Depth (inches):	0	Wetland Hydrology Present? Yes X No
(includes capillary fringe)							
Describe Recorded Data (s	tream g	auge, m	onitoring	g well,	aerial photos, previ	ious inspe	ections), if available:
Remarks:							
	Metong	ja (~600	feet to t	the no	orth) along with the b	poring logs	as indicate a water table within 4ft from the soil surface
throughout the site.							

Sampling Point: WET3

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Thuja occidentalis	80	Yes	FACW	Number of Deminent Species
2. Abies balsamea	20	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)
3 4				Total Number of Dominant Species Across All Strata: <u>6</u> (B)
5 6		·		Percent of Dominant Species That Are OBL, FACW, or FAC: <u>83.3%</u> (A/B)
7				Prevalence Index worksheet:
	100	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species X 1 = 15
1. Abies balsamea	15	Yes	FAC	FACW species 95 x 2 = 190
2. Cornus sericea	15	Yes	FACW	FAC species 40 x 3 =20
3. Populus tremuloides	5	No	FAC	FACU species 0 x 4 = 0
4				UPL species 0 x 5 = 0
5				Column Totals: 150 (A) 325 (B)
6				Prevalence Index = B/A = 2.17
7.				Hydrophytic Vegetation Indicators:
	35	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)				X 2 - Dominance Test is >50%
1. Juncus effusus	15	Yes	OBL	X 3 - Prevalence Index is ≤3.0 ¹
2. Geum sp.	5	Yes		4 - Morphological Adaptations ¹ (Provide supporting
2				data in Remarks or on a separate sheet)
4.		·		Problematic Hydrophytic Vegetation ¹ (Explain)
		·		
5 6				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				Tree – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10 11				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12		=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
<u>Woody Vine Stratum</u> (Plot size: <u>n/a</u>) 1.				Woody vines – All woody vines greater than 3.28 ft in height.
2.				
3.				Hydrophytic
		·		Vegetation Present? Yes X No
4.		=Total Cover		Present? Yes X No
Remarks: (Include photo numbers here or on a sepa	arate sheet.)			
	,			

Profile Des	cription: (Describe	to the de	pth needed to docu	ument t	he indica	tor or co	onfirm the absence of ind	icators.)			
Depth	Matrix		Redox	x Featur	res						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks			
0-3	10YR 2/2	100					Peat	Organics			
3-15	10YR 2/1	100					Mucky Sand	Wet			
		·									
		·									
	·										
		<u> </u>									
	· · · · · · · · · · · · · · · · · · ·	·									
	·	·									
	<u></u>										
¹ Tvpe: C=C	oncentration, D=Dep	letion. RM		1S=Mas	ked Sand	Grains.	² Location: PL=Po	ore Lining, M=Matrix.			
Hydric Soil	•		, , ,					oblematic Hydric Soils ³ :			
Histosol	(A1)		Polyvalue Belo	w Surfa	ce (S8) (I	LRR R,	2 cm Muck (A	10) (LRR K, L, MLRA 149B)			
Histic E	pipedon (A2)		MLRA 149B))			Coast Prairie	Redox (A16) (LRR K, L, R)			
	istic (A3)		Thin Dark Surfa	ace (S9) (LRR R	, MLRA 1	149B)5 cm Mucky	Peat or Peat (S3) (LRR K, L, R)			
Hydroge	en Sulfide (A4)		High Chroma S	Sands (S	611) (LRF	R K, L)	Polyvalue Below Surface (S8) (LRR K, L)				
	d Layers (A5)		Loamy Mucky I			R K, L)	Thin Dark Surface (S9) (LRR K, L)				
	d Below Dark Surfac	e (A11)	Loamy Gleyed		(F2)			ese Masses (F12) (LRR K, L, R)			
	ark Surface (A12)		Depleted Matrix					odplain Soils (F19) (MLRA 149B)			
	/lucky Mineral (S1)		Redox Dark Su	•	,			: (TA6) (MLRA 144A, 145, 149B)			
	Gleyed Matrix (S4)		Depleted Dark				Red Parent N				
	Redox (S5)		Redox Depress		8)			Dark Surface (F22)			
	l Matrix (S6)		Marl (F10) (LR	R K, L)			Other (Explai	n in Remarks)			
Dark Su	Irface (S7)										
³ Indicators o	of hydrophytic vegeta	tion and w	etland bydrology mu	ist he ni	resent ur	nless dist	urbed or problematic.				
	Layer (if observed):										
Type:											
Depth (i	nches):						Hydric Soil Present?	Yes X No			
Remarks:											
								eld Indicators of Hydric Soils,			
Version 7.0,	2015 Errata. (http://	www.nrcs.	usda.gov/Internet/FS	SE_DOO	CUMENT	S/nrcs14	2p2_051293.docx)				

City/County: Forest County Sampling Date: 5/4/21
State: WI Sampling Point: UP3
Section, Township, Range: Sec 17 T35N R13E
Local relief (concave, convex, none): Convex Slope %: 2-5
Long: -88.898523 Datum: WISCRS Forest Co
pes NWI classification: T3/5K [None]
year? Yes X No (If no, explain in Remarks.)
y disturbed? Are "Normal Circumstances" present? Yes X No
roblematic? (If needed, explain any answers in Remarks.)
g sampling point locations, transects, important features, etc.
)

Hydrophytic Vegetation Present?	Yes	No X	Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID:					
Hydric Soil Present?	Yes	No X						
Wetland Hydrology Present?	Yes	No X						
Remarks: (Explain alternative procedures here or in a separate report.)								

