

Minnesota Wetland Conservation Act Notice of Decision

Local Government Unit:	City of Plymouth	County: Hennepin
Applicant Name: City of	Plymouth	
Applicant Representativ	e: Jessica Abernathy	
Project Name: Plymouth	Fire Station II	
LGU Project No. (if any):	2020-11	
Date Complete Applicat	ion Received by LGU: 5/8/20	20
Date of LGU Decision: 7	/14/2020	
Date this Notice was Ser	nt: 7/14/2020	
WCA Decision Type - chec	ck all that apply	
☑ Wetland Boundary/Ty	/pe 🗆 Sequencing 🗆 Re	eplacement Plan 🔲 Bank Plan (not credit purchase)
☐ No-Loss (8420.0415)		☐ Exemption (8420.0420)
Part: □ A □ B □ C □	$D \square E \square F \square G \square H$	Subpart: □ 2 □ 3 □ 4 □ 5 □ 6 □ 7 □ 8 □ 9
Replacement Plan Impact	ts (replacement plan decision	s only)
Total WCA Wetland Impa	act Area:	
Wetland Replacement Ty	ype: Project Specific Cre	dits:
	☐ Bank Credits:	
Bank Account Number(s):	
Technical Evaluation Pane	el Findings and Recommenda	ations (attach if any)
	r e w/Conditions \square Deny	□ No TEP Recommendation
Approve - Approv	e w/conditions 🗆 Deny	- No TEL Recommendation
LGU Decision		
□ Approved with Condition	tions (specify below) ¹	☐ Approved¹ ☐ Denied
		vith the delineated boundaries
	<u> </u>	
Decision-Maker for this	Annlication: ⊠ Staff □ Gov	verning Board/Council □ Other:
Decision Maker for this	Application. 23 Stall 2001	erring bound, council in other.
Decision is valid for: \boxtimes !	5 years (default) 🛮 Other (sp	pecify):
1		
		rms the withdrawal of any required wetland bank credits. For project-
	·	Subp. 9 and evidence that all required forms have been recorded on
the title of the property on whic	n the replacement wetland is locate	nd must be provided to the LGU for the approval to be valid.
LGU Findings – Attach do	cument(s) and/or insert narra	tive providing the basis for the LGU decision ¹ .
□ Attachment(s) (specification)	y):	
Summary: The TEP m	et on site to discuss the wet	land boundaries. At the site meeting, it was determined
that the delineated bou	ndaries were accurate. The b	oundaries are approved as shown in the report.
 ¹ Findings must consider any TE	P recommendations.	
Attached Project Docume	ents	
•	Project Plan(s)/Descriptions	S/Reports (specify):
	= -,	1 - 1 1 / LL - 1 / H.

Appeals of LGU Decisions

If you wish to appeal this decision, you must provide a written request within 30 calendar days of the date you received the notice. All appeals must be submitted to the Board of Water and Soil Resources Executive Director along with a check payable to BWSR for \$500 unless the LGU has adopted a local appeal process as identified below. The check must be sent by mail and the written request to appeal can be submitted by mail or e-mail. The appeal should include a copy of this notice, name and contact information of appellant(s) and their representatives (if applicable), a statement clarifying the intent to appeal and supporting information as to why the decision is in error. Send to:

Appeals & Regulatory Compliance Coordinator

Minnesota Board of Water & Soils Resources		
520 Lafayette Road North St. Paul, MN 55155		
travis.germundson@state.mn.us		
u avis.ger munuson@state.mn.us		
Does the LGU have a <u>local appeal process</u> applicable to	this decision?	
\boxtimes Yes ¹ \square No		
¹ If yes, all appeals must first be considered via the local appe	als process.	
Local Appeals Submittal Requirements (LGU must describe	how to annual a	submittal requirements foos etc. as applicable
Local Appeals Submittal Requirements (LGO must describe	110w to appear, s	nubilitai requirements, rees, etc. as applicable)
Nation District the first day of the		
Notice Distribution (include name) Required on all notices:		
•	. 701 Fourth A	venue South, Suite 700, Minneapolis, MN
55415-1600	.,	
□ BWSR TEP Member: Ben Carlson, BWSR	R, 520 Lafaye	tte Road North, St. Paul, MN 55401
	 	
☑ LGU TEP Member (if different than LGU contact): Ben S	charenbroich,	3400 Plymouth Blvd, Plymouth MN 55447
□ DNR Representative: Melissa Collins, MnD	NR, 1200 W	/arner Road. St. Paul. MN 55106
Lucas Youngsma, MnDNR, 1		•
G , .		, ,
☐ Watershed District or Watershed Mgmt. Org.: BC	WMC, 16145	Hillcrest Lane, Eden Prairie MN 55346
	-	ymouth Blvd, Plymouth MN 55447
☐ Agent/Consultant: Jessica Abernathy, 12800 W	/nitewater Dri	ive, Suite 300, Minnetonka Min 55343
Optional or As Applicable:		
⊠ Corps of Engineers: US Army Corps of Engineers, c	o Jonathan Ba	ikken, 180 Fifth Street East, Suite 700, St.
Paul MN 55101-1678	 	
BWSR Wetland Mitigation Coordinator (required for bar		• •
Members of the Public (notice only): Todd Ullom, 128		
	7th St W	#504 Apple Valley MN 55124
Brooke Jacobson, CNH Architects, 7300 1	L 47th St W Other:	• • • • • • • • • • • • • • • • • • • •
	uniter:	
7 - 1	Signature:	Date:
Ben Schambroil		7/14/2020
		· · · · · · · · · · · · · · · · · · ·

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.



Minnesota Wetland Conservation Act Notice of Application

Local Government Unit: City of Plymouth County: Hennepin
Applicant Name: City of PlymouthApplicant Representative: Jessica
Abernathy
Project Name: Plymouth Fire Station II
LGU Project No. (if any): 2020-11
Date Complete Application Received by LGU: 5/8/2020
Date this Notice was Sent by LGU: 6/19/2020
Date that Comments on this Application Must Be Received By LGU ¹ : July 13, 2020
¹ minimum 15 business day comment period for Boundary & Type, Sequencing, Replacement Plan and Bank Plan Applications
WCA Decision Type - check all that apply
☑ Wetland Boundary/Type ☐ Sequencing ☐ Replacement Plan ☐ 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 (replacement plan decisions only)
Total WCA Impact Area Proposed:
Total WCA Impact Area Proposeu.
Application Materials
\boxtimes Attached \square Other ¹ (specify):
¹ Link to ftp or other accessible file sharing sites is acceptable.
Comments on this application should be sent to:
LGU Contact Person: Ben Scharenbroich, Interim Water Resources Manager
E-Mail Address: bscharenbroich@plymouthmn.gov
Address and Phone Number: 3400 Plymouth Blvd, Plymouth, MN 55447
Decision-Maker for this Application:
□ Governing Board/Council □ Other (specify):
Notice Distribution (include name)
Required on all notices:
⊠ SWCD TEP Member: Ms. Stacey Lijewski, 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
CLITTO Marshay ('f d'ffeanathhay ICH agatest)
☐ LGU TEP Member (if different than LGU contact):
☑ DNR Representative: Melissa Collins, MnDNR, 1200 Warner Road, St. Paul, MN 55106
Lucas Youngsma, 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 Hanson, City of Plymouth, 3400 Plymouth Blvd, Plymouth MN 55447
□ Agent/Consultant (notice only): Jessica Abernathy, 12800 Whitewater Drive, Suite 300, Minnetonka MN
55343

Optional or As Applicable:

□ Corps of Engineers: US Army Corps of Engineering, 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): Todd Ullom, 12800 Whitewater Drive, Suite 300, Minnetonka MN 55343				
☐ Other:				
Signature:	Date:			
Ben Schambail	6/19/2020			

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.



May 7, 2020

Amy Hanson City of Plymouth 3400 Plymouth Blvd. Plymouth, Minnesota 55447

SUBJECT: Wetland Delineation Report

Plymouth Fire Station II

Plymouth, Hennepin County, Minnesota

Dear Ms. Hanson,

Sambatek has prepared this wetland delineation report for the Plymouth Fire Station II, located at 12000 Old Rockford Road and within Section 14, T118N, R22W, City of Plymouth, Hennepin County, Minnesota.

The Subject Property is approximately 3.59 acres and consists of Plymouth Fire Station II. The current project involves the redevelopment of the existing fire station. The topography of the Subject Property slopes to the west and north. The Subject Property is bordered by Old Rockford Road to the south, residential developments to the east, a wetland to the north, and Larch Lane to the west. The Subject Property is located within the Mississippi River – Twin Cities (20) major watershed and Bank Service Area 7.

