APPENDIX D

100 Camelot Drive • Fond du Lac, WI 54935 • 920.926.9800 office • 920.926.9801 fax
www.excelengineer.com

EXCEL ENGINEERING
P: 920|926|9800 • F: 920|926|9801
100 Camelot Drive • Fond du Lac, WI 54935
www.excelengineer.com

WETLAND DELINEATION REPORT

→ **Matt Talbot CBRF Franklin**
Franklin, WI

Property is 15.5 acres and a part of Section 21, T 5N. – R. 21E., City of Franklin, Milwaukee County, Wisconsin.

Tax PIN # = 886-9987-000 located on the west side of St. Martins Road (Hwy 100) and south of the intersection of St. Martins Road and Ninety Second Street, City of Franklin, Milwaukee County, Wisconsin.

January 30, 2015

Prepared For:
Matt Talbot Recovery Services, Inc.
President: Karl Rajani
4650 S. Howell Ave.
Milwaukee, WI 53207

Prepared By:
Grant Duchac

Excel Engineering, Inc.
100 Camelot Drive
Fond du Lac, WI 54935

EXCEL PROJECT # 1420700

Table of Contents

Appendix/Figures

1. Introduction:

Excel Engineering, Inc. has completed a wetland determination and delineation, at the request of Matt Talbot Recovery Systems, for property located on St. Martins Rd (Hwy 100) and 92nd Street, Franklin Wisconsin. The purpose of this wetland evaluation is to determine the extent of wetlands on the property by establishing the boundaries and location of wetland area(s) at this location. This is motivated by the potential development on the site.

The property area studied contains approximately 15.5 acres. The existing property is currently vacant and densely vegetated with brush and some wooded areas. The remainder of the site contains some open wetland areas. Vacant and possible agricultural uses many years ago appear to have been the historic use of the property.

2. Methodology:

The wetland was determined according to methodology defined in the USACE Wetland Delineation Methodology, published in 1987 (1987 Manual), and the Basic Guide to Wisconsin's Wetlands and Their Boundaries, published by the Wisconsin Dept. of Administration, Coastal Management Program. Additionally, supporting documentation issued by the USACE for clarification of their delineation methods has been used, as well. The Midwest Regional Supplement from the USACE was followed for this location.

Additional supporting information reviewed and utilized included data obtained from the Milwaukee County Geographic Information System (GIS) interactive website, Wisconsin Department of Natural Resources Surface Water Data Viewer Inventory, U.S. Department of Agriculture (USDA) Web Soil Survey, and available aerial photography coverage.

The U. S. Army Corps of Engineers and U.S. Environmental Protection Agency define a wetland as:

> "*Those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.*"

Wetlands are defined by the State Legislature in Wisconsin. According to this definition, a wetland is:

> "*An area where water is at, near, or above the land surface long enough to be capable of supporting aquatic or hydrophytic (water-loving) vegetation and which has soils indicative of wet conditions.*"

The Routine Method of delineation was used, based on the existing site conditions. The property appears to be in its natural state without human alteration with exception to possible alteration associated with adjacent road improvements. Available aerial photography shows the site back to 1937 and current aerial photos

show the current state of the site. (See Appendix C for historic aerial photos and Figure 5 & 6 for current aerials)

The sampling methodology used to determine the wetland boundary was to establish linear transects between different habitat types or apparent changes in soil conditions, and then place sampling points along the transect. At each sample point, a soil boring is made (to a minimum depth of 18/24 inches); and the soil, vegetation, and hydrology are examined.

According to the 1987 Army Corps of Engineers Manual, three requirements must be met before a sampling point is determined to be within a wetland. These are: **1)** hydrophytic vegetation must be dominant (unless the area is significantly disturbed), **2)** the soil must exhibit hydric characteristics, and **3)** the sample point's hydrology must meet wetland requirements. The Wetland Determination Field Data Forms completed during the field evaluation are included at the end of this report. (See Appendix A)

The on-site field work for this delineation was completed on October 21, 2014. The weather conditions were mostly cloudy with air temperature approximately 50 degrees F. The site wetland determination, the delineation fieldwork, wetland boundary location, and this report have been prepared by Grant Duchac, Civil Engineer with Excel Engineering, Inc. Mr. Duchac has a Bachelor of Science degree in Civil & Environmental Engineering from the University of Wisconsin-Madison, and completed the Basic Wetland Delineation Training class in July of 2010. Additionally, Mr. Duchac has completed various supplemental wetland trainings including hydric soils and wetland botany classes.

3. Site Description:

The overall property naturally drains from west to east/southeast with multiple low depressions within the site. The low depressions on site make up five (5) different wetland complexes. Regionally, drainage patterns flow southeast towards the Ryan Creek. The majority of the topography on the site appears to be natural and unchanged due to human alteration although the areas along the public right-of-way roads appear to have been altered in association with road improvements (construction). (See attached Figure 1 and Figure 2)

The wetland complexes on site are typically combination of wet meadow wetlands and shrub-carr wetlands. The majority of the site is heavily vegetated with some over story wooded areas although much of the site contains very thick buckthorn. The wetland depressional areas on site are typically more open than the thicker uplands. All wetland areas identified have been marked in the field with wetland boundary flags and the locations mapped by a surveyor. The extent of the Wetland delineation was limited to the existing subject 15.5 acre parcel of land. (See Wetland Location Map – Figure 1).

The NOAA online weather data for the Franklin area indicates the 30-year average precipitation for the three months (August, September, October) prior to the delineation is 9.80 inches. Actual precipitation for August, September, and October

was 9.64 inches (about average). The 30-year average precipitation for October is 2.65 inches. Precipitation for the 3 week period prior to the delineation was 2.62 inches. Long-term conditions experienced average precipitation and the period immediately preceding the delineation was right on average although the 2014 spring season experienced above average precipitation. Overall, precipitation in the 2014 growing season is about average.

3a) Soils:

The subject property contains the following mapped soil units, according to the Natural Resources Conservation Service (NRCS) Web Soil Survey for Milwaukee County, Wisconsin: Brookston silt loam, Ashkum silty clay loam, Blount silt loam, Elliott silt loam, Markham silt loam, and Morley silt loam (See the attached Milwaukee County Soil Survey Map – Figure 3).

3b) Presence of Mapped Wetlands:

The site does contain mapped wetland areas, per the Wisconsin Wetland Inventory Map (WWI Map). The site investigation revealed more wetland areas exist than what is mapped on the WWI map. The majority of wetlands on site are similar to the WWI map although the wetland areas are larger than what is mapped and more wetland complexes exist on site. (See the Wisconsin Wetland Inventory/Location/WDNR Surface Water Data Map – Figure 4)

The WWI map is drawn by the Department of Natural Resources from information obtained from aerial photography and is to be used as a reference tool only. Each wetland shown on the WWI map is given a classification symbol based on the type of habitat the wetland is comprised of.

3c) Presence of Identified Wetlands:

The field work and evaluation of the site revealed that wetlands exist on the property. These areas meet the established criteria for wetlands (See Wetland Location Map – Figure 1).

The field delineation included the evaluation of 14 sample data point locations, located along several transects throughout the site. USACE wetland determination data sheets were completed and are included at the end of this report (See Appendix A).

4. Wetland Discussion:

Wetland A

This Wetland area identified on the site (**0.06 acres**) is a wet meadow wetland complex with shrub/wooded characteristics. This wetland is a low depressional area along the east side of South 92nd Street. The western portion of the wetland is within the public right-of-way and the eastern portion (majority) is on the subject property.

Hydrology is primarily from surface water runoff to the low wetland area from S 92nd Street/ditch drainage and some higher lands to the north and east of the wetland. Surface water was not present in the wetland area at the time of the site investigation;

however the delineation was completed in the fall season so high water tables would not be expected. The primary hydrology indicator found at the time of the site investigation was saturation. Secondary indicators present at the site investigation include drainage patterns, geomorphic position, and positive FAC-neutral test. The transition from wetland to upland included a topographic break on all sides of the wetland. Additionally, soils and hydrology indicators diminished at the wetland boundary.

The soils evaluated within the Wetland were found to be hydric. The soil indicators present within the wetland complex were Redox Dark Surface. Redox high in the soil profile was observed in the wetland areas whereas redox was non-existent or low in the profile of the nearby dry, upland soils.

Hydrophytic vegetation was dominant within the wetland area. The dominant herbaceous species present in the wetland was red osier dogwood, *(cornus alba, FacW*), reed canary grass *(phalaris arundinacea, FacW)*, and sedges *(carex sp., FacW).*

The percent dominance by invasive species within the area of the Wetland on the subject property is not sufficient to categorize this portion of the wetland area as "less-susceptible" wetlands, per classification guidelines in chapter NR151 of Wisconsin Administrative Code. The wetland would likely be characterized as "moderately susceptible".

Wetland B

This Wetland area identified on the site (**0.06 acres**) is a shrub/wooded wetland. This wetland is a low depressional area along southern boundary of the site. The wetland is densely vegetated without wet meadow characteristics.

Hydrology is primarily from surface water runoff to the low wetland area from higher lands to the north of the wetland. Surface water was not present in the wetland area at the time of the site investigation although a high water table was encountered. The primary hydrology indicators found at the time of the site investigation was saturation and high water table. Secondary indicators present at the site investigation include drainage patterns, geomorphic position, and positive FAC-neutral test. The transition from wetland to upland included a topographic break on all sides of the wetland. Additionally, soils and hydrology indicators diminished at the wetland boundary.

The soils evaluated within the Wetland were found to be hydric. The soil indicators present within the wetland complex were Redox Dark Surface and Depleted Below Dark Surface. Redox high in the soil profile was observed in the wetland areas whereas redox was non-existent or low in the profile of the nearby dry, upland soils.

Hydrophytic vegetation was dominant within the wetland area. The dominant herbaceous species present in the wetland was red osier dogwood, *(cornus alba, FacW*), and green ash *(fraxinus pennsylvanica, FacW).*

The percent dominance by invasive species within the area of the Wetland on the subject property is not sufficient to categorize this portion of the wetland area as "less-susceptible" wetlands, per classification guidelines in chapter NR151 of

Wisconsin Administrative Code. The wetland would likely be characterized as "moderately susceptible".

Wetland C

This Wetland area identified on the site (**0.37 acres**) is a wet meadow wetland complex with some shrub/wooded characteristics. This wetland is a low depressional area in the southeast corner of the property. It appears the wetland complex gradually flows south onto the neighboring property. The middle of the wetland contained more open wetland areas whereas the perimeter was comprised of more wooded and shrubby wetland plant species.

Hydrology is primarily from surface water runoff to the low wetland area from higher lands to the north of the wetland. Surface water was present in portions of the wetland area at the time of the site investigation. The primary hydrology indicators found at the time of the site investigation were surface water, saturation, and high water table. Secondary indicators present at the site investigation include drainage patterns, geomorphic position, and positive FAC-neutral test. The transition from wetland to upland included a topographic break on all sides of the wetland. Additionally, soils and hydrology indicators diminished at the wetland boundary.

The soils evaluated within the Wetland were found to be hydric. The soil indicators present within the wetland complex were Redox Dark Surface and Loamy Mucky Mineral. Redox and muck high in the soil profile was observed in the wetland areas whereas redox was non-existent or low in the profile of the nearby dry, upland soils.

Hydrophytic vegetation was dominant within the wetland area. The dominant herbaceous species present in the wetland was red osier dogwood, *(cornus alba, FacW*), reed canary grass *(phalaris arundinacea, FacW)*, sedges *(carex sp., FacW), and* green ash *(fraxinus pennsylvanica, FacW).*

The percent dominance by invasive species within the area of the Wetland on the subject property is not sufficient to categorize this portion of the wetland area as "less-susceptible" wetlands, per classification guidelines in chapter NR151 of Wisconsin Administrative Code. The wetland would likely be characterized as "moderately susceptible".

Wetland D

This Wetland area identified on the site (**2.44 acres**) is a wet meadow wetland complex with some shrub/wooded characteristics. This wetland is a large low depressional area in the center of the property. The center of the wetland contained more open wetland areas with dense stands of cattails whereas the perimeter was comprised of more wooded and shrubby wetland plant species with transitional wet meadow plants.

Hydrology is primarily from surface water runoff to the low wetland area from higher lands surrounding the wetland. Surface water was present in portions of the wetland area at the time of the site investigation. The primary hydrology indicators found at the time of the site investigation were surface water, saturation, and high water table. Secondary indicators present at the site investigation include drainage patterns, geomorphic position, and positive FAC-neutral test. The transition from wetland to upland included a topographic break on all sides of the wetland. Additionally, soils

and hydrology indicators diminished at the wetland boundary and the more open wetland community transitioned into dense upland buckthorn stands.

The soils evaluated within the Wetland were found to be hydric. The soil indicators present within the wetland complex were Redox Dark Surface, Loamy Mucky Mineral, and Histisol. Redox and muck high in the soil profile was observed in the wetland areas whereas redox was non-existent or low in the profile of the nearby dry, upland soils.

Hydrophytic vegetation was dominant within the wetland area. The dominant herbaceous species present in the wetland was red osier dogwood, *(cornus alba, FacW*), reed canary grass *(phalaris arundinacea, FacW)*, narrow leaf cattails *(typha angustifolia., Obl), and* black willow *(salix nigra, Obl).*

The percent dominance by invasive species within the area of the Wetland on the subject property is likely sufficient to categorize this portion of the wetland area as "less-susceptible" wetlands, per classification guidelines in chapter NR151 of Wisconsin Administrative Code.

Wetland E

This Wetland area identified on the site (**0.05 acres**) is a shrub/wooded wetland. This wetland is a low drainage way in the northeast corner of the site. The wetland is surrounded with densely vegetated buckthorn although the wetland/drainage way was mostly open with no plants growing. The wetland appears to drain a wetland complex located on the neighboring property to the north of the subject site and flows southeast into a box culvert under St. Martin. Rd (Hwy 100).

Hydrology is primarily from surface water runoff to the low wetland area from neighboring wetlands to the north and higher lands to the west and east of the wetland. Surface water was present in the very low portions of the wetland area near the box culvert. The primary hydrology indicators found at the time of the site investigation were surface water, saturation, and high water table. Secondary indicators present at the site investigation include drainage patterns, geomorphic position, and positive FAC-neutral test. The transition from wetland to upland included a topographic break on all sides of the wetland. Additionally, soils and hydrology indicators diminished at the wetland boundary.

The soils evaluated within the Wetland were found to be hydric. The soil indicators present within the wetland complex were Redox Dark Surface. Redox high in the soil profile was observed in the wetland areas whereas redox was non-existent or low in the profile of the nearby dry, upland soils.

Hydrophytic vegetation was dominant within the wetland area. The dominant herbaceous species present in the wetland was green ash *(fraxinus pennsylvanica, FacW).*

The percent dominance by invasive species within the area of the Wetland on the subject property is not sufficient to categorize this portion of the wetland area as "less-susceptible" wetlands, per classification guidelines in chapter NR151 of

Wisconsin Administrative Code. The wetland would likely be characterized as "moderately susceptible".

5. Upland Discussion:

The uplands existing on the site are comprised densely wooded and brushy areas of the site. The upland areas on site generally slope towards the various wetland complexes within the site. The topography and soils on the site indicate the majority of the site has not been disturbed. Historic aerial photos indicate the site was vacant and mostly open in the 1930's and 1940's. After the construction of St. Martins Rd (Hwy 100) in the 1940's, the site transitioned into the current overgrown state of the property. The dominant herbaceous species for the majority of the upland areas was a variety of over story tree species with a heavy and thick buckthorn understory cover throughout the site. The uplands appeared to be well drained and able to sustain upland species. See Appendix A for detailed reports of upland plant species encountered during the site investigation as upland plant communities changed slightly throughout the site. All upland areas were dominated by dry soil profiles and defined soil breaks with much of the uplands existing in non-hydric soil areas.

6. Conclusion:

The jurisdiction for the majority of the Wetlands within this site will likely be with the USACE and the WDNR although some of the wetlands may be under the sole jurisdiction of the WDNR. The joint jurisdiction would be the case if the wetlands are linked to navigable surface water. A jurisdictional determination has not been completed for this project, so no official determination has been made.

The majority of wetlands in Wisconsin are viewed as 'waters of the United States' and are regulated by the U.S. Army Corps of Engineers, under authority from the Clean Water Act. Section 404 of the Clean Water Act protects non-isolated wetlands, or wetlands associated with/linked to navigable surface waters. The Wisconsin Department of Natural Resources also regulates wetlands, including isolated wetland areas, under authority in Chapter 30 of the State Statutes, and WI Administrative Code NR 103.

In addition to the wetlands being under the jurisdiction of USACE and the WDNR, Milwaukee County and/or the City of Franklin may also have regulatory authority over wetlands in their ordinances. It is recommended that the local municipalities be consulted to determine the extent of regulation over wetlands.

No attempt was made to identify other environmental attributes that might be subject to additional regulation including: floodplain, environmental corridors, or culturally significant features.

The delineated wetland boundaries are subject to approval by the regulatory agencies stated above and are considered an estimate of the wetland boundary until reviewed and approved by the agency or agencies with jurisdiction. Excel Engineering, Inc. recommends that the wetland delineation report be submitted to the agencies for

concurrence prior to commencement of any work on the property. Additionally, any proposed activity in or adjacent to the wetlands would require permitting from the WDNR and possibly the USACE, as well as any permits required from the county or local municipality.

---

7. LITERATURE REFERENCES:

***Corps of Engineers Wetlands Delineation Manual*, Technical Report Y-87-1**, 1987, Environmental Laboratory - U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

Basic Guide to Wisconsin's Wetlands and Their Boundaries, 1995, Department of Administration and Wisconsin Coastal Management Program.

USACE Supplemental Guidance Memoranda (Various), United States Department of the Army, U.S. Army Corps of Engineers, Milwaukee D.C.