Sample point is located ~10ft northeast of wetland flag B37 and north of Wetland B. The sample point is within a maintained lawn which has significantly disturbed the vegetative community.

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)							
Primary Indicators (minimum of one is required;	Surface Soil Cracks (B6)							
Surface Water (A1)	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 Ro	ots (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	s (C6)	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)	_		FAC-Neutral Test (D5)					
Field Observations:								
Surface Water Present? Yes N	o X Depth (inches):							
Water Table Present? Yes X N	o Depth (inches): 16							
Saturation Present? Yes X N	o Depth (inches): 12	Wetlan	d Hydrology Present? Yes <u>No X</u>					
(includes capillary fringe)								
Describe Recorded Data (stream gauge, monitor	ring well, aerial photos, previous inspec	ctions), if a	available:					
Remarks:								
The close proximity to Lake Metonga (~600 feet	to the north) along with the boring logs	indicate a	a water table within 4ft from the soil surface					
throughout the site.								

Sampling Point: UP3

1.	<u>Tree Stratum</u> (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:				
2.									
4.									
5.	3				Total Number of Dominant				
6.	4				Species Across All Strata: 5 (B)				
7.	5								
Sapino/Shub Stratum (Plot size: 15) Total % Cover df: Multiply by: 1. Ables balsamea 10 Yes FAC FACU species 0 x 1 = 0 2.					That Are OBL, FACW, or FAC:60.0% (A/B)				
Saping/Shrub Stratum (Plot size:15) 10 Yes FAC FAC species0	7								
1. Abies balsamea 10 Yes FAC FACW species 10 x2 = 20 2.			=Total Cover						
2.	· · · · · · · · · · · · · · · · · · ·								
3.		10	Yes	FAC					
4.			·						
5.	3								
6.	4				UPL species x 5 =				
7.	5		·		Column Totals: 69 (A) 234 (B)				
10 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5) 1. Phalaris arundinacea 10 Yes FACW 2. Poa pratensis 10 Yes FACU 3. Rumex crispus 10 Yes FACU 4. Medicago lupulina 25 Yes FACU 5. Rubus strigosa 2 No FAC 6. Plantago major 2 No FACU 7.	6				Prevalence Index = B/A = 3.39				
Herb Stratum (Plot size:5) 1. Phalaris arundinacea 10 Yes FACW 2. Poa pratensis 10 Yes FACU 3. Rumex crispus 10 Yes FAC 4. Medicago lupulina 25 Yes FACU 5. Rubus strigosa 2 No FAC 6. Plantago major 2 No FACU 7.	7				Hydrophytic Vegetation Indicators:				
1. Phalaris arundinacea 10 Yes FACW 3 - Prevalence Index is \$3.0 ¹ 2. Poa pratensis 10 Yes FACU 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) 3. Rumex crispus 10 Yes FAC 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) 4. Medicago lupulina 25 Yes FACU Problematic Hydrophytic Vegetation ¹ (Explain) 5. Rubus strigosa 2 No FAC 1 ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 6. Plantago major 2 No FACU Definitions of Vegetation Strata: 7.		10	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation				
2. Poa pratensis 10 Yes FACU 4. Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) 3. Rumex crispus 10 Yes FAC 4. Medicago lupulina 25 Yes FACU 5. Rubus strigosa 2 No FAC 6. Plantago major 2 No FACU 7.	Herb Stratum (Plot size: 5)				X 2 - Dominance Test is >50%				
3. Rumex crispus 10 Yes FAC 4. Medicago lupulina 25 Yes FACU 5. Rubus strigosa 2 No FAC 6. Plantago major 2 No FACU 7. Definitions of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 8.	1. Phalaris arundinacea	10	Yes	FACW	3 - Prevalence Index is ≤3.0 ¹				
3. Admex Crispus 10 Tes PAC 4. Medicago lupulina 25 Yes FACU Problematic Hydrophytic Vegetation ¹ (Explain) 5. Rubus strigosa 2 No FAC 1ndicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 6. Plantago major 2 No FAC Problematic Hydrophytic Vegetation ¹ (Explain) 7.	2. Poa pratensis	10	Yes	FACU	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)				
5. Rubus strigosa 2 No FAC Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 6. Plantago major 2 No FACU Definitions of Vegetation Strata: 7.	3. Rumex crispus	10	Yes	FAC					
6. Plantago major 2 No FACU Tradicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 7.	4. Medicago lupulina	25	Yes	FACU					
6. Plantago major 2 No FACU be present, unless disturbed or problematic. 7.	5. Rubus strigosa	2	No	FAC					
8.	6. Plantago major	2	No	FACU					
9.	7				Definitions of Vegetation Strata:				
10.	8								
11.	9								
12.	10				Sapling/shrub – Woody plants less than 3 in. DBH				
Woody Vine Stratum (Plot size: n/a) 1.	11		·		and greater than or equal to 3.28 ft (1 m) tall.				
Woody Vine Stratum (Plot size: n/a Woody vines greater than 3.28 ft in height. 1.	12				Herb – All herbaceous (non-woody) plants, regardless				
1.		59	=Total Cover		of size, and woody plants less than 3.28 ft tall.				
1. height. 2.	Woody Vine Stratum (Plot size: n/a)				Woody vines – All woody vines greater than 3.28 ft in				
3.	1								
3.	2								
4 Present? Yes No _X	3								
	4.				-				
Remarks: (Include photo numbers here or on a separate sheet.)			=Total Cover						
	Remarks: (Include photo numbers here or on a separ	ate sheet.)							
Although the vegetation passes dominance test for hydrophytic vegetation it does not meet the criteria due to failing the prevalence index paramater. Additionally, the vegetation has been categorized as significantly disturbed through regular alteration by maintaining the area as a lawn.									