WETLAND DELINEATION METHODOLOGY

Available wetland resources and aerial photographs were utilized to determine if wetland conditions are currently present on the site. In addition, a site visit was completed on April 17, 2020 to examine the site for the presence of wetland conditions in accordance to the 1987 Corps of Engineers Wetland Delineation Manual, the Midwestern Region Supplement to the Corps of Engineers Wetland Delineation Manual, and the 2015 Guidance for Submittal of Delineation Reports to the St. Paul District Army corps of Engineers and Wetland Conservation Act Local Governmental Units in Minnesota, Version 2.0. Wetland Resources that were reviewed included:

- Hennepin County Soil Survey;
- Wetlands Inventory Map (NWI);
- > DNR Public Waters Map; and,

Hennepin County Soil Survey

The *Hennepin County Soil Survey* was utilized to identify areas of mapped hydric soils within the Subject Property. Hydric soil is an indicator of potential wetland conditions. Based on the Hydric Rating obtained from the Soil Survey soil types can be categorized into six categories:

- All hydric all components listed for a given map unit are rated as being hydric,
- Predominantly hydric more than 66% to less than 100% of components are hydric,
- Partially hydric more than 33% to less than 65% of components are hydric,
- Predominantly non-hydric more than 0% and less than 32% of components are hydric,
- Not hydric all components are rated as not hydric, and
- Unknown hydric at least one component is not rated so a definitive rating for the map unit cannot be made.

Table 1 provides a list of the mapped soils within the Subject Property.

Table 1. Summary of Mapped Soils within the Subject Property

Map Unit Symbol	Map Unit Name	Hydric Soil Rating (%)	Hydric Soil	Drainage Classification
L22C2	Lester loam, 6-10% slopes, moderately eroded	2	Predominantly non-hydric	Well drained
L22D2	Lester loam, 10-16% slopes, moderately eroded	0	Not hydric	Well dreained
L36A	Hamel, overwash-Hamel complex, 0-3% slopes	45	Partially hydric	Somewhat poorly drained
L37B	Angus loam, 2-6% slopes	5	Predominantly non-hydric	Well drained
L50A	Muskego and Houghton soils, 0-1% slopes	100	All hydric	Very poorly drained

National Wetland Inventory

NWI maps are utilized as an off-site tool in identifying areas of potential wetlands. The NWI map for the Hennepin County does not identify any wetlands on the Subject Property.

DNR Public Waters and Wetlands

DNR Public Waters are waterbodies which meet the definition of Minnesota Statue 103G.005, Subdivision 15 and are regulated by the DNR. The DNR Public Waters Map for Hennepin County does not identify any public waters within the Subject Property.

MN DNR LiDAR Contour Map

The LiDAR Contour Map was utilized to approximate water flow patterns and identify potential depressional areas. The topographic map indicates that the Subject Property generally slopes to the north and west.

Precipitation Data

Analysis of precipitation data pertinent to the Subject Property is important to understand the wetland hydrology indicators observed during the field work activities.

A non-normal precipitation is considered to be that below the 30th percentile (drier than normal) and above the 70th percentile (wetter than normal). Normal precipitation is based on the 30-year average for the period of 1981-2010. Precipitation data were obtained from the Minnesota State Climatology Office webpage, which provides "synthetic" data for a chosen project location. The synthetic data are made up of regularly-spaced grid nodes whose values were calculated using data interpolated from Minnesota's precipitation database. For the purpose of this study, Sambatek utilized Section 14, Township 118N, Range 22W as the project location for the precipitation data. Table 2 summarizes the precipitation data for the past 12 months (April 2019 – March 2020). In addition, the table provides a comparison of the actual precipitation compared to the 30-year average (1981-2010). Sambatek also utilized the NRCS Method to determine the hydrologic conditions during the three month period prior to the site visit.

Table 2. Precipitation Data for Section 14, T118N, R22W

-	30-Year Average	Actual	Difference	
Month/Year	(Inches)	(Inches)	(Inches)	
April 2019	2.78	3.45	+0.67	
May 2019	3.66	7.39	+3.73	
June 2019	4.57	2.72	-1.85	
July 2019	4.2	7.34	+3.14	
August 2019	1.18	6.26	+5.08	
September 2019	3.41	4.63	+1.22	
October 2019	2.51	5.19	+2.68	
November 2019	1.75	1.53	-0.22	
December 2019	1.19	2.12	+0.93	NRCS Method Condition
January 2020	0.84	0.87	+0.03	Normal
February 2020	0.79	0.57	-0.22	Normal
March 2020	1.85	2.57	+0.72	Wet
Total	28.73	44.64	+15.91	Wet

Based on the NRCS Method the antecedent precipitation was experiencing wetter than normal conditions at the time of the site visit. Precipitation for the past 12 months is above normal.

Field Delineation

The delineation of wetlands within the subject property consisted of a review of published resources and a site delineation of wetlands per the "three-parameter" (Level 2) methodology set forth in *The 1987 Manual* and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region* (hereafter, *The Regional Supplement*) (U.S. Army Corps of Engineers, Version 2.0, August 2010).

The wetland boundaries were staked with pink "Wetland Boundary" pinflags. Sambatek utilized a Trimble Geoexplorer 6000 GPS unit to locate the wetland boundaries. The surveyed wetland boundaries are illustrated

on the Wetland Delineation Map. Future site plans should include the surveyed wetland boundaries to ensure that proper measures are taken to avoid, minimize, or mitigate potential wetland impacts.

BASIN CHARACTERISTICS

Two wetlands were identified and staked during the April 17, 2020 site visit. Table 3 and the following paragraphs provide a summary of the wetlands identified and delineated by Sambatek.

Table 3. Wetland Type and Size

Wetland	Classification	Туре	Wetland Community	Area (sq. ft.)*	Area (acres)*
1	PEM1B/C	2/3	Fresh (wet) Meadow/ Shallow Marsh	903* SF	0.02* acres
2	PEM1B	2	Fresh (wet) Meadow	2,255 SF	0.05 acres

* Area within Subject Property

Wetland 1 is classified as a Palustrine (P-) type wetland exhibiting Emergent Vegetation (-EM-) and Saturated (-B-) and Seasonally Flooded (-C-) moisture regimes or a Type 2/3 (PEM1B/C) wetland type. According to the *Hennepin County Soil Survey*, Wetland 1 is mapped as L36A – Hamel, overwash – Hamel complex, which is listed as a partially hydric soil. The NWI and PWI maps do not identify Wetland 1.

Wetland 1 encompasses approximately 903 SF of the Subject Property. Wetland 1 appears to be supported by surface water from slight slopes to the south.

One transect, consisting of two sample locations, was established along the south side of Wetland 1. Dominant vegetation, the soil profile and wetland hydrologic indicators were observed and noted at each sample location. Data collected from the sample locations are presented in the Field Data Sheets (SP1-1 WET and SP1-1 UP), which are included with this report.

A majority of Wetland 1 exhibits emergent vegetation. Dominant vegetation within Wetland 1 is Reed Canary Grass (FACW) and Cattail sp. The boundary of Wetland 1 was placed along the contour where the vegetation transitions from a dominance of Reed Canary Grass (FACW) on the wetland side of the boundary to a dominance of Creeping Charlie (FACU) along the upland side of the boundary.

Wetland 2 is classified as a Palustrine (P-) type wetland exhibiting Emergent Vegetation (-EM-) and a Seasonally Saturated (-B-) moisture regime or a Type 2 (PEM1B) wetland type. According to the *Hennepin County Soil Survey*, Wetland 2 is mapped as L36A – Hamel, overwash – Hamel complex, which is listed as a partially hydric soil. The NWI and PWI maps do not identify Wetland 2.

Wetland 2 encompasses approximately 2,255 SF of the Subject Property. Wetland 2 appears to be supported by surface water from the slope to the east.

One transect, consisting of two sample locations, was established along the west side of Wetland 2. Dominant vegetation, the soil profile and wetland hydrologic indicators were observed and noted at each sample location. Data collected from the sample locations are presented in the Field Data Sheets (SP2-1 WET and SP2-1 UP), which are included with this report.

A majority of Wetland 2 exhibits emergent vegetation. Dominant vegetation within Wetland 2 is Reed Canary Grass (FACW). The boundary of Wetland 2 was placed along the toe of the slope where the soil transitions from the presence of hydric soil indicators on the wetland side of the boundary to a lack of hydric soil indicators on the upland side of the boundary.

If you have any questions or need additional information, please feel free to contact me at (763) 476-6010. Sambatek appreciates the opportunity to provide you with our wetland services. If you have any additional needs for our services for this or other projects in the future, please give us a call.