Hydric Soil List for Milwaukee County, Wisconsin, (Web-generated Report), United States Department of Agriculture (USDA), Natural Resource Conservation Service (NRCS).

Web Soil Survey (Info for Milwaukee County, Wisconsin), Updated 2013, USDA, Natural Resource Conservation Service (NRCS), Formerly Soil Conservation Service.

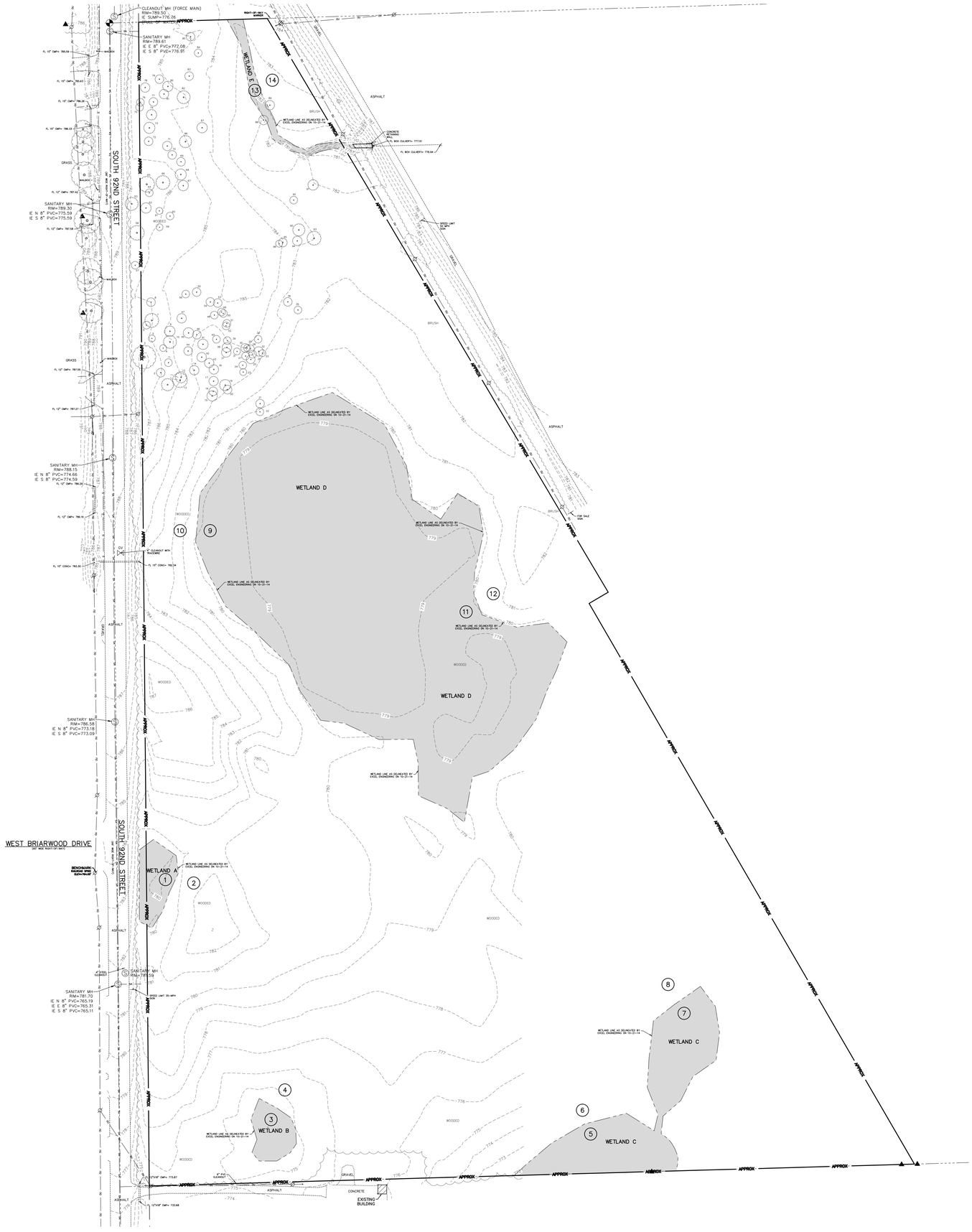
Wisconsin 7.5 Minute Series (Topographic) Maps, United States Geological Survey, Wisconsin

Wisconsin Wetlands Inventory, Milwaukee County, Wisconsin, (Via WDNR Surface Water Data Viewer – Interactive Mapping) Wisconsin Department of Natural Resources.

Checklist of the Vascular Plants of Wisconsin - Wisconsin State Herbarium, 2005, Presented by the University of Wisconsin – Madison.

Surface Water Data Viewer – Designated Waters, Wisconsin Department of Natural Resources Website – Mapping Feature.

GIS Interactive Mapping Webpage, 2014**,** Milwaukee County Interactive Geographic Information Web Server.



EXCEL ENGINEERING Inc.
100 CAMELOT DRIVE
FOND DU LAC, WI 54935
PHONE: (920) 926-9800
FAX: (920) 926-9801

Always a Better Plan

OWNER:

PROJECT:
MATT TALBOT RECOVDERY SYSTEMS
FRANKLIN, WI

LEGEND:

- UTILITY POLE WITH GUY WIRE
- EXISTING SIGN
- MONUMENT FOUND
- DECIDUOUS TREE
- WATER VALVE IN BOX
- GAS VALVE
- EXISTING STORM SEWER AND MANHOLE
- EXISTING WATER LINE AND HYDRANT
- EXISTING UNDERGROUND ELECTRIC CABLE
- EXISTING UNDERGROUND GAS LINE
- RIGHT-OF-WAY LINE
- WOODED AREA
- BRUSH
- APPROXIMATE PROPERTY LINE
- EXISTING SANITARY SEWER AND MANHOLE
- EXISTING OVERHEAD UTILITY LINE
- EXISTING GROUND CONTOUR

(1) – SAMPLE DATA POINT LOCATION

PRELIMINARY SHEET DATES:
JANUARY 30, 2015

JOB NUMBER:
1420700

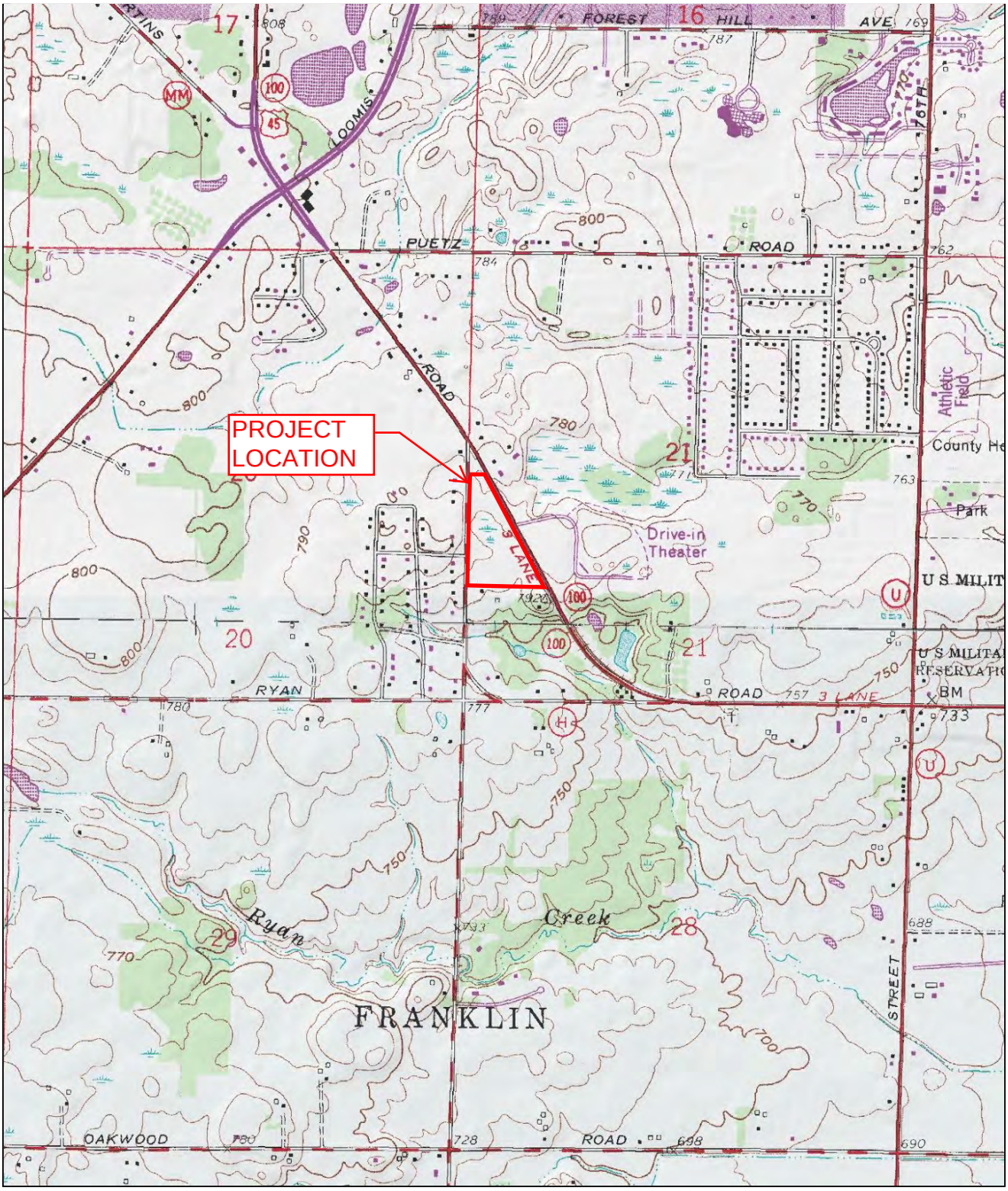
SHEET
WET

FIGURE 1 – WETLAND LOCATION MAP

NORTH
1"= 50'
SCALE
50' 0 50' 100'
FEET

PRELIMINARY DRAWING - NOT FOR CONSTRUCTION

FIGURE 2 - USGS TOPO MAP



Map provided by MyTopo.com

Hydrologic Soil Group—Milwaukee and Waukesha Counties, Wisconsin

FIGURE 3 - SOILS MAP

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

Soil Rating Polygons

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Milwaukee and Waukesha Counties, Wisconsin
Survey Area Data: Version 9, Sep 18, 2014

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 29, 2011—Mar 28, 2012

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Hydrologic Soil Group— Summary by Map Unit — Milwaukee and Waukesha Counties, Wisconsin (WI602)				
Map unit symbol	**Map unit name**	**Rating**	**Acres in AOI**	**Percent of AOI**
AsA	Ashkum silty clay loam, 0 to 2 percent slopes	C/D	4.6	26.8%
BlA	Blount silt loam, 1 to 3 percent slopes	C/D	2.5	14.2%
EsA	Elliott silt loam, 1 to 3 percent slopes	C/D	4.8	27.8%
MeB	Markham silt loam, 2 to 6 percent slopes	C	1.3	7.3%
MzdB	Morley silt loam, 2 to 6 percent slopes	C	0.0	0.1%
MzdB2	Morley silt loam, 2 to 6 percent slopes, eroded	C	4.1	23.8%
Totals for Area of Interest			**17.3**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Surface Water Data Viewer Map

FIGURE 4 - WDNR WETLAND MAP

Legend

- Wetland Class Points
  - Dammed pond
  - Excavated pond
  - Filled excavated pond
  - Filled/drained wetland
  - Wetland too small to delineate
- Filled Points
- Wetland Class Areas
  - Wetland
  - Upland
- Filled Areas
- NRCS Wetspots
- Wetland Indicators
- Rivers and Streams
- Open Water
- 2010 Air Photos (WROC)

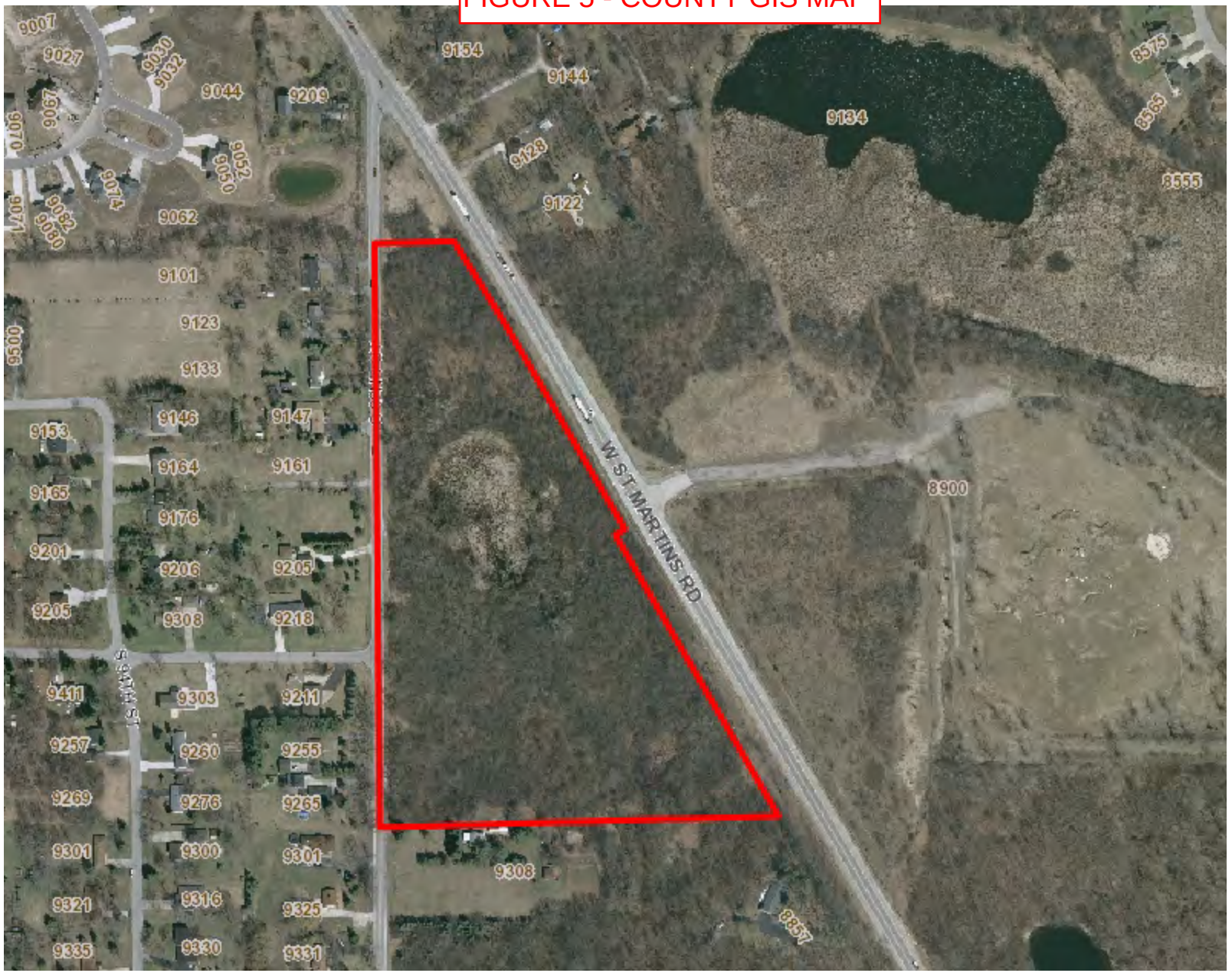
Notes

0.2 0 0.08 0.2 Miles

NAD_1983_HARN_Wisconsin_TM

MILWAUKEE COUNTY INTERACTIVE MAPPING SERVICE

FIGURE 5 - COUNTY GIS MAP



Legend

- Tax Parcels
- Plat of Survey
- FORECLOSURE
- Subdivision Docs
- Condo Docs
- CSM Docs
- AERIAL PHOTO 2010 HIGH R
  - Red: Band_1
  - Green: Band_2
  - Blue: Band_3
- Structure

1: 3,990

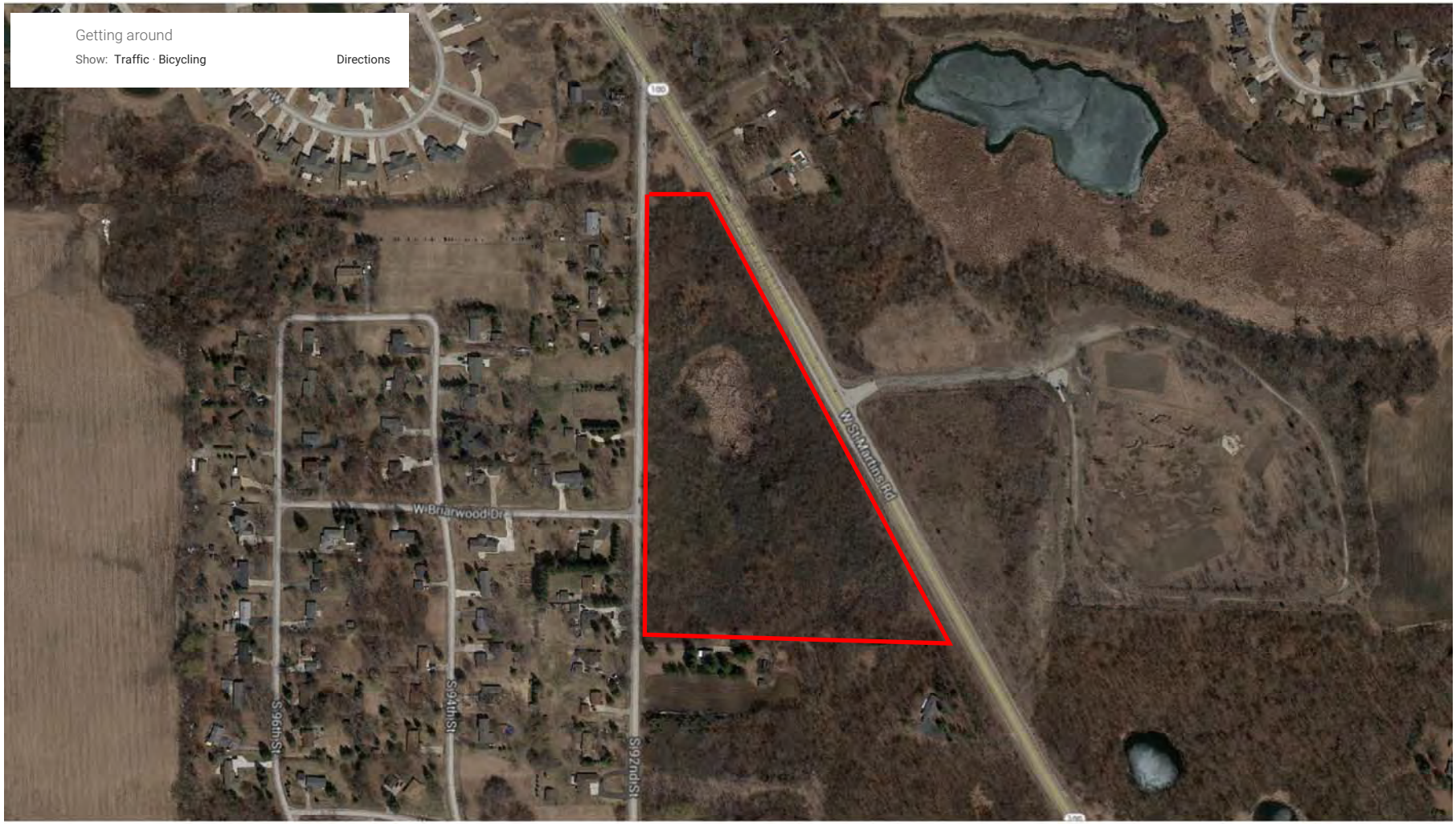
665 0 333 665 Feet

NAD_1927_StatePlane_Wisconsin_South_FIPS_4803

THIS MAP IS NOT TO BE USED FOR NAVIGATION

DISCLAIMER: This map is a user generated static output from the Milwaukee County Land Information Office Interactive Mapping Service website.The contents herein are for reference purposes only and may or may not be accurate, current or otherwise reliable. No liability is assumed for the data delineated herein either expressed or implied by Milwaukee County or its employees.