Profile Desc	ription: (Describe	to the de	oth needed to docu	ument t	he indica	ator or co	onfirm the absence of inc	dicators.)		
Depth	Matrix			x Featur						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-3	10YR 2/2	100					Loamy/Clayey	Silty loam w/ org		
3-14	10YR 5/3	100					Loamy/Clayey	Silty loam		
14-20	10YR 5/3	90	10YR 4/2	10	C	М	Loamy/Clayey	Faint redox concentrations		
. <u> </u>										
¹ Type: C=Co	¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.									
Hydric Soil I								roblematic Hydric Soils ³ :		
Histosol			Polyvalue Belo		ce (S8) (LRR R,		A10) (LRR K, L, MLRA 149B)		
Black His	bipedon (A2)		MLRA 149B Thin Dark Surf	,		MIDA		e Redox (A16) (LRR K, L, R) Peat or Peat (S3) (LRR K, L, R)		
	()									
Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L)					Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R)					
Depleted Below Dark Surface (A11)										
Thick Da	ark Surface (A12)	. ,	Depleted Matri					oodplain Soils (F19) (MLRA 149B)		
Sandy M	ucky Mineral (S1) Redox Dark Surface (F6)				Mesic Spodic (TA6) (MLRA 144A, 145, 149B)					
Sandy G	Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7)				Red Parent Material (F21)					
	Sandy Redox (S5) Redox Depressions (F8)				Very Shallow Dark Surface (F22)					
	Stripped Matrix (S6)Marl (F10) (LRR K, L)					Other (Expla	in in Remarks)			
Dark Surface (S7)										
³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.										
Restrictive L	Layer (if observed):									
Type:										
Depth (ir	nches):						Hydric Soil Present?	Yes <u>No X</u>		
Remarks:										
	m is revised from No 2015 Errata. (http://v							Field Indicators of Hydric Soils,		
	2013 Litata. (http://w	///////////////////////////////////////				3/11/514	2p2_031293.000x)			

Veterans Park Campground

APPENDIX D

Photo Documentation







Photo 1 – Wetland A from eastern end facing west



Photo 2 – Wetland A from center facing east



Wetland Delineation Photos



Photo 3 – Wetland B from northern boundary facing south - east end of project area Note: E Lakeview St in background



Photo 4 – Wetland B from northern boundary facing south – western side of project area



Wetland Delineation Photos



Photo 5 – Topsoil scraped central campsites and road (under fill material) from southeast of Project Area facing northwest



Photo 6 – Topsoil scraped east central campsites and road (under fill material) from southeast of Project Area facing north

