

## Minnesota Wetland Conservation Act Notice of Decision

<b>Local Government Unit:</b> City of Plymouth	<b>County:</b> Hennepin
<b>Applicant Name:</b> Commercial Investment Properties	
<b>Applicant Representative:</b> Kelsey Malecha	
<b>Project Name:</b> Dundee Nursery Redevelopment	
<b>LGU Project No. (if any):</b> 2020-22	
<b>Date Complete Application Received by LGU:</b> 11/16/2020	
<b>Date of LGU Decision:</b> 1/11/2021	
<b>Date this Notice was Sent:</b> 2/3/2021	

**WCA Decision Type - check all that apply**

<input checked="" type="checkbox"/> Wetland Boundary/Type	<input type="checkbox"/> Sequencing	<input type="checkbox"/> Replacement Plan	<input type="checkbox"/> Bank Plan (not credit purchase)
<input type="checkbox"/> No-Loss (8420.0415)	<input type="checkbox"/> Exemption (8420.0420)		
Part: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> H		Subpart: <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9	

**Replacement Plan Impacts (replacement plan decisions only)**

Total WCA Wetland Impact Area:
Wetland Replacement Type: <input type="checkbox"/> Project Specific Credits: <input type="checkbox"/> Bank Credits:
Bank Account Number(s):

**Technical Evaluation Panel Findings and Recommendations (attach if any)**

<input type="checkbox"/> Approve <input checked="" type="checkbox"/> Approve w/Conditions <input type="checkbox"/> Deny <input type="checkbox"/> No TEP Recommendation
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**LGU Decision**

<input type="checkbox"/> Approved with Conditions (specify below) <sup>1</sup>	<input checked="" type="checkbox"/> Approved <sup>1</sup>	<input type="checkbox"/> Denied
List Conditions: MnRAM be submitted for wetland 1. (See note below)		
<b>Decision-Maker for this Application:</b> <input checked="" type="checkbox"/> Staff <input type="checkbox"/> Governing Board/Council <input type="checkbox"/> Other:		
<b>Decision is valid for:</b> <input checked="" type="checkbox"/> 5 years (default) <input type="checkbox"/> Other (specify):		

<sup>1</sup> *Wetland Replacement Plan approval is not valid until BWSR confirms the withdrawal of any required wetland bank credits. For project-specific replacement a financial assurance per MN Rule 8420.0522, Subp. 9 and evidence that all required forms have been recorded on the title of the property on which the replacement wetland is located must be provided to the LGU for the approval to be valid.*

**LGU Findings – Attach document(s) and/or insert narrative providing the basis for the LGU decision<sup>1</sup>.**

<input checked="" type="checkbox"/> Attachment(s) (specify): <b>Wetland 1 MNRAM</b>
<input checked="" type="checkbox"/> Summary: <b>A MNRAM was requested by the TEP during our site meeting in the fall of 2020. The MNRAM for this property was submitted and the wetland classification for wetland 1 has been determined to be a Medium Quality wetland.</b>

<sup>1</sup> *Findings must consider any TEP recommendations.*

**Attached Project Documents**

<input checked="" type="checkbox"/> Site Location Map <input type="checkbox"/> Project Plan(s)/Descriptions/Reports (specify):
--------------------------------------------------------------------------------------------------------------------------------

**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](mailto:travis.germundson@state.mn.us)

Does the LGU have a local appeal process applicable to this decision?

Yes<sup>1</sup>       No

<sup>1</sup>If yes, all appeals must first be considered via the local appeals process.

**Local Appeals Submittal Requirements** (LGU must describe how to appeal, submittal requirements, fees, etc. as applicable)

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**Notice Distribution (include name)**

*Required on all notices:*

<input checked="" type="checkbox"/> SWCD TEP Member:	<b>Ms. Stacey Lijewski, HCA, 701 Fourth Avenue South, Suite 700, Minneapolis, MN 55415-1600</b>
<input checked="" type="checkbox"/> BWSR TEP Member:	<b>Ben Carlson, BWSR, 520 Lafayette Road North, St. Paul, MN 55401</b>
<input checked="" type="checkbox"/> LGU TEP Member (if different than LGU contact):	<b>Ben Scharenbroich, 3400 Plymouth Blvd, Plymouth MN 55447</b>
<input checked="" type="checkbox"/> DNR Representative:	<b>Melissa Collins, MnDNR, 1200 Warner Road, St. Paul, MN 55106 Lucas Youngsma, MnDNR, 1200 Warner Road, St. Paul, MN 55106</b>
<input checked="" type="checkbox"/> Watershed District or Watershed Mgmt. Org.:	<b>BCWMC 16145 Hillcrest Lane, Eden Prairie MN 55346 MWCD, 15320 Minnetonka Blvd, Minnetonka MN 55345</b>
<input checked="" type="checkbox"/> Applicant:	<b>Commercial Investment Properties c/o Kelsey Malecha 3800 American Boulevard West, Suite 1120, Bloomington MN 55431</b>
<input type="checkbox"/> Agent/Consultant:	<b>Kimley-Horn and Associates, Inc. 767 Eustis Street, Suite 100, Saint Paul MN 55114</b>

*Optional or As Applicable:*

<input checked="" type="checkbox"/> Corps of Engineers:	<b>US Army Corps of Engineers, c/o Eric White 180 Fifth Street East, Suite 700, St. Paul, MN 5511-1678</b>
<input type="checkbox"/> BWSR Wetland Mitigation Coordinator (required for bank plan applications only):	
<input type="checkbox"/> Members of the Public (notice only):	<input type="checkbox"/> Other:

<p><b>Signature:</b></p> 	<p><b>Date:</b></p> <p>2/3/2021</p>
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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.

MNRAM 3.2 Wetland Assessment Data Form Page 1

	Date 1/6/2021	Wetland name / ID Wetland 1		Wetland name / ID		Wetland name / ID		Wetland name / ID		
	Special Features (from list, p.2--enter letter/s)	-		-		-		-		
#1	Community Number (circle each community which represents at least 10% of the wetland)	3A, 3B, 4A, 4B, 7A, 7B, 8A, 8B, 10A, 13A, 13B, 12B, 14A, 15A, 15B, 16A, 16B	3A, 3B, 4A, 4B, 7A, 7B, 8A, 8B, 10A, 13A, 13B, 12B, 14A, 15A, 15B, 16A, 16B	3A, 3B, 4A, 4B, 7A, 7B, 8A, 8B, 10A, 13A, 13B, 12B, 14A, 15A, 15B, 16A, 16B	3A, 3B, 4A, 4B, 7A, 7B, 8A, 8B, 10A, 13A, 13B, 12B, 14A, 15A, 15B, 16A, 16B	3A, 3B, 4A, 4B, 7A, 7B, 8A, 8B, 10A, 13A, 13B, 12B, 14A, 15A, 15B, 16A, 16B	3A, 3B, 4A, 4B, 7A, 7B, 8A, 8B, 10A, 13A, 13B, 12B, 14A, 15A, 15B, 16A, 16B	3A, 3B, 4A, 4B, 7A, 7B, 8A, 8B, 10A, 13A, 13B, 12B, 14A, 15A, 15B, 16A, 16B	3A, 3B, 4A, 4B, 7A, 7B, 8A, 8B, 10A, 13A, 13B, 12B, 14A, 15A, 15B, 16A, 16B	
#2 & #3	~ Describe each community type individually below ~				~ Describe each community type individually below ~					
Plant Community #1	Community Type (wet meadow, marsh)	13B	Shallow Marsh	-	-	-	-	-	-	
	Community Proportion (% of total)	100%								
	Dominant Vegetation / Cover Class	<i>Impatiens capensis</i> , Jewelweed, FACW / 3 <i>Carex lacustris</i> , Lake Sedge, OBL / 3								
	Invasive/exotic Vegetation / Cover Class	<i>Typha angustifolia</i> , Narrow leaved cattail, OBL / 5								
	Community Quality (E, H, M, L)	L	0.1		0		0		0	
	Community Type (wet meadow, marsh)	-	-	-	-	-	-	-	-	
Plant Community #2	Community Proportion (% of total)									
	Dominant Vegetation / Cover Class									
	Invasive/exotic Vegetation / Cover Class									
	Community Quality (E, H, M, L)		0		0		0		0	
	Community Type (wet meadow, marsh)	-	-	-	-	-	-	-	-	
	Community Proportion (% of total)									
Plant Community #3	Dominant Vegetation / Cover Class									
	Invasive/exotic Vegetation / Cover Class									
	Community Quality (E, H, M, L)		0		0		0		0	
	Community Type (wet meadow, marsh)	-	-	-	-	-	-	-	-	
	Community Proportion (% of total)									
	Dominant Vegetation / Cover Class									
Plant Community #4	Invasive/exotic Vegetation / Cover Class									
	Community Quality (E, H, M, L)	-	0		0		0		0	
	Community Type (wet meadow, marsh)	-	-	-	-	-	-	-	-	
	Community Proportion (% of total)									
	Dominant Vegetation / Cover Class									
	Invasive/exotic Vegetation / Cover Class									
Circular 39 Types (primary <TAB> others)	3									
Cowardin Types	PEM1C									
Photo ID										
Highest rated community veg. div./integ:	0.1	Low	0	-	0	-	0	-		
Average vegetative diversity/integrity:	0.10	Low	-	-	-	-	-	-		
Weighted Average veg. diversity/integrity:	0.10	Low	0.00	-	0.00	-	###	-		
#4 Listed, rare, special plant species?	n	Y N		Y N		Y N		Y N		
#5 Rare community or habitat?	n	Y N		Y N		Y N		Y N		
#6 Pre-European-settlement conditions?	n	Y N		Y N		Y N		Y N		
Floodplain Forest [1A, 2A, 3A] * Hardwood Swamp [3B] * Coniferous Bog [2A, 4B] * Coniferous Swamp [4B] * Open Bog [1B, 5A, 5B, 6A, 7A, 9A, 10A] * Calcareous Fen [7B, 11B, 14A] * Shrub Swamp [6B] * Alder Thicket [8A] * Shrub-carr [8B] * Sedge Meadow [10B, 11A, 12A, 13A] * Shallow Marsh [13B] * Deep Marsh [12B] * Wet to Wet-Mesic Prairie [14B, 15A] * Fresh (Wet) Meadow [15B] * Shallow, Open Water [9B, 16A] * Seasonally Flooded Basin [16B]								Cover Class	Class Range	
								1	0 - 3%	
								2	3 - 10%	
								3	10 - 25%	
								4	25 - 50%	
								5	50 - 75%	
								6	75 - 100%	

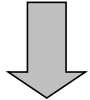
\*If there are more than four plant community types, use the next column over to enter the rest and do not rely on the automatic average calculations.