Sincerely,

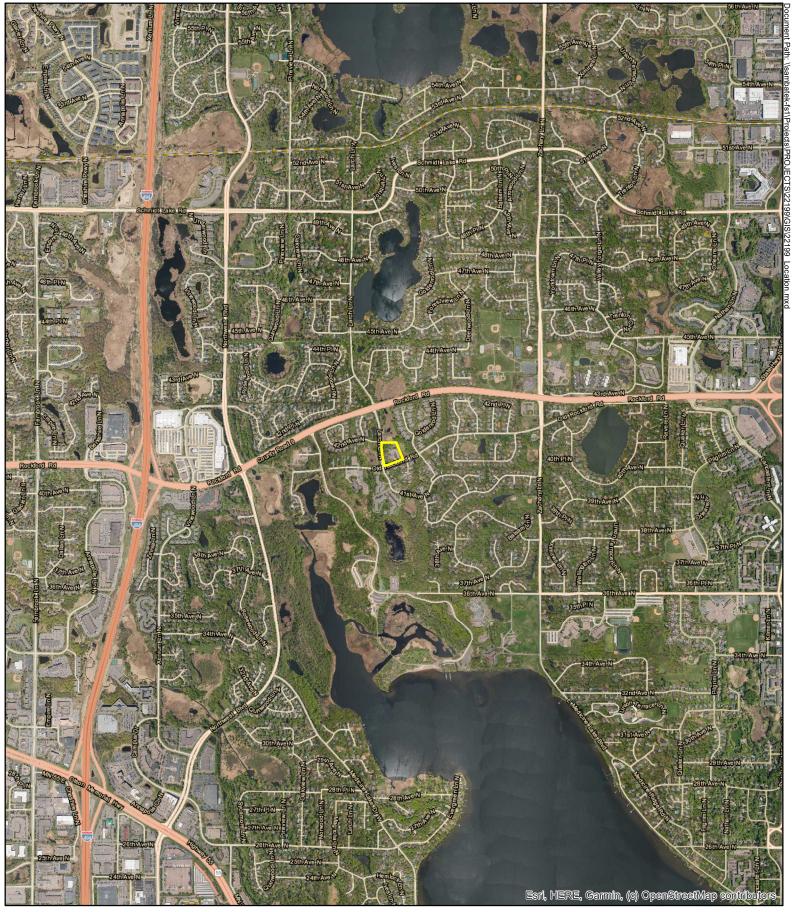
Sambatek

JD Donath

Environmental Scientist, WDC #1105

List of Attachments

Location Map
Hennepin County Soil Survey Map
NWI Map
DNR Public Waters Map
Contour Map
Wetland Delineation Map
Field Data Sheets
Photo Log

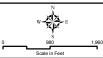


Location Map

Plymouth Fire Station II
Plymouth, Minnesota

Legend

Project Boundary



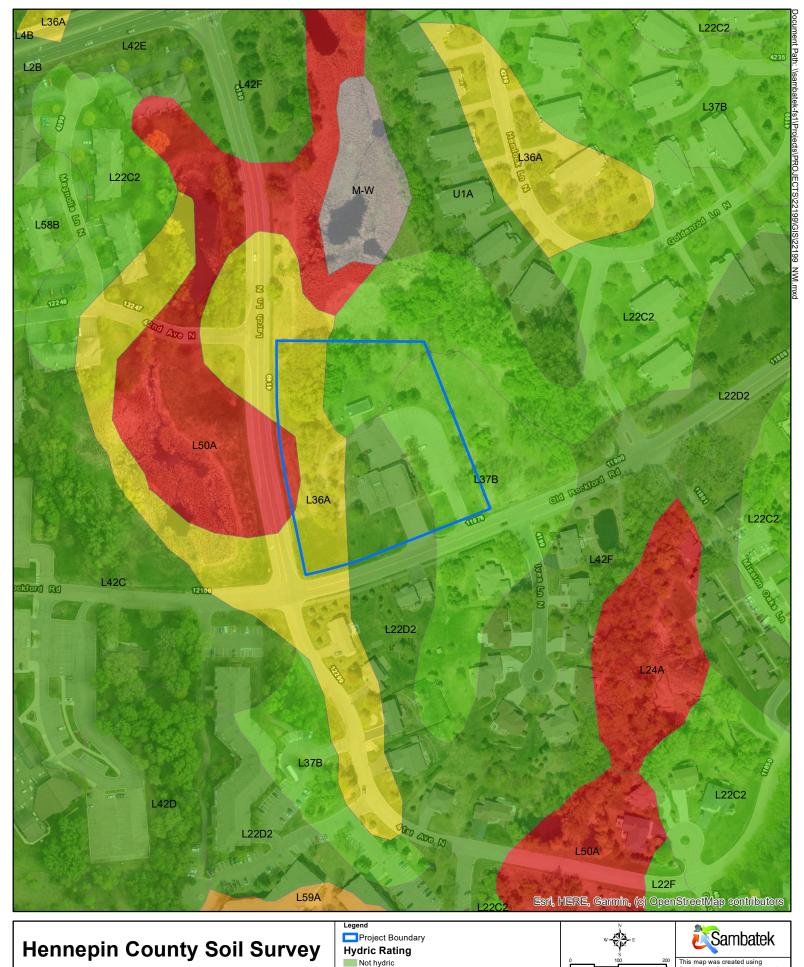
Date: 04/21/2020

Project Number: 22199

Notes



This map was created using Sambatek's Geographic Information Systems (GS), it is a compilation of information and data from various sources. This map is not a surveyor or legally recorded map and is intended to be used as a reference. Sambatek is not responsible for any inaccuracies contained herein.



Plymouth Fire Station II Plymouth, Minnesota

Predominately non-hydric Partially hydric Predominately hydric

All hydric

Date: 04/21/2020



This map was created using Sambatek's Geographic Information Systems (GIS), it is a compilation of information and data from various sources. This map is not a surveyed or legally recorded map and is intended to be used as a reference. Sambatek is not responsible for any inaccuracies contained herein. Project Number: 22199



National Wetland Inventory

Plymouth Fire Station II
Plymouth, Minnesota



NWI mapped wetland





Date: 04/21/2020

Project Number: 22199

Note:

This map was created using Sambatek's Geographic Information Systems (GIS), it is a compilation of information and data from various sources. This map is not a surveyed or legally recorded map and is intended to be used as a reference. Sambatek is not responsible for any inaccuracies contained herein.

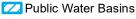


DNR Public Water Inventory

Plymouth Fire Station II
Plymouth, Minnesota



Public Watercourses



Project Boundary

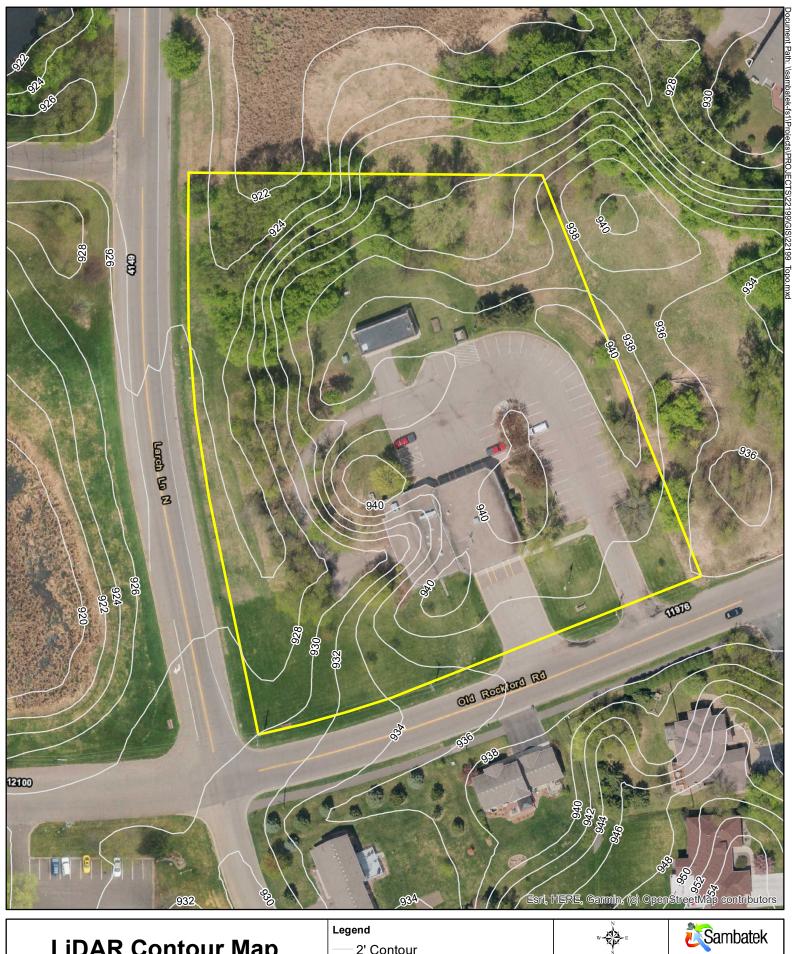




Date: 04/21/2020

Project Number: 22199

Notes:



LiDAR Contour Map

Plymouth Fire Station II Plymouth, Minnesota

Legend

2' Contour

Project Boundary



Date: 04/21/2020

Project Number: 22199

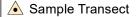
This map was created using Sambatek's Geographic Information Systems (GIS), it is a compilation of information and data from various sources. This map is not a surveyed or legally recorded map and is intended to be used as a reference. Sambatek is not responsible for any inaccuracies contained herein.