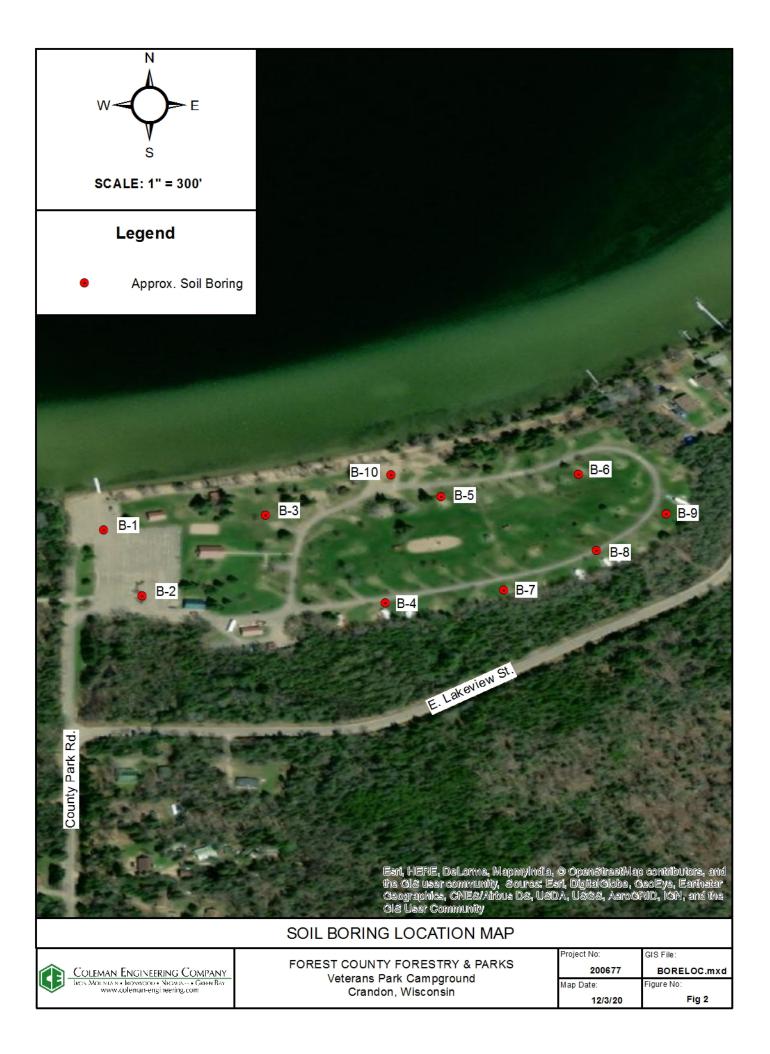


Veterans Park Campground

APPENDIX E

CEC Boring Map & Logs







	JOB NO.: 200677.GPJ ROJECT: Veterans Park Campground BORING NO.: B-1 .IENT: Forest County Forestry & Parks 1 OF 1												
								BORING NO.:			4		
					ed by GPS (45.52155233° N., -88.9021653	37° W) -	See soil	boring location dwg					
	YPE: <u>Geo</u>							CREW: <u>W. Lake</u>		v			
					5.0' Macrocore			BORING	DEPT	TH: _	10.0		
DATE	STARTED:	11/	25/2	20	DATE COMPLETED: <u>11/25/20</u>	REVIEWE	D BY: <u>E</u>	. Shepeck	DAT	E: _1	12/4/2	20	
HOLE		Ber	ntor	nite Cl	nips and Asphalt Patch								
	SAMPLE			F		LE SLE	Ē			TES	r RES	SULT	S
NUMBER	SPT VALUES BLOWS/6"(N)	RECOVERY	LEGEND	DEPTH (FT)	SOIL DESCRIPTION	WATER TABLE	ELEV. (FT)	COMMENTS	+4 -4 -200	MOISTURE CONTENT (%)	LL PL	T (tsf)	q _a (tsf) q _u (tsf)
1		3.9		- 0 -	ASPHALT PAVEMENT - 2.4"	0.2'							
			Μ	- 1 - - 2 - - 3 -	AGGREGATE BASE COURSE - 12" (PT) <u>SANDY PEAT</u> , black, amorphous, with 1/2 1/4" thick partially decomposed wood fragments wet (Swamp Deposits) ± (SP) <u>POORLY GRADED SAND</u> , brown, fine to coarse, silty from ± 2.4' to ± 3.5' and from ± 7.2' ± 7.7', with gravel from ± 6.2' to ± 9.1', wet	1.2' " to s, = 1.7'		Driller's note: Samples wet 1.2' to 10.0'	-				
				- 4 -					-				
2		4.6		- 5 -					-				
			Μ	- 6 - - 7 - - 8 -					-				
				- 9 -					-				
				-10-	(Lacustrine)	10.0'_			- !				
				- 11 -									
				- 12 -					-				
				- 13 - - 14 -					-				
				-15-					-				
				- 16 -					 -				
				- 17 -					-				
				- 18 -					-				
B -BS	Image: AS-Auger Sample M-MC-Macrocore Image: SS-3" Split Spoon Image: While drilling 3.0 Image: SS-3" Split Spoon Image: SS-3" Split Split Split Split Split Split Split Split Spli										0.:		



I

	JOB NO.: 200677.GPJ PROJECT: Veterans Park Campground BORING NO.: B-2 CLIENT: Forest County Forestry & Parks 1 OF 1													
								BORING NO.:			1			
					ed by GPS (45.52099042° N., -88.90183739° V	V) -	See soil	boring location dwg		-				
	YPE: Geo							CREW: W. Lake		•				
		•			5.0' Macrocore			BORING		TH:	10.0			
					DATE COMPLETED: <u>11/25/20</u> REVI	EWE	D BY: E	. Shepeck	_ DAT	re: _	12/4/2	20		
HOLE	CLOSURE:	Bei	ntor	nite Cl	nips and Asphalt Patch									
	SAMPLE		-	6		Щ	_			TES	T RE	SULT	S	
NUMBER	SPT VALUES BLOWS/6"(N)	RECOVERY	LEGEND	DEPTH (FT)	SOIL DESCRIPTION	WATER TABLE	ELEV. (FT)	COMMENTS	+4 -4 -200	MOISTURE CONTENT (%)	LL PL	T (tsf)	Q _a (tsf) Q _U (tsf)	
1		2.7	\square	- 0 -	ASPHALT PAVEMENT - 3.6" 0.3'	-			T					
				- 1 -	AGGREGATE BASE COURSE - 14.4"		-	-	-					
			Μ	- 2 -	$ \begin{array}{c} 1.5'\\ (\text{PT}) \underline{\text{PEAT WITH SAND}}, \text{ brownish black to black,}\\ \text{amorphous, with thin (1 to 4 mm) partially}\\ \text{decomposed wood fragments, wet}\\ (\underline{\text{Swamp Deposits}}) & \pm 2.4'\\ (SP) \underline{\text{POORLY GRADED SAND}}, \text{brown, fine to}\\ \text{coarse, silty from } \pm 5.6' \text{ to } \pm 6.1', \text{ with gravel from } \pm 5.5' \text{ to } \pm 6.8', \text{ black peat layer from } \pm 6.8' \text{ to } \pm 7.1', \text{ wet} \end{array} $		-	Driller's note: Samples wet 1.5' to - 10.0'	-					
				- 4 -			-	-	-					
2		4.2		- 5 -				_	-					
2		4.2		- 6 -										
				0										
				- 7 -	(Lacustrine) ± 7.5'		-	-	-					
			^	- 8 -	(PT) <u>PEAT</u> , black, amorphous, with 1/4" to 1/8" thick partially decomposed wood fragments, wet		-		_					
				- 9 -	$\begin{array}{l} (Swamp Deposits) & \pm 8.4'\\ (SP) \underline{POORLY \ GRADED \ SAND}, \ brown, \ silty \ from \ \pm \\ 8.4' \ to \ \pm \ 8.9', \ some \ gravel, \ wet \end{array}$	-	-	-	-					
				-10-	(Lacustrine) 10.0'		Ļ .	-	_					
					End of Boring									
				- 11 -			-	-	-					
				- 12 -			-	-	-					
				- 13 -			-	-	-					
				- 14 -			-	-	-					
				-15-				-	-					
				- 16 -			-	-	-					
				- 17 -			-	-	-					
				- 18 -			-	_						
				- 19 -			-	-						
B -B	S-Auger Sample S-Bag Sample C-Rock-Core		-M □-M □-P (-25	C-Macro S-Piston SS-2'' Sp	core			⊥ after hou	Jrs	B	BORII -2	NG N	0.:	