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	<b>MnRAM 3.2 Digital Worksheet, Side 2</b>												
2													
3			<b>Question Description</b>	<b>User entry</b>	<b>Rating</b>								
4													
5	1		Veg. Table 2, Option 4		0.10								
6			<b>TOTAL VEG Rating</b>	0.1	L								
7	4		Listed, rare, special plant species?	n	next								
8	5		Rare community or habitat?	n	next								
9	6		Pre-European-settlement conditions?	n	next								Highest-rated: 0.1
10	7		hydrogeo & topo	FT	Depress'l/Flow-through								
11	8		Water depth (inches)	12									
12			Water depth (% inundation)	80%									
13	9		Local watershed/immedita drainage (acres)	4.1									
14	10		Existing wetland size	0.79									
15	11		SOILS: Up/Wetland (survey classification + site)	Wet: L24A Up: L22C2									
16	12		Outlet characteristics for flood retention	B	0.5								
17	13		Outlet characteristics for hydrologic regime	B	0.5								
18	14		Dominant upland land use (within 500 ft)	C	0.1	1							
19	15		Soil condition (wetland)	A	1								
20	16		Vegetation (% cover)	100%	H	1							
21	17		Emerg. veg. flood resistance	B	0.5								
22	18		Sediment delivery	B	0.5								
23	19		Upland soils (based on soil group)	C	1								
24	20		Stormwater runoff pretreatment & detention	B	0.5	0.5							
25	21		Subwatershed wetland density	C	0.1								
26	22		Channels/sheet flow	A	1								
27	23		Adjacent naturalized buffer average width (feet)	C	H	WQ	1	H		1			
28	24		Adjacent Area Management: % Full	30%	0.3	3	0.59						
29			adjacent area mgmt: % Manicured	55%	0.275								
30			adjacent area mgmt: % Bare	15%	0.015								
31	25		Adjacent Area Diversity & Structure: % Native	40%	0.4	3	0.64						
32			adjacent area diversity: % Mixed	45%	0.225								
33			adjacent area diversity: % Sparse/Inv./Exotic	15%	0.015								
34	26		Adjacent Area Slope: % Gentle	25%	0.25	2	0.325						
35			adjacent area slope: % Moderate	0%	0								
36			adjacent area slope: % Steep	75%	0.075								
37													
38													
39	27		Downstream sensitivity/WQ protection	A	1								
40	28		Nutrient loading	B	0.5								
41	29		Shoreline wetland?	N	N								
42	30		Rooted shoreline vegetation (% cover)		Enter a percentage								
43	31		Wetland in-water width (in feet, average)		Enter a percentage								
44	32		Emergent vegetation erosion resistance		Enter valid choice								
45	33		Shoreline erosion potential		Enter valid cho								
46	34		Bank protection/upslope veg.		Enter valid choice								
47	35		Rare Wildlife	N	N								
48	36		Scarce/Rare/S1/S2 local community	N	N								
49	37		Vegetation interspersion cover (see diagram 1)	1	L	0.1							
50	38		Community interspersion (see diagram 2)	1	L	0.1						0	
51	39		Wetland detritus	B	0.5								
52	40		Wetland interspersion on landscape	A	1	0.5							
53	41		Wildlife barriers	C	0.1								
54	42		Amphibian breeding potential-hydroperiod	A	1								
55	43		Amphibian breeding potential--fish presence	A	1								
56	44		Amphibian & reptile overwintering habitat	C	0.1								
57	45		Wildlife species (list)										
58	46		Fish habitat quality	C	0.1								
59	47		Fish species (list)										
60	48		Unique/rare educ./cultural/rec.opportunity	N	N								
61	49		Wetland visibility	B	0.5								
62	50		Proximity to population	N	0.1								
63	51		Public ownership	C	0.1								
64	52		Public access	C	0.1								
65	53		Human influence on wetland	B	0.5								
66	54		Human influence on viewsheed	C	0.1								
67	55		Spatial buffer	B	0.5								
68	56		Recreational activity potential	C	0.1								
69	57		Commercial crop--hydrologic impact	N/A	N/A								
70													
71													

This comes in from Side 1 automatically using the weighted average. To use the highest rated veg. Community rating, please manually overwrite that value (shown to the right) into the field at E5.

Enter data starting here. Yellow boxes are used in calculations.

Scroll down to answer more questions and see formula calculations



	A	B	C	D	E	F	G	H	I	J	K	L	M	
72														
73		58	GW - Wetland soils	R	R or D	0.1								
74		59	GW - Subwatershed land use	R	R or D	0.1								
75		60	GW - Wetland size and soil group	R	R or D	0.1								
76	Additional questions	61	GW - Wetland hydroperiod	R	R or D	0.1								
77		62	GW - Inlet/Outlet configuration	D	R or D	1								
78		63	GW - Surrounding upland topographic relief	R	R or D	0.1								
79		64	Restoration potential w/o flooding	N	Y or N	1.5								
80		65	Landowners affected by restoration		E a b c	Enter valid choice								
81		66A	Existing wetland size (acres) [from #10]	0.79										
82		66B	Total wetland restoration size (acres)				0.1							
83		66C	(Calculated) Potential New Wetland Area [B-A]	-0.79			% effectively drained: ####							
84		67	Average width of naturalized upland buffer (poten	0			0.1	value: ####						
85		68	Likelihood of restoration success			a b c	Enter valid choice							
86		69	Hydrologic alteration type			Outlet, Tile, Ditch, GW pump, Wtrshd div., Filling								
87		70	Potential wetland type (Circ. 39)			1, 2, 3, 4, 5, 6, 7, 8								
88	71	Wetland sensitivity to stormwater	b		E a b c									
89	72	Additional stormwater treatment needs	b		a b c									



90													
91													
92													
93													
94													

	Function Name	Raw score	Final Rating	Rating Category	Formula shown to the right.
95					
96	Vegetative Diversity/Integrity		0.10	L	
97					
98	Hydrology - Characteristic		0.53	Med	
99					
100	Flood Attenuation		0.68	High	
101					
102	Water Quality--Downstream		0.57	Med	
103					
104	Water Quality--Wetland		0.35	Med	
105					
106	Shoreline Protection		N/A	N/A	
107					
108	Characteristic Wildlife Habitat Structure	0.37	0.37	Med	
109					
110	Maintenance of Characteristic Fish Habitat	0.38	0.38	Med	
111					
112	Maintenance of Characteristic Amphibian Habitat		0.47	Med	
113					
114	Aesthetics/Recreation/Education/Cultural	0.25	0.25	Low	
115					
116	Commercial use		N/A	N/A	0
117					
118	Special Features listing:				
119					
120	Groundwater Interaction		recharge		
121	Groundwater Functional Index		no special indicators		
122					
123	Restoration Potential (draft formula)		N/A	N/A	
124	Stormwater Sensitivity (not active)				
125					
126					
127					
128					
129					
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131					
132					
133					
134					
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136					
137					
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139					
140					
141					

## Minnesota Wetland Conservation Act Notice of Application

<b>Local Government Unit:</b> City of Plymouth	<b>County:</b> Hennepin
<b>Applicant Name:</b> Commercial Investment Properties	
<b>Applicant Representative:</b> Kelsey Malecha	
<b>Project Name:</b> Dundee Nursery Redevelopment	
<b>LGU Project No. (if any):</b> 2020-22	
<b>Date Complete Application Received by LGU:</b> 11/16/2020	
<b>Date this Notice was Sent by LGU:</b> 12/2/2020	
<b>Date that Comments on this Application Must Be Received By LGU<sup>1</sup>:</b> 12/23/2020	

<sup>1</sup> minimum 15 business day comment period for Boundary & Type, Sequencing, Replacement Plan and Bank Plan Applications

**WCA Decision Type - check all that apply**

<input checked="" type="checkbox"/> Wetland Boundary/Type	<input type="checkbox"/> Sequencing	<input type="checkbox"/> Replacement Plan	<input type="checkbox"/> Bank Plan (not credit purchase)
<input type="checkbox"/> No-Loss (8420.0415)	<input type="checkbox"/> Exemption (8420.0420)		
Part: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> H	Subpart: <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9		

**Replacement Plan Impacts (replacement plan decisions only)**

<b>Total WCA Impact Area Proposed:</b>
----------------------------------------

**Application Materials**

<input checked="" type="checkbox"/> Attached <input type="checkbox"/> Other <sup>1</sup> (specify):
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<sup>1</sup> Link to ftp or other accessible file sharing sites is acceptable.

**Comments on this application should be sent to:**

<b>LGU Contact Person:</b> Ben Scharenbroich, Water Resources Supervisor
<b>E-Mail Address:</b> bscharenbroich@plymouthmn.gov
<b>Address and Phone Number:</b> 3400 Plymouth Blvd, Plymouth, MN 55447
<b>Decision-Maker for this Application:</b>
<input checked="" type="checkbox"/> Staff <input type="checkbox"/> Governing Board/Council <input type="checkbox"/> Other (specify):

**Notice Distribution (include name)**

*Required on all notices:*

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*Optional or As Applicable:*

<input checked="" type="checkbox"/> Corps of Engineers: <b>US Army Corps of Engineers, 180 Fifth Street East, Suite 700, St. Paul, MN 5511-1678</b>	
<input type="checkbox"/> BWSR Wetland Mitigation Coordinator (required for bank plan applications only):	
<input type="checkbox"/> Members of the Public (notice only):	<input type="checkbox"/> Other:

<b>Signature:</b> 	<b>Date:</b> 12/2/2020
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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.



# Wetland Delineation Report

## Dundee Nursery Redevelopment

City of Plymouth

Hennepin County Minnesota

### Prepared for:

Commercial Investment Properties  
3800 American Boulevard West, Suite 1120  
Bloomington, MN 55431

### Prepared by:

Kimley-Horn and Associates, Inc.  
767 Eustis Street, Suite 100  
Saint Paul, MN 55114

October 2020

**Kimley»»Horn**





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Figure 1: Project Location

Figure 2: USGS Topographic Map

Figure 3: Delineation Summary Map

# Appendices

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Appendix A: National Wetlands Inventory/DNR Public Waters Inventory/National Hydrography Dataset/LiDAR

Appendix B: Hydric Soils Information

Appendix C: Precipitation Data

Appendix D: Field Data Sheets

Appendix E: Photos

# 1 Introduction

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Wetland scientist Aaron Stolte (CMWD 1297) with Kimley-Horn and Associates, Inc. conducted a wetland investigation and field delineation for Commercial Investment Properties and the Dundee Nursery Redevelopment in the City of Plymouth, Hennepin County, Minnesota. The wetland investigation and delineation included the Plymouth Presbyterian Church property at 3755 Dunkirk Lane (PID # 1711822430037) adjacent to the east of the Dundee Nursery (the “study area”). The study area is shown in **Figure 1**. The study area consists of the Church, a parking lot, and an outdoor recreation area. Cover types within the study area includes manicured lawn, wetlands, and stormwater management areas.

A routine level 2 (onsite) wetland delineation, as outlined in the *1987 Corps of Engineers Wetlands Delineation Manual* (January 1987) along with the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0) (August 2010)* occurred on August 25, 2020. The purpose of this delineation was to identify the extent of wetlands within the study area. The information will be used to facilitate project design and determine if aquatic resource impacts are avoidable and/or if minimization of impacts can result from design modifications.

## 2 Project Description

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Commercial Investment Properties is proposing to develop/reconstruct the parcel.

## 3 Statement of Qualifications

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**Kimley-Horn** has extensive experience completing wetland investigations and delineations across the United States. Kimley-Horn’s personnel has been trained to use the *1987 Corps of Engineers Wetlands Delineation Manual (USACE, 1987)* along with the applicable regional supplements. Kimley-Horn has experience completing off-site hydrology analysis, historic aerial reviews, and difficult or atypical situation delineations.

**Aaron Stolte** earned Bachelor of Arts Degrees in Environmental Studies and Biology from Saint John’s University in Minnesota. He has over five years of experience in completing and managing ecological related projects for both public and private sector clients. Aaron specializes in local, regional, and federal environmental compliance and water related permits. He has a strong background in wetland and stormwater regulations and applying them to projects of various scopes and scales. He also has extensive experience in using GIS data to complete natural resource assessments as they relate to permitting requirements. Aaron is a certified delineator in the state of Minnesota and his primary focus is environmental work in the Midwest. He has experience working in Minnesota, Illinois, Wisconsin, Michigan, North Dakota, Nebraska, Arizona, and Florida.

## 4 Mapping and Background Information

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Prior to field reconnaissance, potential wetland areas within the project study areas were identified through a desktop review of United States Geological Survey (USGS) Topographic maps, National Wetlands Inventory (NWI), aerial photography (2020), National Hydrography Dataset (NHD), survey data, the soil survey for Hennepin County, Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps (FIRM), and antecedent precipitation for a location near the study area. The selected resources are described below:

## 4.1 Topographic Map

The Osseo 7.5 minute United States Geological Survey (USGS) topographical map and survey data for the project were reviewed for the study area. According to the USGS topographic map (see Figure 2), the study area is undeveloped land east of Dunkirk Lane. A wetland is depicted that overlaps the southern portion of the study area. The LiDAR map depicts the site as generally flat with the exception of the wetland areas to the south. The slight slopes away from the center of the study area in all directions. The site ranges from 1009 feet (above mean sea level) to 999 feet, see Appendix A.

## 4.2 National Wetlands Inventory

According to NWI mapping, available from the Minnesota DNR (updated in 2018), depicts potential wetland areas and waterbodies based on stereoscopic analysis of high altitude and aerial photographs and was reviewed for the study area. According to the NWI map, there are two wetlands in the study area, both south of the parking lot along Rockford Road and Dunkirk Lane.

## 4.3 National Hydrography Dataset

The National Hydrography Dataset (NHD), available from USGS, depicts drainage networks and related features, including rivers, streams, canals, lakes, and ponds. The NHD dataset is not field verified. According to NHD mapping, there are no identified drainage features within the study area.