Notes


Getting around
Show: Traffic · Bicycling
Directions
W Briarwood Dr
W St Martins Rd
S 96th St
S 94th St
S 92nd St
Imagery ©2015 Google, Map data ©2015 Google 200 ft

APPENDIX A

WETLAND DETERMINATION FIELD DATA FORMS

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Matt Talbot CBRF Franklin | City/County: Franklin/Milwaukee | Sampling Date: 10-21-14

Applicant/Owner: Matt Talbot Recovery Services, Inc. | State: WI | Sampling Point: 1-WET

Investigator(s): Grant Duchac | Section, Township, Range: Sec 21, T5N, R21E

Landform (hillslope, terrace, etc.): Low Pocket Depression | Local relief (concave, convex, none): Concave

Slope (%): 0 | Lat: | Long: | Datum:

Soil Map Unit Name: EsA | NWI Classification: None

Are climatic/hydrologic conditions of the site typical for this time of the year? Y (If no, explain in remarks)

Are vegetation ____, soil ____, or hydrology ____ significantly disturbed? Are "normal circumstances" present? Yes

Are vegetation ____, soil ____, or hydrology ____ naturally problematic?

SUMMARY OF FINDINGS

(If needed, explain any answers in remarks.)

Hydrophytic vegetation present?	Y		
Hydric soil present?	Y	**Is the sampled area within a wetland?**	Y
Indicators of wetland hydrology present?	Y	If yes, optional wetland site ID:	

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

VEGETATION -- Use scientific names of plants.

		Absolute % Cover	Dominant Species	Indicator Staus
Tree Stratum (Plot size: 30'R)				
1				
2				
3				
4				
5				
		0	= Total Cover	
Sapling/Shrub stratum (Plot size: 30'R)				
1	*Cornus alba*	50	Y	FACW
2	*viburnum lentago*	20	Y	FAC
3	*rhamnus cathartica*	10	N	FAC
4				
5				
		80	= Total Cover	
Herb stratum (Plot size: 5'R)				
1	*phalaris arundinacea*	10	Y	FACW
2	*carex sp.*	10	Y	FACW
3				
4				
5				
6				
7				
8				
9				
10				
		20	= Total Cover	
Woody vine stratum (Plot size: 30'R)				
1				
2				
		0	= Total Cover	

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 4 (A)

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

Percent of Dominant Species that are OBL, FACW, or FAC: 100.00% (A/B)

Prevalence Index Worksheet

Total % Cover of:			
OBL species	0	x 1 =	0
FACW species	70	x 2 =	140
FAC species	30	x 3 =	90
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column totals	100 (A)		230 (B)

Prevalence Index = B/A = 2.30

Hydrophytic Vegetation Indicators:

- ____ Rapid test for hydrophytic vegetation
- X Dominance test is >50%
- X Prevalence index is ≤3.0*
- ____ Morphogical adaptations* (provide supporting data in Remarks or on a separate sheet)
- ____ Problematic hydrophytic vegetation* (explain)

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

Hydrophytic vegetation present? Y

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

SOIL

Sampling Point: 1-WET

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

Depth (Inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type*	Loc**	Texture	Remarks
0-2"	10YR 3/1	10					SCL	
2-10"	10YR 3/1	40	7.5 YR 5/8	20	C	M	CLAY	Mixed profile
	10YR 4/4	30						
	10YR 5/1	10						
10-18"	10YR 5/1	75	7.5 YR 5/8	25	C	M	CLAY	
18-24"+	N2.5	90	7.5 YR 5/8	10	C	M	CLAY	Very dark clay

*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. **Location: PL = Pore Lining, M = Matrix

Hydric Soil Indicators:

- ___ Histisol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils:

- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L)**
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (explain in remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric soil present? Y

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- X Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- X Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- X FAC-Neutral Test (D5)

Field Observations:

Surface water present?	Yes		No	X	Depth (inches):	
Water table present?	Yes		No	X	Depth (inches):	
Saturation present? (includes capillary fringe)	Yes	X	No		Depth (inches):	18'

Indicators of wetland hydrology present? Y

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

Remarks:

Wetland is low depressional area. Field work completed in late growing season so high water table unlikely.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Matt Talbot CBRF Franklin | City/County: Franklin/Milwaukee | Sampling Date: 10-21-14

Applicant/Owner: Matt Talbot Recovery Services, Inc. | State: WI | Sampling Point: 2-UP

Investigator(s): Grant Duchac | Section, Township, Range: Sec 21, T5N, R21E

Landform (hillslope, terrace, etc.): Hillslope | Local relief (concave, convex, none):

Slope (%): 4 | Lat: | Long: | Datum:

Soil Map Unit Name: EsA | NWI Classification: N/A

Are climatic/hydrologic conditions of the site typical for this time of the year? Y (If no, explain in remarks)

Are vegetation ____, soil ____, or hydrology ____ significantly disturbed? Are "normal circumstances" present? Yes

Are vegetation ____, soil ____, or hydrology ____ naturally problematic?

SUMMARY OF FINDINGS

(If needed, explain any answers in remarks.)

Hydrophytic vegetation present?	N
Hydric soil present?	N
Indicators of wetland hydrology present?	N

Is the sampled area within a wetland? N

If yes, optional wetland site ID:

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

Upslope of low wetland area 1-2' and located in heavy brush & wooded area similar to much of the site.

VEGETATION -- Use scientific names of plants.

	Tree Stratum (Plot size: 30'R)	Absolute % Cover	Dominant Species	Indicator Staus
1	*quercus alba*	30	Y	FACU
2	*carya ovata*	15	Y	FACU
3	*prunus pensylvanica*	15	Y	FACU
4				
5				
		60	= Total Cover	
	Sapling/Shrub stratum (Plot size: 30'R)			
1	*rhamnus cathartica*	60	Y	FAC
2	*Lonicera X bella*	30	Y	FACU
3				
4				
5				
		90	= Total Cover	
	Herb stratum (Plot size: 5'R)			
1	*rhamnus cathartica*	40	Y	FAC
2				
3				
4				
5				
6				
7				
8				
9				
10				
		40	= Total Cover	
	Woody vine stratum (Plot size: 30'R)			
1				
2				
		0	= Total Cover	

Dominance Test Worksheet

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

Total Number of Dominant Species Across all Strata: 6 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 33.33% (A/B)

Prevalence Index Worksheet

Total % Cover of:				
OBL species	0	x 1 =	0	
FACW species	0	x 2 =	0	
FAC species	100	x 3 =	300	
FACU species	90	x 4 =	360	
UPL species	0	x 5 =	0	
Column totals	190	(A)	660	(B)

Prevalence Index = B/A = 3.47

Hydrophytic Vegetation Indicators:

- ____ Rapid test for hydrophytic vegetation
- ____ Dominance test is >50%
- ____ Prevalence index is ≤3.0*
- ____ Morphogical adaptations* (provide supporting data in Remarks or on a separate sheet)
- ____ Problematic hydrophytic vegetation* (explain)

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

Hydrophytic vegetation present? N

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

SOIL **Sampling Point:** 2-UP

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

Depth (Inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type*	Loc**	Texture	Remarks
0-10"	10YR 2/1	100					SL	
10-24"	10YR 2/1	60	7.5YR 5/8	5	C	M	SCL	More clay lower in the profile
	10YR 4/4	35						

*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. **Location: PL = Pore Lining, M = Matrix

Hydric Soil Indicators:

- ___ Histisol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils:

- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L)**
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (explain in remarks)

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

Restrictive Layer (if observed):
Type: _____
Depth (inches): _____

Hydric soil present? N

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ FAC-Neutral Test (D5)

Field Observations:

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

Indicators of wetland hydrology present? N

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

Remarks:
Dry profile.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Matt Talbot CBRF Franklin | City/County: Franklin/Milwaukee | Sampling Date: 10-21-14

Applicant/Owner: Matt Talbot Recovery Services, Inc. | State: WI | Sampling Point: 3-WET

Investigator(s): Grant Duchac | Section, Township, Range: Sec 21, T5N, R21E

Landform (hillslope, terrace, etc.): Flat | Local relief (concave, convex, none):

Slope (%): 0 | Lat: | Long: | Datum:

Soil Map Unit Name: EsA | NWI Classification: None

Are climatic/hydrologic conditions of the site typical for this time of the year? Y (If no, explain in remarks)

Are vegetation ____, soil ____, or hydrology ____ significantly disturbed? Are "normal circumstances" present? Yes

Are vegetation ____, soil ____, or hydrology ____ naturally problematic?

SUMMARY OF FINDINGS

(If needed, explain any answers in remarks.)

Hydrophytic vegetation present? Y	**Is the sampled area within a wetland?** Y
Hydric soil present? Y	If yes, optional wetland site ID:
Indicators of wetland hydrology present? Y	

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

Low Depressional Area

VEGETATION -- Use scientific names of plants.

	Absolute % Cover	Dominant Species	Indicator Staus
Tree Stratum (Plot size: 30'R)			
1 *Acer saccharinum*	15	Y	FACW
2 *fraxinus pennsylvanica*	10	Y	FACW
3			
4			
5			
	25	= Total Cover	
Sapling/Shrub stratum (Plot size: 30'R)			
1 *cornus alba*	90	Y	FACW
2 *rhamnus cathartica*	10	N	FAC
3			
4			
5			
	100	= Total Cover	
Herb stratum (Plot size: 5'R)			
1 *cornus alba*	10	Y	FACW
2 *rhamnus cathartica*	10	Y	FAC
3			
4			
5			
6			
7			
8			
9			
10			
	20	= Total Cover	
Woody vine stratum (Plot size: 30'R)			
1 *vitis riparia*	5	Y	FACW
2			
	5	= Total Cover	

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 6 (A)

Total Number of Dominant Species Across all Strata: 6 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 100.00% (A/B)

Prevalence Index Worksheet

Total % Cover of:

OBL species	0	x 1 =	0
FACW species	130	x 2 =	260
FAC species	20	x 3 =	60
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column totals	150 (A)		320 (B)

Prevalence Index = B/A = 2.13

Hydrophytic Vegetation Indicators:

- ____ Rapid test for hydrophytic vegetation
- X Dominance test is >50%
- X Prevalence index is ≤3.0*
- ____ Morphogical adaptations* (provide supporting data in Remarks or on a separate sheet)
- ____ Problematic hydrophytic vegetation* (explain)

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

Hydrophytic vegetation present? Y

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

SOIL **Sampling Point:** 3-WET

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

Depth (Inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type*	Loc**	Texture	Remarks
0-6"	10YR 2/1	95	10 YR 5/8	5	C	M	SCL	
6-9"	10YR 2/1	50	7.5 YR 5/8	10	C	M	CLAY	
	10YR 5/2	40						
9-16"	10 YR 5/2	75	7.5 YR 5/8	20	C	M		
			N2.5	5	C	M		Manganese
16*24"	10 YR 6/1	70	7.5 YR 5/8	30	C	M	CLAY	

*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. **Location: PL = Pore Lining, M = Matrix

Hydric Soil Indicators:

- ___ Histisol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- X Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils:

- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L)**
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (explain in remarks)

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

Restrictive Layer (if observed):
Type: _____
Depth (inches): _____

Hydric soil present? Y

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ___ Surface Water (A1)
- X High Water Table (A2)
- X Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- X Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- X FAC-Neutral Test (D5)

Field Observations:

Surface water present?	Yes		No	X	Depth (inches):	
Water table present?	Yes	X	No		Depth (inches):	12"
Saturation present? (includes capillary fringe)	Yes	X	No		Depth (inches):	6"

Indicators of wetland hydrology present? Y

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

Remarks:

Moist at surface, saturated below.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Matt Talbot CBRF Franklin | City/County: Franklin/Milwaukee | Sampling Date: 10-21-14

Applicant/Owner: Matt Talbot Recovery Services, Inc. | State: WI | Sampling Point: 4-UP

Investigator(s): Grant Duchac | Section, Township, Range: Sec 21, T5N, R21E

Landform (hillslope, terrace, etc.): Sloping | Local relief (concave, convex, none):

Slope (%): 2-4% | Lat: | Long: | Datum:

Soil Map Unit Name: EsA | NWI Classification: None

Are climatic/hydrologic conditions of the site typical for this time of the year? Y (If no, explain in remarks)

Are vegetation ____, soil ____, or hydrology ____ significantly disturbed? Are "normal circumstances" present? Yes

Are vegetation ____, soil ____, or hydrology ____ naturally problematic?

SUMMARY OF FINDINGS

(If needed, explain any answers in remarks.)

Hydrophytic vegetation present?	Y
Hydric soil present?	N
Indicators of wetland hydrology present?	N

Is the sampled area within a wetland? N

If yes, optional wetland site ID:

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

Upland outside of wetland boundary sloping towards lower wetland. Thick bucktorn on site.

VEGETATION -- Use scientific names of plants.

	Absolute % Cover	Dominant Species	Indicator Staus
Tree Stratum (Plot size: 30'R)			
1 *Crataegus mollis*	75	Y	FAC
2 *quercus alba*	20	Y	FACU
3 *fraxinus pennsylvanica*	5	N	FACW
4			
5			
	100	= Total Cover	
Sapling/Shrub stratum (Plot size: 30'R)			
1 *rhamnus cathartica*	60	Y	FAC
2 *lonicera x bella*	20	Y	FACU
3 *Crataegus mollis*	10	N	FAC
4			
5			
	90	= Total Cover	
Herb stratum (Plot size: 5'R)			
1 *rhamnus cathartica*	10	Y	FAC
2			
3			
4			
5			
6			
7			
8			
9			
10			
	10	= Total Cover	
Woody vine stratum (Plot size: 30'R)			
1			
2			
	0	= Total Cover	

Dominance Test Worksheet

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

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

Percent of Dominant Species that are OBL, FACW, or FAC: 60.00% (A/B)

Prevalence Index Worksheet

Total % Cover of:			
OBL species	0	x 1 =	0
FACW species	5	x 2 =	10
FAC species	155	x 3 =	465
FACU species	40	x 4 =	160
UPL species	0	x 5 =	0
Column totals	200 (A)		635 (B)

Prevalence Index = B/A = 3.18

Hydrophytic Vegetation Indicators:

- ____ Rapid test for hydrophytic vegetation
- X Dominance test is >50%
- ____ Prevalence index is ≤3.0*
- ____ Morphogical adaptations* (provide supporting data in Remarks or on a separate sheet)
- ____ Problematic hydrophytic vegetation* (explain)

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

Hydrophytic vegetation present? Y

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

Common buckthorn growing throughout entire uplands of site. Buckthorn is suggesting wetland vegetation present due to the FAC status. No wetland hydrology or soils present at sample point and given the invasive & adaptive nature of buckthorn - vegetation should be upland.