	JOB NO.: 200677.GPJ OJECT: Veterans Park Campground BORING NO.: B-3													
									BORING NO.:			-		
	IT: Forest					70000 \	、	C aa aaii	hering leasting dur		OF			
	YPE: <u>Geo</u>				ed by GPS (45.52168253° N., -88.9007				CREW: W. Lake	_ ELE	V.: _			—
					5.0' Macrocore		-		BORING	DEP	г н	10 0		
					DATE COMPLETED: <u>11/25/20</u>	REVIE	NE	D BY: E.			_			
	CLOSURE:					•				-				
	SAMPLE		_			1	щ				TES	T RES	SULT	S
NUMBER	SPT VALUES BLOWS/6"(N)	RECOVERY	LEGEND	DEPTH (FT)	SOIL DESCRIPTION		WATER TABLE	ELEV. (FT)	COMMENTS	+4 -4 -200	MOISTURE CONTENT (%)	LL PL	T (tsf)	Q _a (tsf) Q _U (tsf)
1		3.6		- 0 -	TOPSOIL - 4.8"	0.4'7				-				
			Μ	- 1 - - 2 - - 3 - - 4 -	1 (PT) <u>PEAT</u> , black, amorphous, with thin (1 mm) partially decomposed wood fragments, (Swamp Deposits) (SP) <u>POORLY GRADED SAND</u> , brown, fine coarse, some gravel, black peat layer from : 6.8', wet	, wet <u>± 0.7</u>	Ţ. Ţ		Driller's note: Samples wet 0.5' to 10.0'	-				
				- 5 -						F				
2		4.8		- 6 -						-				
			М	- 8 - - 9 -	(Lacustrine) (PT) <u>PEAT</u> , black, amorphous, with thin (1 t mm) partially decomposed wood fragments, (Swamp Deposits) (SP) <u>POORLY GRADED SAND</u> , brown, fine coarse, some gravel, wet	, wet ± 8.3' _				-				
				-10-	(Lacustrine)	10.0'	ļ			-				
					End of Boring									
				- 11 -						-				
				- 12 -						-				
				- 13 -						-				
				- 14 -						-				
				- 15-										
				- 17 -						_				
				- 18 -						-				
				- 19 -						-				
🗟 -в	S-Auger Sample S-Bag Sample C-Rock-Core	Ē]-P	C-Macro S-Piston	Tube 🛛 2ST-2" Shelby Tube	hile drillir ter drillin			⊥ after hou	urs	E B·	BORII -3	IG N	0.:



	JOB NO.: 200677.GPJ PROJECT: Veterans Park Campground BORING NO.: B-4 CLIENT: Forest County Forestry & Parks 1 OF 1													
									BORING NO.:			4		
					ed by GPS (45.52092933° N., -88.8	9975240° W	·) -	See soil	boring location dwg	-		-		
	YPE: Geo								CREW: W. Lake		v			
		-			5.0' Macrocore				BORING	DEP	ГН: _	10.0		
DATE	STARTED:	11/	25/2	20	DATE COMPLETED: 11/25/20	REVIE	WE	D BY: <u>E</u>	. Shepeck	_ DA	ГE: _	12/4/2	20	
HOLE	CLOSURE:	Ber	ntor	nite Cl	nips									
	SAMPLE			(FT)			Ш	Ē			TES	T RE	SULT	S
NUMBER	SPT VALUES BLOWS/6"(N)	RECOVERY	LEGEND	DEPTH	SOIL DESCRIPTIO	N	WATER TABLE	ELEV. (FT)	COMMENTS	+4 -4 -200	MOISTURE CONTENT (%)	LL PL	T (tsf)	Q _a (tsf) Q _U (tsf)
1		3.5		- 0 -	TOPSOIL - 2.4" (SP) POORLY GRADED SAND WITH brown, fine to coarse, silty from 0.2' to :	0.2'/ <u>GRAVEL</u> , ± 0.5', moist	Ţ			-				
	$ \begin{array}{ c c c c c c } \hline & 2 & - & (Lacustrine) & \pm 2.1' & - & - & - \\ \hline & (PT) \underbrace{PEAT,}_{(PT) artially decomposed wood fragments, wet \\ & & & & & & \\ & & & & & & \\ & & & & $													
2 4.1 5 - 6 - 4 - (SP) <u>POORLY GRADED SAND</u> , brown, tine to (Carse, wet <u>± 3.1'</u> (PT) <u>PEAT</u> , black to dark brown, amorphous, with 1/2" to 1/8" partially decomposed wood fragments, fine to coarse sand layers from ± 5.8' to ± 6.0' and from ± 8.0' to ± 8.2', sandy from ± 8.6' to 10.0', wet -														
2		4.1		- 6 -						-				
				- 7 -					-	-				
				- 9 - 	(Swamp Deposits)	10.0'_				-				
				- 11 -	End of Boring					-				
				- 12 -						-				
				- 13 -						-				
				- 14 -						-				
				-15-						-				
				- 16 -						-				
				- 17 -						ŀ				
				- 18 -						ŀ				
				- 19 -						ŀ				
Image: Image									BORII -4	NG N	0.:			