## 4.4 Soil Survey

The Natural Resources Conservation Service's (NRCS) *Web Soil Survey* for Hennepin County was reviewed for the project site. According to the survey, there are four soil mapping units within the study area which are generally loams with some clay loam. The majority of the study area was mapped with nonhydric soils; however, 15% of the study area contains area mapped as hydric soil. Maps and information obtained from NRCS online web soil survey are included in Appendix B.

## 4.5 Federal Emergency Management Agency Floodplain

The Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) was reviewed for the project study area. According to the FEMA, FIRM, the study area is located in Zone X of panel 27053C0190F (effective November 4, 2016), which is outside the designated 100-year and 500-year floodplain zones.

## 4.6 Precipitation

Precipitation data for the project site were obtained from the NRCS online climate data retrieval system. NRCS WETS (Wetlands) tables were reviewed for a climate station within the vicinity of the study area to determine the current hydrologic conditions for the site and if those conditions are typical for this time of year. Precipitation levels for the three months (May, June, and July) leading up to the field review were compared to historical data. The data show that July had normal, June had dryer than normal, and May had wetter than normal precipitation levels. In summary, the field visit constituted normal precipitation conditions. This information is included in Appendix C.

# 5 Field Investigation

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A routine level 2 (onsite) wetland delineation, as outlined in the *1987 Corps of Engineers Wetlands Delineation Manual* (January 1987) along with the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0)* (August 2010) occurred on August 25, 2020.

During the onsite delineation, vegetation, soils, and current hydrologic characteristics were evaluated at each wetland area and area of investigation identified within the study area. Wetland boundaries were flagged with wetland flags where one or more of the three criteria were no longer present. The sample point locations, wetland boundaries, and aquatic features were surveyed with a Trimble GPS and are shown in Figure 3.

The field data sheets are included in Appendix D. Site photos can be found in Appendix E.

## 6 Summary of Results

**Table 1. Delineation Summary**

Resource ID	Wetland Plant Community	C-39 Type	Size (acres)	NWI?	Hydric Soils?	Photo ID	Associated Sample Points	NOTES
<b>Wetland 1</b>	Shallow Marsh	3	0.79	Yes, PEM1C	Yes	1-2	SP1 (Wet) SP2 (Up)	Wetland located in depression located between church parking lot and Rockford Road. The wetland collects runoff from the surrounding landscape, Wetland 2 via a culvert, and Wetland 3 during high water events and drains south via culvert to an offsite wetland south of Rockford Road.
<b>Wetland 2</b>	Shallow Marsh	3	0.06	No	No	3	SP1 (Wet) SP2 (Up)	Wetland located in a small depression in the southwestern portion of the study area. The wetland collects runoff from the church parking lot and surrounding landscape and drains to Wetland 1 via a culvert. The wetland appears to have been constructed for stormwater treatment of the adjacent parking lot runoff prior to discharge to Wetland 1.
<b>Wetland 3</b>	Shallow Marsh	3	0.11	Yes, PABHx	No	4	SP3 (Wet) SP4 (Up)	Wetland located in a small depression at the corner of Rockford Road and 36 <sup>th</sup> Avenue. The wetland collects runoff from the church parking lot and is not connected to other features via stormwater pipe; however, there appears to be a small swale which connects Wetland 1 and 2 in the southeast corner of the study area during high water events. The wetland appears to have been constructed for stormwater treatment of parking lot runoff.

## 7 Regulatory Requirements

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A summary of the permit requirements that may pertain to the project is provided below. Any activity planned within areas identified as wetland must be coordinated with and approved by the appropriate agencies prior to commencement of such activities.

Agencies in Minnesota relevant to this study area that regulate activities that affect lakes, rivers, streams, and wetlands include:

- US Army Corps of Engineers (USACE)
  - Section 404 of the Clean Water Act
- Local Governmental Units (LGUs)
  - Wetland Conservation Act (WCA)

The LGU for this project is the City of Plymouth. The WCA applies to nearly all wetlands. The regulatory authority of the USACE covers Waters of the United States, including those that are subject to WCA. Generally, the USACE reviewed delineations to determine whether wetlands are jurisdictional (i.e., Waters of the United States). In Minnesota, a joint application process has been developed for projects with anticipated wetland impacts. Applications are coordinated between the USACE and LGU.

## 8 Report Preparation

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The procedures followed for this wetland delineation are in accordance with the *Corps of Engineers Wetlands Delineation Manual* and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0) (August 2010)*

This report describes site conditions for a specific date in time and is generally valid for a period of five years from the date of the final field investigation and delineation, which was August 25, 2020.

## 9 Conclusion

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The field delineation identified three wetlands within the study area. Each of the delineated resources is described in Table 1.

## 10 Disclaimer

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Kimley-Horn has prepared this document based on limited field observations and our interpretation, as scientists, of applicable regulations and agency guidance. While Kimley-Horn believes our interpretation to be accurate, final authority to interpret the regulations lies with the appropriate regulatory agencies. Regulatory agencies occasionally issue guidance that changes the interpretation of published regulations. Guidance issued after the date of this report has the potential to invalidate our conclusions and/or recommendations and may cause a need to reevaluate our conclusions and/or recommendations.

Because Kimley-Horn has no regulatory authority, the Client understands that proceeding based solely upon this document does not protect the Client from potential sanction or fines from the applicable regulatory agencies. The Client acknowledges that they have the opportunity to submit documentation to the regulatory agencies for concurrence prior to proceeding with any work. If the Client elects not to do so, then the Client proceeds at their sole risk.

# References

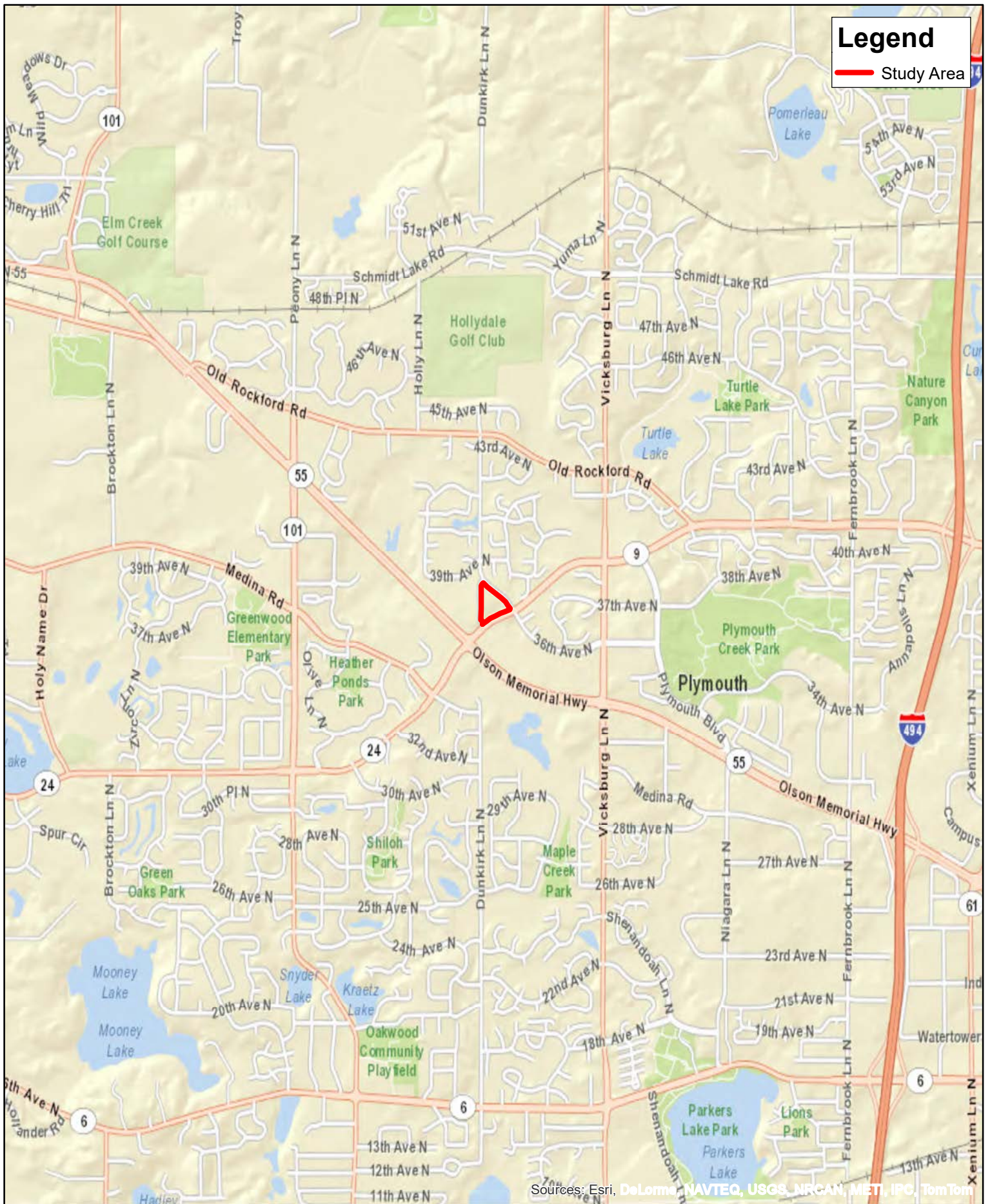
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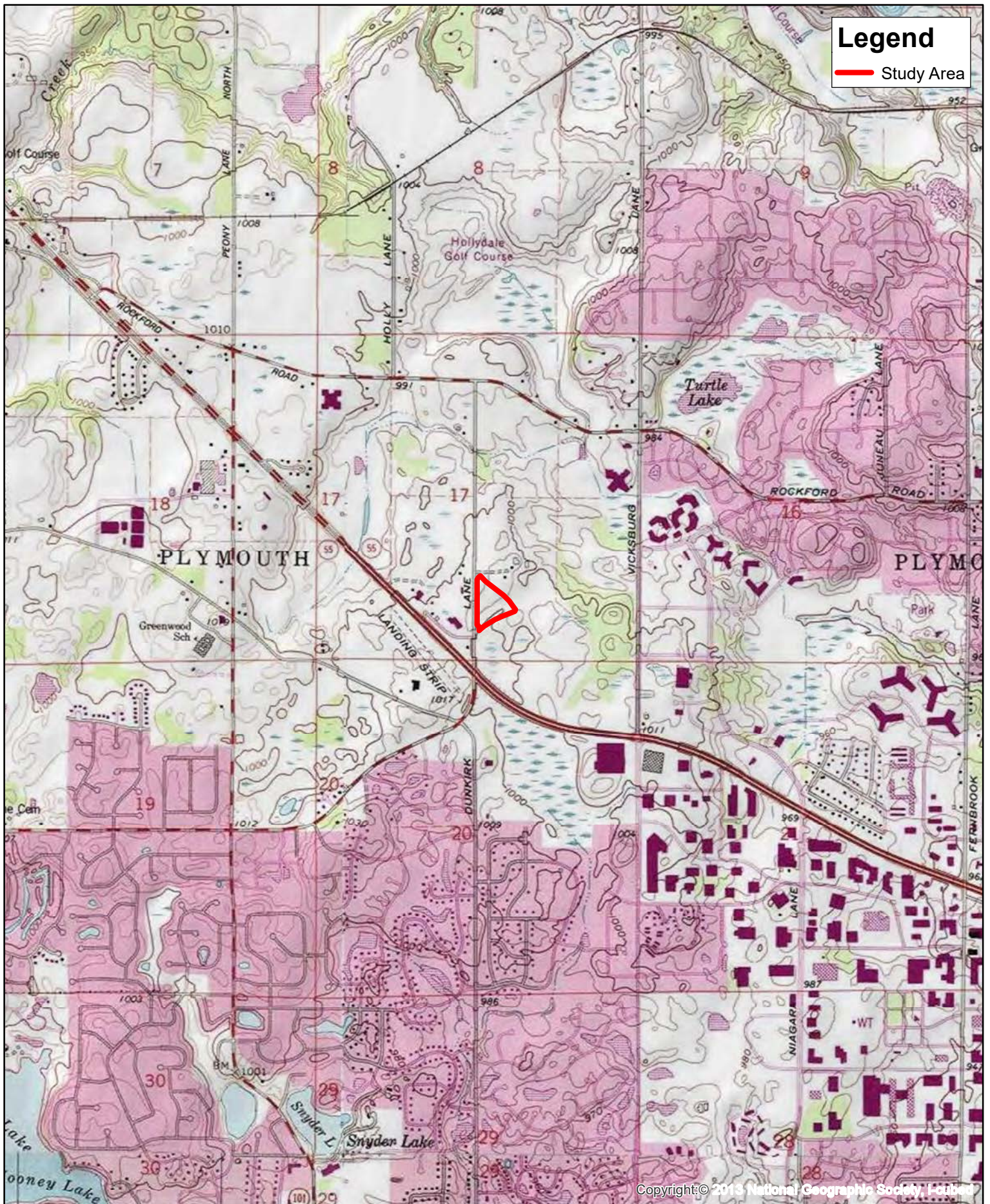
- Climatology Working Group, University of Minnesota. *Historical Climate Data Retrieval: Daily or Monthly Temperature, Precipitation, Snow Data by Target Location*. Available at <http://climate.umn.edu/doc/historical.htm>, accessed October 2020.
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- Minnesota Climatology Working Group. *Historical Climate Data Retrieval: Wetland Delineation Monthly Precipitation Data Retrieval from Gridded Database*. Available at [http://climate.umn.edu/gridded\\_data/precip/wetland/wetland.asp](http://climate.umn.edu/gridded_data/precip/wetland/wetland.asp), accessed October 2020.
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- Minnesota Department of Natural Resources. *Public Waters Basin and Watercourse Delineations (February 2017)*. Shapefiles available at <https://gisdata.mn.gov/dataset/water-mn-public-waters>.
- Minnesota Department of Natural Resources. *National Wetland Inventory Update for Minnesota (May 2019)*. Shapefiles available at <https://gisdata.mn.gov/dataset/water-nat-wetlands-inv-2009-2014>.
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- U.S. Army Corps of Engineers. *Corps of Engineers Wetlands Delineation Manual*. Technical Report Y-87-1. January 1987. Available at <http://www.mvp.usace.army.mil/Portals/57/docs/regulatory/RegulatoryDocs/1987%20Manual.pdf>.
- U.S. Army Corps of Engineers. *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0) (August 2010)*. Available at [http://www.usace.army.mil/Missions/Civil-Works/Regulatory-Program-and-Permits/reg\\_supp/](http://www.usace.army.mil/Missions/Civil-Works/Regulatory-Program-and-Permits/reg_supp/).
- U.S. Geological Survey. *National Hydrography Dataset*. Shapefiles available at <https://nhd.usgs.gov/>, accessed October 2020.
- U.S. Geological Survey. *Topographical Map*. Accessed via ESRI at <http://www.arcgis.com/home/item.html?id=30e5fe3149c34df1ba922e6f5bbf808f>, accessed August 2020.