SOIL **Sampling Point:** 4-UP

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

Depth (Inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type*	Loc**	Texture	Remarks
0-12"	10 YR 2/1	100					SL	
12-14"	10 YR 2/1	60					CLAY	
	10 YR 5/1	40						
14-24"	10 YR 5/1	95	7.5 YR 5/8	5	C	M	CLAY	

*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. **Location: PL = Pore Lining, M = Matrix

Hydric Soil Indicators:

- ___ Histisol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils:

- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L)**
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (explain in remarks)

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

Restrictive Layer (if observed):
Type: _____
Depth (inches): _____

Hydric soil present? N

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- X Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- X FAC-Neutral Test (D5)

Field Observations:

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

Indicators of wetland hydrology present? N

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

Remarks:

Sample Point 1-2' higher than wetland. Dry Profile.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Matt Talbot CBRF Franklin | City/County: Franklin/Milwaukee | Sampling Date: 10-21-14

Applicant/Owner: Matt Talbot Recovery Services, Inc. | State: WI | Sampling Point: 5-WET

Investigator(s): Grant Duchac | Section, Township, Range: Sec 21, T5N, R21E

Landform (hillslope, terrace, etc.): Low Depression | Local relief (concave, convex, none):

Slope (%): 0 | Lat: | Long: | Datum:

Soil Map Unit Name: BiA | NWI Classification: None

Are climatic/hydrologic conditions of the site typical for this time of the year? Y (If no, explain in remarks)

Are vegetation ____, soil ____, or hydrology ____ significantly disturbed? Are "normal circumstances" present? Yes

Are vegetation ____, soil ____, or hydrology ____ naturally problematic?

SUMMARY OF FINDINGS

(If needed, explain any answers in remarks.)

Hydrophytic vegetation present?	Y
Hydric soil present?	Y
Indicators of wetland hydrology present?	Y

Is the sampled area within a wetland? Y

If yes, optional wetland site ID:

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

VEGETATION -- Use scientific names of plants.

	Absolute % Cover	Dominant Species	Indicator Staus
Tree Stratum (Plot size: 30'R)			
1 *fraxinus pennsylvanica*	15	Y	FACW
2 *salix nigra*	15	Y	OBL
3			
4			
5			
	30	= Total Cover	
Sapling/Shrub stratum (Plot size: 30'R)			
1 *cornus alba*	60	Y	FACW
2 *salix interior*	15	Y	FACW
3			
4			
5			
	75	= Total Cover	
Herb stratum (Plot size: 5'R)			
1 *phalaris arundinacea*	25	Y	FACW
2 *carex sp.*	10	Y	FACW
3 *Symphyotrichum lanceolatum*	10	Y	FAC
4 *solidago gigantea*	10	Y	FACW
5			
6			
7			
8			
9			
10			
	55	= Total Cover	
Woody vine stratum (Plot size: 30'R)			
1			
2			
	0	= Total Cover	

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 8 (A)

Total Number of Dominant Species Across all Strata: 8 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 100.00% (A/B)

Prevalence Index Worksheet

Total % Cover of:

OBL species	15	x 1 =	15
FACW species	135	x 2 =	270
FAC species	10	x 3 =	30
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column totals	160 (A)		315 (B)

Prevalence Index = B/A = 1.97

Hydrophytic Vegetation Indicators:

- ____ Rapid test for hydrophytic vegetation
- X Dominance test is >50%
- X Prevalence index is ≤3.0*
- ____ Morphogical adaptations* (provide supporting data in Remarks or on a separate sheet)
- ____ Problematic hydrophytic vegetation* (explain)

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

Hydrophytic vegetation present? Y

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

SOIL **Sampling Point:** 5-WET

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

Depth (Inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type*	Loc**	Texture	Remarks
0-10"	N2.5	100					MUCK/CLAY	
10"+	10YR 5/1	90	7.5 YR 5/8	10	C	M	CLAY	

*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. **Location: PL = Pore Lining, M = Matrix

Hydric Soil Indicators:

- ___ Histisol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- X Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils:

- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L)**
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (explain in remarks)

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

Restrictive Layer (if observed):
Type: _____
Depth (inches): _____

Hydric soil present? Y

Remarks:
Soil color hard to define low in profile due to complete saturation.

HYDROLOGY

Wetland Hydrology Indicators:

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

- ___ Surface Water (A1)
- X High Water Table (A2)
- X Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- X Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- X FAC-Neutral Test (D5)

Field Observations:

Surface water present?	Yes		No	X	Depth (inches):	
Water table present?	Yes	X	No		Depth (inches):	6"
Saturation present? (includes capillary fringe)	Yes	X	No		Depth (inches):	ENTIRE

Indicators of wetland hydrology present? Y

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Matt Talbot CBRF Franklin | City/County: Franklin/Milwaukee | Sampling Date: 10-21-14

Applicant/Owner: Matt Talbot Recovery Services, Inc. | State: WI | Sampling Point: 6-UP

Investigator(s): Grant Duchac | Section, Township, Range: Sec 21, T5N, R21E

Landform (hillslope, terrace, etc.): Sloping to Wetlands | Local relief (concave, convex, none):

Slope (%): 4 | Lat: | Long: | Datum:

Soil Map Unit Name: BiA/MzdB2 | NWI Classification: None

Are climatic/hydrologic conditions of the site typical for this time of the year? Y (If no, explain in remarks)

Are vegetation ____, soil ____, or hydrology ____ significantly disturbed? Are "normal circumstances" present? Yes

Are vegetation ____, soil ____, or hydrology ____ naturally problematic?

SUMMARY OF FINDINGS

(If needed, explain any answers in remarks.)

Hydrophytic vegetation present?	N
Hydric soil present?	N
Indicators of wetland hydrology present?	N

Is the sampled area within a wetland? N

If yes, optional wetland site ID:

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

VEGETATION -- Use scientific names of plants.

	Tree Stratum (Plot size: 30'R)	Absolute % Cover	Dominant Species	Indicator Staus
1	*quercus rubra*	40	Y	FACU
2	*Crataegus mollis*	20	Y	FAC
3				
4				
5				
		60	= Total Cover	
	Sapling/Shrub stratum (Plot size: 30'R)			
1	*rhamnus cathartica*	60	Y	FAC
2	*lonicera x bella*	10	N	FACU
3				
4				
5				
		70	= Total Cover	
	Herb stratum (Plot size: 5'R)			
1	*rhamnus cathartica*	25	Y	FAC
2	*lonicera x bella*	10	Y	FACU
3	*parthenocissus quinquefolia*	10	Y	FACU
4				
5				
6				
7				
8				
9				
10				
		45	= Total Cover	
	Woody vine stratum (Plot size: 30'R)			
1				
2				
		0	= Total Cover	

Dominance Test Worksheet

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

Total Number of Dominant Species Across all Strata: 6 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 50.00% (A/B)

Prevalence Index Worksheet

Total % Cover of:

OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	105	x 3 =	315
FACU species	70	x 4 =	280
UPL species	0	x 5 =	0
Column totals	175 (A)		595 (B)

Prevalence Index = B/A = 3.40

Hydrophytic Vegetation Indicators:

- ___ Rapid test for hydrophytic vegetation
- ___ Dominance test is >50%
- ___ Prevalence index is ≤3.0*
- ___ Morphogical adaptations* (provide supporting data in Remarks or on a separate sheet)
- ___ Problematic hydrophytic vegetation* (explain)

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

Hydrophytic vegetation present? N

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

Very thick buckthorn in uplands.

SOIL **Sampling Point:** 6-UP

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

Depth (Inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type*	Loc**	Texture	Remarks
0-12"	10 YR 2/1	100					SL	
12-24"	10YR 5/1	85	7.5 YR 5/8	15	C	M	CLAY	

*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. **Location: PL = Pore Lining, M = Matrix

Hydric Soil Indicators:

- ___ Histisol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils:

- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L)**
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (explain in remarks)

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

Restrictive Layer (if observed):
Type: _____
Depth (inches): _____

Hydric soil present? N

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ FAC-Neutral Test (D5)

Field Observations:

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

Indicators of wetland hydrology present? N

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

Remarks:

Dry profile upslope of wetland 1-2'

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Matt Talbot CBRF Franklin | City/County: Franklin/Milwaukee | Sampling Date: 10-21-14

Applicant/Owner: Matt Talbot Recovery Services, Inc. | State: WI | Sampling Point: 7-WET

Investigator(s): Grant Duchac | Section, Township, Range: Sec 21, T5N, R21E

Landform (hillslope, terrace, etc.): Flat | Local relief (concave, convex, none):

Slope (%): 0 | Lat: | Long: | Datum:

Soil Map Unit Name: BiA | NWI Classification: T3/E2K

Are climatic/hydrologic conditions of the site typical for this time of the year? Y (If no, explain in remarks)

Are vegetation ____, soil ____, or hydrology ____ significantly disturbed? Are "normal circumstances" present? Yes

Are vegetation ____, soil ____, or hydrology ____ naturally problematic?

SUMMARY OF FINDINGS

(If needed, explain any answers in remarks.)

Hydrophytic vegetation present?	Y
Hydric soil present?	Y
Indicators of wetland hydrology present?	Y

Is the sampled area within a wetland? Y

If yes, optional wetland site ID:

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

Low mostly open area within heavily wooded parcel.

VEGETATION -- Use scientific names of plants.

	Absolute % Cover	Dominant Species	Indicator Staus
Tree Stratum (Plot size: 30'R)			
1 *fraxinus pennsylvanica*	20	Y	FACW
2			
3			
4			
5			
	20 = Total Cover		
Sapling/Shrub stratum (Plot size: 30'R)			
1 *cornus alba*	30	Y	FACW
2 *Cornus obliqua*	10	Y	FACW
3			
4			
5			
	40 = Total Cover		
Herb stratum (Plot size: 5'R)			
1 *carex sp.*	90	Y	FACW
2 *solidago patula*	5	N	OBL
3 *solidago gigantea*	5	N	FACW
4			
5			
6			
7			
8			
9			
10			
	100 = Total Cover		
Woody vine stratum (Plot size: 30'R)			
1			
2			
	0 = Total Cover		

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 4 (A)

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

Percent of Dominant Species that are OBL, FACW, or FAC: 100.00% (A/B)

Prevalence Index Worksheet

Total % Cover of:

OBL species	5	x 1 =	5
FACW species	155	x 2 =	310
FAC species	0	x 3 =	0
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column totals	160 (A)		315 (B)

Prevalence Index = B/A = 1.97

Hydrophytic Vegetation Indicators:

- ____ Rapid test for hydrophytic vegetation
- X Dominance test is >50%
- X Prevalence index is ≤3.0*
- ____ Morphogical adaptations* (provide supporting data in Remarks or on a separate sheet)
- ____ Problematic hydrophytic vegetation* (explain)

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

Hydrophytic vegetation present? Y

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

SOIL **Sampling Point:** 7-WET

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

Depth (Inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type*	Loc**	Texture	Remarks
0-12"	10 YR 2/1	95	10 YR 5/8	5	C	M	SCL W/ MUCK	
12-18"+	10YR 5/1	75	7.5 YR 5/8	25	C	M	CLAY	

*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. **Location: PL = Pore Lining, M = Matrix

Hydric Soil Indicators:

- ___ Histisol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- X Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils:

- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L)**
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (explain in remarks)

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

Restrictive Layer (if observed):
Type: _____
Depth (inches): _____

Hydric soil present? Y

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- X Surface Water (A1)
- X High Water Table (A2)
- X Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- X Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- X FAC-Neutral Test (D5)

Field Observations:

Surface water present?	Yes	X	No		Depth (inches):	6"
Water table present?	Yes	X	No		Depth (inches):	ENTIRE
Saturation present? (includes capillary fringe)	Yes	X	No		Depth (inches):	ENTIRE

Indicators of wetland hydrology present? Y

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

Remarks:

Boggy area-water in low spots

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Matt Talbot CBRF Franklin | City/County: Franklin/Milwaukee | Sampling Date: 10-21-14

Applicant/Owner: Matt Talbot Recovery Services, Inc. | State: WI | Sampling Point: 8-UP

Investigator(s): Grant Duchac | Section, Township, Range: Sec 21, T5N, R21E

Landform (hillslope, terrace, etc.): Hillslope | Local relief (concave, convex, none):

Slope (%): 2 | Lat: | Long: | Datum:

Soil Map Unit Name: MzdB2 | NWI Classification: None

Are climatic/hydrologic conditions of the site typical for this time of the year? Y (If no, explain in remarks)

Are vegetation ____, soil ____, or hydrology ____ significantly disturbed? Are "normal circumstances" present? Yes

Are vegetation ____, soil ____, or hydrology ____ naturally problematic?

SUMMARY OF FINDINGS

(If needed, explain any answers in remarks.)

Hydrophytic vegetation present?	N
Hydric soil present?	N
Indicators of wetland hydrology present?	N

Is the sampled area within a wetland? N

If yes, optional wetland site ID:

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

VEGETATION -- Use scientific names of plants.

Tree Stratum (Plot size: 30'R)	Absolute % Cover	Dominant Species	Indicator Staus
1 *Crataegus mollis*	60	Y	FAC
2 *Fraxinus americana*	20	Y	FACU
3			
4			
5			
	80	= Total Cover	

Sapling/Shrub stratum (Plot size: 30'R)			
1 *rhamnus cathartica*	75	Y	FAC
2 *lonicera x bella*	20	Y	FACU
3			
4			
5			
	95	= Total Cover	

Herb stratum (Plot size: 5'R)			
1 *parthenocissus quinquefolia*	50	Y	FACU
2			
3			
4			
5			
6			
7			
8			
9			
10			
	50	= Total Cover	

Woody vine stratum (Plot size: 30'R)			
1			
2			
	0	= Total Cover	

Dominance Test Worksheet

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

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

Percent of Dominant Species that are OBL, FACW, or FAC: 40.00% (A/B)

Prevalence Index Worksheet

Total % Cover of:

OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	135	x 3 =	405
FACU species	90	x 4 =	360
UPL species	0	x 5 =	0
Column totals	225 (A)		765 (B)

Prevalence Index = B/A = 3.40

Hydrophytic Vegetation Indicators:

- ____ Rapid test for hydrophytic vegetation
- ____ Dominance test is >50%
- ____ Prevalence index is ≤3.0*
- ____ Morphogical adaptations* (provide supporting data in Remarks or on a separate sheet)
- ____ Problematic hydrophytic vegetation* (explain)

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

Hydrophytic vegetation present? N

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

SOIL **Sampling Point:** 8-UP

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

Depth (Inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type*	Loc**	Texture	Remarks
0-14"	10 YR 3/1	100						
14-20"+	10YR 5/1	90	10 YR 5/8	10	C	M	CLAY	

*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. **Location: PL = Pore Lining, M = Matrix

Hydric Soil Indicators:

- ___ Histisol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils:

- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L)**
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (explain in remarks)

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

Restrictive Layer (if observed):
Type: _____
Depth (inches): _____

Hydric soil present? N

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ FAC-Neutral Test (D5)

Field Observations:

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

Indicators of wetland hydrology present? N

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

Remarks:

Dry Profile. Upslope of wetland 1-2'

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Matt Talbot CBRF Franklin | City/County: Franklin/Milwaukee | Sampling Date: 10-21-14

Applicant/Owner: Matt Talbot Recovery Services, Inc. | State: WI | Sampling Point: 9-WET

Investigator(s): Grant Duchac | Section, Township, Range: Sec 21, T5N, R21E

Landform (hillslope, terrace, etc.): Low pocket fresh meadow | Local relief (concave, convex, none): Concave

Slope (%): 0 | Lat: | Long: | Datum:

Soil Map Unit Name: ASA | NWI Classification: E2H

Are climatic/hydrologic conditions of the site typical for this time of the year? Y (If no, explain in remarks)

Are vegetation ____, soil ____, or hydrology ____ significantly disturbed? Are "normal circumstances" present? Yes

Are vegetation ____, soil ____, or hydrology ____ naturally problematic? (If needed, explain any answers in remarks.)

SUMMARY OF FINDINGS

Hydrophytic vegetation present?	Y
Hydric soil present?	Y
Indicators of wetland hydrology present?	Y
Is the sampled area within a wetland?	Y
If yes, optional wetland site ID:	

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

VEGETATION -- Use scientific names of plants.

	Absolute % Cover	Dominant Species	Indicator Staus
Tree Stratum (Plot size: 30'R)			
1 *salix nigra*	30	Y	OBL
2			
3			
4			
5			
	30 = Total Cover		
Sapling/Shrub stratum (Plot size: 30'R)			
1			
2			
3			
4			
5			
	0 = Total Cover		
Herb stratum (Plot size: 5'R)			
1 *phalaris arundinacea*	60	Y	FACW
2 *Typha angustifolia*	25	Y	OBL
3 *Symphyotrichum lanceolatum*	5	N	FAC
4			
5			
6			
7			
8			
9			
10			
	90 = Total Cover		
Woody vine stratum (Plot size: 30'R)			
1			
2			
	0 = Total Cover		

Dominance Test Worksheet

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

Total Number of Dominant Species Across all Strata: 3 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 100.00% (A/B)

Prevalence Index Worksheet

Total % Cover of:

OBL species	55	x 1 =	55
FACW species	60	x 2 =	120
FAC species	5	x 3 =	15
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column totals	120 (A)		190 (B)

Prevalence Index = B/A = 1.58

Hydrophytic Vegetation Indicators:

- ____ Rapid test for hydrophytic vegetation
- X Dominance test is >50%
- X Prevalence index is ≤3.0*
- ____ Morphogical adaptations* (provide supporting data in Remarks or on a separate sheet)
- ____ Problematic hydrophytic vegetation* (explain)

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

Hydrophytic vegetation present? Y

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

SOIL **Sampling Point:** 9-WET

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

Depth (Inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type*	Loc**	Texture	Remarks
0-18"	N2.5	100					MUCK	Some clay lower

*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. **Location: PL = Pore Lining, M = Matrix

Hydric Soil Indicators:

- X Histisol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils:

- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L)**
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (explain in remarks)

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

Restrictive Layer (if observed):
Type: _____
Depth (inches): _____

Hydric soil present? Y

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- X Surface Water (A1)
- X High Water Table (A2)
- X Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- X Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- X FAC-Neutral Test (D5)

Field Observations:

Surface water present?	Yes	X	No		Depth (inches):	6"+ (Middle)
Water table present?	Yes	X	No		Depth (inches):	ENTIRE
Saturation present? (includes capillary fringe)	Yes	X	No		Depth (inches):	ENTIRE

Indicators of wetland hydrology present? Y

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

Remarks:

Cattails in middle of large wetland complex, reed canary & minimal brush around perimeter.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Matt Talbot CBRF Franklin | City/County: Franklin/Milwaukee | Sampling Date: 10-21-14

Applicant/Owner: Matt Talbot Recovery Services, Inc. | State: WI | Sampling Point: 10-UP

Investigator(s): Grant Duchac | Section, Township, Range: Sec 21, T5N, R21E

Landform (hillslope, terrace, etc.): | Local relief (concave, convex, none):

Slope (%): 4 | Lat: | Long: | Datum:

Soil Map Unit Name: ASA/BiA | NWI Classification: None

Are climatic/hydrologic conditions of the site typical for this time of the year? Y (If no, explain in remarks)

Are vegetation ____, soil ____, or hydrology ____ significantly disturbed? Are "normal circumstances" present? Yes

Are vegetation ____, soil ____, or hydrology ____ naturally problematic?