	JOB NO.: 200677.GPJ ROJECT: Veterans Park Campground BORING NO.: B-5												
	PROJECT: Veterans Park Campground BORING NO.: B-5 CLIENT: Forest County Forestry & Parks 1 OF 1												
	-						•			-			
	NG LOCATIO YPE: <u>Geo</u>				ed by GPS (45.52183911° N., -88.89927597° V			CREW: W. Lake	_ ELEV	'.: _			
					5.0' Macrocore		DRILL	BORING		J. 1	10.0		
					DATE COMPLETED: <u>11/25/20</u> REVI	EWE	DBY: E						
	CLOSURE:											-	
	SAMPLE					щ			ד	TEST		ULT	S
NUMBER	SPT VALUES BLOWS/6"(N)	RECOVERY	LEGEND	DEPTH (FT)	SOIL DESCRIPTION	WATER TABLE	ELEV. (FT)	COMMENTS	+4 -4 -200	MOISTURE CONTENT (%)	LL PL	T (tsf)	Q _a (tsf) Q _u (tsf)
1		3.4		- 0 -	TOPSOIL - 1.2" 0.1/		- ·						
				- 1 -	(POSSIBLE FILL) <u>SILTY SAND WITH GRAVEL</u> , brown, fine to coarse, moist		-	-	-				
			M	- 2 - - 3 - - 4 -	$\begin{array}{c} \pm 0.5'\\ (\text{SP) POORLY GRADED SAND WITH GRAVEL,}\\ \text{brown, fine to coarse, silty from \pm 0.5' to \pm 0.8',}\\ \text{occasional 1/4" thick black peat layers, moist}\\ (Lacustrine) \pm 1.8''\\ (\text{PT) SANDY PEAT, black, amorphous, trace thin (1 to 3 mm) partially decomposed wood fragments, wet}\\ (Swamp Deposits) \pm 2.3''\\ \end{array}$		-	- Driller's note: Samples wet 1.8' to 10.0'	-				
					(SP) <u>POORLY GRADED SAND</u> , brown, fine to coarse, silty from \pm 5.5' to \pm 5.9', with gravel from \pm 9.4' to 10.0', wet								
2		4.7		- 5 -	9.4 10 10.0, wei			-	-				
				- 6 -			-	-	-				
				- 7 -			-	-	-				
				- 8 -			-	-	-				
				- 9 -			-	-	-				
				-10-	(Lacustrine) 10.0 End of Boring			-	-				
				- 11 -			-	-	-				
				- 12 -			-	-	-				
				- 13 -			-	-	-				
				- 14 -			-	-	-				
				-15-				-	-				
				- 16 -			-	-	-				
				- 17 -			-	-					
				- 18 -			-	-					
				- 19 -			ŀ	-					
B -B	L S-Auger Sample S-Bag Sample C-Rock-Core	E] -₽	└─20 ─ C-Macro S-Piston SS-2" Sr				⊥ after hou	irs	B-	BORIN -5	IG N	0.:



	JOB NO.: 200677.GPJ PROJECT: Veterans Park Campground BORING NO.: B-6 CLIENT: Forest County Forestry & Parks 1 OF 1												
								BORING NO.:		6 OF	4		
					ury & Parks ed by GPS (45.52203156° N., -88.89809321° V	v) _	Soo soil	boring location dwg		-			
	YPE: Geo							CREW: _W. Lake		v			
		-			5.0' Macrocore			BORING	DEP.	TH:	10.0		
					DATE COMPLETED: <u>11/25/20</u> REVI	EWE	D BY: <u>E</u>	. Shepeck	_ DA	TE:	12/4/2	20	
HOLE	CLOSURE:	Ber	ntor	nite Cl	hips		-						
	SAMPLE		-	Ē		Щ	6			TES	T RE	SULT	S
NUMBER	SPT VALUES BLOWS/6"(N)	RECOVERY	LEGEND	DEPTH (FT)	SOIL DESCRIPTION	WATER TABLE	ELEV. (FT)	COMMENTS	+4 -4 -200	MOISTURE CONTENT (%)	LL PL	T (tsf)	Q _a (tsf) Q _U (tsf)
1		2.6		- 0 -	TOPSOIL - 6" 0.5',				<u>†</u>				
				- 1 -	(SM) <u>SILTY SAND</u> , brown, fine to medium, some	Ţ		Driller's note: Samples wet 1.0' to	-				
					(Lacustrine) ± 1.2'/ (SP) POORLY GRADED SAND, brown, fine to	₽		10.0'					
				- 2 -	coarse, some fine gravel, 1" to $3/4$ " thick dark brown peat layers at ± 2.3 ' and ± 2.6 ', wet				-				
			*	- 3 -					Ļ				
				- 4 -					F				
				- 5 -	(Lacustrine) ± 5.2'				Ļ				
2		4.3			(PT) <u>PEAT</u> , black to dark brown, amorphous to fibrous with 1/2" to 1/8" partially decomposed wood	1							
				- 6 -	fragments, fine to medium sand layer from \pm 6.5' to \pm 6.8' and from \pm 7.2' to \pm 7.3', wet				-				
				- 7 -					-				
			M										
				- 8 -					F				
				- 9 -									
				-									
				-10-	(Swamp Deposits) 10.0' End of Boring				ŀ				
				- 11 -					_				
				- 12 -					F				
				- 13 -									
				-									
				- 14 -					F				
				-15-									
				-									
				- 16 -					-				
				- 17 -					Ļ				
				- 18 -					-				
				- 19 -									
-AS	S-Auger Sample		<u> </u> _м	C-Macro	 pcore	ina	∟ 1.0	∣	⊥ urs	F	BORII		0.:
B -B	S-Bag Sample C-Rock-Core	F	⊇- P \$	S-Piston	n Tube 2ST-2" Shelby Tube Dilt Spoon 7-3ST-3" Shelby Tube ▼ after drilli			÷			-6		