Wetland Delineation Map

Plymouth Fire Station II Plymouth, Minnesota

Legend



Wetland Boundaries

Project Boundary





This map was created using Sambatek's Geographic Information Systems (GS), it is a compilation of information and data from various sources. This map is not a surveyed or legally recorded map and is intended to be used as a reference. Sambatek is not responsible for any inaccuracies contained herein. Date: 04/21/2020 Project Number: 22199

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Plymouth Fire Station II	City/	City/County: Plymouth Sampling Date: April 17, 2020					
Applicant/Owner: City of Plymouth				State: Minnesota	Sampling Point: WL1-1UP		
Investigator(s): Sambatek – JD Donath		Secti	Section, Township, Range: Section 14, T118N, R22W				
Landform (hillslope, terrace, etc.) Ground moraines							
Slope (%): 0-2% slopes		 '					
Soil Map Unit Name: <u>L36A – Hamel, overwash-Hamel cor</u>							
Are climatic / hydrologic conditions on the site typical for the	is time of ye	ear? Y	es N	o X (If no, explain in	Remarks.)		
Are Vegetation, Soil, or Hydrologysign	ificantly dist	turbed?	Are '	'Normal Circumstances'	" present? Y	/esX	No
Are Vegetation, Soil, or Hydrologynatu	rally proble	matic?	(If ne	eeded, explain any ansv	vers in Remar	·ks.)	
SUMMARY OF FINDINGS – Attach site map	showing	g samplin	ıg point l	ocations, transec	ts, importa	ant featur	es, etc.
Hydrophytic Vegetation Present? Yes	No	x					
		ls	the Sample	ed Area			
	No		thin a Wetl	and? Yes _	No) <u>X</u>	
Wetland Hydrology Present? Yes	No	<u>X</u>					
Remarks:							
The site was experiencing wetter than normal precipitation	on conditions	s at the time	of the field	visit.			
VEGETATION - Use scientific names of plants.							
- Ose scientific flames of plants.				Daminanaa Taata	ulvala a at-		
Tree Stratum (Plot size: 30')	Absolute	Dominant Species?		Dominance Test wor	rksneet:		
1	70 COVE	Opecies:	Status	Number of Dominan	t Species		
2.				That Are OBL, FAC	N, or FAC: _	2	(A)
3.							
4.				Total Number of Doi Species Across All S		5	(B)
5				Opecies Across Air C			(D)
		= Total Co	registral Cover Percent of Dominant Species				
Opelia /Ohark Otatura //Dist size 451				That Are OBL, FAC	N, or FAC: _	40	(A/B)
Sapling/Shrub Stratum (Plot size: 15')	20	V	EAC.	Prevalence Index wo	orksheet:		
Rhamnus cathartica (Common Buckthorn) Sambucus canadensis (Common Elderberry)	<u>20</u> 10	<u>Y</u> Y	FAC UPL	Total % Cover of		Multiply by:	
3.		<u> </u>		OBL species	0 x	1 =0	
4.			-	FACW species	20 X	2 = 40	
5.				FAC species	20 X	3 = 60	
	30	= Total Co	ver	FACU species	80 X	4 = 320	
				UPL species		5 = 50	
Herb Stratum (Plot size: 5')				· -		A) 470	(B)
Glechoma hederacea (Creeping Charlie) Blacksing and the control of the charles are all the control of the charles are all the charles are	60	<u>Y</u> Y	FACU			.,	_ (-)
Phalaris arundinacea (Reed Canary Grass) Arctium minus (Common Burdock)	20	<u>Y</u> Y	FACW FACU	Danielea	andada D/	۸ ۵۵۵	
			TACO	Hydrophytic Vegetati	ce Index = B//		
5.				1 - Rapid Test for			
6.				2 - Dominance To			
7.				3 - Prevalence Te			
8.				4 - Morphologica	I Adaptations ¹	(Provide su	pporting
9				data in Remar		•	•
10				Problematic Hydi	ophytic Vege	tation ¹ (Expl	ain)
	100	= Total Co	ver	¹ Indicators of hydric s	soil and wotlar	ad bydrology	/ muct
Moody Vino Stratum (Plot size: 20'				be present, unless dis			riiusi
Woody Vine Stratum (Plot size: 30'				Hydrophytic	•		
1				Vegetation Present?	Yes	No	Y
		= Total Co	ver	i iosciit:	163	_ '** _	<u>X</u>
Remarks: (Include photo numbers here or on a separate	sheet \	. 0.0.1 00		1			
Tremarks, (include prioto numbers here or on a separate	S⊓ CC L.)						

Profile Desc	cription: (Describe	to the dep	th needed to docur	nent the i		r confirn	n the absend	ce of indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6	10YR 2/1	100					Clay Loam	_
6-12	10YR 4/4	100					Clay Loam	_
12-18	10YR 2/2	100					Clay Loam	_
ype: C=C	oncentration, D=De	pletion, RM	=Reduced Matrix, C	S=Covere	d or Coate	d Sand G	rains.	² Location: PL=Pore Lining, M=Matri
	Indicators:		0 1 0		(0.4)		Indic	ators for Problematic Hydric Soils ³
	sol (A1)		Sandy Gle	•	((S4)			Coast Prairie Redox (A16)
Histic	Epipedon (A2)		Sandy Rec	lox (S5)				Dark Surface (S7)
	(Histic (A3)		Stripped M					Iron-Mangenese Masses (F12)

Sandy Mucky Mineral (S1) 5 cm Mucky Peat or Peat (S3)	Redox Depressions (F8)		wetland hydrology r disturbed or probler	ent, un	less
Restrictive Layer (if observed): Type: Depth (inches):		Hydric Soil Present?	Yes	 No _	Х

Loamy Gleyed Matrix (F2)

Redox Dark Surface (F6)

Redox Depressions (F8)

Depleted Dark Surface (F7)

Depleted Matrix (F3)

Other (Explain in Remarks)

³Indicators of Hydrophytic vegetation and

Remarks:

No hydric soil indicators were met.

Stratified Layers (A5)

Thick Dark Surface (A12)

Sandy Mucky Mineral (S1)

Depleted Below Dark Surface (A11)

2 cm Muck (A10)

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1)	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):	lydrology Present? Yes No X
Saturation Present? Yes No _X Depth (inches): (includes capillary fringe)	lydrology Present? Yes No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if a	vailable:
Remarks:	
No wetland hydrology indicators were met.	