## Figures

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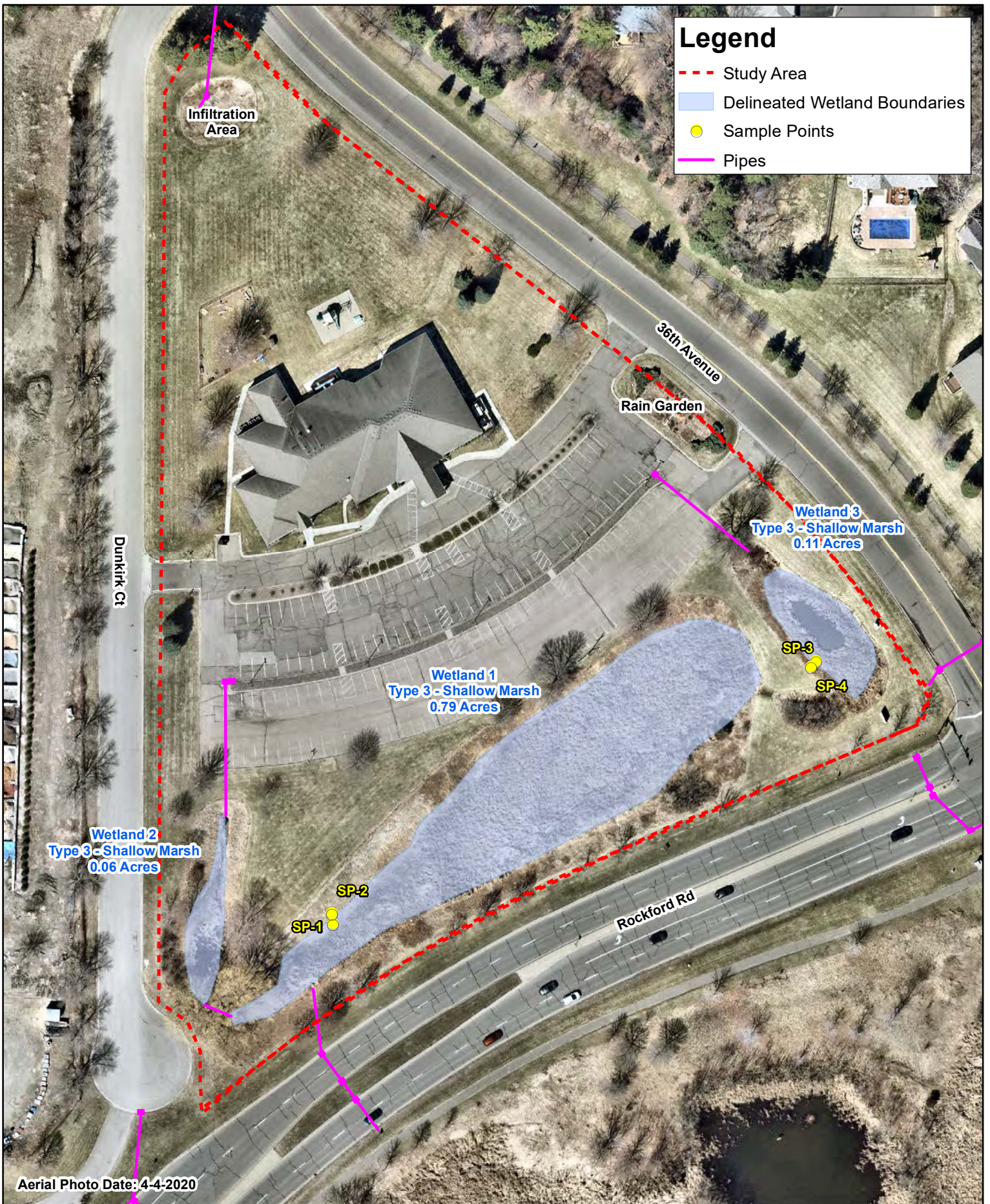






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## Appendix A: National Wetlands Inventory/DNR Public Waters Inventory/National Hydrography Dataset/LiDAR

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**Legend**

- Study Area
- Contours



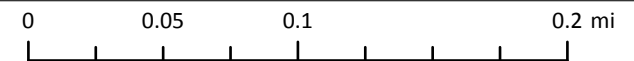


**Cowardin Classification**

- Aquatic Bed/  
Nonpersistent Emergent
- Emergent
- Forested
- Moss/Lichen
- Rock Bottom

- Rocky Shore
- Streambed (Intermittent)
- Scrub-Shrub
- Unconsolidated Bottom (Open Water)
- Unconsolidated Shore  
(Banks & Sandbars)

- Public Waters Basins
- Public Water
- Watercourse
- Public Ditch/Altered  
Natural Watercourse



Date Printed: 10/02/2020

This map is for general reference only. Neither the state of Minnesota nor the Minnesota Department of Natural Resources make any representations or warranties with respect to the use of or reliance on the data. There are no guarantees as to the accuracy, currency, completeness, suitability or reliability of this data for any purpose.

## Appendix B: Hydric Soils Information

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Hydric Rating by Map Unit—Hennepin County, Minnesota



Map Scale: 1:1,820 if printed on A portrait (8.5" x 11") sheet.




Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 15N WGS84











## MAP LEGEND

### Area of Interest (AOI)







 Area of Interest (AOI)

### Soils







#### Soil Rating Polygons

-  Hydric (100%)
-  Hydric (66 to 99%)
-  Hydric (33 to 65%)
-  Hydric (1 to 32%)
-  Not Hydric (0%)
-  Not rated or not available


#### Soil Rating Lines

-  Hydric (100%)
-  Hydric (66 to 99%)
-  Hydric (33 to 65%)
-  Hydric (1 to 32%)
-  Not Hydric (0%)
-  Not rated or not available






#### Soil Rating Points

-  Hydric (100%)
-  Hydric (66 to 99%)
-  Hydric (33 to 65%)
-  Hydric (1 to 32%)
-  Not Hydric (0%)
-  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 1:12,000.

**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:  
 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: Hennepin County, Minnesota  
 Survey Area Data: Version 16, Jun 5, 2020

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

Date(s) aerial images were photographed: May 30, 2020—Jul 3, 2020

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.

## Hydric Rating by Map Unit

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
L22C2	Lester loam, 6 to 10 percent slopes, moderately eroded	2	2.7	28.0%
L24A	Glencoe clay loam, 0 to 1 percent slopes	100	1.4	15.1%
L37B	Angus loam, 2 to 6 percent slopes	5	4.9	52.0%
L44A	Nessel loam, 1 to 3 percent slopes	10	0.5	4.9%
<b>Totals for Area of Interest</b>			<b>9.5</b>	<b>100.0%</b>

## Description

This rating indicates the percentage of map units that meets the criteria for hydric soils. Map units are composed of one or more map unit components or soil types, each of which is rated as hydric soil or not hydric. Map units that are made up dominantly of hydric soils may have small areas of minor nonhydric components in the higher positions on the landform, and map units that are made up dominantly of nonhydric soils may have small areas of minor hydric components in the lower positions on the landform. Each map unit is rated based on its respective components and the percentage of each component within the map unit.

The thematic map is color coded based on the composition of hydric components. The five color classes are separated as 100 percent hydric components, 66 to 99 percent hydric components, 33 to 65 percent hydric components, 1 to 32 percent hydric components, and less than one percent hydric components.

In Web Soil Survey, the Summary by Map Unit table that is displayed below the map pane contains a column named 'Rating'. In this column the percentage of each map unit that is classified as hydric is displayed.

Hydric soils are defined by the National Technical Committee for Hydric Soils (NTCHS) as soils that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (Federal Register, 1994). Under natural conditions, these soils are either saturated or inundated long enough during the growing season to support the growth and reproduction of hydrophytic vegetation.

The NTCHS definition identifies general soil properties that are associated with wetness. In order to determine whether a specific soil is a hydric soil or nonhydric soil, however, more specific information, such as information about the depth and duration of the water table, is needed. Thus, criteria that identify those estimated soil properties unique to hydric soils have been established (Federal Register, 2002). These criteria are used to identify map unit components that normally are associated with wetlands. The criteria used are selected estimated soil properties that are described in "Soil Taxonomy" (Soil Survey Staff, 1999) and "Keys to Soil Taxonomy" (Soil Survey Staff, 2006) and in the "Soil Survey Manual" (Soil Survey Division Staff, 1993).

If soils are wet enough for a long enough period of time to be considered hydric, they should exhibit certain properties that can be easily observed in the field. These visible properties are indicators of hydric soils. The indicators used to make onsite determinations of hydric soils are specified in "Field Indicators of Hydric Soils in the United States" (Hurt and Vasilas, 2006).

### References:

Federal Register. July 13, 1994. Changes in hydric soils of the United States.

Federal Register. September 18, 2002. Hydric soils of the United States.

Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.

Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18.

Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service. U.S. Department of Agriculture Handbook 436.

Soil Survey Staff. 2006. Keys to soil taxonomy. 10th edition. U.S. Department of Agriculture, Natural Resources Conservation Service.