	JOB NO.: 200677.GPJ PROJECT: Veterans Park Campground BORING NO.: B-7 CLIENT: Forest County Forestry & Parks 1 OF 1												
								BORING NO.:			4		
					ed by GPS (45.52103709° N., -88.89873715° N	N) -	See soil	boring location dwg					
	YPE: <u>Geo</u>							CREW: _W. Lake		v			
					5.0' Macrocore			BORING		ГН: _	10.0		
					DATE COMPLETED: <u>11/25/20</u> REVI	EWE	D BY: <u>E</u>	. Shepeck	DA	ГЕ: _	12/4/2	20	
HOLE	CLOSURE:	Bei	ntor	nite Cl	nips		-						
	SAMPLE		<u> </u>	Т)		Щ	6			TES	T RE	SULT	S
NUMBER	SPT VALUES BLOWS/6"(N)	RECOVERY	LEGEND	рертн (FT)	SOIL DESCRIPTION	WATER TABLE	ELEV. (FT)	COMMENTS	+4 -4 -200	MOISTURE CONTENT (%)	LL PL	T (tsf)	Q _a (tsf) Q _U (tsf)
1		3.1		- 0 -	TOPSOIL - 6" 0.5',								
				- 1 -	(SM) <u>SILTY SAND</u> , brown to grayish brown, fine to coarse, some fine gravel, moist			-	-				
					(Lacustrine) ± 2.0'			Driller's note: Samples wet 1.7' to					
				- 2 -	(PT) <u>PEAT</u> , black to dark brown, amorphous, with thin (1 to 4 mm) partially decomposed wood			10.0'	-				
				- 3 -	fragments, wet (Swamp Deposits) ± 2.7'	Į₹			-				
(SC) <u>CLAYEY SAND</u> , brownish gray to brown, fine to medium, wet													
				- 4 -									
2		4.8		- 5 -					ŀ				
_		4.0		0	(Lacustrine) ± 5.9'								
				- 6 -	(SP) <u>POORLY GRADED SAND</u> , brown, fine to medium, trace coarse sand and fine gravel, wet				-				
			М	- 7 -				-	-				
				- 8 -					-				
				•									
				- 9 -									
				-10-	(Lacustrine) 10.0'			-	ŀ				
				11	End of Boring								
				- 11 -									
				- 12 -				_	-				
				- 13 -				-	-				
				- 14 -					-				
				-15-									
				- 16 -			- ·		F				
				- 17 -					F				
				- 18 -					-				
				- 19 -				-	-				
				-20- C-Macro			L.		L				
B -B	S-Auger Sample S-Bag Sample C-Rock-Core	E	⊇-P	S-Piston	ocore			⊥ after hou	ırs	B	BORII -7	NG N	0.:



	JOB NO.: 200677.GPJ DJECT: Veterans Park Campground BORING NO.: B-8 ENT: Forest County Forestry & Parks 1 OF 1													
									BORING NO.:			1		
					ed by GPS (45.52137723° N., -88.897	794209 W.	.) - (See soil b	poring location dwg		-			
	YPE: <u>Geo</u>								CREW: <u>W. Lake</u>					
DRILL	ING METHO	DD: <u>2</u>	<u>2" C</u>).D. x	5.0' Macrocore				BORING	DEP	ГН: _	10.0		
DATE	STARTED:	11/:	25/2	20	DATE COMPLETED: 11/25/20	REVIE	WE	D BY: <u>E</u> .	Shepeck	_ DA	ГЕ: <u>_</u>	12/4/2	20	
HOLE	CLOSURE:	Bei	ntor	nite Cl	nips				İ					
				f.			BLE	F				T RES		8
NUMBER	SPT VALUES BLOWS/6"(N)	RECOVERY	LEGEND	DEPTH (FT)	SOIL DESCRIPTION		WATER TABLE	ELEV. (FT)	COMMENTS	+4 -4 -200	MOISTURE CONTENT (%)	LL PL	T (tsf)	q _a (tsf) q _u (tsf)
1		3.0		- 0 -	TOPSOIL - 1.2"	0.1'				T				
				- 1 -	(POSSIBLE FILL) POORLY GRADED SA					-				
					(PT) <u>PEAT,</u> black, amorphous, with 1/2" to	± 1.2' o 1/8"			Driller's note: Samples wet 1.4' to 10.0'					
			M	- 2 -	thick partially decomposed wood fragment (Swamp Deposits)	± 1.4				Ī				
				- 3 -	(SC) <u>CLAYEY SAND</u> , gray to brown, fine t medium, trace fine gravel, wet	to	Ţ			-				
				4			_							
				- 4 -						_				
2		4.3		- 5 -	(Lacustrine) (SM) SILTY SAND, brown, fine to coarse,	± 5.0' some				-				
				- 6 -	gravel, wet									
				0										
				- 7 -	(Lacustrine)	± 7.5'_				-				
				- 8 -	(SP) <u>POORLY GRADED SAND</u> , brown, fil coarse, wet	ne to								
				0										
				- 9 -						-				
				-10-	(Lacustrine)	10.0'_				-				
					End of Boring									
				- 11 -						-				
				- 12 -						-				
				- 13 -						-				
				- 14 -						-				
				45										
				-15-						[
				- 16 -						-				
				- 17 -				_						
				17 -				-						
				- 18 -						-				
				- 19 -										
	S-Auger Sample			-20- C-Macro		while drill	ing	∟ _ 3.0	∣ ⊈ after hou	urs	E	BORII	IG NO	0.:
	S-Bag Sample C-Rock-Core			S-Piston SS-2" Sr	Tube	after drilli					В			