SUMMARY OF FINDINGS

(If needed, explain any answers in remarks.)

Hydrophytic vegetation present?	N
Hydric soil present?	N
Indicators of wetland hydrology present?	N

Is the sampled area within a wetland? N

If yes, optional wetland site ID:

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

VEGETATION -- Use scientific names of plants.

Tree Stratum (Plot size: 30'R)	Absolute % Cover	Dominant Species	Indicator Staus
1 *Crataegus mollis*	60	Y	FAC
2			
3			
4			
5			
	60	= Total Cover	

Sapling/Shrub stratum (Plot size: 30'R)			
1 *rhamnus cathartica*	75	Y	FAC
2 *lonicera x bella*	25	Y	FACU
3			
4			
5			
	100	= Total Cover	

Herb stratum (Plot size: 5'R)			
1 *parthenocissus quinquefolia*	40	Y	FACU
2 *glechoma hederacea*	20	Y	FACU
3 *rhamnus cathartica*	10	N	FAC
4			
5			
6			
7			
8			
9			
10			
	70	= Total Cover	

Woody vine stratum (Plot size: 30'R)			
1			
2			
	0	= Total Cover	

Dominance Test Worksheet

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

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

Percent of Dominant Species that are OBL, FACW, or FAC: 40.00% (A/B)

Prevalence Index Worksheet

Total % Cover of:			
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	145	x 3 =	435
FACU species	85	x 4 =	340
UPL species	0	x 5 =	0
Column totals	230 (A)		775 (B)

Prevalence Index = B/A = 3.37

Hydrophytic Vegetation Indicators:

- ___ Rapid test for hydrophytic vegetation
- ___ Dominance test is >50%
- ___ Prevalence index is ≤3.0*
- ___ Morphogical adaptations* (provide supporting data in Remarks or on a separate sheet)
- ___ Problematic hydrophytic vegetation* (explain)

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

Hydrophytic vegetation present? N

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

Dense buckthorn in uplands of site.

SOIL **Sampling Point:** 10-UP

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

Depth (Inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type*	Loc**	Texture	Remarks
0-10"	10 YR 2/1	100					SL	
10-14"	10 YR 2/1	80					SL	
	10 YR 4/4	20						
14-24"	10 YR 4/4	90	7.5 YR 5/8	10	C	M	CLAY	

*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. **Location: PL = Pore Lining, M = Matrix

Hydric Soil Indicators:

- ___ Histisol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils:

- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L)**
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (explain in remarks)

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

Restrictive Layer (if observed):
Type: _____
Depth (inches): _____

Hydric soil present? N

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ FAC-Neutral Test (D5)

Field Observations:

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

Indicators of wetland hydrology present? N

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

Remarks:

Dry profile, 1-2' higher than wetland.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Matt Talbot CBRF Franklin | City/County: Franklin/Milwaukee | Sampling Date: 10-21-14

Applicant/Owner: Matt Talbot Recovery Services, Inc. | State: WI | Sampling Point: 11-WET

Investigator(s): Grant Duchac | Section, Township, Range: Sec 21, T5N, R21E

Landform (hillslope, terrace, etc.): Flat - slight slope | Local relief (concave, convex, none):

Slope (%): 1 | Lat: | Long: | Datum:

Soil Map Unit Name: ASA | NWI Classification: E2H

Are climatic/hydrologic conditions of the site typical for this time of the year? Y (If no, explain in remarks)

Are vegetation ____, soil ____, or hydrology ____ significantly disturbed? Are "normal circumstances" present? Yes

Are vegetation ____, soil ____, or hydrology ____ naturally problematic? (If needed, explain any answers in remarks.)

SUMMARY OF FINDINGS

Hydrophytic vegetation present?	Y
Hydric soil present?	Y
Indicators of wetland hydrology present?	Y

Is the sampled area within a wetland? Y

If yes, optional wetland site ID:

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

VEGETATION -- Use scientific names of plants.

Tree Stratum (Plot size: 30'R)	Absolute % Cover	Dominant Species	Indicator Staus
1 *salix nigra*	10	Y	OBL
2			
3			
4			
5			
	10 = Total Cover		
Sapling/Shrub stratum (Plot size: 30'R)			
1 *cornus alba*	50	Y	FACW
2			
3			
4			
5			
	50 = Total Cover		
Herb stratum (Plot size: 5'R)			
1 *phalaris arundinacea*	40	Y	FACW
2 *carex sp.*	15	Y	FACW
3 *Typha angustifolia*	15	Y	OBL
4			
5			
6			
7			
8			
9			
10			
	70 = Total Cover		
Woody vine stratum (Plot size: 30'R)			
1			
2			
	0 = Total Cover		

Dominance Test Worksheet

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

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

Percent of Dominant Species that are OBL, FACW, or FAC: 100.00% (A/B)

Prevalence Index Worksheet

Total % Cover of:

OBL species	25	x 1 =	25
FACW species	105	x 2 =	210
FAC species	0	x 3 =	0
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column totals	130 (A)		235 (B)

Prevalence Index = B/A = 1.81

Hydrophytic Vegetation Indicators:

- ____ Rapid test for hydrophytic vegetation
- X Dominance test is >50%
- X Prevalence index is ≤3.0*
- ____ Morphogical adaptations* (provide supporting data in Remarks or on a separate sheet)
- ____ Problematic hydrophytic vegetation* (explain)

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

Hydrophytic vegetation present? Y

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

SOIL **Sampling Point:** 11-WET

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

Depth (Inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type*	Loc**	Texture	Remarks
0-6"	10 YR 2/1	100					MUCK	Some clay
6-12"	10 YR 2/1	80	7.5 YR 5/8	5	C	M	CLAY/MUCK	
	10 YR 5/2	15						
12-18"	10 YR 5/2	70	7.5 YR 5/8	20	C	M	CLAY	
	10 YR 4/4	10						

*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. **Location: PL = Pore Lining, M = Matrix

Hydric Soil Indicators:

- ___ Histisol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- X Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils:

- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L)**
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (explain in remarks)

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

Restrictive Layer (if observed):
Type: _____
Depth (inches): _____

Hydric soil present? Y

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- X Surface Water (A1)
- X High Water Table (A2)
- X Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- X Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- X FAC-Neutral Test (D5)

Field Observations:

Surface water present?	Yes	X	No		Depth (inches):	2"
Water table present?	Yes	X	No		Depth (inches):	ENTIRE
Saturation present? (includes capillary fringe)	Yes	X	No		Depth (inches):	ENTIRE

Indicators of wetland hydrology present? Y

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

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Matt Talbot CBRF Franklin | City/County: Franklin/Milwaukee | Sampling Date: 10-21-14

Applicant/Owner: Matt Talbot Recovery Services, Inc. | State: WI | Sampling Point: 12-UP

Investigator(s): Grant Duchac | Section, Township, Range: Sec 21, T5N, R21E

Landform (hillslope, terrace, etc.): Sloping | Local relief (concave, convex, none):

Slope (%): 4 | Lat: | Long: | Datum:

Soil Map Unit Name: MzdB2 | NWI Classification: None

Are climatic/hydrologic conditions of the site typical for this time of the year? Y (If no, explain in remarks)

Are vegetation ____, soil ____, or hydrology ____ significantly disturbed? Are "normal circumstances" present? Yes

Are vegetation ____, soil ____, or hydrology ____ naturally problematic?

SUMMARY OF FINDINGS

(If needed, explain any answers in remarks.)

Hydrophytic vegetation present?	Y
Hydric soil present?	N
Indicators of wetland hydrology present?	N

Is the sampled area within a wetland? N

If yes, optional wetland site ID:

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

VEGETATION -- Use scientific names of plants.

	Absolute % Cover	Dominant Species	Indicator Staus
Tree Stratum (Plot size: 30'R)			
1 *Crataegus mollis*	50	Y	FAC
2			
3			
4			
5			
	50 = Total Cover		
Sapling/Shrub stratum (Plot size: 30'R)			
1 *rhamnus cathartica*	80	Y	FAC
2 *lonicera x bella*	20	Y	FACU
3			
4			
5			
	100 = Total Cover		
Herb stratum (Plot size: 5'R)			
1 *rhamnus cathartica*	40	Y	FAC
2 *toxicodendron radicans*	5	N	FAC
3			
4			
5			
6			
7			
8			
9			
10			
	45 = Total Cover		
Woody vine stratum (Plot size: 30'R)			
1 *vitis riparia*	5	Y	FACW
2			
	5 = Total Cover		

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 4 (A)

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

Percent of Dominant Species that are OBL, FACW, or FAC: 80.00% (A/B)

Prevalence Index Worksheet

Total % Cover of:

OBL species	0	x 1 =	0
FACW species	5	x 2 =	10
FAC species	175	x 3 =	525
FACU species	20	x 4 =	80
UPL species	0	x 5 =	0
Column totals	200 (A)		615 (B)

Prevalence Index = B/A = 3.08

Hydrophytic Vegetation Indicators:

- ____ Rapid test for hydrophytic vegetation
- X Dominance test is >50%
- ____ Prevalence index is ≤3.0*
- ____ Morphogical adaptations* (provide supporting data in Remarks or on a separate sheet)
- ____ Problematic hydrophytic vegetation* (explain)

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

Hydrophytic vegetation present? Y

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

Common buckthorn growing throughout entire uplands of site. Buckthorn is suggesting wetland vegetation present due to the FAC status. No wetland hydrology or soils present at sample point and given the invasive & adaptive nature of buckthorn - vegetation should be upland.

SOIL **Sampling Point:** 12-UP

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

Depth (Inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type*	Loc**	Texture	Remarks
0-10"	10 YR 2/1-3/1	100					SL	
10-14"	10 YR 3/1	50					SCL	
	10 YR 4/4	50						
14-24"	10 YR 4/4	80	7.5 YR 5/8	20	C	M	CLAY	

*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. **Location: PL = Pore Lining, M = Matrix

Hydric Soil Indicators:

- ___ Histisol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils:

- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L)**
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (explain in remarks)

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

Restrictive Layer (if observed):
Type: _____
Depth (inches): _____

Hydric soil present? N

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ FAC-Neutral Test (D5)

Field Observations:

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

Indicators of wetland hydrology present? N

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

Remarks:

Dry profile, 2' upslope of wetland.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Matt Talbot CBRF Franklin | City/County: Franklin/Milwaukee | Sampling Date: 10-21-14

Applicant/Owner: Matt Talbot Recovery Services, Inc. | State: WI | Sampling Point: 13-WET

Investigator(s): Grant Duchac | Section, Township, Range: Sec 21, T5N, R21E

Landform (hillslope, terrace, etc.): Ditch/wooded drainage | Local relief (concave, convex, none):

Slope (%): 2-4% | Lat: | Long: | Datum:

Soil Map Unit Name: BiA | NWI Classification: E2K

Are climatic/hydrologic conditions of the site typical for this time of the year? Y (If no, explain in remarks)

Are vegetation ____, soil ____, or hydrology ____ significantly disturbed? Are "normal circumstances" present? Yes

Are vegetation ____, soil ____, or hydrology ____ naturally problematic?

SUMMARY OF FINDINGS

(If needed, explain any answers in remarks.)

Hydrophytic vegetation present?	Y
Hydric soil present?	Y
Indicators of wetland hydrology present?	Y

Is the sampled area within a wetland? Y

If yes, optional wetland site ID:

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

VEGETATION -- Use scientific names of plants.

Tree Stratum (Plot size: 30'R)	Absolute % Cover	Dominant Species	Indicator Staus
1 *fraxinus pennsylvanica*	20	Y	FACW
2			
3			
4			
5			
	20 = Total Cover		

Sapling/Shrub stratum (Plot size: 30'R)			
1 *rhamnus cathartica*	50	Y	FAC
2			
3			
4			
5			
	50 = Total Cover		

Herb stratum (Plot size: 5'R)			
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
	0 = Total Cover		

Woody vine stratum (Plot size: 30'R)			
1			
2			
	0 = Total Cover		

Dominance Test Worksheet

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

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

Percent of Dominant Species that are OBL, FACW, or FAC: 100.00% (A/B)

Prevalence Index Worksheet

Total % Cover of:

OBL species	0	x 1 =	0
FACW species	20	x 2 =	40
FAC species	50	x 3 =	150
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column totals	70 (A)		190 (B)

Prevalence Index = B/A = 2.71

Hydrophytic Vegetation Indicators:

- ____ Rapid test for hydrophytic vegetation
- X Dominance test is >50%
- X Prevalence index is ≤3.0*
- ____ Morphogical adaptations* (provide supporting data in Remarks or on a separate sheet)
- ____ Problematic hydrophytic vegetation* (explain)

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

Hydrophytic vegetation present? Y

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

Less vegetation in swale/ditch area (wetland)

SOIL **Sampling Point:** 13-WET

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

Depth (Inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type*	Loc**	Texture	Remarks
0-4"	10 YR 2/1	100					SCL	
4-8"	10 YR 2/1	90	7.5 YR 5/8	10	C	M	SCL	
8-12"	10 YR 2/1	50	7.5 YR 5/8	15	C	M	CLAY	
	10 YR 5/1	35						
12-18"	10 YR 5/1	80	7.5 YR 5/8	20	C	M	CLAY	

*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. **Location: PL = Pore Lining, M = Matrix

Hydric Soil Indicators:

- ___ Histisol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils:

- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L)**
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (explain in remarks)

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

Restrictive Layer (if observed):
Type: _____
Depth (inches): _____

Hydric soil present? Y

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ___ Surface Water (A1)
- X High Water Table (A2)
- X Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- X Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- X FAC-Neutral Test (D5)

Field Observations:

Surface water present?	Yes		No	X	Depth (inches):	
Water table present?	Yes	X	No		Depth (inches):	12"
Saturation present? (includes capillary fringe)	Yes	X	No		Depth (inches):	6"

Indicators of wetland hydrology present? Y

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

Remarks:

Surface wet, moist throughout.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Matt Talbot CBRF Franklin | City/County: Franklin/Milwaukee | Sampling Date: 10-21-14

Applicant/Owner: Matt Talbot Recovery Services, Inc. | State: WI | Sampling Point: 14-UP

Investigator(s): Grant Duchac | Section, Township, Range: Sec 21, T5N, R21E

Landform (hillslope, terrace, etc.): Sloping to ditch | Local relief (concave, convex, none):

Slope (%): 2 | Lat: | Long: | Datum:

Soil Map Unit Name: BiA | NWI Classification: None

Are climatic/hydrologic conditions of the site typical for this time of the year? Y (If no, explain in remarks)

Are vegetation ____, soil ____, or hydrology ____ significantly disturbed? Are "normal circumstances" present? Yes

Are vegetation ____, soil ____, or hydrology ____ naturally problematic?

SUMMARY OF FINDINGS

(If needed, explain any answers in remarks.)

Hydrophytic vegetation present?	Y
Hydric soil present?	N
Indicators of wetland hydrology present?	N

Is the sampled area within a wetland? N

If yes, optional wetland site ID:

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

Very thick buckthorn

VEGETATION -- Use scientific names of plants.

	Absolute % Cover	Dominant Species	Indicator Staus
Tree Stratum (Plot size: 30'R)			
1 *rhamnus cathartica*	60	Y	FAC
2			
3			
4			
5			
	60 = Total Cover		
Sapling/Shrub stratum (Plot size: 30'R)			
1 *rhamnus cathartica*	80	Y	FAC
2 *lonicera x bella*	20	Y	FACU
3			
4			
5			
	100 = Total Cover		
Herb stratum (Plot size: 5'R)			
1 *rhamnus cathartica*	20	Y	FAC
2			
3			
4			
5			
6			
7			
8			
9			
10			
	20 = Total Cover		
Woody vine stratum (Plot size: 30'R)			
1			
2			
	0 = Total Cover		

Dominance Test Worksheet

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

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

Percent of Dominant Species that are OBL, FACW, or FAC: 75.00% (A/B)

Prevalence Index Worksheet

Total % Cover of:			
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	160	x 3 =	480
FACU species	20	x 4 =	80
UPL species	0	x 5 =	0
Column totals	180 (A)		560 (B)

Prevalence Index = B/A = 3.11

Hydrophytic Vegetation Indicators:

- ____ Rapid test for hydrophytic vegetation
- X Dominance test is >50%
- ____ Prevalence index is ≤3.0*
- ____ Morphogical adaptations* (provide supporting data in Remarks or on a separate sheet)
- ____ Problematic hydrophytic vegetation* (explain)

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

Hydrophytic vegetation present? Y

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

Common buckthorn growing throughout entire uplands of site. Buckthorn is suggesting wetland vegetation present due to the FAC status. No wetland hydrology or soils present at sample point and given the invasive & adaptive nature of buckthorn - vegetation should be upland.

SOIL **Sampling Point:** 14-UP

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

Depth (Inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type*	Loc**	Texture	Remarks
0-10"	10 YR 2/1	100					SL	
10-12"	10 YR 2/1	70	7.5 YR 5/8	5	C	M	SCL	
	10 YR 5/1	25						
12-18"+	10 YR 5/1	90	7.5 YR 5/8	10	C	M	CLAY	

*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. **Location: PL = Pore Lining, M = Matrix

Hydric Soil Indicators:

- ___ Histisol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils:

- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L)**
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (explain in remarks)

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

Restrictive Layer (if observed):
Type: _____
Depth (inches): _____

Hydric soil present? N

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ FAC-Neutral Test (D5)

Field Observations:

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

Indicators of wetland hydrology present? N

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

Remarks:

1-2' Higher than ditch, dry profile.

APPENDIX B
SITE PHOTOGRAPHS

Data Point 1 – Wetland A

Data Point 2

Data Point 3 – Wetland B

Data Point 4

Data Point 5 – Wetland C

Data Point 6

Data Point 7 – Wetland C

Data Point 8

Data Point 9 – Wetland D

Data Point 10 at Boundary

Data Point 11 – Wetland D

Data Point 12

Data Point 13 – Wetland 13

Data Point 14

APPENDIX C
HISTORIC AERIAL PHOTOS

Franklin Phase I
9210 W. St. Martins Road
Franklin, WI 53132

Inquiry Number: 4154226.5
December 08, 2014

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Date EDR Searched Historical Sources:

Aerial Photography December 08, 2014

Target Property:

9210 W. St. Martins Road
Franklin, WI 53132

Year	***Scale***	***Details***	***Source***
1937	Aerial Photograph. Scale: 1"=500'	Flight Date: January 01, 1937	USGS
1941	Aerial Photograph. Scale: 1"=500'	Flight Date: January 01, 1941	AAA
1950	Aerial Photograph. Scale: 1"=500'	Flight Date: January 01, 1950	PMA
1956	Aerial Photograph. Scale: 1"=500'	Flight Date: January 01, 1956	CSS
1963	Aerial Photograph. Scale: 1"=500'	Flight Date: January 01, 1963	ASCS
1969	Aerial Photograph. Scale: 1"=500'	Flight Date: January 01, 1969	USDA
1979	Aerial Photograph. Scale: 1"=500'	Flight Date: January 01, 1979	USGS
1980	Aerial Photograph. Scale: 1"=500'	Flight Date: January 01, 1980	USGS
1986	Aerial Photograph. Scale: 1"=500'	Flight Date: January 01, 1986	USGS
1992	Aerial Photograph. Scale: 1"=500'	Flight Date: January 01, 1992	USGS
2000	Aerial Photograph. Scale: 1"=500'	DOQQ - acquisition dates: April 14, 2000	USGS/DOQQ
2005	Aerial Photograph. Scale: 1"=500'	Flight Year: 2005	USDA/NAIP
2006	Aerial Photograph. Scale: 1"=500'	Flight Year: 2006	USDA/NAIP
2008	Aerial Photograph. Scale: 1"=500'	Flight Year: 2008	USDA/NAIP
2010	Aerial Photograph. Scale: 1"=500'	Flight Year: 2010	USDA/NAIP


INQUIRY #: 4154226.5
YEAR: 1937
= 500'
N
EDR


INQUIRY #: 4154226.5
YEAR: 1941
= 500'
N
EDR

INQUIRY #: 4154226.5

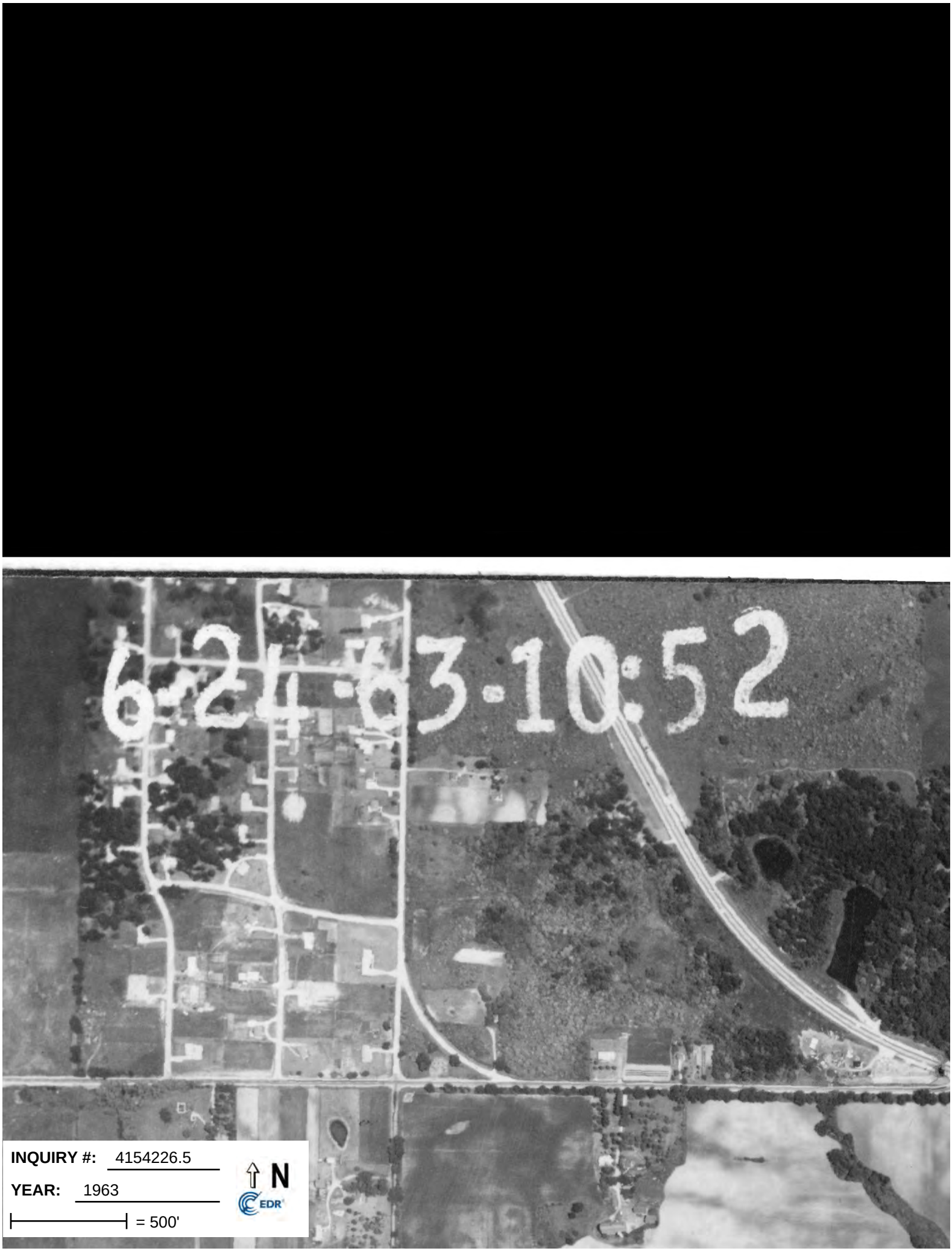
YEAR: 1950

= 500'

N

EDR


INQUIRY #: 4154226.5
YEAR: 1956
= 500'
N
EDR


6-24-63 10:52
INQUIRY #: 4154226.5
YEAR: 1963
= 500'
N
EDR


INQUIRY #: 4154226.5
YEAR: 1969
= 500'
N
EDR


INQUIRY #: 4154226.5
YEAR: 1979
= 500'
N
EDR


INQUIRY #: 4154226.5
YEAR: 1980
= 500'
N
EDR


INQUIRY #: 4154226.5
YEAR: 1986
= 500'
N
EDR


INQUIRY #: 4154226.5
YEAR: 1992
= 500'
N
EDR


INQUIRY #: 4154226.5
YEAR: 2000
= 500'
N
EDR


INQUIRY #: 4154226.5
YEAR: 2005
= 500'
N
EDR


INQUIRY #: 4154226.5
YEAR: 2006
= 500'
N
EDR


INQUIRY #: 4154226.5
YEAR: 2008
= 500'
N
EDR


INQUIRY #: 4154226.5
YEAR: 2010
= 500'
N
EDR

CITY OF FRANKLIN

REPORT TO THE PLAN COMMISSION

Meeting of March 19, 2015

Site Plan Amendment, Certified Survey Map and Land Division Variance

RECOMMENDATION: City Development Staff recommends approval of the proposed Certified Survey Map, Land Division Variance and Site Plan Amendment for the Kayla's Krew Playground and Park located at approximately 11120 West Loomis Road, subject to the conditions of approval in the attached draft resolution.

Project Name:	Kayla's Krew Playground and Park
Project Location:	11120 West Loomis Road
Property Owner:	Victory of the Lamb, Inc.
Applicant:	City of Franklin
Current Zoning:	I-1 Institutional District
2025 Comprehensive Plan:	Institutional and Areas of Natural Resource Features
Use of Surrounding Properties:	Agricultural use to the north, south and west and the Animal Campus Vet Clinic to the east
Applicant's Action Requested:	Approval of the proposed Certified Survey Map and Site Plan Amendment

Introduction and Background:

Please note:

- Staff recommendations are *underlined, in italics* and are included in the draft ordinance.
- Staff suggestions are only underlined and are not included in the draft resolution.

The City of Franklin has submitted the attached applications in anticipation of development of the Kayla's Krew Playground and Park at the Victory of the Lamb property, located at 11120 W. Loomis Road.

In this regard, it can be noted that the Common Council, at its July 15, 2014 meeting moved to,

> "direct staff to proceed with negotiations to provide the use, financing and development plans and agreements and acquisition necessary for the development of the All-accessible and All-inclusive Playground and Park Nature Center as generally presented by staff at the July 15, 2014 Common Council meeting and to return the results thereof to the Common Council when ready for final consideration by the Council."

and

> "state that the Common Council hereby expresses its full support for the All-accessible and All-inclusive playground and park nature center general concept as presented."

The Common Council, at its February 17, 2015 meeting, further moved to,

> "direct staff to prepare a letter of City sponsorship for Mayor's signature and for staff to continue negotiations to propel the development of the All-accessible and All-inclusive Playground and Park Nature Center proposed to be located at approximately 11120 West Loomis Road."

Based upon this Common Council direction, City staff has been meeting with representatives of Victory of the Lamb and Kayla's Krew in order to identify the best means to accomplish this goal and to identify the City approvals that would be needed to facilitate this project. From those discussions, it appears to City staff that the best means of accomplishing this project would entail:

- establishment of a public road, to be extended from W. Loomis Road to the proposed playground, to provide clear and safe public access to the proposed public playground/park;
- preparation of a Certified Survey Map, to create a new parcel to encompass the proposed public road and proposed public playground/park; and
- appropriate revisions to the previously approved Victory of the Lamb Site Plan incorporating such changes.

In addition, representatives of the Victory of the Lamb have indicated that they would like to begin construction of the Church this spring, and representatives of Kayla's Krew have indicated that they would like to begin construction of the playground this summer.

As the size of the proposed new lot will be constrained by the church and associated parking on one side, and by protected natural resource features on the other side, the width of the proposed public road right-of-way was reduced to minimize impacts to those natural resource features and to satisfy the church's parking demands. The proposed substandard right-of-way requires a land division variance pursuant to Section 15-9.0310 of the Unified Development Ordinance (UDO), which has also been prepared by City staff and included with this report.

Project Description:

Certified Survey Map

The attached certified survey map proposes to divide the Victory of the Lamb property at 11120 West Loomis Road into two separate lots. Lot 1 is approximately 5.96 acres and is the potential location for the Kayla's Krew Playground and Park. Lot 2 is 8.97 acres and would encompass the previously approved Victory of the Lamb Lutheran Church development.

Staff recommends approval of the Certified Survey Map subject to the condition that a separate written Conservation Easement agreement is prepared for Common Council review and approval and recording with Milwaukee County.

Site Plan:

The Site Plan for Victory of the Lamb has been revised to accommodate a City owned public road and Kayla's Krew Playground and Park and associated parking. The Victory of the Lamb church building is in the same location as identified on the previously approved Site Plan. The Church's parking has been reoriented into a more retail type configuration to provide sufficient parking in proximity to the church, and the Kayla's Krew Playground and Park as well.

In addition to the right-of-way width, the site plan does not meet the following standards, and therefore, *staff recommends that approval of the proposed Site Plan Amendment be contingent upon approval by the Board of Zoning and Building Appeals of a variance for the proposed drive width, parking setback and minimum parking space size as set forth in the subject Site Plan Amendment.*

The specific necessary variances are identified below:

- Section 15-5.0202A. Adequate Access
  - Required: Driveway width minimum of 24'
  - Proposed: 22'
- Section 15-5.0202B. Minimum Parking Space Size
  - Required: 9' wide and 180 SF
  - Proposed: 9' wide x 18' feet deep (162 SF)
- Section 15-5.0202C. Minimum Required Parking Lot Setbacks and Screening/Landscaping
  - C.1 and C.4. - Required: 10' parking space setback
  - Proposed: 0' in some cases (i.e. up to the ROW)

The previously approved landscaping, lighting, grading, utilities and erosion control for the Victory of the Lamb Church are not substantially impacted by the revised Site Plan. *Staff is recommending that the following conditions from the previous Site Plan approval remain.*

1. *The dumpster enclosure shall consist of materials that match that of the proposed building, subject to Department of City Development staff review and approval, prior to the issuance of a Building Permit*
2. *The Erosion Control/Grading Plan shall be revised to include rough grading, temporary landscaping, and appropriate long-term erosion control measures for the lands immediately adjacent to the northern portion of the parking lot for staff review and approval prior to issuance of a Building Permit.*
3. *Applicant shall connect to public sanitary sewer facilities once they become available.*
4. *Applicant shall submit a Lighting Plan in conformance with Division 15-5.0400 of the Unified Development Ordinance, for review and approval by Department of City Development staff, prior to issuance of a Building Permit.*
5. *All signs shall require separate review and approval by the Architectural Review Board and issuance of a Sign Permit from the Inspection Department.*
6. *Applicant shall obtain final approval of the storm water management plan from the City Engineer, prior to issuance of an Occupancy Permit.*
7. *Applicant shall submit a separate written Conservation Easement agreement for Common Council review and approval and recording with Milwaukee County.*

In regard to the Kayla's Krew Playground and Park, it can be noted that the final design has yet to be completed. However, staff anticipates that such construction will be undertaken by City staff or under City supervision, and that any changes will be relatively minor in scope. Therefore, *staff recommends that a final Site Plan for the Kayla's Krew Playground and Park be prepared for Parks Commission and Common Council review and approval prior to the commencement of work for the Kayla's Krew Playground.*

Land Division Variance

As previously stated, the proposed right-of-way does not conform to the standards of Table 15-5.0103 of the UDO, which requires a minimum 50-foot right-of-way width for Minor Streets (difficult site/natural resource protection option)." The required pavement width is 28-feet (face of curb to face of curb) with a minimum of 11-feet of lawn per side.

The proposed right-of-way width is 36-feet. The terrace width on each side of the proposed road will also not be met. Additionally, the pavement width may be slightly narrowed from the 28-foot required width as further detail design and engineering is undertaken. As such, a Land Division Variance Application has been submitted with the CSM Application.

Staff recommends approval of the variance as proposed.

Staff Recommendation:

City Development Staff recommends approval of the proposed Certified Survey Map, Site Plan Amendment, and Land Division Variance for the Kayla's Krew Playground located at approximately 11120 West Loomis Road, subject to the conditions of approval in the attached draft resolution.

STATE OF WISCONSIN CITY OF FRANKLIN MILWAUKEE COUNTY

[Draft 3-13-15]

RESOLUTION NO. 2015-_____

A RESOLUTION CONDITIONALLY APPROVING A 2 LOT CERTIFIED SURVEY MAP, BEING A PART OF THE NORTHEAST 1/4 AND SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 19, TOWNSHIP 5 NORTH, RANGE 21 EAST, CITY OF FRANKLIN, MILWAUKEE COUNTY, WISCONSIN
(CITY OF FRANKLIN, APPLICANT)
(11120 WEST LOOMIS ROAD)

WHEREAS, the City of Franklin, Wisconsin, having received an application for approval of a certified survey map, such map being a part of the Northeast 1/4 and Southeast 1/4 of the Southeast 1/4 of Section 19, Township 5 North, Range 21 East, City of Franklin, Milwaukee County, Wisconsin, more specifically, of the property located at 11120 West Loomis Road, bearing Tax Key No. 889-9989-000, City of Franklin, applicant; said certified survey map having been reviewed by the City Plan Commission and the Plan Commission having recommended approval thereof pursuant to certain conditions; and

WHEREAS, the Plan Commission having granted a Land Division Variance from Unified Development Ordinance Table 15-5.0103 to allow for a 36 foot wide right of way; and

WHEREAS, the Common Council having reviewed such application and Plan Commission recommendation and the Common Council having determined that such proposed certified survey map is appropriate for approval pursuant to law upon certain conditions.

NOW, THEREFORE, BE IT RESOLVED, by the Mayor and Common Council of the City of Franklin, Wisconsin, that the Certified Survey Map submitted by the City of Franklin, as described above, be and the same is hereby approved, subject to the following conditions:

1. That any and all objections made and corrections required by the City of Franklin, by Milwaukee County, and by any and all reviewing agencies, shall be satisfied and made by the applicant, prior to recording.

2. That all land development and building construction permitted or resulting under this Resolution shall be subject to impact fees imposed pursuant to §92-9. of the Municipal Code or development fees imposed pursuant to §15-5.0110 of the Unified Development Ordinance, both such provisions being applicable to the development and building permitted or resulting hereunder as it occurs from time to time, as such Code and Ordinance provisions may be amended from time to time.

3. Each and any easement shown on the Certified Survey Map shall be the subject of separate written grant of easement instrument, in such form as provided within the *City of Franklin Design Standards and Construction Specifications* and such form and content as may otherwise be reasonably required by the City Engineer or designee to further and secure the purpose of the easement, and all being subject to the approval of the Common Council, prior to the recording of the Certified Survey Map.

4. City of Franklin, successors and assigns, and any developer of the City of Franklin 2 lot certified survey map project, shall pay to the City of Franklin the amount of all development compliance, inspection and review fees incurred by the City of Franklin, including fees of consults to the City of Franklin, within 30 days of invoice for same. Any violation of this provision shall be a violation of the Unified Development Ordinance, and subject to §15-9.0502 thereof and §1-19. of the Municipal Code, the general penalties and remedies provisions, as amended from time to time.

5. The approval granted hereunder is conditional upon the City of Franklin and the 2 lot certified survey map project for the property located at 11120 West Loomis Road: (i) being in compliance with all applicable governmental laws, statutes, rules, codes, orders and ordinances; and (ii) obtaining all other governmental approvals, permits, licenses and the like, required for and applicable to the project to be developed and as presented for this approval.

6. A separate written Conservation Easement agreement shall be submitted for Common Council review and approval and recording with Milwaukee County.

7. [other conditions, etc.]

BE IT FURTHER RESOLVED, that the Certified Survey Map, certified by owner, Victory of the Lamb, Inc., be and the same is hereby rejected without final approval and without any further action of the Common Council, if any one, or more than one of the above conditions is or are not met and satisfied within 180 days from the date of adoption of this Resolution.

BE IT FINALLY RESOLVED, that upon the satisfaction of the above conditions within 180 days of the date of adoption of this Resolution, same constituting final approval, and pursuant to all applicable statutes and ordinances and lawful requirements and procedures for the recording of a certified survey map, the City Clerk is hereby directed to obtain the recording of the Certified Survey Map, certified by owner, Victory of the Lamb, Inc., with the Office of the Register of Deeds for Milwaukee County.

Introduced at a regular meeting of the Common Council of the City of Franklin this _____ day of _____, 2015.

Passed and adopted at a regular meeting of the Common Council of the City of Franklin this _____ day of _____, 2015.

APPROVED:

_____
Stephen R. Olson, Mayor

ATTEST:

_____
Sandra L. Wesolowski, City Clerk

AYES _____ NOES _____ ABSENT _____

STATE OF WISCONSIN CITY OF FRANKLIN MILWAUKEE COUNTY
PLAN COMMISSION *[Draft 3-13-15]*

RESOLUTION NO. 2015-____

A RESOLUTION GRANTING A LAND DIVISION VARIANCE AND AMENDING THE SITE PLAN FOR PROPERTY LOCATED AT 11120 WEST LOOMIS ROAD TO ALLOW FOR THE KAYLA'S KREW ALL-ACCESSIBLE AND ALL-INCLUSIVE PLAYGROUND DEVELOPMENT ON VICTORY OF THE LAMB LUTHERAN CHURCH PROPERTY (VICTORY OF THE LAMB, INC.)
(TAX KEY NO. 889-9989-000)
(CITY OF FRANKLIN, APPLICANT)

WHEREAS, the City of Franklin having applied for an amendment to the site plan for the property located at 11120 West Loomis Road, such Site Plan having been previously approved on December 4, 2014, by Resolution No. 2014-015; and

WHEREAS, such proposed amendment proposes development of a Kayla's Krew all-accessible and all-inclusive playground on Victory of the Lamb Lutheran Church property, and the Plan Commission having reviewed such proposal and having found same to be in compliance with and in furtherance of those express standards and purposes of a Site Plan review pursuant to Division 15-7.0100 of the Unified Development Ordinance.

NOW, THEREFORE, BE IT RESOLVED, by the Plan Commission of the City of Franklin, Wisconsin, that: i) a Land Division Variance from Unified Development Ordinance Table 15-5.0103 which requires a 50 foot wide right of way, to allow for a 36 foot wide right of way, is granted and such 50 foot requirement is specifically modified hereunder, pursuant to Section 15-9.0310A. of the Unified Development Ordinance; and ii) the Site Plan for the City of Franklin, dated March 12, 2015, as submitted by the City of Franklin, as described above, be and the same is hereby approved, subject to the following conditions:

1. The City of Franklin, successors and assigns and any developer of the Kayla's Krew all-accessible and all-inclusive playground project shall pay to the City of Franklin the amount of all development compliance, inspection and review fees incurred by the City of Franklin, including fees of consults to the City of Franklin, for the Kayla's Krew all-accessible and all-inclusive playground project, within 30 days of invoice for same. Any violation of this provision shall be a violation of the Unified Development Ordinance, and subject to §15-9.0502 thereof and §1-19. of the Municipal Code, the general penalties and remedies provisions, as amended from time to time.

2. The approval granted hereunder is conditional upon the City of Franklin and the Kayla's Krew all-accessible and all-inclusive playground project for the property located at 11120 West Loomis Road: (i) being in compliance with all applicable

governmental laws, statutes, rules, codes, orders and ordinances; and (ii) obtaining all other governmental approvals, permits, licenses and the like, required for and applicable to the project to be developed and as presented for this approval.

3. The City of Franklin Kayla's Krew all-accessible and all-inclusive playground project shall be developed in substantial compliance with the plans City file-stamped March 12, 2015.

4. A final Site Plan shall be submitted for the Kayla's Krew Playground and Park for Parks Commission and Common Council review and approval prior to the commencement of work for the Kayla's Krew Playground.

5. Victory of the Lamb, Inc. shall comply with the following conditions as previously required by Resolution 2014-015, a Resolution approval a Site Plan for Victory of the Lamb Lutheran Church Worship Center development:

    a. The dumpster enclosure shall consist of materials that match that of the proposed building, subject to Department of City Development staff review and approval, prior to the issuance of a Building Permit
    b. The Erosion Control/Grading Plan shall be revised to include rough grading, temporary landscaping, and appropriate long-term erosion control measures for the lands immediately adjacent to the northern portion of the parking lot for staff review and approval prior to issuance of a Building Permit.
    c. Applicant shall connect to public sanitary sewer facilities once they become available.
    d. Applicant shall submit a Lighting Plan in conformance with Division 15-5.0400 of the Unified Development Ordinance, for review and approval by Department of City Development staff, prior to issuance of a Building Permit.
    e. All signs shall require separate review and approval by the Architectural Review Board and issuance of a Sign Permit from the Inspection Department.
    f. Applicant shall obtain final approval of the storm water management plan from the City Engineer, prior to issuance of an Occupancy Permit.
    g. Applicant shall submit a separate written Conservation Easement agreement for Common Council review and approval and recording with Milwaukee County.

6. [other conditions, etc.]

BE IT FURTHER RESOLVED, by the Plan Commission of the City of Franklin, Wisconsin, that the City of Franklin Kayla's Krew all-accessible and all-inclusive playground development as depicted upon the plans City file-stamped March 12, 2015, attached hereto and incorporated herein, shall be developed and constructed within one year

from the date of adoption of this Resolution, or this Resolution and all rights and approvals granted hereunder shall be null and void, without any further action by the City of Franklin; and the Site Plan for the property located at 11120 West Loomis Road, as previously approved, is amended accordingly.

Introduced at a regular meeting of the Plan Commission of the City of Franklin this _____ day of _____, 2015.

Passed and adopted at a regular meeting of the Plan Commission of the City of Franklin this _____ day of _____, 2015.

APPROVED:

_____
Stephen R. Olson, Chairman

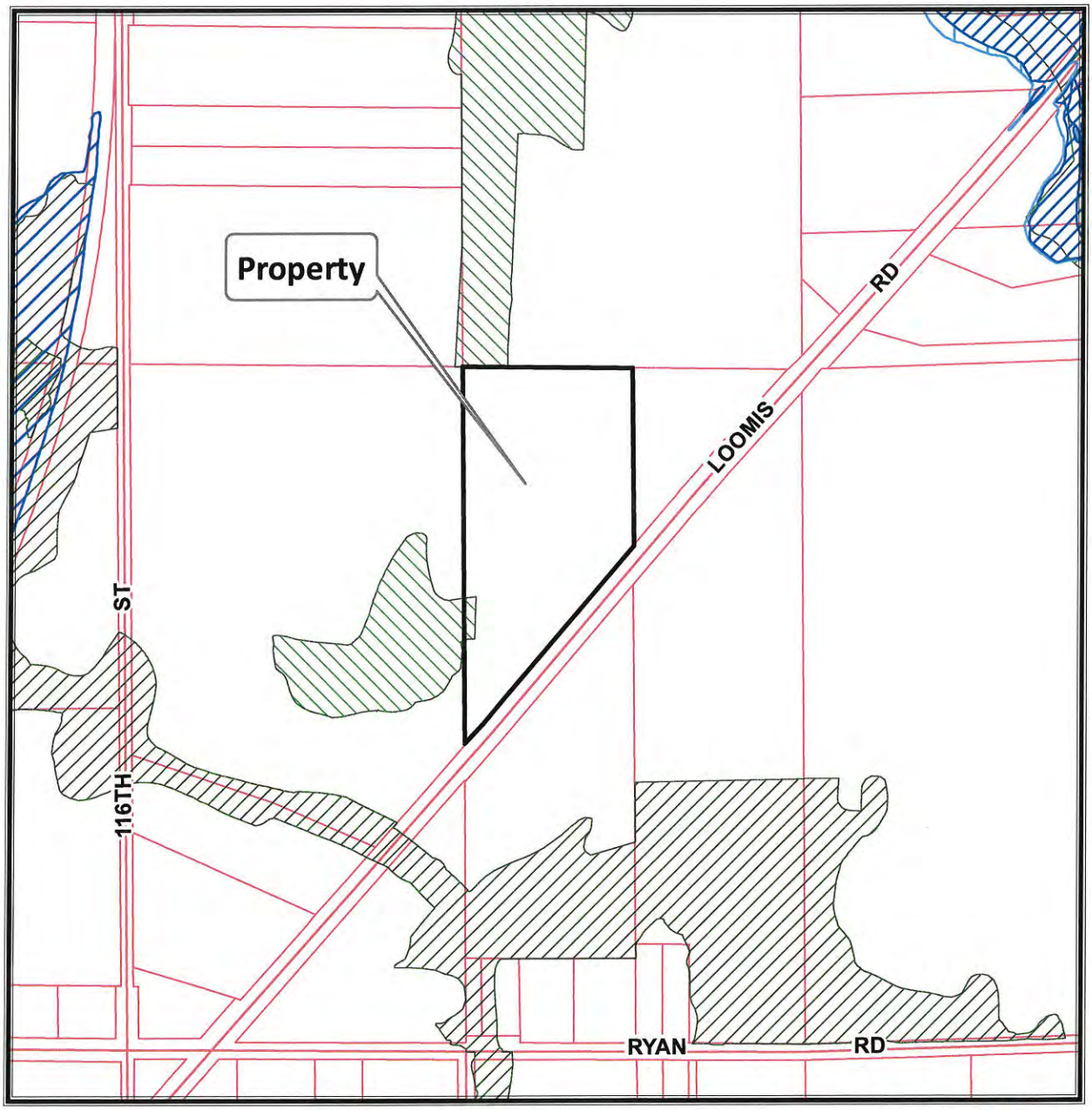
ATTEST:

_____
Sandra L. Wesolowski, City Clerk

AYES _____ NOES _____ ABSENT _____

City of Franklin

TKN 889-9989-000
11120 West Loomis Road



Planning Department
(414) 425-4024

NORTH

0 370 740 1,480 Feet

2013 Aerial Photo

This map shows the approximate relative location of property boundaries but was not prepared by a professional land surveyor. This map is provided for informational purposes only and may not be sufficient or appropriate for legal, engineering, or surveying purposes.

City of Franklin

TKN 889-9989-000
11120 West Loomis Road

Planning Department
(414) 425-4024

NORTH

0 150 300 600 Feet

2013 Aerial Photo

This map shows the approximate relative location of property boundaries but was not prepared by a professional land surveyor. This map is provided for informational purposes only and may not be sufficient or appropriate for legal, engineering, or surveying purposes.

Planning Department
9229 West Loomis Road
Franklin, Wisconsin 53132
Email: generalplanning@franklinwi.gov

City of Franklin

Phone: (414) 425-4024
Fax: (414) 427-7691
Web Site: www.franklinwi.gov

Findings and Factors in the Review of Land Division Variances

Date: March 13, 2015 **Case No.** _____

Property Owner: Victory of the Lamb, Inc.

Property Address: 11120 W. Loomis Road, Franklin WI 53132

Section 15-9.0310B.1 of the City of Franklin Unified Development Ordinance states, "No variance to the provisions of Divisions 15-5.0100, 15-8.0100, and 15-8.0200 of this Ordinance shall be granted unless the Plan Commission finds by the greater weight of the evidence that all the following facts and conditions exist and so indicates in the minutes of its proceedings:

1. There is exceptional, extraordinary, or unusual circumstances or conditions where a literal enforcement of the requirements of this Ordinance would result in severe hardship.

There is a unique partnership between the City of Franklin, Kayla's Krew non-profit organization and Victory of the Lamb Church to develop an all-inclusiveplayground on this northwest corner of the subject property. The property contains woodlands, wetlands and the associated wetland buffers and setbacks,which constrain the site and restricts the location and width of the needed public right-of-way.

2. Such hardships should not apply generally to other properties or be such a recurrent nature as to suggest that the land division portions of the Unified Development Ordinance should be changed.

This is a very unique situation and development that does not generally apply to other developments. This is a special, unique park use that requires public access through the church development. In conjunction with the proposed playground is conservation land that will beutilized for passive recreation and does not allow construction of the a road; therefore, there is no alternative access to the playground other than through the church property.

3. Such variance is necessary for the preservation and enjoyment of substantial property rights possessed by other properties in the same vicinity.

The proposed public right-of-way to access the Kayla's Krew playground development does not adversely impact adjacent properties,but rather will provide a public benefit and access to a City owned all-inclusive playground.

4. That the variance will not create substantial detriment to adjacent property and will not materially impair or be contrary to the purpose and spirit of this Ordinance or the public interest.

Adjacent property owners will not be impacted. The reduction in right-of-way width is consistent with the intent of the ordinance as the the right-of-way provides for safe and efficient access to a future City owned all-inclusive park, while protecting the natural resources located on the subject property. The width of actual pavement is not substantially reduced compared to UDO standards.

CERTIFIED SURVEY MAP NO. _____

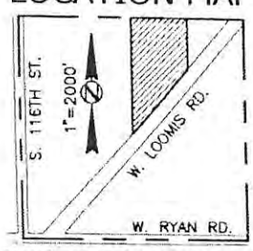
BEING A PART OF THE NE. 1/4 AND SE. 1/4 OF THE SE. 1/4 OF SECTION 19, T.05N., R.21E.,
CITY OF FRANKLIN, MILWAUKEE COUNTY, WISCONSIN

SURVEYOR:
JASON L. CANCE, PLS S-2688
SEH
10 N. BRIDGE STREET
CHIPPEWA FALLS, WI. 54729
(715) 720-6308
jcance@sehinc.com

OWNER/SUBDIVIDER:
TIM JOHNSON, PRESIDENT
VICTORY OF THE LAMB LUTHERAN CHURCH
7707 WEST PLAINSVIEW DRIVE
FRANKLIN, WI 53132
(414)403-3275

OVERALL DETAIL

LOCATION MAP



SE. 1/4 SEC. 19-T05N-R21E

PETER ANDROS LIVING TRUST
UNPLATTED LANDS
ZONED R-3

CENTER OF SEC.
SEC 19-05-21
326,756.14
2,520,133.40
CONC. MON W/
BRASS CAP FND

-1322.94'-

MILWAUKEE METRO
SEWAGE DIST.
UNPLATTED LANDS
ZONED R-2

-- NORTH LINE OF SE 1/4 SEC. 19-5-21 S89°26'37"E 2645.87'--

S89°26'37"E 661.47' (661.57)

--661.46'--
(661.57)

302.50'

358.97'

30'

EAST 1/4 COR.
SEC 19-05-21
326,730.45
2,522,778.98
CONC. MON W/ BRASS
CAP FND

EX. BLDG

WETLANDS "C"

LOT 2
391,016 S.F.
8.97 AC.

MEINERZ PROPERTIES LLC
UNPLATTED LANDS
ZONED B-3

S0°35'02"E 596.63'
(NORTH)

WEST 1/2 OF SE 1/4 SEC. 19-5-21

N0°35'58"W 1369.86'

WETLANDS "B"

EX. BILLBOARD SIGN

LOT 1
259,470 S.F.
5.96 AC.

426.09'

W. LOOMIS ROAD (S.T.H. 36)
160' ROW

S40°23'11"W 967.19'

WETLANDS "A"

S41°23'51"W 40.08'

BUILDING SETBACK LINE (TYP.)

541.10'

10'

42'

160'

SEE SHEET 3 FOR LINE AND CURVE TABLE
SEE SHEET 2 FOR WETLAND DETAIL
SEE SHEET 4 FOR WETLAND LINE TABLE

WISCONSIN
JASON L. CANCE
S-2688
CHIPPEWA FALLS WI
LAND SURVEYOR

3-6-2015

BUILDING SETBACK
ZONING I-1
FRONT - 42'
SIDES - 10'
REARS - 30'

SCALE IN FEET
0 100 200

LEGEND
- CONC. MON. W/ BRASS CAP FND.
- 1" IRON PIPE FOUND (UNLESS OTHERWISE STATED)
- 1" DIA. IRON PIPE SET, 18" LONG, WT. = 1.13 LBS./LIN. FT.
- (XXXXX) - PLATTED/DEEDED DIMENSION
- SB - SOIL BORINGS

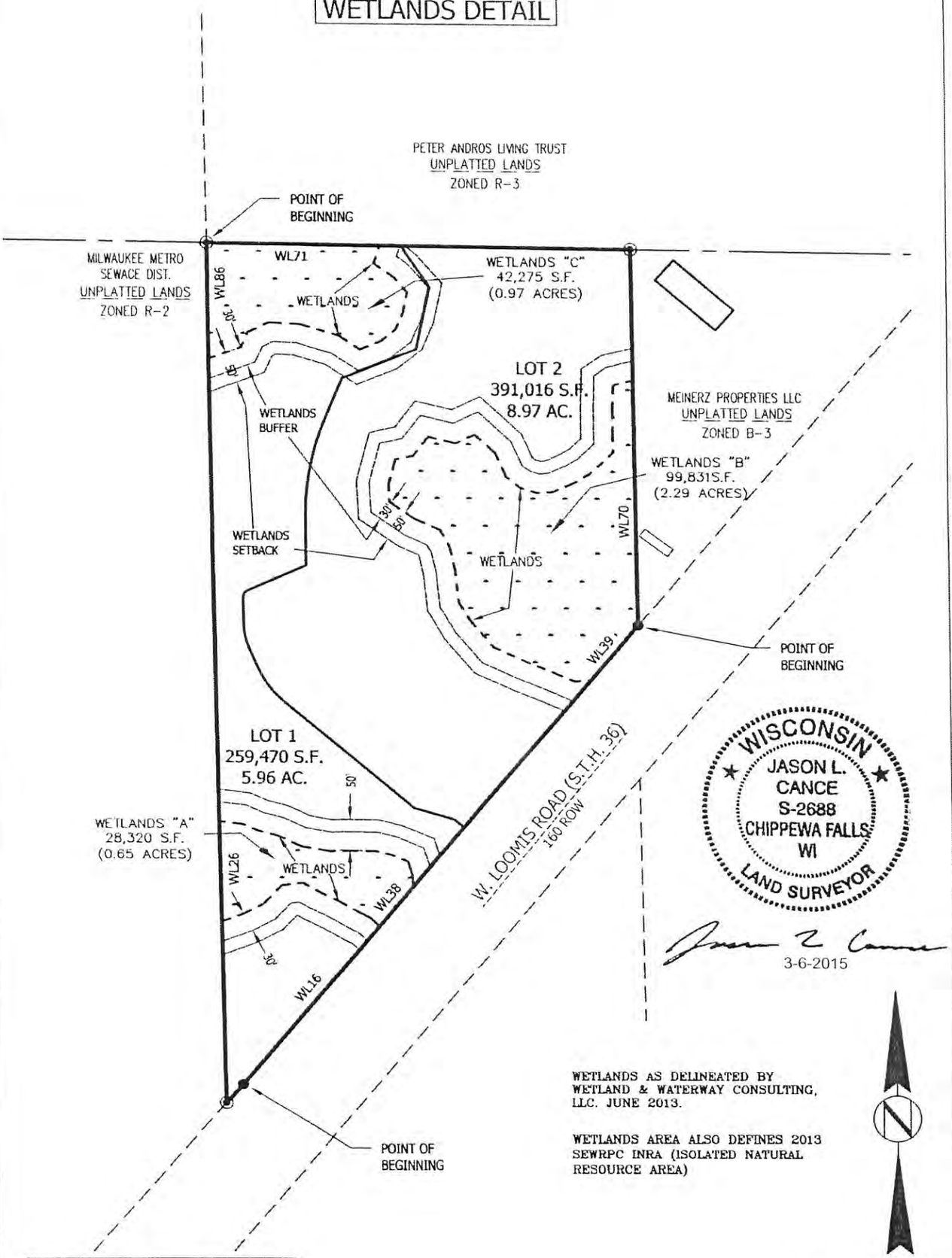
BEARINGS ARE REFERENCED TO THE WISCONSIN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE (NAD 1927) GRID NORTH ON THE NORTH LINE OF THE SE 1/4 OF SECTION 19-5-21 AS S89°26'37"E.

PROJECT NO. 16147 THIS INSTRUMENT DRAFTED BY PETER TUFTEE

CERTIFIED SURVEY MAP NO. _____

BEING A PART OF THE NE. 1/4 AND SE. 1/4 OF THE SE. 1/4 OF SECTION 19, T.05N., R.21E.,
CITY OF FRANKLIN, MILWAUKEE COUNTY, WISCONSIN

WETLANDS DETAIL



WISCONSIN
JASON L. CANCE
S-2688
CHIPPEWA FALLS WI
LAND SURVEYOR

3-6-2015

WETLANDS AS DELINEATED BY WETLAND & WATERWAY CONSULTING, LLC. JUNE 2013.

WETLANDS AREA ALSO DEFINES 2013 SEWRPC INRA (ISOLATED NATURAL RESOURCE AREA)

SEE SHEET 4 FOR WETLAND LINE TABLE

SCALE IN FEET
0 100 200

CERTIFIED SURVEY MAP NO. _____

BEING A PART OF THE NE. 1/4 AND SE. 1/4 OF THE SE. 1/4 OF SECTION 19, T.05N., R.21E.,
CITY OF FRANKLIN, MILWAUKEE COUNTY, WISCONSIN

Line/ Curve Table							
Line #	Direction	Length	ARC DIST	RADIUS	TAN BEARING 1	TAN BEARING 2	DELTA
L1	N49°36'49"W	19.36					
L2	N73°58'11"W	65.75					
L3	N49°38'57"W	263.55					
C1	N36°32'24"W	64.87	65.44	143.00	S40°21'01"W	S66°34'11"W	26°13'11"
L4	N23°25'51"W	36.10					
C2	N12°00'55"W	36.81	37.06	93.00	S66°34'13"W	S89°23'57"W	22°49'43"
L5	N00°35'57"W	44.78					
C3	N32°59'05"E	14.38	15.24	13.00	S89°24'23"W	N23°26'13"W	67°09'24"
L6	N66°34'08"E	99.12					
L7	N00°00'00"E	79.15					
C4	N11°41'32"E	157.68	158.77	389.00	S89°59'56"W	N66°36'52"W	23°23'12"
L8	N23°23'11"E	68.01					
L9	N68°01'21"E	125.13					
L10	N12°25'03"E	101.03					
L11	N34°42'08"W	78.22					

WISCONSIN
JASON L. CANCE
S-2688
CHIPPEWA FALLS WI
LAND SURVEYOR

3-6-2015

CERTIFIED SURVEY MAP NO. _____

BEING A PART OF THE NE. 1/4 AND SE. 1/4 OF THE SE. 1/4 OF SECTION 19, T.05N., R.21E.,
CITY OF FRANKLIN, MILWAUKEE COUNTY, WISCONSIN

WETLANDS "A" LINE TABLE		
Line #	Length	Direction
WL16	333.58	N40°23'11"E
WL17	19.65	N46°31'24"W
WL18	18.51	N63°34'04"W
WL19	38.65	N60°43'23"W
WL20	32.97	N64°03'58"W
WL21	27.87	N60°49'07"W
WL22	33.20	S83°51'04"W
WL23	42.04	S44°12'27"W
WL24	34.61	S62°50'33"W
WL25	36.18	S70°12'33"W
WL26	159.78	N00°35'58"W
WL27	35.75	S82°58'24"E
WL28	27.12	S66°12'58"E
WL29	32.28	S75°45'13"E
WL30	38.68	S65°10'50"E
WL31	47.11	S80°05'43"E
WL32	30.78	N88°29'24"E
WL33	39.60	S89°02'31"E
WL34	24.86	S75°41'01"E
WL35	28.11	S67°25'13"E
WL36	22.76	S17°02'55"E
WL37	18.50	S00°08'43"W
WL38	81.46	S40°23'11"W

WETLANDS "B" LINE TABLE		
Line #	Length	Direction
WL39	114.83	S40°23'11"W
WL40	26.47	S85°15'25"W
WL41	33.52	N66°24'08"W
WL42	49.72	N68°11'07"W
WL43	52.67	N65°39'09"W
WL44	55.40	N40°31'09"W
WL45	36.41	N29°55'07"W
WL46	51.77	N05°30'02"W
WL47	37.56	N12°55'26"W
WL48	28.14	N29°39'59"W
WL49	45.85	N65°52'09"W
WL50	44.78	N55°43'35"W
WL51	27.88	N03°00'35"W
WL52	41.64	N15°16'19"E
WL53	28.52	N77°30'01"E
WL54	38.50	N38°27'27"E
WL55	43.88	S76°34'52"E
WL56	33.26	N64°57'46"E
WL57	43.33	S47°43'24"E
WL58	41.73	S23°54'22"E
WL59	28.12	S52°08'53"E
WL60	26.62	S73°02'25"E
WL61	24.19	N85°49'57"E
WL62	36.64	N66°47'40"E
WL63	27.47	N59°46'19"E
WL64	51.87	N47°14'58"E
WL65	28.01	N01°00'52"W
WL66	43.45	N00°14'52"E
WL67	33.39	N01°35'36"E
WL68	3.15	N55°12'33"E
WL69	29.31	N75°36'18"E
WL70	389.28	S00°35'01"E

WETLANDS "C" LINE TABLE		
Line #	Length	Direction
WL71	270.05	S89°26'37"E
WL72	29.43	S19°21'01"W
WL73	4.10	S50°29'33"E
WL74	34.27	S54°48'44"E
WL75	31.34	S41°39'13"E
WL76	34.32	S12°25'03"W
WL77	28.10	S23°40'32"W
WL78	29.49	S52°02'30"W
WL79	35.32	S68°01'21"W
WL80	39.15	N57°09'54"W
WL81	63.82	N73°22'03"W
WL82	47.45	N87°09'21"W
WL83	36.68	S64°04'41"W
WL84	26.09	S25°03'32"W
WL85	53.48	S69°56'27"W
WL86	182.96	N00°35'32"W

WISCONSIN
JASON L. CANCE
S-2688
CHIPPEWA FALLS WI
LAND SURVEYOR

3-6-2015

PROJECT NO. 16147 THIS INSTRUMENT DRAFTED BY PETER TUFTEE

CERTIFIED SURVEY MAP NO. _____

BEING A PART OF THE NE. 1/4 AND SE. 1/4 OF THE SE. 1/4 OF SECTION 19, T.05N., R.21E.,
CITY OF FRANKLIN, MILWAUKEE COUNTY, WISCONSIN

SURVEYOR'S CERTIFICATE:

I, Jason L. Cance, Professional Land Surveyor hereby certify;

That I have surveyed, divided and mapped part of the NE 1/4 and SE 1/4 of the SE 1/4 of Section 19, T05N, R21E, City of Franklin, Waukesha County, Wisconsin more particularly described as follows:

Commencing at the East 1/4 corner of said Section 19, thence N89°26'37"W along the North line of the Southeast 1/4 of Section 19 a distance of 661.46 feet to the point of beginning of the hereinafter described lands:

Thence S00°35'02"E, 596.63 feet, to the North right-of-way of W. Loomis Road (S.T.H. 36) as described in Warranty deed # 7314748; thence S40°23'11"W, along said right-of-way, 967.19 feet; thence S41°23'51"W, along said right-of-way, 40.08 feet; thence N00°35'58"W, along the west 1/2 of the SE 1/4 of Sec. 19, 1369.86 feet, to a point on the North line of SE 1/4 of Sec. 19; thence S89°26'37"E, 661.47 feet to the point of beginning.

Said lands contain 650,486 Sq.Ft. Or 14.93 Acres.

That I have made such survey, land division and plat by the direction of the owner(s) of said lands.

That such survey is a correct representation of all the exterior boundaries of the lands surveyed and the division thereof made.

That I have fully complied with the provisions of Chapter 236 of the Wisconsin State Statutes and the subdivision regulations of the City of Franklin and Milwaukee County in surveying, dividing and mapping the same.

Dated this 6th day of March, 2015.

Jason L. Cance, PLS 2688

COMMON COUNCIL APPROVAL:

Approved by the Common Council of the City of Franklin on this _____ day of _____, 20___.

_____

Stephen Olson, Mayor

_____

Sandra L. Wesolowski, City Clerk

CERTIFIED SURVEY MAP NO. _____

BEING A PART OF THE NE. 1/4 AND SE. 1/4 OF THE SE. 1/4 OF SECTION 19, T.05N., R.21E.,
CITY OF FRANKLIN, MILWAUKEE COUNTY, WISCONSIN

CONSENT OF CORPORATE MORTGAGEE:

_____, a corporation duly organized and existing under and by virtue of the laws of the State of _____ mortgagee of the above described land, does hereby consent to the surveying, dividing, mapping and dedication of the land described on this plat, and does hereby consent to the above certificate of Victory of the Lamb Lutheran Church, Tim Johnson, President.

IN WITNESS WHEREOF, said _____ has caused these presents to be signed by _____, its _____, and countersigned by _____, its _____ at _____, _____, and its corporate seal to be hereunto affixed this _____ day of _____, 20 _____.

_____ _____

_____ _____

STATE OF _____)
_____ COUNTY) SS)

Personally came before me this _____ day of _____, 20 _____, the above named _____, _____, and _____, _____ of the above named corporation, to me known to be the persons who executed the foregoing instrument, and to me known to be such _____ and _____ of said corporation, and acknowledged that they executed the foregoing instrument as such officers as the deed of said corporation, by its authority.

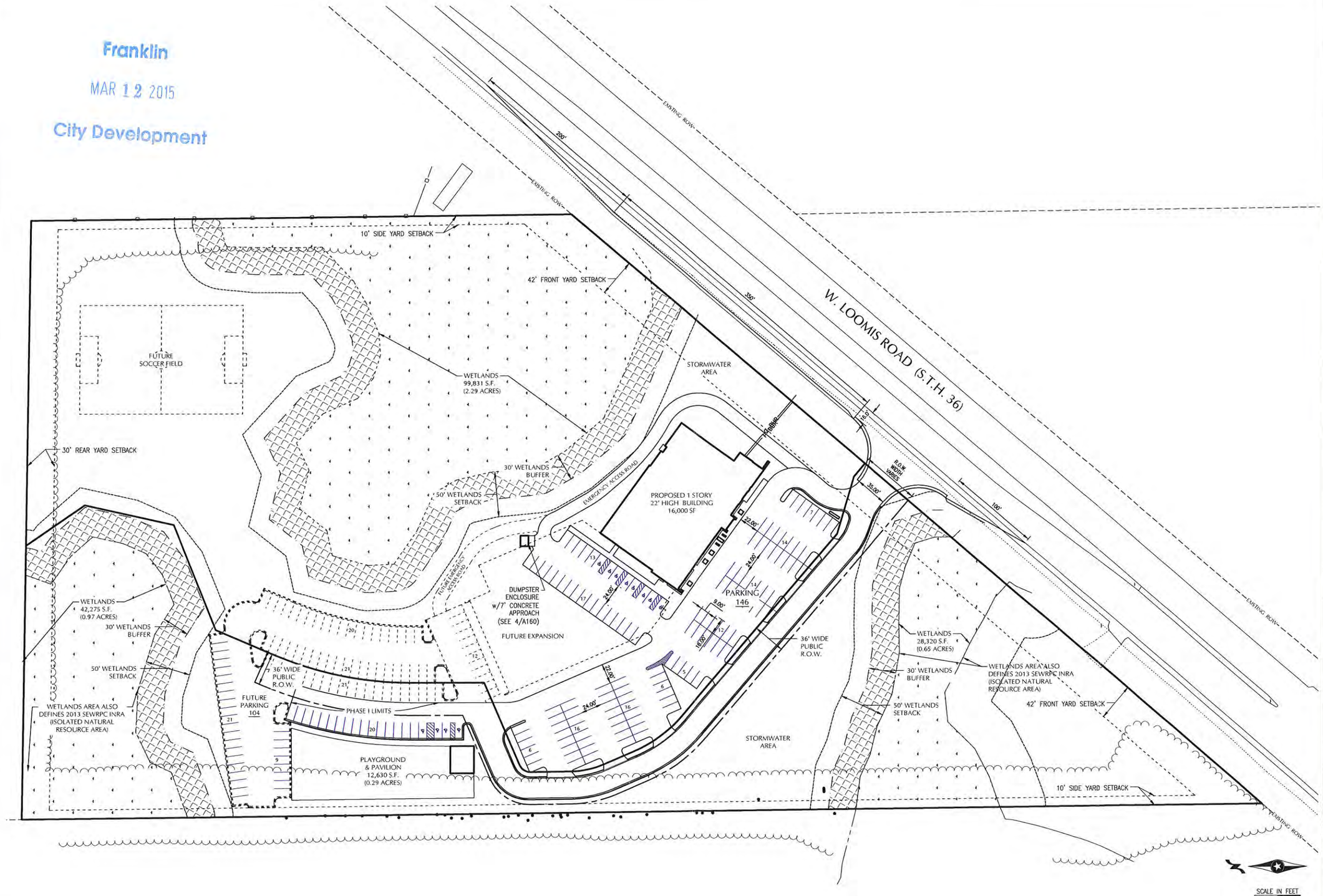
(Notary Seal) _____

Notary Public, _____,

My commission expires_____.

WISCONSIN
JASON L. CANCE
S-2688
CHIPPEWA FALLS WI
LAND SURVEYOR

3-6-2015



SEH YAGGY
ENGINEERS
LANDSCAPE ARCHITECTS
SURVEYORS • PLANNERS
501 MAPLE AVENUE
DELAFIELD, WISCONSIN 53018
262-646-6855
FAX 262-646-6864
GREEN TIER
Advantage. Business. Advantage. Environment.

VICTORY OF THE LAMB
0 (10700) W. LOOMIS RD.
CITY OF FRANKLIN, WISCONSIN

SITE PLAN

PROJECT NUMBER	16147
DATE	MARCH, 2015
DRAWN BY	PAL
CHECKED BY	I. VAYNBERG
REVISION HISTORY	

SHEET NUMBER
C 1
OF SHEETS