## **Rating Options**

*Aggregation Method: Percent Present*

*Component Percent Cutoff: None Specified*


*Tie-break Rule: Lower*

## Appendix C: Precipitation Data

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# Minnesota State Climatology Office

State Climatology Office - DNR Division of Ecological and Water Resources

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## Precipitation Worksheet Using Gridded Database

### Precipitation data for target wetland location:

county: **Hennepin** township number: **118N**  
 township name: **Plymouth** range number: **22W**  
 nearest community: **Hamel** section number: **6**

### Aerial photograph or site visit date:

**Tuesday, August 25, 2020**

### Score using 1981-2010 normal period

values are in inches A 'R' following a monthly total indicates a provisional value derived from radar-based estimates.	first prior month: <b>July 2020</b>	second prior month: <b>June 2020</b>	third prior month: <b>May 2020</b>
<b>estimated precipitation total for this location:</b>	<b>2.63R</b>	<b>3.73R</b>	<b>4.55R</b>
<b>there is a 30% chance this location will have less than:</b>	2.51	3.74	2.50
<b>there is a 30% chance this location will have more than:</b>	5.11	5.07	4.18
<b>type of month: dry normal wet</b>	<b>normal</b>	<b>dry</b>	<b>wet</b>
<b>monthly score</b>	<b>3 * 2 = 6</b>	<b>2 * 1 = 2</b>	<b>1 * 3 = 3</b>
<b>multi-month score:</b> 6 to 9 (dry) 10 to 14 (normal) 15 to 18 (wet)	<b>11 (Normal)</b>		

### Other Resources:

- [retrieve daily precipitation data](#)
- [view radar-based precipitation estimates](#)
- [view weekly precipitation maps](#)
- [Evaluating Antecedent Precipitation Conditions](#) (BWSR)

## Appendix D: Field Data Sheets

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**WETLAND DETERMINATION DATA FORM - Midwest Region**

Project/Site Plymouth Presbyterian Church City/County: Plymouth/Hennepin Sampling Date: 8/25/2020  
 Applicant/Owner: Commercial Investment Properties State: MN Sampling Point: SP-1  
 Investigator(s): A Stolte (CMWP #1297) Section, Township, Range: Sec 17, Twp 118N, Ran 22W  
 Landform (hillslope, terrace, etc.): footslope Local relief (concave, convex, none): concave  
 Slope (%): 5 Lat: 45.023629 Long: -93.491337 Datum: WGS 1984  
 Soil Map Unit Name L22C2 - Lester loam, 6 to 10 percent slopes, moderately eroded NWI Classification: PEM1C

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?	<u>Y</u>	<b>Is the sampled area within a wetland?</b> <u>Y</u> If yes, optional wetland site ID: <u>Wetland 1</u>
Hydric soil present?	<u>Y</u>	
Indicators of wetland hydrology present?	<u>Y</u>	

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

At footslope of depression between parking lot and Rockford Road

**VEGETATION -- Use scientific names of plants.**

Tree Stratum	(Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Dominance Test Worksheet</b>
1					
2					Total Number of Dominant Species Across all Strata: <u>2</u> (B)
3					Percent of Dominant Species that are OBL, FACW, or FAC: <u>100.00%</u> (A/B)
4					
5					
		<u>0</u>	= Total Cover		
Sapling/Shrub stratum	(Plot size: <u>15'</u> )				<b>Prevalence Index Worksheet</b>
1					
2					OBL species <u>35</u> x 1 = <u>35</u>
3					FACW species <u>30</u> x 2 = <u>60</u>
4					FAC species <u>15</u> x 3 = <u>45</u>
5					FACU species <u>10</u> x 4 = <u>40</u>
					UPL species <u>0</u> x 5 = <u>0</u>
					Column totals <u>90</u> (A) <u>180</u> (B)
					Prevalence Index = B/A = <u>2.00</u>
Herb stratum	(Plot size: <u>5'</u> )				<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> Rapid test for hydrophytic vegetation <input checked="" type="checkbox"/> Dominance test is >50% <input checked="" type="checkbox"/> Prevalence index is ≤3.0* Morphological adaptations* (provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic hydrophytic vegetation* (explain) *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
1	<u><i>Impatiens capensis</i></u>	<u>30</u>	<u>Y</u>	<u>FACW</u>	
2	<u><i>Carex lacustris</i></u>	<u>25</u>	<u>Y</u>	<u>OBL</u>	
3	<u><i>Poa pratensis</i></u>	<u>15</u>	<u>N</u>	<u>FAC</u>	
4	<u><i>Typha angustifolia</i></u>	<u>10</u>	<u>N</u>	<u>OBL</u>	
5	<u><i>Solidago canadensis</i></u>	<u>10</u>	<u>N</u>	<u>FACU</u>	
6					
7					
8					
9					
10					
		<u>90</u>	= Total Cover		
Woody vine stratum	(Plot size: <u>30'</u> )				<b>Hydrophytic vegetation present?</b> <u>Y</u>
1					
2					
		<u>0</u>	= Total Cover		

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



Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-8	10YR 5/2	90	10YR 5/8	10	C	M	si cl lo	

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

<b>Hydric Soil Indicators:</b> <input type="checkbox"/> Histisol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	<input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8)	<b>Indicators for Problematic Hydric Soils:</b> <input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (explain in remarks)
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

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

<b>Restrictive Layer (if observed):</b> Type: _____ Depth (inches): _____	Hydric soil present? <u>Y</u>
---------------------------------------------------------------------------------	-------------------------------

Remarks:

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Gauge or Well Data (D9) <input type="checkbox"/> Other (Explain in Remarks)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
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<b>Field Observations:</b> Surface water present? Yes _____ No <u>X</u> Depth (inches): _____ Water table present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation present? Yes <u>X</u> No _____ Depth (inches): <u>8</u> (includes capillary fringe)	Indicators of wetland hydrology present? <u>Y</u>
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Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:



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

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-8	7.5YR 3/2	100					si cl lo	
8-16	10YR 4/3	100					si cl lo	

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

<b>Hydric Soil Indicators:</b> <input type="checkbox"/> Histisol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	<input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8)	<b>Indicators for Problematic Hydric Soils:</b> <input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (explain in remarks)
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\*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

<b>Restrictive Layer (if observed):</b> Type: _____ Depth (inches): _____	Hydric soil present? <u> N </u>
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Remarks:

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Gauge or Well Data (D9) <input type="checkbox"/> Other (Explain in Remarks)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> FAC-Neutral Test (D5)
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<b>Field Observations:</b> Surface water present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water table present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Indicators of wetland hydrology present? <u> N </u>
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Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

**WETLAND DETERMINATION DATA FORM - Midwest Region**

Project/Site Plymouth Presbyterian Church City/County: Plymouth/Hennepin Sampling Date: 8/25/2020  
 Applicant/Owner: Commercial Investment Properties State: MN Sampling Point: SP-3  
 Investigator(s): A Stolte (CMWP #1297) Section, Township, Range: Sec 17, Twp 118N, Ran 22W  
 Landform (hillslope, terrace, etc.): footslope Local relief (concave, convex, none): concave  
 Slope (%): 5 Lat: 45.024217 Long: -93.489836 Datum: WGS 1984  
 Soil Map Unit Name L22C2 - Lester loam, 6 to 10 percent slopes, moderately eroded NWI Classification: PABHx

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?	<u>Y</u>	<b>Is the sampled area within a wetland?</b> <u>Y</u> If yes, optional wetland site ID: <u>Wetland 2</u>
Hydric soil present?	<u>Y</u>	
Indicators of wetland hydrology present?	<u>Y</u>	

Remarks: (Explain alternative procedures here or in a separate report.)  
 At footslope of depression at corner of Rockford Road and Dunkirk Lane

**VEGETATION -- Use scientific names of plants.**

Tree Stratum	(Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Dominance Test Worksheet</b>
1					
2					Total Number of Dominant Species Across all Strata: <u>2</u> (B)
3					Percent of Dominant Species that are OBL, FACW, or FAC: <u>100.00%</u> (A/B)
4					
5					
		<u>0</u>	= Total Cover		
Sapling/Shrub stratum	(Plot size: <u>15'</u> )				<b>Prevalence Index Worksheet</b>
1					
2					OBL species <u>40</u> x 1 = <u>40</u>
3					FACW species <u>45</u> x 2 = <u>90</u>
4					FAC species <u>0</u> x 3 = <u>0</u>
5					FACU species <u>15</u> x 4 = <u>60</u>
					UPL species <u>0</u> x 5 = <u>0</u>
					Column totals <u>100</u> (A) <u>190</u> (B)
					Prevalence Index = B/A = <u>1.90</u>
Herb stratum	(Plot size: <u>5'</u> )				<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> Rapid test for hydrophytic vegetation <input checked="" type="checkbox"/> Dominance test is >50% <input checked="" type="checkbox"/> Prevalence index is ≤3.0* Morphological 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
1	<u><i>Typha angustifolia</i></u>	<u>40</u>	<u>Y</u>	<u>OBL</u>	
2	<u><i>Impatiens capensis</i></u>	<u>35</u>	<u>Y</u>	<u>FACW</u>	
3	<u><i>Lotus corniculatus</i></u>	<u>15</u>	<u>N</u>	<u>FACU</u>	
4	<u><i>Verbena hastata</i></u>	<u>10</u>	<u>N</u>	<u>FACW</u>	
5					
6					
7					
8					
9					
10					
		<u>100</u>	= Total Cover		
Woody vine stratum	(Plot size: <u>30'</u> )				<b>Hydrophytic vegetation present?</b> <u>Y</u>
1					
2					
		<u>0</u>	= Total Cover		

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

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-6	10YR 2/2	100					si lo	
6-12	10YR 5/2	90	10YR 5/8	10	C	M	si cl lo	

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

<b>Hydric Soil Indicators:</b> <input type="checkbox"/> Histisol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> 2 cm Muck (A10) <input checked="" type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	<input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8)	<b>Indicators for Problematic Hydric Soils:</b> <input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (explain in remarks)
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\*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

<b>Restrictive Layer (if observed):</b> Type: _____ Depth (inches): _____	Hydric soil present? <u>Y</u>
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Remarks:

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Gauge or Well Data (D9) <input type="checkbox"/> Other (Explain in Remarks)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
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<b>Field Observations:</b> Surface water present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water table present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Indicators of wetland hydrology present? <u>Y</u>
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Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:



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

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		

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

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

<b>Restrictive Layer (if observed):</b> Type: _____ Depth (inches): _____	Hydric soil present? <u>  N  </u>
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Remarks:  
 No soil pit dug due to lack of hydrophytic vegetation

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Gauge or Well Data (D9) <input type="checkbox"/> Other (Explain in Remarks)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> FAC-Neutral Test (D5)
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<b>Field Observations:</b> Surface water present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water table present?        Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation present?        Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Indicators of wetland hydrology present? <u>  N  </u>
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Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

## Appendix E: Photos

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**Photo 1: Wetland 1 looking east from SP-1**



**Photo 2: Wetland 1 looking southwest from SP-1**



**Photo 3: Wetland 2 looking south from parking lot outlet**



**Photo 4: Wetland 3 looking east from SP-3**



**Photo 5: Short swale connecting Wetland 3 and Wetland 2**



**Photo 6: Rain garden on east side of parking lot looking north**



**Photo 7: Infiltration area north of church looking east**

## 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:** Kelsey Malecha, Commercial Investment Properties

**Mailing Address:** 3800 American Boulevard West, Suite 1120  
Bloomington, MN 55431

**Phone:** 952-334-0411

**E-mail Address:** kelseym@ciproperties.com

**Agent Name:** Aaron Stolte, Kimley-Horn

**Mailing Address:** 767 Eustis Street, Suite 100  
Saint Paul, MN 55114

**Phone:** 612-326-9510

**E-mail Address:** Aaron.stolte@kimley-horn.com

## PART TWO: Site Location Information

**County:** Hennepin

**City/Township:** Plymouth

**Parcel ID and/or Address:** 3755 Dunkirk Lane/PID# 1711822430037)

**Legal Description (Section, Township, Range):** Sec 17, Twn 118N, Ran 22W

**Lat/Long (decimal degrees):** 45.024446°/-93.491105°

**Attach a map showing the location of the site in relation to local streets, roads, highways. See Figure 1 of Report**

**Approximate size of site (acres) or if a linear project, length (feet):** 6.7 acres

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/RegulatoryDocs/engform\\_4345\\_2012oct.pdf](http://www.mvp.usace.army.mil/Portals/57/docs/regulatory/RegulatoryDocs/engform_4345_2012oct.pdf)

## PART FIVE: Applicant Signature

Check here if you are requesting a pre-application 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: \_\_\_\_\_



Date: \_\_\_\_\_

11-6-20

I hereby authorize Kimley-Horn 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.