	JOB NO.: 200677.GPJ PROJECT: Veterans Park Campground BORING NO.: B-9 CLIENT: Forest County Forestry & Parks 1 OF 1													
								BORING NU.:			1			
					ed by GPS (45.52168947° N., -88.89734378 W	.) -	See soil l	boring location dwg						
	YPE: <u>Geo</u>							CREW: <u>W. Lake</u>					_	
DRILL	ING METHO	DD: 2	2" C).D. x	5.0' Macrocore			BORING	DEP	гн: _	10.0			
DATE	STARTED:	11/	25/2	20	DATE COMPLETED: <u>11/25/20</u> REVI	EWE	D BY: <u>E</u>	. Shepeck	DA	ΓE: _	12/4/2	20		
HOLE	CLOSURE:	Bei	ntor	nite Cl	hips			1						
				(FT)		ЯĽЕ	F				T RE	SULT	S	
NUMBER	SPT VALUES BLOWS/6"(N)	RECOVERY	LEGEND	DEPTH (F	SOIL DESCRIPTION	WATER TABLE	ELEV. (FT)	COMMENTS	+4 -4 -200	MOISTURE CONTENT (%)	LL PL	T (tsf)	Q _a (tsf) Q _U (tsf)	
1		3.4		- 0 -	(POSSIBLE FILL) <u>POORLY GRADED SAND WITH</u> <u>GRAVEL</u> , brown, fine to coarse, moist									
				- 1 -	(PT) <u>PEAT</u> , black, amorphous, with thin (1 to 4 mm) partially decomposed wood fragments, wet	-		Driller's note: Samples wet 1.3' to 10.0'	-					
			Μ	- 2 -	(Swamp Deposits) ± 1.6' (CL) <u>SANDY LEAN CLAY</u> , gray to orangish brown, wet				-					
$\begin{bmatrix} -3 \\ (SP) \underline{POORLY GRADED SAND}, \text{ brown, fine to} \\ coarse, some gravel, wet \\ \end{bmatrix}$														
				- 5 -		Ţ	L -		_					
2		4.5		- 6 -					_					
				- 7 -					-					
			Μ	- 8 -				-	-					
				- 9 -					-					
				-10-	(Lacustrine) 10.0' End of Boring	-			-					
				- 11 -				_	-					
				- 12 -					-					
				- 13 -					-					
				- 14 - 										
				- 16 -					_					
				- 17 -					-					
				- 18 -					-					
				- 19 -					-					
Image: As-Auger Sample 20 B-AS-Auger Sample 20 B-BS-Bag Sample P-S-Piston Tube Image: As-Auger Sample 2-3SS-3" Split Spoon Image: As-Auger Sample P-S-Piston Tube Image: As-Auger Sample<										NG N	0.:			



	JOB NO.: 200677.GPJ DJECT: Veterans Park Campground BORING NO.: B-10 ENT: Forest County Forestry & Parks 1 OF 1													
									BORING NO.:					
						00 00070260 W/	\ (Soo ooil k	poring location dwg					
	YPE: <u>Geo</u>								CREW: <u>W. Lake</u>	ELE	v.: _			—
		-			5.0' Macrocore		_	DIVICE	BORING	DEPT	TH: ^	10.0		
						20 REVIE	WE	D BY: E.	Shepeck					
	CLOSURE:								-					
	SAMPLE		_	-			щ	•			TES	T RES	SULT	S
NUMBER	SPT VALUES BLOWS/6"(N)	RECOVERY	LEGEND	DEPTH (FT)	SOIL DESCRIPT	ION	WATER TABLE	ELEV. (FT)	COMMENTS	+4 -4 -200	MOISTURE CONTENT (%)	LL PL	T (tsf)	q _a (tsf) q _u (tsf)
1		2.6		- 0 -	TOPSOIL - 2.4"	0.2'				-				
				- 1 -	(POSSIBLE FILL) <u>SILTY SAND WI</u> brown, fine to medium, moist					-				
			M	- 2 -	(SP) <u>POORLY GRADED SAND WI</u> brown, fine to coarse, 1" thick sand 1.4', sandy gravel layer from ± 8.4' t	v peat layer at ±			Driller's note: Samples wet 1.4' to 10.0'	-				
				- 3 -						-				
				- 4 -			Ţ			-				
2		3.9		- 5 -						-				
-		0.0		- 6 -						_				
			М	- 7 -						-				
				- 8 -						-				
				- 9 -	(Lacustrine)	10.0'				-				
				-10-	End of Boring					-				
				- 11 -						-				
				- 12 -						_				
										_				
										_				
				-15-										
				- 16 -						-				
				- 17 -						-				
				- 18 -						-				
				- 19 -						-				
	Auges 2		<u> </u>	-20- C-Macro										
В-в	S-Auger Sample S-Bag Sample C-Rock-Core	F) -P	S-Piston	bcore -3SS-3" Split Spoon Tube -2ST-2" Shelby Tube blit Spoon -3ST-3" Shelby Tube	 			⊥ after hou	rs		BORIN -10	NG NO	0.: