

Item 7D.
BCWMC 11-18-20
Full documents available upon request

## Minnesota Wetland Conservation Act Notice of Application

<b>Local Government Unit</b> : City of	of Plymouth County: Hennepin
Applicant Name: City of Plymo	uth Applicant Representative: Amy Hanson
<b>Project Name:</b> Plymouth Fire Stat	ion II LGU Project No. (if any): 2020-11
Date Complete Application Recei	ved by LGU: 10/12/2020
Date this Notice was Sent by LGL	J: 10/16/2020
	lication Must Be Received By LGU1: 11/6/2020
<sup>1</sup> minimum 15 business day comment perio	d for Boundary & Type, Sequencing, Replacement Plan and Bank Plan Applications
WCA Decision Type - check all that	apply
$\square$ Wetland Boundary/Type $\square$	Sequencing $\square$ Replacement Plan $\square$ Bank Plan (not credit purchase)
☐ No-Loss (8420.0415)	⊠Exemption (8420.0420)
Part: □ A □ B □ C □ D □ E	□ F □ G □ H Subpart: □ 2 □ 3 □ 4 ☒ 5 □ 6 □ 7 □ 8 □ 9
Replacement Plan Impacts (replac	ement plan decisions only)
Total WCA Impact Area Proposed	l:
Application Materials	
	): The applicant believes that due to operations of the fire station
(equipment draining and training)	that wetland #2 (2,254 sq ft) should be considered incidental.
<sup>1</sup> Link to ftp or other accessible file sha	ring sites is acceptable.
Comments on this application sho	uld be sent to:
	broich, Water Resources Supervisor
E-Mail Address: bscharenbroich@	plymouthmn.gov
	0 Plymouth Blvd, Plymouth, MN 55447
Decision-Maker for this Applicati	
Staff ⊠ Governing Board/Co	ouncil
Notice Distribution (include name	
Required on all notices:	
⊠ SWCD TEP Member: <b>Ms. Stacey L</b> i	jewski, HCA, 701 Fourth Avenue South, Suite 700, Minneapolis, MN 55415-1600
■ BWSR TEP Member: Ben Carlson,	BWSR, 520 Lafayette Road North, St. Paul, MN 55401
☐ LGU TEP Member (if different that	n LGU contact):Ben Scharenbroich, 3400 Plymouth Blvd, Plymouth MN 55447
☑ DNR Representative: <b>Melissa</b>	Collins, MnDNR, 1200 Warner Road, St. Paul, MN 55106
Lucas Yo	oungsma, MnDNR, 1200 Warner Road, St. Paul, MN 55106
☐ Watershed District or Watershed	Mgmt. Org.: BCWMC 16145 Hillcrest Lane, Eden Prairie MN 55346
☐ Applicant (notice only): Amy Har	nson, City of Plymouth, 3400 Plymouth Blvd, Plymouth MN 55447
☐ Agent/Consultant (notice only):	
Optional or As Applicable:	

☐ Corps of Engineers: US Army Corps of Engineers, c/o Jonathan Bakken, 180 Fifth Street East, Suite 700, St.

Paul MN 55101-1678			
☐ BWSR Wetland Mitigation Coordinator (required for bank plan applications only):			
☑ Members of the Public (notice only): Quinn Hutson, CNH Architects, 7300 147th St W #504 Apple Valley MN			
55124			
Brooke Jacobson, CNH Architects, 7300 147th St W #504 Apple Valley MN 55124			
☐ Other:			
Signature:	Date:		
Ben Schambartil	10/16/2020		

This notice and accompanying application materials may be sent electronically or by mail. The LGU may opt to send a summary of the application to members of the public upon request per 8420.0255, Subp. 3.





### Plymouth Fire Station #2 - Wetland Narrative

October 11, 2020 CNH No.: 19112

#### **Existing Conditions**

There is an existing 2,754 square foot area previously delineated as a wetland on the west side of the property at 12000 Old Rockford Road as shown in the attached exhibit sheet C600. The site currently is home to Plymouth Fire Station #2 and a municipal water source well and pumphouse.

#### **Proposed Construction**

The current fire station is scheduled to be replaced as it no longer meets the needs of the fire service in operational function nor does it meet current National Fire Protection Association guidelines for fire stations and firefighter health. Further, this facility has met its usable life expectancy and is experiencing significant physical issues including water intrusion to the extent that the basement level is not occupiable. As a result, a new 30,700 square foot fire station is proposed on this site along with the site pavement and parking required for a fire station. The municipal water source pumphouse will remain in its existing location on this site.