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Plymouth Fire Station II	City/	City/County: Plymouth Sampling Date: April 17, 2020						
Applicant/Owner: City of Plymouth			State: Minnesota Sampling Point: WL			WL1-1W	/ET	
Investigator(s): Sambatek – JD Donath		Secti	Section, Township, Range: Section 14, T118N, R22W					
Landform (hillslope, terrace, etc.) Ground moraines		Local reli	ef (concave	, convex, none): none				
Slope (%): 0-2% slopes		 '						
			NWI Classification:					
Are climatic / hydrologic conditions on the site typical for the								
						Vaa V	. No	
Are Vegetation, Soil, or Hydrologysign				'Normal Circumstances			NO	
Are Vegetation, Soil, or Hydrologynatu	irally proble	matic?	(If ne	eeded, explain any ans	wers in Rema	arks.)		
SUMMARY OF FINDINGS - Attach site map	showing	g samplir	ng point l	ocations, transec	cts, import	ant fea	atures,	etc.
	X_ No _	l Is	the Sample	ed Area				
Hydric Soil Present? Yes	X No _	wi	ithin a Wetl	and? Yes _	<u>X</u> N	No		
Wetland Hydrology Present? Yes	X No _							
Remarks:								
The site was experiencing wetter than normal precipitation	n condition	s at the time	of the field	visit.				
VEGETATION - Use scientific names of plants.								
	A book ito	Dominant	Indicator	Dominance Test wo	orksheet:			
Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?						
1				Number of Dominar				
2				That Are OBL, FAC	W, or FAC:	1_	(A)	.)
3				Total Number of Do	ominant			
4				Species Across All		1	(B))
5		= Total Co						
		= 10(a) 00	VEI	Percent of Dominar That Are OBL, FAC		100	(A/E	B)
Sapling/Shrub Stratum (Plot size: 15'						- 100	(///	٥,
1				Prevalence Index w Total % Cover of		Multiply	hv.	
2.				OBL species		(1 =		
3. 4.		·		FACW species		(2 =		
5.				FAC species		(3 =		
<u> </u>		= Total Co	ver	FACU species		(4 =		
				UPL species		(5 =	0	
Herb Stratum (Plot size: 5')				Column Totals:			220 (E	R)
Phalaris arundinacea (Reed Canary Grass)	90	<u>Y</u>	FACW		100	(/ ()	(٥,
Glechoma hederacea (Creeping Charlie) Arctium minus (Common Burdock)	<u>5</u> 5	N	FACU FACU	Danvalar	nce Index = B	./^	0.00	
4.			1 700	Hydrophytic Vegetat			2.20	
5.				1 - Rapid Test fo			tion	
6.				X 2 - Dominance T	est is > 50%			
7				X 3 - Prevalence T	est is ≤ 3.0 ¹			
8				4 - Morphologica				rting
9				Problematic Hyd	arks or on a se		,	
10	20	= Total Co		Problematic Hyd	nopriyuc veg	etation (,⊏xpiaiii)	
		= 10tai 00	VCI	¹ Indicators of hydric	soil and wetla	and hydro	ology mus	st
Woody Vine Stratum (Plot size: 30'				be present, unless d	isturbed or pr	oblemati	C.	
1				Hydrophytic Vegetation				
2				Present?	Yes _	X No		
		= Total Co	ver					
Remarks: (Include photo numbers here or on a separate	sheet.)							

SOIL								Sampling Point: WL1-1 WET		
	scription: (Describe	to the dep				r confirn	n the absen	ce of indicators.)		
Depth (inches)	Matrix Color (moist)	%	Color (moist)	dox Featu %	res Type ¹	Loc ²	Texture	Remarks		
0-6	10YR 2/1	100					Clay Loam			
6-18	10YR 2/1	92	10YR 4/6	8		M	Clay Loam			
Type: C=	Concentration, D=De	oletion, RM	=Reduced Matrix, C	S=Covere	d or Coate	d Sand G	irains.	² Location: PL=Pore Lining, M=Matrix.		
Hydric Soi	I Indicators:						Indic	ators for Problematic Hydric Soils³:		
	osol (A1)		Sandy Gle		(S4)			Coast Prairie Redox (A16)		
	ic Epipedon (A2)		Sandy Red					Dark Surface (S7)		
	ck Histic (A3)		Stripped M		SI (E4)			Iron-Mangenese Masses (F12) Very Shallow Dark Surfaces (TF12)		
	rogen Sulfide (A4) tified Layers (A5)		Loamy Mu Loamy Gle	-				Other (Explain in Remarks)		
	n Muck (A10)		Depleted N		· ()			Carlor (Explain in Romano)		
	leted Below Dark Sur	face (A11)	Redox Dar		(F6)					
Thic	k Dark Surface (A12)		Depleted D	Dark Surfac	ce (F7)		3India	cators of Hydrophytic vegetation and		
San	dy Mucky Mineral (S1	1)						etland hydrology must be present, unless		
5 cn	n Mucky Peat or Peat	(S3)					dis	turbed or problematic.		
Restrictive	Layer (if observed)):								
Type:	inches):				Hyd	ric Soil F	Present?	Yes X No		
Deptii (111C11E3).									
Remarks:					'					
Remarks:					1					
Remarks:					•					
Remarks:					,					
IYDROL	OGY ydrology Indicators	:					Se	condary Indicators (minimum of two required)		
IYDROLO Wetland H			ired; check all that a	pply)			Sec	condary Indicators (minimum of two required) Surface Soil Cracks (B6)		
IYDROLO Wetland H Primary Inc	lydrology Indicators dicators (minimum of the Water (A1)		Water-St	ained Leav	` '		<u>Se</u>	Surface Soil Cracks (B6) Drainage Patterns (B10)		
IYDROLO Wetland H Primary Inc Surfac X High \(\)	lydrology Indicators dicators (minimum of the Water (A1) Water Table (A2)		Water-St Aquatic F	ained Leav auna (B13	3) ` ´		Sei	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2)		
Wetland H Primary Inc Surfac X High \(\) X Satura Water	dicators (minimum of the Water (A1) Water Table (A2) ation (A3) Marks (B1)		Water-St Aquatic F True Aqu Hydroger	ained Leav Fauna (B13 latic Plants n Sulfide C	3) s (B14) odor (C1)			Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)		
IYDROLO Wetland H Primary Inc Surfac X High N X Satura Water Sedim	dicators (minimum of the Water (A1) Water Table (A2) ation (A3) Marks (B1) Ment Deposits (B2)		Water-St Aquatic F True Aqu Hydroger Oxidized	ained Leav Fauna (B13 latic Plants n Sulfide C Rhizosphe	3) s (B14) odor (C1) eres on Liv			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)		
Primary Inc. Surfac X High \(\) X Satura Water Sedim Drift E	dicators (minimum of the Water (A1) Water Table (A2) ation (A3) Marks (B1) Ment Deposits (B2) Deposits (B3)		Water-St Aquatic F True Aqu Hydroger Oxidized Presence	ained Leav Fauna (B13 latic Plants n Sulfide C Rhizosphe e of Reduc	3) s (B14) odor (C1) eres on Liv ed Iron (C4	1)	s (C3)	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)		
Primary Ind Surfac X High V X Satura Water Sedim Drift D Algal	dicators (minimum of the Water (A1) Water Table (A2) Ation (A3) Marks (B1) Ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Meposits (B5)	one is requ	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir	ained Leaverauna (B13) latic Plants on Sulfide Control Rhizospher of Reduct on Reduct ck Surface	B) S (B14) Odor (C1) eres on Liv ed Iron (C4 tion in Tille (C7)	1)	s (C3)	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)		
Primary Ind Surfac X High N X Satura Water Sedim Drift E Algal Iron D	dicators (minimum of the Water (A1) Water Table (A2) Ation (A3) Marks (B1) Ment Deposits (B2) Deposits (B3) Mat or Crust (B4)	one is requ	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc	ained Leav Fauna (B13 latic Plants n Sulfide C Rhizosphe e of Reduct on Reduct	B) S (B14) Odor (C1) Heres on Liv Hed Iron (C4 Hidion in Tille Hid (C7) He (D9)	1)	s (C3)	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)		
Primary Ind Surfac High N X Satura Water Sedim Drift E Algal Iron D Inund Spars	dicators (minimum of the Water (A1) Water Table (A2) ation (A3) Marks (B1) Ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) Aution Visible on Aeria ely Vegetated Concar	one is requ	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc	ained Leav Fauna (B13 latic Plants In Sulfide C Rhizosphe In Geduct In Reduct In Surface In Well Data	B) S (B14) Odor (C1) Heres on Liv Hed Iron (C4 Hidion in Tille Hid (C7) He (D9)	1)	s (C3)	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)		
Wetland H Primary Ind Surfac X High N X Satura Water Sedim Drift E Algal Iron D Inund. Spars	dicators (minimum of the Water (A1) Water Table (A2) Ation (A3) Marks (B1) Ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) Ation Visible on Aeria Deposits (B5)	one is requ I Imagery (I ve Surface	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc 37) Gauge of (B8) Other (Ex	ained Leav Fauna (B13 latic Plants n Sulfide C Rhizosphe e of Reduct on Reduct ck Surface r Well Data kplain in Ro	B) S (B14) Odor (C1) Heres on Liv Hed Iron (C4 Hidion in Tille Hid (C7) He (D9)	1)	s (C3)	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)		
Primary Inc Surfac X High V X Satura Water Sedim Drift E Algal Iron D Inund Spars Field Obse Surface V	ydrology Indicators dicators (minimum of ce Water (A1) Nater Table (A2) ation (A3) Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) leposits (B5) ation Visible on Aeria lety Vegetated Conca	I Imagery (Ive Surface	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc	ained Leav Fauna (B13 latic Plants n Sulfide C Rhizosphe e of Reduct on Reduct ck Surface r Well Data kplain in Re	B) S (B14) Odor (C1) Heres on Liv Hed Iron (C4 Hidion in Tille Hid (C7) He (D9)	1)	s (C3)	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)		

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Plymouth Fire Station II		City/County: Ply	City/County: Plymouth Sampling Date: April 17, 2020					
Applicant/Owner: City of Plymouth			State: Minnesota Sampling Point: WL2-1UP					
Investigator(s): Sambatek – JD Donath		Section, Townsh	Section, Township, Range: Section 14, T118N, R22W					
			ocal relief (concave, convex, none): none					
Slope (%): 0-2% slopes Lat: 45.		_ '	·					
Soil Map Unit Name: L36A – Hamel, overwash-Ha								
Are climatic / hydrologic conditions on the site typic								
			"Normal Circumstances" present? Yes X No					
Are Vegetation, Soil, or Hydrology _			eeded, explain any answers in Remarks.)					
			ocations, transects, important features, etc.					
Hydrophytic Vegetation Present?	Vos V No							
	Yes X No _	Is the Sample						
	Yes No		land? Yes NoX					
	Yes No	<u>X</u>						
Remarks:								
The site was experiencing wetter than normal pre	ecipitation conditions	s at the time of the field	VISIT.					
VEGETATION - Use scientific names of plant	S.		,					
Trac Stratum (Diet eizer 201		Dominant Indicator	Dominance Test worksheet:					
Tree Stratum (Plot size: 30') 1		Species? Status	Number of Dominant Species					
2.			That Are OBL, FACW, or FAC:1 (A)					
3.			Total Number of Deminent					
4.			Total Number of Dominant Species Across All Strata: 1 (B)					
5			\ , ,					
		= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC:100 (A/B)					
Sapling/Shrub Stratum (Plot size: 15')		That Are OBL, FACW, or FAC:100 (A/B)					
1.	='		Prevalence Index worksheet:					
2			Total % Cover of: Multiply by:					
3			OBL species 0 x 1 = 0					
4. 5.			FACW species 100 X 2 = 200 FAC species 0 X 3 = 0					
5		= Total Cover	FACU species 0 X 4 = 0					
			UPL species 0 X 5 = 0					
Herb Stratum (Plot size: 5')			Column Totals: 100 (A) 200 (B)					
Phalaris arundinacea (Reed Canary Grass) 2.		Y FACW	(2)					
3.			Prevalence Index = B/A = 2.0					
4.			Hydrophytic Vegetation Indicators:					
5.			1 - Rapid Test for Hydrophytic Vegetation					
6			X 2 - Dominance Test is > 50%					
7			X 3 - Prevalence Test is ≤ 3.0¹					
8. 9.			4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)					
10			Problematic Hydrophytic Vegetation ¹ (Explain)					
	100	= Total Cover						
			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.					
Woody Vine Stratum (Plot size: 30') 1.			Hydrophytic					
			Vegetation Present? Yes X No					
		= Total Cover	1000m. 100 <u>A</u> NO					
Remarks: (Include photo numbers here or on a si	eparate sheet.)		1					
, ,	. ,							

	cription: (Describe t	o the den	th needed to decur	mont the in	diantar a	r oonfirn	the absence	Sampling Poir			
Depth	Matrix	o the dep		edox Featur		COMMI	i tile absellt	e of indicators.)			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Re	marks		
0-9	10YR 2/1	100					Clay Loam				
9-16	10YR 2/2	100					Clay Loam				
16-20	10YR 2/2	95	10YR 4/4	5	C	M	Clay Loam				
Type: C=C	oncentration, D=Dep	letion. RM	=Reduced Matrix. C	S=Covered	I or Coate	d Sand G	rains.	² Location: PL=Pore	Lining, M=Ma	ıtrix.	
			,								
•	Indicators: sol (A1)		Sandy Glo	yed Matrix	(84)		Indica	ators for Problemation Coast Prairie Redox	-	s³:	
	Epipedon (A2)		Sandy Red	-	(34)			Dark Surface (S7)	(A10)		
	Histic (A3)		Stripped M	` '				Iron-Mangenese Masses (F12)			
	ogen Sulfide (A4)			icky Minera	l (F1)			Very Shallow Dark Surfaces (TF12)			
	fied Layers (A5)			eyed Matrix				Other (Explain in Remarks)			
2 cm	Muck (A10)		Depleted N				_				
Deple	eted Below Dark Surf	ace (A11)	Redox Dar	Redox Dark Surface (F6)							
Thick	Dark Surface (A12)		Depleted Dark Surface (F7)					³ Indicators of Hydrophytic vegetation and			
Sand	y Mucky Mineral (S1))	Redox Dep	pressions (F	F8)		wetland hydrology must be present, unless				
5 cm	Mucky Peat or Peat	(S3)					dist	urbed or problematic.			
_	Layer (if observed):										
Type:			Hydric Soil Prese				esent? Yes		Х		
	iches):				,	110 3011 1	resent?	169	No _		
Depth (in	nches):					110 30111	resent?	165			
Depth (in							resent?	165			
Depth (in	il indicators are met.						resent?	165			
Depth (in							resent?	165			
Depth (in							resent?	165		^	
Depth (in							resent?	165			
Depth (in Remarks: No hydric so	il indicators are met.										
Depth (in Remarks: No hydric so	GY drology Indicators:		irod: aback all that a	analis)				ondary Indicators (mil	nimum of two		
Depth (in Remarks: No hydric so YDROLO Wetland Hy Primary India	GY drology Indicators:							ondary Indicators (min Surface Soil Cracks	nimum of two		
Depth (in Remarks: No hydric so YDROLO Wetland Hy Primary India Surface High W	GY drology Indicators: cators (minimum of color		Water-St Aquatic F	ained Leav Fauna (B13	es (B9)			ondary Indicators (min Surface Soil Cracks Drainage Patterns (E Dry-Season Water T	nimum of two (B6) 310) able (C2)		
Depth (in Remarks: No hydric so YDROLO Wetland Hy Primary India Surface High W Saturat	GY drology Indicators: cators (minimum of color (M1) ater Table (A2) ion (A3)		Water-St Aquatic F True Aqu	ained Leav Fauna (B13 Jatic Plants	es (B9)) (B14)			ondary Indicators (min Surface Soil Cracks Drainage Patterns (E Dry-Season Water T Crayfish Burrows (Ct	nimum of two (B6) 310) able (C2)	required	
Depth (in Remarks: No hydric so IYDROLO Wetland Hy Primary India Surface High W Saturat Water M	GY drology Indicators: cators (minimum of cators (M1) dater Table (A2) ion (A3) Marks (B1)		Water-St Aquatic F True Aqu Hydroger	rained Leav Fauna (B13 uatic Plants n Sulfide O	es (B9)) (B14) dor (C1)		<u>Sec</u>	ondary Indicators (min Surface Soil Cracks Drainage Patterns (E Dry-Season Water T Crayfish Burrows (Ca Saturation Visible on	nimum of two (B6) 310) able (C2) 8) Aerial Image	required	
Primary India Surface High W Saturat Water M Sedime	GY drology Indicators: cators (minimum of color (M1) ater Table (A2) ion (A3)		Water-St Aquatic F True Aqu Hydroger Oxidized	ained Leav Fauna (B13 Jatic Plants	es (B9)) (B14) dor (C1) res on Liv	ing Roots	<u>Sec</u>	ondary Indicators (min Surface Soil Cracks Drainage Patterns (E Dry-Season Water T Crayfish Burrows (Ct	nimum of two (B6) 310) able (C2) 8) Aerial Image Plants (D1)	required	
Depth (in Remarks: No hydric so YDROLO Wetland Hy Primary India Surface High W Saturat Water N Sedime Drift De Algal M	GY drology Indicators: cators (minimum of context) water (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4)		Water-St Aquatic F True Aqu Hydroger Oxidized Presence	ained Leav Fauna (B13 Jatic Plants In Sulfide Oo Rhizosphe Tof Reduce Ton Reducti	es (B9)) (B14) dor (C1) res on Liv ed Iron (C2 on in Tille	ing Roots	Sec ————————————————————————————————————	ondary Indicators (min Surface Soil Cracks Drainage Patterns (E Dry-Season Water T Crayfish Burrows (Ca Saturation Visible on Stunted or Stressed	nimum of two (B6) 310) able (C2) 8) Aerial Image Plants (D1)	requirec	
Depth (in Remarks: No hydric so IYDROLO Wetland Hy Primary India Surface High W Saturat Water N Sedime Drift De Algal M Iron De	GY drology Indicators: cators (minimum of context) atter Table (A2) ion (A3) Marks (B1) and Deposits (B2) eposits (B3) lat or Crust (B4) posits (B5)	one is requ	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir	ained Leav Fauna (B13 Justic Plants In Sulfide Oo Rhizosphe In Geduce In Reduce In Reduction Reduction Reduction	es (B9)) (B14) dor (C1) res on Liv ed Iron (C4) on in Tiller (C7)	ing Roots	Sec ————————————————————————————————————	ondary Indicators (min Surface Soil Cracks Drainage Patterns (E Dry-Season Water T Crayfish Burrows (Ct Saturation Visible on Stunted or Stressed Geomorphic Position	nimum of two (B6) 310) able (C2) 8) Aerial Image Plants (D1)	requirec	
Depth (in Remarks: No hydric so IYDROLO Wetland Hy Primary India Surface High W Saturat Water N Sedime Drift De Algal M Iron De Inundat	GY drology Indicators: cators (minimum of context) water (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4)	one is requ	Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc	ained Leav Fauna (B13 Jatic Plants In Sulfide Oo Rhizosphe Tof Reduce Ton Reducti	es (B9)) (B14) dor (C1) res on Liv ed Iron (C4 on in Tiller (C7) (D9)	ing Roots	Sec ————————————————————————————————————	ondary Indicators (min Surface Soil Cracks Drainage Patterns (E Dry-Season Water T Crayfish Burrows (Ct Saturation Visible on Stunted or Stressed Geomorphic Position	nimum of two (B6) 310) able (C2) 8) Aerial Image Plants (D1)	requirec	