## 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>

## Minnesota Wetland Conservation Act Notice of Decision

<b>Local Government Unit:</b> City of Plymouth	<b>County:</b> Hennepin
<b>Applicant Name:</b> Nate Gonlin	
<b>Applicant Representative:</b> Kyle Uhler, Kjolhaug Environmental Services Company	
<b>Project Name:</b> 500 Pineview Lane North	
<b>LGU Project No. (if any):</b> 2020-27	
<b>Date Complete Application Received by LGU:</b> 12/30/2020	
<b>Date of LGU Decision:</b> 2/3/2021	
<b>Date this Notice was Sent:</b> 2/3/2021	

**WCA Decision Type - check all that apply**

<input checked="" type="checkbox"/> Wetland Boundary/Type	<input type="checkbox"/> Sequencing	<input type="checkbox"/> Replacement Plan	<input type="checkbox"/> Bank Plan (not credit purchase)
<input type="checkbox"/> No-Loss (8420.0415)	<input type="checkbox"/> Exemption (8420.0420)		
Part: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> H		Subpart: <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9	

**Replacement Plan Impacts (replacement plan decisions only)**

Total WCA Wetland Impact Area:
Wetland Replacement Type: <input type="checkbox"/> Project Specific Credits: <input type="checkbox"/> Bank Credits:
Bank Account Number(s):

**Technical Evaluation Panel Findings and Recommendations (attach if any)**

<input checked="" type="checkbox"/> Approve <input type="checkbox"/> Approve w/Conditions <input type="checkbox"/> Deny <input type="checkbox"/> No TEP Recommendation
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**LGU Decision**

<input type="checkbox"/> Approved with Conditions (specify below) <sup>1</sup> List Conditions:	<input checked="" type="checkbox"/> Approved <sup>1</sup>	<input type="checkbox"/> Denied
<b>Decision-Maker for this Application:</b> <input checked="" type="checkbox"/> Staff <input type="checkbox"/> Governing Board/Council <input type="checkbox"/> Other:		
<b>Decision is valid for:</b> <input checked="" type="checkbox"/> 5 years (default) <input type="checkbox"/> Other (specify):		

<sup>1</sup> *Wetland Replacement Plan approval is not valid until BWSR confirms the withdrawal of any required wetland bank credits. For project-specific replacement a financial assurance per MN Rule 8420.0522, Subp. 9 and evidence that all required forms have been recorded on the title of the property on which the replacement wetland is located must be provided to the LGU for the approval to be valid.*

**LGU Findings – Attach document(s) and/or insert narrative providing the basis for the LGU decision<sup>1</sup>.**

<input type="checkbox"/> Attachment(s) (specify):
<input checked="" type="checkbox"/> Summary: <b>Staff agrees with the delineation as presented</b>

<sup>1</sup> *Findings must consider any TEP recommendations.*

**Attached Project Documents**

<input checked="" type="checkbox"/> Site Location Map <input checked="" type="checkbox"/> Project Plan(s)/Descriptions/Reports (specify): <b>Wetland Delineation Report</b>
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------

**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](mailto:travis.germundson@state.mn.us)

Does the LGU have a local appeal process applicable to this decision?

Yes<sup>1</sup>       No

<sup>1</sup>If yes, all appeals must first be considered via the local appeals process.

**Local Appeals Submittal Requirements** (LGU must describe how to appeal, submittal requirements, fees, etc. as applicable)

**Notice Distribution (include name)**

*Required on all notices:*

<input checked="" type="checkbox"/> SWCD TEP Member:	<b>Ms. Stacey Lijewski, HCA, 701 Fourth Avenue South, Suite 700, Minneapolis, MN 55415-1600</b>
<input checked="" type="checkbox"/> BWSR TEP Member:	<b>Ben Carlson, BWSR, 520 Lafayette Road North, St. Paul, MN 55401</b>
<input checked="" type="checkbox"/> LGU TEP Member (if different than LGU contact):	<b>Ben Scharenbroich, 3400 Plymouth Blvd, Plymouth MN 55447</b>
<input checked="" type="checkbox"/> DNR Representative:	<b>Melissa Collins, MnDNR, 1200 Warner Road, St. Paul, MN 55106 Lucas Youngsma, MnDNR, 1200 Warner Road, St. Paul, MN 55106</b>
<input checked="" type="checkbox"/> Watershed District or Watershed Mgmt. Org.:	<b>BCWMC 16145 Hillcrest Lane Eden Prairie MN 55346</b>
<input checked="" type="checkbox"/> Applicant:	<b>Nathan Gonlin, 500 Pineview Lane North, Plymouth MN 55441</b>
<input checked="" type="checkbox"/> Agent/Consultant:	<b>Kyle Uhler, Kjolhaug Environmental Services Company, 2500 Shadywood Road, Suite 130m Orono, MN 55331</b>

*Optional or As Applicable:*

<input checked="" type="checkbox"/> Corps of Engineers:	<b>US Army Corps of Engineers, C/O Maria Delaundreau, 180 Fifth Street East, Suite 700, St. Paul MN 55101-1678</b>	
<input type="checkbox"/> BWSR Wetland Mitigation Coordinator (required for bank plan applications only):		
<input type="checkbox"/> Members of the Public (notice only):	<input type="checkbox"/> Other:	

<b>Signature:</b>  	<b>Date:</b>  2/3/2021
--------------------------------------------------------------------------------------------------------------	------------------------------

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.





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

December 18, 2020

Regulatory File No. MVP-2011-00433-MAD

Nathan and Courtney Golin  
2400 Zane Ave N  
Golden Valley, Minnesota 55422

Dear Mr. and Ms. Golin:

This letter regards an approved jurisdictional determination for 500 Pineview Land North. The project site is in Section 35, Township 118 North, Range 22 West, Hennepin County, Minnesota. The review area for our jurisdictional determination is identified as Wetland 1 on the enclosed figures labeled MVP-2011-00433-MAD Page 1 of 2 through 2 of 2.

The review area consists of Wetland 1, which is not a water of the United States subject to Corps of Engineers (Corps) jurisdiction. Therefore, you are not required to obtain Department of the Army authorization to discharge dredged or fill material within this area. The rationale for this determination is provided in the enclosed Approved Jurisdictional Determination form. This determination is only valid for the review area described.

If you object to this approved jurisdictional determination, you may request an administrative appeal under Corps regulations at 33 CFR 331. Enclosed you will find a Notification of Appeal Process (NAP) fact sheet and Request for Appeal (RFA) form. If you request to appeal this determination, you must submit a completed RFA form to the Mississippi Valley Division Office at the address shown on the form.

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR 331.5, and that it has been received by the Division Office within 60 days of the date of the enclosed NAP. It is not necessary to submit an RFA form to the division office if you do not object to the determination in this letter.

This approved jurisdictional determination may be relied upon for five years from the date of this letter. However, the Corps reserves the right to review and revise the determination in response to changing site conditions, information that was not considered during our initial review, or off-site activities that could indirectly alter the extent of wetlands and other resources on-site. This determination may be renewed at the end of the five year period provided you submit a written request and our staff are able to verify that the limits established during the original determination are still accurate.

Regulatory Branch (File No. MVP-2011-00433-MAD)

If you have any questions, please contact me in our St. Paul office at (651) 290-5266 or [Maria.A.DeLaundreau@usace.army.mil](mailto:Maria.A.DeLaundreau@usace.army.mil). In any correspondence or inquiries, please refer to the Regulatory file number shown above.

Sincerely,

A handwritten signature in cursive script that reads "Maria DeLaundreau".

Maria DeLaundreau  
Project Manager

Enclosures

cc:

Kyle Uhler, Agent  
Ben Scharenbroich, LGU  
Amy Waters, BWSR  
Ben Carlson, BWSR  
Anna Hotz, MPCA



**Figure 1 - Site Location Map**

	<p>N</p> 	<p>0      335</p>  <p>Feet</p>	 Site Boundary	<p><b>500 Pineview Lane N (KES 2020-193)</b></p>
				<p><b>Plymouth, Minnesota</b></p>
<p>Source: ESRI Streets Basemap</p>				
<p>Note: Boundaries indicated on this figure are approximate and do not constitute an official survey product.</p>				

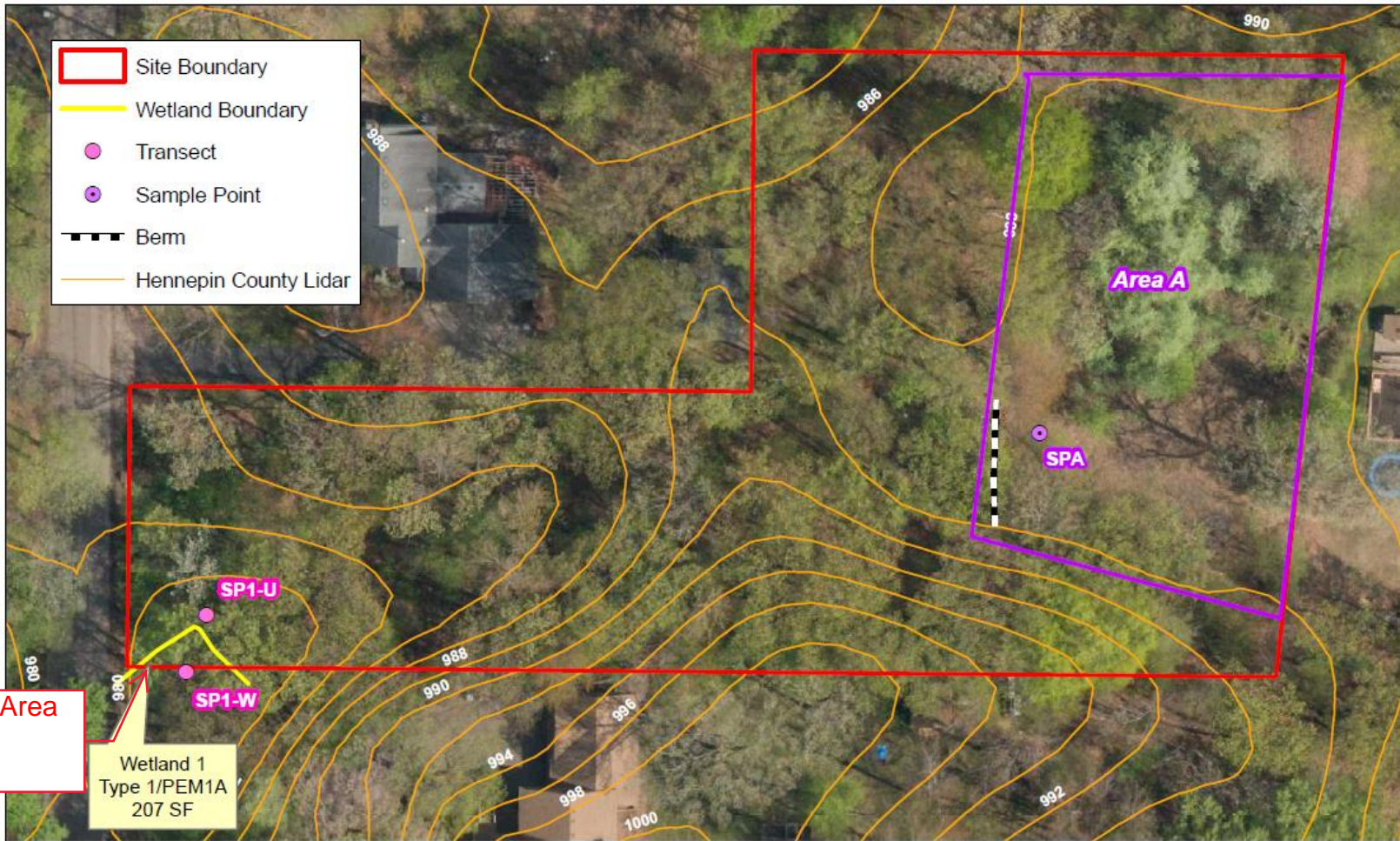


Figure 2 - Existing Conditions

   **500 Pineview Lane N (KES 2020-193)**  
**Plymouth, Minnesota**

**KJOLHAUG** ENVIRONMENTAL SERVICES COMPANY  
Source: MNGEO Spatial Commons

Note: Boundaries indicated on this figure are approximate and do not constitute an official survey product.