#### Wetland Impacts

The new construction shows the removal of the existing wetland as a result of both the building footprint and the apparatus response drive. Multiple other options were reviewed in the attempt to avoid impacting the existing wetlands, none of which were practical as indicated in the following list.

**Option 1:** Demolish the existing fire station and rebuild in the existing location. This option is not practical as it would leave the portion of the city protected by this Fire Station unprotected or covered by other stations that would not be able to respond to emergencies in an acceptable response time. Therefor this option does not meet public safety requirements.

**Option 2:** Flip the building to place the apparatus bays on the south side of the site. This option puts the apparatus response drive too close to the intersection of Old Rockford Road and Larch Lane for safety. Further this option results in an overlap of the new and existing apparatus bays which, as noted in the above option, does not meet public safety requirements during the time between demolition and reconstructed apparatus areas.

**Option 3:** Reduce the width of the building and extend it to the north. This option is not possible as moving to the north closer to the municipal water source well is not permitted by the setback requirements established by the Minnesota Department of Health. These setbacks are set to protect

the safety of public water sources which also results in a public safety restriction prohibiting this option.

#### Conclusion

In summary, the replacement of Fire Station #2 will result in the need to remove the small wetland currently located on this property. Multiple other site design options were reviewed, none of which resulted in a design that would meet the significant public safety issues associated with the city's fire service or municipal water source.

Respectfully submitted,

Quinn Hutson, AIA, LEED AP

Principal
CNH Architects





## Minnesota Wetland Conservation Act Notice of Application

Local Government Unit:	City of Plymouth	County: Hennepin	
Applicant Name: Michael	•		
Applicant Representative:		t Natural Resources Inc.	
Project Name: 10805 Sout			
LGU Project No. (if any):			
Date Complete Application			
Date this Notice was Sent	•		
		Be Received By LGU¹: 11/5/2020	
<sup>1</sup> minimum 15 business day comm	ent period for Boundary &	R Type, Sequencing, Replacement Plan and Bank Plan Applications	
WCA Decision Type - check	all that apply		
☑ Wetland Boundary/Type	e 🗆 Sequencing	☐ Replacement Plan ☐ Bank Plan (not credit purchase)	
□ No-Loss (8420.0415)		☐ Exemption (8420.0420)	
Part: □ A □ B □ C □ [	D $\square$ E $\square$ F $\square$ G $\square$ H		
		·	
Replacement Plan Impacts		ecisions only)	
Total WCA Impact Area Pr	oposed:		
Application Materials			
□ Attached □ Other¹ (s	specify):		
<sup>1</sup> Link to ftp or other accessible		eptable.	
•	_		
Comments on this applicati			
LGU Contact Person: Ben S		•	
E-Mail Address: bscharenb	• •		
Address and Phone Number: 3400 Plymouth Blvd, Plymouth, MN 55447			
Decision-Maker for this Ap	•		
□ Staff □ Governing Box	oard/Council 🗆 Ot	her (specify):	
Notice Distribution (include	name)		
Required on all notices:			
		01 Fourth Avenue South, Suite 700, Minneapolis, MN 55415-1600	
⊠ BWSR TEP Member: <b>Ben (</b>	Carlson, BWSR, 520 Laf	ayette Road North, St. Paul, MN 55401	
☐ LGU TEP Member (if differ	ent than I CII contact):		
,	•		
☑ DNR Representative: Melissa Collins, MnDNR, 1200 Warner Road, St. Paul, MN 55106 Lucas Youngsma, MnDNR, 1200 Warner Road, St. Paul, MN 55106			
	acas Tourigaina, Wille	orn, 1200 Warrier Road, St. Faul, Will 35100	
□ Watershed District or Wat	ershed Mamt Org · <b>B</b> (	CWMC, 16145 Hillcrest Lane, Eden Prairie MN 55346	
	c.c.ica ingilia orga		
□ Applicant (notice only): M	ichael Wittkop, 6270	Hunter Road, Hamel MN 55340	
☐ Agent/Consultant (notice only): Ken Arndt, Midwest Natural Resources Inc, 1032 West Seventh St #150, St.			
Paul MN 55102	,,	, <u>.</u>	
Optional or As Applicable:			
□ Corps of Engineers: US Ar	my Corps of Engineer	rs, 180 5th Street East, Suite 700, St. Paul MN 55101	

☐ BWSR Wetland Mitigation Coordinator (required for bank plan applications only):			
☐ Members of the Public (notice only):	☐ Other:		
Signature:	Date:		
Ben Schambadil	10/15/2020		

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## WETLAND DELINEATION REPORT

## 10805 SOUTH SHORE DR.

## PLYMOUTH, MINNESOTA

Prepared for: Michael Wittkop 6270 Hunter Rd. Hamel, MN 55340



**OCTOBER 12, 2020** 

Prepared by: Midwest Natural Resources, Inc. 1032 West 7th Street, Suite 150 St. Paul, Minnesota 55102



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#### Introduction

Midwest Natural Resources, Inc. (MNR) was contracted by Michael Wittkop to provide wetland delineation services for an approximate 1-acre property located at 10805 South Shore Dr. in Plymouth, Hennepin County, Minnesota (**Appendix A, Figure 1**). On October 5<sup>th</sup>, 2020 MNR conducted a routine wetland delineation within the subject property to determine current wetland boundaries. In all, the boundary of one wetland was delineated within the property.

#### **Objective**

To determine and delineate any wetland boundaries that may be located within the approximate 1-acre property. This information will be used for the planning of a land use change for the site.

#### Methodology

Prior to conducting the fieldwork, existing data were reviewed. These data include the U.S. Fish and Wildlife Service National Wetlands Inventory and the MN DNR National Wetlands Inventory Update June, 2013 (**Appendix A, Figure 2**), the U.S. Department of Agriculture digital Soil Survey of Hennepin County (**Appendix A, Figure 3**), and the Minnesota Department of Natural Resources Public Waters Inventory (PWI) (**Appendix A, Figure 4**). Recent climate data (precipitation and temperature) were also obtained for the survey location.

Delineation efforts were based on the Routine "Onsite" Determination Method contained in the U.S. Army Corps of Engineers Midwest Supplement Version 2.0, Aug. 2010 to the 1987 Wetlands Delineation Manual Technical Report Y-87\_1. According to this methodology, wetland boundaries are determined based on the evaluation of the three parameters (hydric soil, hydrophytic vegetation, and wetland hydrology) required for an area to be defined as a wetland. The wetland boundary for each wetland on-site was identified as the upper-most extent of each area that met the criteria required to be defined as a wetland: hydric soils, hydrophytic vegetation, and wetland hydrology. Wetland A's delineated boundary was marked with pink pin flags with representative letters and numbers A1-A15 (Appendix A, Figure 5).

For the wetland within the property, a sample transect was established where the wetland/upland transition occurs. At the single transect, the vegetation, soils, and hydrology were investigated at two positions in the landscape, one within the wetland and one within the upland. Vegetation, soils, and hydrology were documented following the aforementioned delineation protocols. Soils were characterized based on soil matrix/mottle colors and texture, as well as the presence/absence of hydric soil indicators. The dominant vascular plant species were identified and the cover was estimated visually. The indicator status of the dominant plant species was taken from the *State of Minnesota 2016 Wetland Plant List* (Lichvar, R.W., D.L. Banks Kirchner, and N.C. Melvin. 2016. The National Wetland Plant List. 2016 wetland ratings. Phytoneuron 2016-30. Published 28 April 2016. ISSN 2153 733X). Hydrologic indicators (i.e. presence/absence of inundated and/or saturated soils, drift lines, drainage patterns, water marks, etc.) were evaluated to determine wetland hydrology. Finally, the wetlands were classified based on the Cowardin, Circular 39 and Eggers & Reed wetland descriptions. All collected field data is summarized in the Wetland Determination Data Forms (Midwest Region ) included in **Appendix C** of this report.

#### **Climate Data**

To provide context for the wetland survey effort, recent climatic conditions were investigated for the local area, including precipitation and temperature data and are included in **Appendix D**.

#### **Results**

The site is comprised of a single residence with garage, maintained turf grass areas with scattered trees, and one wetland. In total, MNR delineated and located the boundary of one wetland within the property. The following is a table that summarizes the delineated wetland by Circular 39 type, Cowardin classification, Eggers and Reed Plant Community and by size in acres.

Table 1. Wetland Classification, Type and Area

Wetland ID	Circular 39 Type/s	Cowardian Classification	Eggers and Reed Plant Community Type	Size (acres)
A	2	PEMB	fresh wet meadow	0.09

The single wetland was delineated using methods and criteria that follow the U.S. Army Corps of Engineers Wetlands Delineation Manual (1987) and the Regional Supplement to the COE Wetland Delineation Manual: Midwest Supplement Version 2.0, Aug. 2010. The boundary of the delineated wetland was flagged and located by MNR.

#### Wetland A

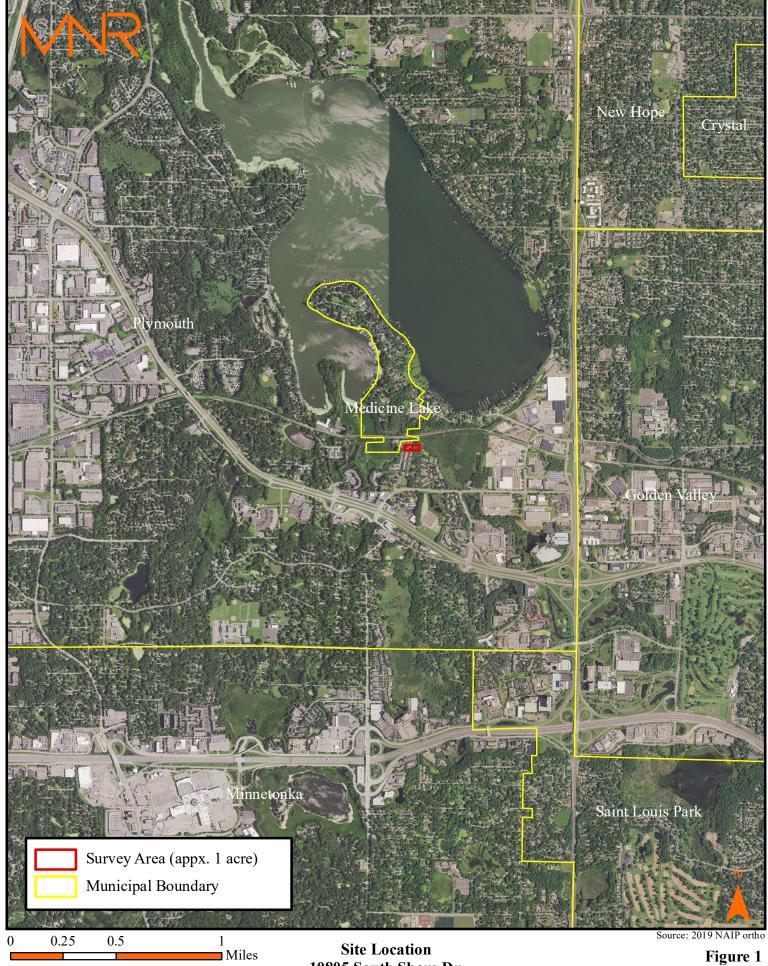
Wetland A is a Type 2 (PEMB; Fresh Wet Meadow) wetland that is located in the central part of the property and is approximately 0.09 acre in area. This fresh wet meadow is dominated by narrow-leaf cattail and reed canarygrass with a mix of a few other native and non-native forbs. The area where cattail are common appears to have been excavated sometime in the past. Landscape stones were observed within the cattail part of the wetland. The western part of this wetland extends into a garden area where planted shrubs and perennials are growing along with common wetland vegetation. At the time of the survey, it was noted that the central part of this wetland was mowed through. The DNR updated National Wetlands Inventory (June, 2013) Map indicates this wetland as part of a larger PFO1A wetland mapped within the property.

Plant species documented at the wetland sample point for Wetland A include just narrow-leaf cattail (*Typha angustifolia*). Plant species documented at the upland sample point for Wetland A include: green ash (*Fraxinus pennsylvanica*), Kentucky bluegrass (*Poa pratensis*), bird's foot trefoil (*Lotus corniculatus*), white clover (*Trifolium repens*), common plantain (*Plantago major*), and common dandelion (*Taraxacum officinale*).

From the digital U.S. Department of Agriculture Soil Survey for Hennepin County, the soil mapped within the area of Wetland A is described as Medo soils, depressional, 0-1% slopes which is a hydric soil. The soils investigated within the wetland sample point met the Black Histic (A3) hydric soil indicator. Wetland hydrology indicators recorded for Wetland A include one primary and two secondary indicators: saturation (A3), geomorphic position (D2) and FAC-neutral test (D5). Soils were saturated at a depth of 4" from the soil surface.

## **Appendix A**

**Supporting Site Figures** 



Site Location 10805 South Shore Dr. Plymouth, MN



Full document available upon request

## Minnesota Wetland Conservation Act Notice of Application

Local Government Unit:	City of Plymouth	County: Hennepin		
Applicant Name: Three	Rivers Park District			
Applicant Representativ	e: Brian Vlach			
Project Name: French Re	Project Name: French Regional Park Decontamination Station			
LGU Project No. (if any):	LGU Project No. (if any): 2020-18			
Date Complete Applicati	on Received by LGU:	10/16/2020		
Date this Notice was Ser	nt by LGU: 10/16/2020	)		
Date that Comments on	this Application Must	Be Received By LGU¹: 11/6/2020		
¹ minimum 15 business day com	ment period for Boundary 8	R Type, Sequencing, Replacement Plan and Bank Plan Applications		
WCA Decision Type - chec	ck all that apply			
☑ Wetland Boundary/Ty	/pe   Sequencing	☐ Replacement Plan ☐ Bank Plan (not credit purchase)		
☐ No-Loss (8420.0415)		$\square$ Exemption (8420.0420)		
Part: ☐ A ☐ B ☐ C ☐	] D $\square$ E $\square$ F $\square$ G $\square$ H	Subpart: □ 2 □ 3 □ 4 □ 5 □ 6 □ 7 □ 8 □ 9		
Replacement Plan Impact	:s (replacement plan de	ecisions only)		
Total WCA Impact Area	Proposed:			
Application Materials				
	(specify):			
<sup>1</sup> Link to ftp or other accessik	le file sharing sites is acc	eptable.		
Comments on this applica	ation chould be cent to	,		
LGU Contact Person: Ber				
E-Mail Address: bschare		•		
		vd, Plymouth, MN 55447		
Decision-Maker for this	•	va, r lymouth, lim 33447		
	• •	her (specify):		
△ Stair □ Governing	Board/Council 🗆 Ot	nei (specify).		
Notice Distribution (inclu	de name)			
Required on all notices:				
⊠ SWCD TEP Member: <b>Ms</b>	. Stacey Lijewski, HCA, 70	01 Fourth Avenue South, Suite 700, Minneapolis, MN 55415-1600		
⊠ BWSR TEP Member: <b>Be</b>	n Carlson, BWSR, 520 Laf	ayette Road North, St. Paul, MN 55401		
☐ LGU TEP Member (if diff	erent than LGU contact):			
☑ DNR Representative:	Melissa Collins, MnDN	IR, 1200 Warner Road, St. Paul, MN 55106		
Lucas Youngsma, MnDNR, 1200 Warner Road, St. Paul, MN 55106				
☑ Watershed District or W	atershed Mgmt. Org.: <b>B</b> (	CWMC, 16145 Hillcrest Lane, Eden Prairie MN 55346		
☐ Applicant (notice only):		☐ Agent/Consultant (notice only):		
Optional or As Applicable:				
		rs, 180 5th Street East, Suite 700, St. Paul MN 55101		
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☐ BWSR Wetland Mitigation Coordinator (required for bank plan applications only):			
$\square$ Members of the Public (notice only):	☐ Other:		
Signature:	Date:		
Den Schambach	10/16/2020		

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# French Decontamination Station Wetland Delineation Report

Prepared by Jonathan Hess

9-30-2020

#### Introduction

A level 2 wetland delineation was performed by Three Rivers Park District staff near the Clifton E. French Regional Park boat access in Plymouth, MN on July 1, 2020 (*Figure 1*). The delineation was requested as part of a proposed project to install a pull off lane adjacent to the boat parking area. The project will include a pad to place the watercraft decontamination unit and accommodate watercraft inspections and decontamination away from boat launch traffic. The decontamination station is currently set up in the existing parking area and obstructs a portion of the boat launch area. The delineation project area is small and spans 100 feet north and south along the east side of the existing parking lot (*Figure 2*). The project area is located within the DNR shoreland zone due to its proximity to Medicine Lake. One wetland area was identified and delineated within the project boundary.

#### Methods

Prior to delineating the wetland, the site was remotely assessed by reviewing wetland data from the National Wetland Inventory (*Figure 3*) and soils data from the National Resources Conservation Service (*Figure 4*). To determine the wetland boundary, a routine level 2 wetland delineation was conducted as described in the 1987 Corps of Engineers Wetland Delineation Manual (USACE, 1987). The Midwest Regional Supplement was used to determine if all three indicators of a wetland were met (USACE, 2012).

One survey transect was conducted to identify the wetland boundary. The transect included an upland and a wetland sample plot near the upland/wetland transition. At each plot, a soil core was extracted using a Dutch auger to a depth necessary to confirm hydric soil characteristics. Soil texture was identified using USDA soil texture flow chart modified from Thien (1979). Color, chroma, and hue were assessed in each definable soil strata using Munsell color book (Munsell, 1994). Hydric soil properties were identified based on the NRCS Field Indicators of Hydric Soils in the U.S. version 8.2 (USDA, 2018). Vegetation plots were identified to determined indicator status using the National Wetland Plant List (Lichvar and Kartesz, 2009). Primary and secondary hydrology indicators (USACE, 2012) were observed and recorded, including water table depth present in soil core hole.

Antecedent moisture conditions were established using three months prior precipitation recovered from Minnesota Climatology Working Groups monthly data for wetland delineators.

#### Results

The 2014 National Wetland Inventory does not identify wetland within the project area. However, there is wetland Type 1 seasonally flooded basin located just to the east and adjacent to the site (*Figure 5*). The Web Soil Survey by USDA identifies the soil as L16A, Muskego, Blue Earth, and Houghton soils, ponded with a hydrologic rating of B/D (*Figure 6, Table 1*).

The antecedent moisture conditions were normal during the first two prior months and dry the third month prior, giving an overall antecedent moisture rating of normal on July 1, 2020 (Figure 7).

The soils in the wetland plot are 10YR 2/1 from 0-28 inches. There are 6Y 5/10 redox features of ~5% from 0-14 inches and redox features of 10YR 5/6 at ~2% from 14-28 inches. This meets the A11 hydric soils indicator of depleted below dark surface. Hydrology indicators were met by the high water table (A2) with a measured depth of 9 inches. Hydrophytic vegetation was present due to dominance of reed canary grass (*P. arundinacea*) in the herb stratum and white willow (*S. alba*) in the tree stratum.

A 36 inch soil pit was dug at the upland location. Hydric soil indicators were not met, nor were hydrology indicators or hydrophytic vegetation identified. The upland plot was mowed but white clover (*T. repens*) was dominant along with a mix of Kentucky bluegrass (*P. pratensis*) and reed canary grass (*P. arundinacea*).

The wetland delineated within this project area is a circular 39 Type 2 wet meadow or Cowardain PEMB, palustrine, emergent, saturated. It is vegetated predominantly with grasses and a saturated surface exists during most of the growing season with surface water seldom present.

#### References

Lichvar, R.W. and J.T. Kartesz. 2009. North American Digital Flora: National Wetland Plant List, version 2.4.0 (https://wetland\_plants.usace.army.mil). U.S. Army Corps of Engineers, Engineer Research and Development Center, Cold Regions Research and Engineering Laboratory, Hanover, NH, and BONAP, Chapel Hill, NC.

Minnesota State Climatology Office. Wetland delineation precipitation data retrieval from a gridded database. https://climateapps.dnr.state.mn.us/gridded\_data/precip/wetland/wetland.asp

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United States Army Corps of Engineers. 2012 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region. Version 2.0. Vicksburg, MS.

United States Department of Agriculture. Natural Resources Conservation Service, Web Soil Survey. http://websoilsurvey.nrcs.usda.gov/.

United States Department of Agriculture. Natural Resource Conservation Service. 2018. Field Indicators of Hydric Soils in the Unites States, Version 8.2.

## French Park Decon Station Delineation Location Map Bass Lake Municipalities TRPD Boundary Highway Project Area near French Park Boat Access Parking Lot PLYMOUTH 169 Medicine Lake 2 Miles 0.5 **Water Resource Department** This map is for general reference only. This is not a legal document and it is provided without warranty. Data represented in this map is from a variety of sources, and is dynamic. The user acknowledges and accepts these terms. **ThreeRivers** Revised Date: 7/29/2020 PARK DISTRICT

Figure 1. Project locator map.