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Plymouth Fire Station II			C	City/County: Ply	mouth Sampling	g Date: April 17, 2020			
Applicant/Owner: City of Plymouth				State: Minnesota Sampling Point: WL2-1WET					
Investigator(s): Sambatek – JD Donath			Section, Township, Range: Section 14, T118N, R22W						
				ocal relief (concave, convex, none): none					
Slope (%): 0-2% slopes Lat: _45.									
Soil Map Unit Name: L36A – Hamel, overwash-Ha									
Are climatic / hydrologic conditions on the site typi									
Are Vegetation, Soil, or Hydrology _				· <u> </u>					
Are Vegetation, Soil, or Hydrology _					eded, explain any answers in R				
SUMMARY OF FINDINGS – Attach sit				•	•	,			
Hydrophytic Vegetation Present?	Voc	y No							
		X No _		Is the Sample					
		X No _		within a Wetl	and? Yes X	No			
	Yes	<u>X</u> No _							
Remarks:		1141			,				
The site was experiencing wetter than normal pro	ecipitatio	on condition	s at the t	ime of the field	VISIT.				
VEGETATION - Use scientific names of plant	S.								
Trac Stratum (Diet size: 20)				ant Indicator	Dominance Test worksheet:				
Tree Stratum (Plot size: 30') 1		% Cover	Specie	s? Status	Number of Dominant Species	S			
2.					That Are OBL, FACW, or FA				
3.					Total Number of Deminent				
4					Total Number of Dominant Species Across All Strata:	1 (B)			
5					·				
			= Total	Cover	Percent of Dominant Species That Are OBL, FACW, or FA	C: 100 (A/P)			
Sapling/Shrub Stratum (Plot size: 15')				That Are OBL, FACW, OF FA	C: <u>100</u> (A/B)			
1.	_				Prevalence Index worksheet				
2					Total % Cover of: OBL species 0				
3					FACW species 100	X = 0 X = 200			
4. 5.					FAC species 0	X3 = 0			
·			= Total	Cover	FACU species 0	X 4 = 0			
					UPL species 0	X 5 = 0			
Herb Stratum (Plot size: 5')		400		E4 014/	Column Totals: 100	(A) 200 (B)			
Phalaris arundinacea (Reed Canary Grass) 2.				FACW		()			
3.					Prevalence Index	= B/A = 2.0			
4.					Hydrophytic Vegetation Indic				
5					1 - Rapid Test for Hydrop	hytic Vegetation			
6					X 2 - Dominance Test is > 5				
7					X 3 - Prevalence Test is ≤ 3				
8. 9.					4 - Morphological Adaptat data in Remarks or on				
10		-			Problematic Hydrophytic	• •			
		100	= Total	Cover	4				
Was to Visa Observer (District of 201)					¹ Indicators of hydric soil and was be present, unless disturbed of				
Woody Vine Stratum (Plot size: 30') 1.					Hydrophytic	, problemater			
					Vegetation Present? Yes	X No			
			= Total	Cover					
Remarks: (Include photo numbers here or on a s	eparate	sheet.)							
	-	,							

SOIL

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

Depth Matrix Redox Features

Depth	Matrix	to the dep	Rec	dox Feature		or Commi	tile absence	of malcators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6	10YR 2/1	100					Loam	
6-12	10YR 21	90	10YR 4/6	10	С	M	Clay Loam	
12-18	10YR 2/1	80	10YR 4/6	20	C	M		_
12-10	101K Z/1	00	101K 4/0			IVI	Clay Loam	
¹Type: C=C	oncentration, D=De	pletion, RM	=Reduced Matrix, CS	S=Covered	or Coate	ed Sand G	rains. ²	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicat	tors for Problematic Hydric Soils ³ :
-	sol (A1)		Sandy Gley	od Matrix (9	S4)			Coast Prairie Redox (A16)
	Epipedon (A2)		Sandy Red		54)			Dark Surface (S7)
	Histic (A3)		Stripped Ma					Iron-Mangenese Masses (F12)
	` '				(E1)			Very Shallow Dark Surfaces (TF12)
	igen Sulfide (A4) ied Layers (A5)		Loamy Muc Loamy Gley	-				
	• , ,			,	ΓZ)		<u> </u>	Other (Explain in Remarks)
	Muck (A10)	-f (A 4 4)	Depleted M		-0)			
	ted Below Dark Su	, ,	X Redox Dark					
	Dark Surface (A12	•	Depleted D				³ Indica	tors of Hydrophytic vegetation and
	y Mucky Mineral (S	•	Redox Dep	ressions (F	8)			and hydrology must be present, unless
	Mucky Peat or Pea						distu	rbed or problematic.
Restrictive Type:	Layer (if observed):						
Depth (in	ches):				Hyd	Iric Soil P	resent?	Yes <u>X</u> No
Remarks:	, <u> </u>							
HYDROLO								
Wetland Hy	drology Indicators	S:					<u>Seco</u>	endary Indicators (minimum of two required)
		one is requ	red; check all that ap				;	Surface Soil Cracks (B6)
	Water (A1)			ined Leave	s (B9)			Drainage Patterns (B10)
X Saturat	ater Table (A2)			auna (B13) atic Plants (l	D14)			Dry-Season Water Table (C2) Crayfish Burrows (C8)
	Marks (B1)			Sulfide Od				Saturation Visible on Aerial Imagery (C9)
	nt Deposits (B2)			Rhizosphere		ing Roots		Stunted or Stressed Plants (D1)
Drift De	posits (B3)			of Reduced	,	,		Geomorphic Position (D2)
	at or Crust (B4)			on Reductio		ed Soils (C	6) <u> </u>	FAC-Neutral Test (D5)
	posits (B5) ion Visible on Aeria	l Imagan, (F		k Surface (C Well Data (,			
	y Vegetated Conca	0, 1	,	plain in Ren				
Field Obser					<u> </u>			
		es N	o X Depth (inche	c).				
Water Tabl			Depth (inches					
		· <u></u> -				Wetlan	d Hydrology	Present? Yes X No
Saturation (includes c	Present?	es <u>X</u> N	Depth (inche	s):10)			
Describe De	corded Data (atrace	m dallac m	onitoring well, aerial p	ohotos pro	ious iss	nections)	if available:	
Describe Re	corded Data (Stream	n gauge, m	onitoring well, aerial p	priotos, prev	/ious iris	pections),	ii avaliable.	
Remarks:								



PHOTOGRAPHIC RECORD

Project Name:

Plymouth Fire Station II

Site Location:

Plymouth, Minnesota

Project ID:

22199

Photo No. 1

Location of Photo:

Along southwest wetland boundary

Description:

Facing northwest along the wetland boundary



Photo No. 2

Location of Photo:

SP 1-1

Description:

Facing north across the wetland





PHOTOGRAPHIC RECORD

Project Name:

Plymouth Fire Station II

Site Location:

Plymouth, Minnesota

Project ID:

22199

Photo No. 3

Location of Photo:

Along east wetland boundary

Description:

Facing west across wetland



Photo No. 102

Location of Photo:

West wetland boundary

Description:

Facing east across wetland





PHOTOGRAPHIC RECORD

Project Name:

Plymouth Fire Station II

Site Location:

Plymouth, Minnesota

Project ID:

22199

Photo No. 104

Location of Photo:

South wetland boundary

Description:

Facing north across wetland



Photo No. 107

Location of Photo:

North wetland boundary

Description:

Facing south



Project Name and/or Number: 22199 Plymouth Fire Department

PART ONE: Applicant Information

If applicant is an entity (company, government entity, partnership, etc.), an authorized contact person must be identified. If the applicant is using an agent (consultant, lawyer, or other third party) and has authorized them to act on their behalf, the agent's contact information must also be provided.