**U.S. ARMY CORPS OF ENGINEERS  
REGULATORY PROGRAM  
APPROVED JURISDICTIONAL DETERMINATION FORM (INTERIM)  
NAVIGABLE WATERS PROTECTION RULE**

**I. ADMINISTRATIVE INFORMATION**

Completion Date of Approved Jurisdictional Determination (AJD): 12/18/2020

ORM Number: MVP-2011-00433-MAD

Associated JDs: N/A

Review Area Location<sup>1</sup>: State/Territory: Minnesota City: Plymouth County/Parish/Borough: Hennepin

Center Coordinates of Review Area: Latitude 44.984928 Longitude -93.439948

**II. FINDINGS**

**A. Summary:** Check all that apply. At least one box from the following list MUST be selected. Complete the corresponding sections/tables and summarize data sources.

- The review area is comprised entirely of dry land (i.e., there are no waters or water features, including wetlands, of any kind in the entire review area). Rationale: N/A or describe rationale.
- There are “navigable waters of the United States” within Rivers and Harbors Act jurisdiction within the review area (complete table in Section II.B).
- There are “waters of the United States” within Clean Water Act jurisdiction within the review area (complete appropriate tables in Section II.C).
- There are waters or water features excluded from Clean Water Act jurisdiction within the review area (complete table in Section II.D).

**B. Rivers and Harbors Act of 1899 Section 10 (§ 10)<sup>2</sup>**

§ 10 Name	§ 10 Size	§ 10 Criteria	Rationale for § 10 Determination
N/A.	N/A.	N/A.	N/A.

**C. Clean Water Act Section 404**

Territorial Seas and Traditional Navigable Waters ((a)(1) waters): <sup>3</sup>			
(a)(1) Name	(a)(1) Size	(a)(1) Criteria	Rationale for (a)(1) Determination
N/A.	N/A.	N/A.	N/A.

Tributaries ((a)(2) waters):			
(a)(2) Name	(a)(2) Size	(a)(2) Criteria	Rationale for (a)(2) Determination
N/A.	N/A.	N/A.	N/A.

Lakes and ponds, and impoundments of jurisdictional waters ((a)(3) waters):			
(a)(3) Name	(a)(3) Size	(a)(3) Criteria	Rationale for (a)(3) Determination
N/A.	N/A.	N/A.	N/A.

Adjacent wetlands ((a)(4) waters):			
(a)(4) Name	(a)(4) Size	(a)(4) Criteria	Rationale for (a)(4) Determination
N/A.	N/A.	N/A.	N/A.

<sup>1</sup> Map(s)/figure(s) are attached to the AJD provided to the requestor.

<sup>2</sup> If the navigable water is not subject to the ebb and flow of the tide or included on the District’s list of Rivers and Harbors Act Section 10 navigable waters list, do NOT use this document to make the determination. The District must continue to follow the procedure outlined in 33 CFR part 329.14 to make a Rivers and Harbors Act Section 10 navigability determination.

<sup>3</sup> A stand-alone TNW determination is completed independently of a request for an AJD. A stand-alone TNW determination is conducted for a specific segment of river or stream or other type of waterbody, such as a lake, where upstream or downstream limits or lake borders are established. A stand-alone TNW determination should be completed following applicable guidance and should NOT be documented on the AJD Form.



**U.S. ARMY CORPS OF ENGINEERS  
REGULATORY PROGRAM  
APPROVED JURISDICTIONAL DETERMINATION FORM (INTERIM)  
NAVIGABLE WATERS PROTECTION RULE**

**D. Excluded Waters or Features**

Excluded waters ((b)(1) – (b)(12)): <sup>4</sup>				
Exclusion Name	Exclusion Size		Exclusion <sup>5</sup>	Rationale for Exclusion Determination
Wetland 1	0.005	acre(s)	(b)(1) Non-adjacent wetland.	Wetland 1 is a seasonally flooded basin wetland with no natural and direct surface water connections. There is a culvert that drains the wetland to the west but not directly into a surface water. Wetland 1 is in a forested residential suburban neighborhood with a road on its western border. Contour maps, aerial imagery, and wetland boundary information submitted by the applicant in the December 14, 2020 Joint Application show the wetland is immediately surrounded by forested uplands. Therefore, Wetland 1 does not abut an (a)(1)-(3) water and it is not a water of the U.S.

**III. SUPPORTING INFORMATION**

**A. Select/enter all resources** that were used to aid in this determination and attach data/maps to this document and/or references/citations in the administrative record, as appropriate.

Information submitted by, or on behalf of, the applicant/consultant: [500 Pineview Land North Wetland Delineation Report and Joint Application, Kjolhaug Environmental, December 14, 2020](#)

This information is and is not sufficient for purposes of this AJD.

Rationale: [The information submitted did not include sufficient aerial imagery to determine if the drainage connects to a jurisdictional surface water.](#)

Data sheets prepared by the Corps: [Title\(s\) and/or date\(s\).](#)

Photographs: [Aerial: Google Earth Imagery 2020](#)

Corps site visit(s) conducted on: [Date\(s\).](#)

Previous Jurisdictional Determinations (AJDs or PJDs): [ORM Number\(s\) and date\(s\).](#)

Antecedent Precipitation Tool: [provide detailed discussion in Section III.B.](#)

USDA NRCS Soil Survey: [Delineation Report, Figure 4](#)

USFWS NWI maps: [Delineation Report, Figure 3](#)

USGS topographic maps: [Delineation Report, Figure 2](#)

**Other data sources used to aid in this determination:**

Data Source (select)	Name and/or date and other relevant information
<a href="#">USGS Sources</a>	<a href="#">N/A.</a>
<a href="#">USDA Sources</a>	<a href="#">N/A.</a>
<a href="#">NOAA Sources</a>	<a href="#">N/A.</a>
<a href="#">USACE Sources</a>	<a href="#">N/A.</a>
<a href="#">State/Local/Tribal Sources</a>	<a href="#">N/A.</a>

<sup>4</sup> Some excluded waters, such as (b)(2) and (b)(4), may not be specifically identified on the AJD form unless a requestor specifically asks a Corps district to do so. Corps districts may, in case-by-case instances, choose to identify some or all of these waters within the review area.

<sup>5</sup> Because of the broad nature of the (b)(1) exclusion and in an effort to collect data on specific types of waters that would be covered by the (b)(1) exclusion, four sub-categories of (b)(1) exclusions were administratively created for the purposes of the AJD Form. These four sub-categories are not new exclusions, but are simply administrative distinctions and remain (b)(1) exclusions as defined by the NWPR.



**U.S. ARMY CORPS OF ENGINEERS  
REGULATORY PROGRAM  
APPROVED JURISDICTIONAL DETERMINATION FORM (INTERIM)  
NAVIGABLE WATERS PROTECTION RULE**

Data Source (select)	Name and/or date and other relevant information
<a href="#">Other Sources</a>	<a href="#">National Hydrography Dataset, 2020</a>

**B. Typical year assessment(s):** [N/A](#)

**C. Additional comments to support AJD:** [N/A](#)

**NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND  
REQUEST FOR APPEAL**

<b>Applicant: Nathan and Courtney Golin</b>	<b>File No.: MVP-2011-00433-MAD</b>	<b>Date: December 18, 2020</b>
Attached is:		See Section below
	INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)	A
	PROFFERED PERMIT (Standard Permit or Letter of permission)	B
	PERMIT DENIAL	C
x	APPROVED JURISDICTIONAL DETERMINATION	D
	PRELIMINARY JURISDICTIONAL DETERMINATION	E

**SECTION I -** The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at <http://usace.army.mil/inet/functions/cw/cecwo/reg> or Corps regulations at 33 CFR Part 331.

- A: INITIAL PROFFERED PERMIT:** You may accept or object to the permit.
- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
  - **OBJECT:** If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.
- B: PROFFERED PERMIT:** You may accept or appeal the permit
- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
  - **APPEAL:** If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.
- C: PERMIT DENIAL:** You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.
- D: APPROVED JURISDICTIONAL DETERMINATION:** You may accept or appeal the approved JD or provide new information.
- **ACCEPT:** You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
  - **APPEAL:** If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.
- E: PRELIMINARY JURISDICTIONAL DETERMINATION:** You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.



**SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT**

**REASONS FOR APPEAL OR OBJECTIONS:** (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

**ADDITIONAL INFORMATION:** The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

**POINT OF CONTACT FOR QUESTIONS OR INFORMATION:**

If you have questions regarding this decision and/or the appeal process you may contact:

Maria DeLaundreau  
Regulatory Project Manager  
U.S. Army Corps of Engineers, St. Paul District  
180 5<sup>th</sup> Street East, Suite 700  
St. Paul, MN 55101  
Maria.A.DeLaundreau@usace.army.mil  
651-290-5266

If you only have questions regarding the appeal process you may also contact the Division Engineer through:

Administrative Appeals Review Officer  
Mississippi Valley Division  
P.O. Box 80 (1400 Walnut Street)  
Vicksburg, MS 39181-0080  
601-634-5820 FAX: 601-634-5816

**RIGHT OF ENTRY:** Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations.

\_\_\_\_\_  
Signature of appellant or agent.

Date:

Telephone number:



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

12/15/2020

Regulatory File No. MVP-2011-00433-MAD

**THIS IS NOT A PERMIT**

Kyle Uhler  
Kjolhaug Environmental Services  
2500 Shadywood Road, Suite 130  
Orono, MN 55331

Dear Mr. Uhler:

We have received your submittal described below. You may contact the Project Manager with questions regarding the evaluation process. The Project Manager may request additional information necessary to evaluate your submittal.

File Number: MVP-2011-00433-MAD

Applicant: Nathan & Courtney Golin

Project Name: 500 Pineview Lane North

Project Location: Section 35 of Township 118 North, Range 22, Hennepin County, Minnesota (Latitude: 44.9849282679056; Longitude: -93.4399476454353)

Received Date: 12/14/2020

Project Manager: Maria Delaundreau  
(651) 290-5266  
Maria.A.Delaundreau@usace.army.mil

Additional information about the St. Paul District Regulatory Program can be found on our web site at <http://www.mvp.usace.army.mil/missions/regulatory>.

Please note that initiating work in waters of the United States prior to receiving Department of the Army authorization could constitute a violation of Federal law. If you have any questions, please contact the Project Manager.

Thank you.

U.S. Army Corps of Engineers  
St. Paul District  
Regulatory Branch

## Minnesota Wetland Conservation Act Notice of Application

<b>Local Government Unit:</b> City of Plymouth	<b>County:</b> Hennepin
<b>Applicant Name:</b> Nathan Gonlin	
<b>Applicant Representative:</b> Kyle Uhler, Kjolhaug Environmental Services Company	
<b>Project Name:</b> 500 Pineview Lane North	
<b>LGU Project No. (if any):</b> 2020-27	
<b>Date Complete Application Received by LGU:</b> 12/30/2020	
<b>Date this Notice was Sent by LGU:</b> 1/7/2021	
<b>Date that Comments on this Application Must Be Received By LGU<sup>1</sup>:</b> 1/29/2021	

<sup>1</sup> minimum 15 business day comment period for Boundary & Type, Sequencing, Replacement Plan and Bank Plan Applications

**WCA Decision Type - check all that apply**

<input checked="" type="checkbox"/> Wetland Boundary/Type	<input type="checkbox"/> Sequencing	<input type="checkbox"/> Replacement Plan	<input type="checkbox"/> Bank Plan (not credit purchase)
<input type="checkbox"/> No-Loss (8420.0415)	<input type="checkbox"/> Exemption (8420.0420)		
Part: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> H		Subpart: <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9	

**Replacement Plan Impacts (replacement plan decisions only)**

<b>Total WCA Impact Area Proposed:</b>
----------------------------------------

**Application Materials**

<input checked="" type="checkbox"/> Attached <input type="checkbox"/> Other <sup>1</sup> (specify):
-----------------------------------------------------------------------------------------------------

<sup>1</sup> Link to ftp or other accessible file sharing sites is acceptable.