Applicant/Landowner Name: City of Plymouth – Amy Hanson

Mailing Address: 3400 Plymouth Boulevard, Plymouth Minnesota 55447

Phone:

E-mail Address:

Authorized Contact (do not complete if same as above):

Mailing Address:

Phone:

E-mail Address:

Agent Name: Todd Ullom

Mailing Address: 12800 Whitewater Drive, Suite 300, Minnetonka, MN 55343

Phone: 763.476.6010

E-mail Address: tullom@sambatek.com

PART TWO: Site Location Information

County: Hennepin

City/Township: Plymouth

Parcel ID and/or Address: 12000 Old Rockford Road

Legal Description (Section, Township, Range): Section 14, T118N, R22W

Lat/Long (decimal degrees): 45.030434, -93.433422

Attach a map showing the location of the site in relation to local streets, roads, highways.

Approximate size of site (acres) or if a linear project, length (feet):

If you know that your proposal will require an individual Permit from the U.S. Army Corps of Engineers, you must provide the names and addresses of all property owners adjacent to the project site. This information may be provided by attaching a list to your application or by using block 25 of the Application for Department of the Army permit which can be obtained at:

http://www.mvp.usace.army.mil/Portals/57/docs/regulatory/Regulatory/Docs/engform 4345 2012oct.pdf

PART THREE: General Project/Site Information

If this application is related to a delineation approval, exemption determination, jurisdictional determination, or other correspondence submitted prior to this application then describe that here and provide the Corps of Engineers project number.

Describe the project that is being proposed, the project purpose and need, and schedule for implementation and completion. The project description must fully describe the nature and scope of the proposed activity including a description of all project elements that effect aquatic resources (wetland, lake, tributary, etc.) and must also include plans and cross section or profile drawings showing the location, character, and dimensions of all proposed activities and aquatic resource impacts.

Please see that attached narrative.

Project Name and/or Number: Plymouth Fire Department

PART FOUR: Aquatic Resource Impact¹ Summary

If your proposed project involves a direct or indirect impact to an aquatic resource (wetland, lake, tributary, etc.) identify each impact in the table below. Include all anticipated impacts, including those expected to be temporary. Attach an overhead view map, aerial photo, and/or drawing showing all of the aquatic resources in the project area and the location(s) of the proposed impacts. Label each aquatic resource on the map with a reference number or letter and identify the impacts in the following table.

Aquatic Resource ID (as noted on overhead view)	Aquatic Resource Type (wetland, lake, tributary etc.)	l drain or l	Duration of Impact Permanent (P) or Temporary (T) ¹	Size of Impact ²	Overall Size of Aquatic Resource ³	Existing Plant Community Type(s) in Impact Area ⁴	County, Major Watershed #, and Bank Service Area # of Impact Area ⁵

¹If impacts are temporary; enter the duration of the impacts in days next to the "T". For example, a project with a temporary access fill that would be removed after 220 days would be entered "T (220)".

If any of the above identified impacts have already occurred, identify which impacts they are and the circumstances associated with each:

PART FIVE: Applicant Signature

Check here if you are requesting a <u>pre-application</u> consultation with the Corps and LGU based on the information you have
provided. Regulatory entities will not initiate a formal application review if this box is checked.

By signature below, I attest that the information in this application is complete and accurate. I further attest that I possess the authority to undertake the work described herein.

Signature:

I hereby authorize

to act on my behalf as my agent in the processing of this application and to furnish, upon request, supplemental information in support of this application.

Impacts less than 0.01 acre should be reported in square feet. Impacts 0.01 acre or greater should be reported as acres and rounded to the nearest 0.01 acre. Tributary impacts must be reported in linear feet of impact and an area of impact by indicating first the linear feet of impact along the flowline of the stream followed by the area impact in parentheses). For example, a project that impacts 50 feet of a stream that is 6 feet wide would be reported as 50 ft (300 square feet).

³This is generally only applicable if you are applying for a de minimis exemption under MN Rules 8420.0420 Subp. 8, otherwise enter "N/A".

⁴Use Wetland Plants and Plant Community Types of Minnesota and Wisconsin 3rd Ed. as modified in MN Rules 8420.0405 Subp. 2.

⁵Refer to Major Watershed and Bank Service Area maps in MN Rules 8420.0522 Subp. 7.

¹ The term "impact" as used in this joint application form is a generic term used for disclosure purposes to identify activities that may require approval from one or more regulatory agencies. For purposes of this form it is not meant to indicate whether or not those activities may require mitigation/replacement.

Project Name and/or Number: Plymouth Fire Department

Attachment A Request for Delineation Review, Wetland Type Determination, or Jurisdictional Determination

By submission of the enclosed wetland delineation report, I am requesting that the U.S. Army Corps of Engineers, St. Paul District (Corps) and/or the Wetland Conservation Act Local Government Unit (LGU) provide me with the following (check all that apply): Wetland Type Confirmation Delineation Concurrence. Concurrence with a delineation is a written notification from the Corps and a decision from the LGU concurring, not concurring, or commenting on the boundaries of the aquatic resources delineated on the property. Delineation concurrences are generally valid for five years unless site conditions change. Under this request alone, the Corps will not address the jurisdictional status of the aquatic resources on the property, only the boundaries of the resources within the review area (including wetlands, tributaries, lakes, etc.). Preliminary Jurisdictional Determination. A preliminary jurisdictional determination (PJD) is a non-binding written indication from the Corps that waters, including wetlands, identified on a parcel may be waters of the United States. For purposes of computation of impacts and compensatory mitigation requirements, a permit decision made on the basis of a PJD will treat all waters and wetlands in the review area as if they are jurisdictional waters of the U.S. PJDs are advisory in nature and may not be appealed. Approved Jurisdictional Determination. An approved jurisdictional determination (AJD) is an official Corps determination that jurisdictional waters of the United States are either present or absent on the property. AJDs can generally be relied upon by the affected party for five years. An AJD may be appealed through the Corps administrative appeal process. In order for the Corps and LGU to process your request, the wetland delineation must be prepared in accordance with the 1987 Corps of Engineers Wetland Delineation Manual, any approved Regional Supplements to the 1987 Manual, and the Guidelines for Submitting Wetland Delineations in Minnesota (2013). http://www.mvp.usace.army.mil/Missions/Regulatory/DelineationJDGuidance.aspx



DEPARTMENT OF THE ARMY U.S. ARMY CORPS OF ENGINEERS, ST. PAUL DISTRICT 180 FIFTH STREET EAST, SUITE 700 ST. PAUL, MN 55101-1678

June 15, 2020

Regulatory File No. 2020-00759-JMB

Jessica Abernathy, Sambatek Inc. C/o Amy Hanson, City of Plymouth 3400 Plymouth Blvd. Plymouth, Minnesota 55447

Dear Ms. Hansen:

We are responding to your request, submitted by Sambatek, Inc. on your behalf, for Corps of Engineers (Corps) concurrence with the delineation of aquatic resources completed on the Plymouth Fire Station II property. The project site is located in Section 14, Township 118 North, Range 22 West, Hennepin County, Minnesota.

We have conducted a preliminary review of the delineation report, dated May 7, 2020 and generally concur that the 'Wetland Delineation Map' in the report depicts a reasonable approximation of the location and boundaries of aquatic resources on the property. This delineation can be used for planning, and will generally be sufficient for permitting purposes. It may be necessary to review this determination in response to changing site conditions or new information.

Additional Information regarding Jurisdiction and Permitting:

No jurisdictional determination was prepared for this project, nor is one required to support a permit application. If you submit a permit application, we will assist you in identifying aquatic resources that are not subject to Corps regulation to exclude those resources from the permit evaluation. A permit application should include this delineation, any subsequent revisions, and any state or local delineation approvals. You are advised that receipt of a permit or exemption from a state or local agency does not satisfy the requirement to obtain a Corps permit where one is needed.

Please note that the Corps has issued Nationwide General Permits and Regional General Permits that provide authorization for many minor activities. Many of those general permits require a pre-construction notification and Corps verification prior to starting work. However, several general permits also have "self-certifying" provisions that eliminate the need to provide notice to the Corps, provided the permittee complies with the terms and conditions of the general permit. Current general permit terms and conditions can be found at: https://www.mvp.usace.army.mil/Missions/Regulatory/Permitting-Process-Procedures/.

Regulatory Branch (File No. 2020-00759-JMB)

If you have any questions, please contact me in our Hayward office at (651) 290-5884 or jonathan.m.bakken@usace.army.mil. In any correspondence or inquiries, please refer to the Regulatory file number shown above.

Sincerely,

Jonathan M. Bakken Project Manager

cc: Todd Ullom, Sambatek (tullom@sambatek.com)
Vanessa Strong, City of Plymouth (vstrong@plymouthmn.gov)
Ben Meyer, BWSR (ben.meyer@state.mn.us)