**Comments on this application should be sent to:**

<b>LGU Contact Person:</b> Ben Scharenbroich, Water Resources Supervisor
<b>E-Mail Address:</b> bscharenbroich@plymouthmn.gov
<b>Address and Phone Number:</b> 3400 Plymouth Blvd, Plymouth, MN 55447
<b>Decision-Maker for this Application:</b>
<input checked="" type="checkbox"/> Staff <input type="checkbox"/> Governing Board/Council <input type="checkbox"/> Other (specify):

**Notice Distribution (include name)**

*Required on all notices:*

<input checked="" type="checkbox"/> SWCD TEP Member: <b>Ms. Stacey Lijewski, HCA, 701 Fourth Avenue South, Suite 700, Minneapolis, MN 55415-1600</b>
<input checked="" type="checkbox"/> BWSR TEP Member: <b>Ben Carlson, BWSR, 520 Lafayette Road North, St. Paul, MN 55401</b>
<input type="checkbox"/> LGU TEP Member (if different than LGU contact):
<input checked="" type="checkbox"/> DNR Representative: <b>Melissa Collins, MnDNR, 1200 Warner Road, St. Paul, MN 55106</b> <b>Lucas Youngsma, MnDNR, 1200 Warner Road, St. Paul, MN 55106</b>
<input checked="" type="checkbox"/> Watershed District or Watershed Mgmt. Org.: <b>BCWMC 16145 Hillcrest Lane Eden Prairie MN 55346</b>
<input checked="" type="checkbox"/> Applicant (notice only): <b>Nathan Gonlin, 500 Pineview Lane North, Plymouth MN 55441</b>
<input checked="" type="checkbox"/> Agent/Consultant (notice only): <b>Kyle Uhler, Kjolhaug Environmental Services Company, 2500 Shadywood Road, Suite 130m Orono, MN 55331</b>

*Optional or As Applicable:*

<input checked="" type="checkbox"/> Corps of Engineers: <b>US Army Corps of Engineers, C/O Maria Delaundreau, 180 Fifth Street East, Suite 700, St. Paul MN 55101-1678</b>	
<input type="checkbox"/> BWSR Wetland Mitigation Coordinator (required for bank plan applications only):	
<input type="checkbox"/> Members of the Public (notice only):	<input type="checkbox"/> Other:

<b>Signature:</b> 	<b>Date:</b> 1/7/2021
--------------------------------------------------------------------------------------------------------	--------------------------

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.

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# **500 Pineview Lane North**

**Plymouth, Hennepin County, Minnesota**

## **Wetland Delineation Report**

*Prepared for*

Nathan and Courtney Golin

*by*

**Kjolhaug Environmental Services Company, Inc.**

(KES Project No. 2020-193)

December 14, 2020

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# 500 Pineview Lane North

*Plymouth, Hennepin County, Minnesota*

## Wetland Delineation Report

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### APPENDICES

- A. Joint Application Form for Activities Affecting Water Resources in Minnesota
- B. Wetland Delineation Data Forms
- C. Precipitation Data

# 500 Pineview Lane North

*Plymouth, Hennepin County, Minnesota*

## Wetland Delineation Report

### 1. WETLAND DELINEATION SUMMARY

- The 1.24-acre 500 Pineview Lane North site was inspected on November 16, 2020 for the presence and extent of wetland.
- The National Wetlands Inventory (NWI) map showed one PFO1A wetland within the site boundaries.
- The soil survey showed predominately non-hydric hydric soil types on the property.
- The DNR Public Waters Inventory showed Cavanaugh Lake (DNR Public Water 27-110 P) located approximately 320 feet southwest of the property boundaries.
- The National Hydrography Dataset did not show any water bodies or watercourses within the property boundaries.
- One Type 1 (PEM1A) seasonally flooded basin wetland was identified and delineated within the property boundaries.

## 2. OVERVIEW

The 1.24-acre 500 Pineview Lane North site was inspected on November 16, 2020 for the presence and extent of wetland. The property was located in the Southwest  $\frac{1}{4}$  of Section 35, Township 118 North, Range 22 West, City of Plymouth, Hennepin County, Minnesota. The site was situated east of Pineview Lane North and north of Sunset Trail North (**Figure 1**). The property corresponded to Hennepin County PID 3511822320037.

The site consisted a vacant-residential lot that was dominated by a canopy of quaking aspen, American elm, and white poplar trees with an understory dominated by common buckthorn shrubs. The topography sloped from an elevation of 998 feet msl in the south-central portion of the site down to 980 feet msl in the southwestern portion of the site.

The property was bordered on the west by Pineview Lane North and a single-family home, on the east, south and west by single-family homes.

One wetland was delineated within the site boundaries. The delineated wetland boundaries and existing conditions are shown on **Figure 2**.

**Appendix A** of this report includes a Joint Application Form for Activities Affecting Water Resources in Minnesota, which is submitted in request for: (1) a wetland boundary and type determination under the Minnesota Wetland Conservation Act (WCA), and (2) delineation concurrence and an Approved Jurisdictional Determination (AJD) under Section 404 of the Federal Clean Water Act.

## 3. METHODS

Wetlands were identified using the Routine Determination method described in the [Corps of Engineers Wetlands Delineation Manual](#) (Waterways Experiment Station, 1987) and the [Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region](#) (Version 2.0) as required under Section 404 of the Clean Water Act and the Minnesota Wetland Conservation Act.

Wetland boundaries were identified as the upper-most extent of wetland that met criteria for hydric soils, hydrophytic vegetation, and wetland hydrology. Wetland-upland boundaries were marked with pin flags that were located by a hand-held Trimble R1 GPS unit.

Soils, vegetation, and hydrology were documented at a representative location along the wetland-upland boundary. Plant species dominance was estimated based on the percent aerial or basal coverage visually estimated within a 30-foot radius for trees and vines, a 15-foot radius for the shrub layer, and a 5-foot radius for the herbaceous layer within the community type sampled.

Soils were characterized to a minimum depth of 24 inches (unless otherwise noted) using a [Munsell Soil Color Book](#) and standard soil texturing methodology. Hydric soil indicators used



are from [Field Indicators of Hydric Soils in the United States](#) (USDA Natural Resources Conservation Service (NRCS) in cooperation with the National Technical Committee for Hydric Soils, Version 8.1, 2017).

Mapped soils are separated into five classes based on the composition of hydric components and the Hydric Rating by Map Unit color classes utilized on [Web Soil Survey](#). The five classes include Hydric (100 percent hydric components), Predominantly Hydric (66 to 99 percent hydric components), Partially Hydric (33 to 65 percent hydric components), Predominantly Non-Hydric (1 to 32 percent hydric components), and Non-Hydric (less than one percent hydric components).

Plants were identified using standard regional plant keys. Taxonomy and indicator status of plant species was taken from the [2016 National Wetland Plant List](#) (U.S. Army Corps of Engineers 2016. National Wetland Plant List, version 3.3, Engineer Research and Development Center, Cold Regions Research and Engineering Laboratory, Hanover, NH).

## 4. RESULTS

### 4.1 Review of NWI, Soils, Public Waters and NHD Information

The [National Wetlands Inventory \(NWI\)](#) (Minnesota Geospatial Commons 2009-2014 and [U.S. Fish and Wildlife Service](#)) showed one PFO1A wetland within the site boundaries (**Figure 3**).

The [Soil Survey](#) (USDA NRCS 2015) showed that predominately non-hydric soil types on and near the property included Lester, and Dundas-Cordova soils. Soil types mapped on the property are listed in **Table 1** and a map showing soil types is included in **Figure 4**.

**Table 1. Soil types mapped on the 500 Pineview Ln N site**

Symbol	Soil Name	Acres	% of Area	% Hydric	Hydric Category
L22C2	Lester loam, 6 to 10 percent slopes, moderately eroded	0.7	61.5%	2	Predominantly non-hydric
L45A	Dundas-Cordova complex, 0 to 3 percent slopes	0.4	38.5%	30	Predominantly non-hydric

The [Minnesota DNR Public Waters Inventory](#) (Minnesota Department of Natural Resources 2015) Cavanaugh Lake (DNR Public Water 27-110 P) located approximately 320 feet southwest of the property boundaries (**Figure 5**).

The [National Hydrography Dataset](#) (U.S. Geological Survey 2015) showed no waterbodies or watercourses within the project boundaries (**Figure 6**).

### 4.2 Wetland Determinations and Delineations

Potential wetlands were evaluated during field observations on November 16, 2020. One wetland was identified and delineated on the property (**Figure 2**). Corresponding data forms are included

in **Appendix B**. The following descriptions of the wetlands and adjacent uplands reflects conditions observed at the time of the field visit. Herbaceous vegetation was senesced at the time of the wetland delineation. Precipitation conditions were within the normal range based on available 30-day rolling total precipitation and three-month antecedent precipitation data (**Appendix C**).

**Wetland 1** was a Type 1 (PEM1A) seasonally flooded basin wetland located in southwestern portion of the property. The wetland consisted of a sparsely vegetated concave surface. Saturation was observed at the surface in the central portion of the wetland. This wetland covered approximately 207 square feet within the property boundaries.

Adjacent upland was dominated by ground ivy and common buckthorn with a canopy dominated by quaking aspen and American elm trees. Primary and secondary hydrology indicators were not observed on the upland.

The wetland boundary corresponded to a topographic rise that coincided with a transition from sparse vegetation to ground ivy and common buckthorn shrubs. The wetland was not shown on the NWI map and fell in an area mapped as predominantly non-hydric soil (Lester) on the soil survey. Wetland 1 drained to the west through a culvert under Pineview Lane just offsite at the southwestern edge of the wetland.

### 4.3 Other Areas

Other areas were investigated because they were: (1) observed to support a hydrophytic plant community, (2) had visible wetland hydrology indicators, (3) were shown as wetland on the NWI map, or (4) were depressional and mapped as hydric soil. Field investigation led to the conclusion that these areas were not wetland.

**Area A** was a depressional area located in the eastern portion of the site (**Figure 2**) that was shown as wetland (PFO1A) on the NWI map but was mapped as predominately non-hydric on the soil survey. This area was dominated by a canopy of white poplar, with an understory containing ground ivy and recently removed common buckthorn. Soils in this area were hydric and consisted of 10 inches of fill material over a buried horizon of black loam over depleted silt with iron concentrations (**Appendix B/ SPA**). The area was determined not to be wetland due to lack of hydrophytic vegetation and the lack of primary or two secondary indicators of wetland hydrology.

No other areas with hydrophytic vegetation or wetland hydrology were observed on the site. No other areas were shown as hydric soil on the soil survey or as wetland on the NWI map.

### 4.4 Request for Wetland Boundary and Jurisdictional Determination

**Appendix A** of this report includes a Joint Application Form for Activities Affecting Water Resources in Minnesota, which is submitted in request for: (1) a wetland boundary and type determination under the Minnesota Wetland Conservation Act (WCA), and (2) delineation

concurrence and an Approved Jurisdictional Determination (AJD) under Section 404 of the Federal Clean Water Act.

## 5. CERTIFICATION OF DELINEATION

The procedures utilized in the described delineation are based on the U.S. Army Corps of Engineers 1987 Wetlands Delineation Manual as required under Section 404 of the Clean Water Act and the Minnesota Wetland Conservation Act. This wetland delineation and report were prepared in compliance with the regulatory standards in place at the time the work was performed.

Site boundaries indicated on figures within this report are approximate and do not constitute an official survey product.

Delineation completed by: Kyle Uhler, GIS Specialist  
Minnesota Certified Wetland Delineator No. 1353

Report prepared by: Kyle Uhler, GIS Specialist  
Minnesota Certified Wetland Delineator No. 1353

Report reviewed by:  \_\_\_\_\_ Date: December 14, 2020  
Mark Kjolhaug, Professional Wetland Scientist No. 000845

# **500 Pineview Lane North**


## **Wetland Delineation Report**

### **FIGURES**


1. Site Location
2. Existing Conditions
3. National Wetlands Inventory
4. Soil Survey
5. DNR Protected Waters Inventory
6. National Hydrography Dataset




**Figure 1 - Site Location Map**




N



0      335



Feet



Site Boundary

**500 Pineview Lane N (KES 2020-193)**  
**Plymouth, Minnesota**

Note: Boundaries indicated on this figure are approximate and do not constitute an official survey product.

**KJOLHAUG** ENVIRONMENTAL SERVICES COMPANY  
 Source: ESRI Streets Basemap



**Figure 2 - Existing Conditions**



N



0      45



Feet

**500 Pineview Lane N (KES 2020-193)**  
**Plymouth, Minnesota**

Note: Boundaries indicated on this figure are approximate and do not constitute an official survey product.


**KJOLHAUG** ENVIRONMENTAL SERVICES COMPANY  
Source: MNGEO Spatial Commons



**Figure 3 - National Wetlands Inventory**



N



0      65



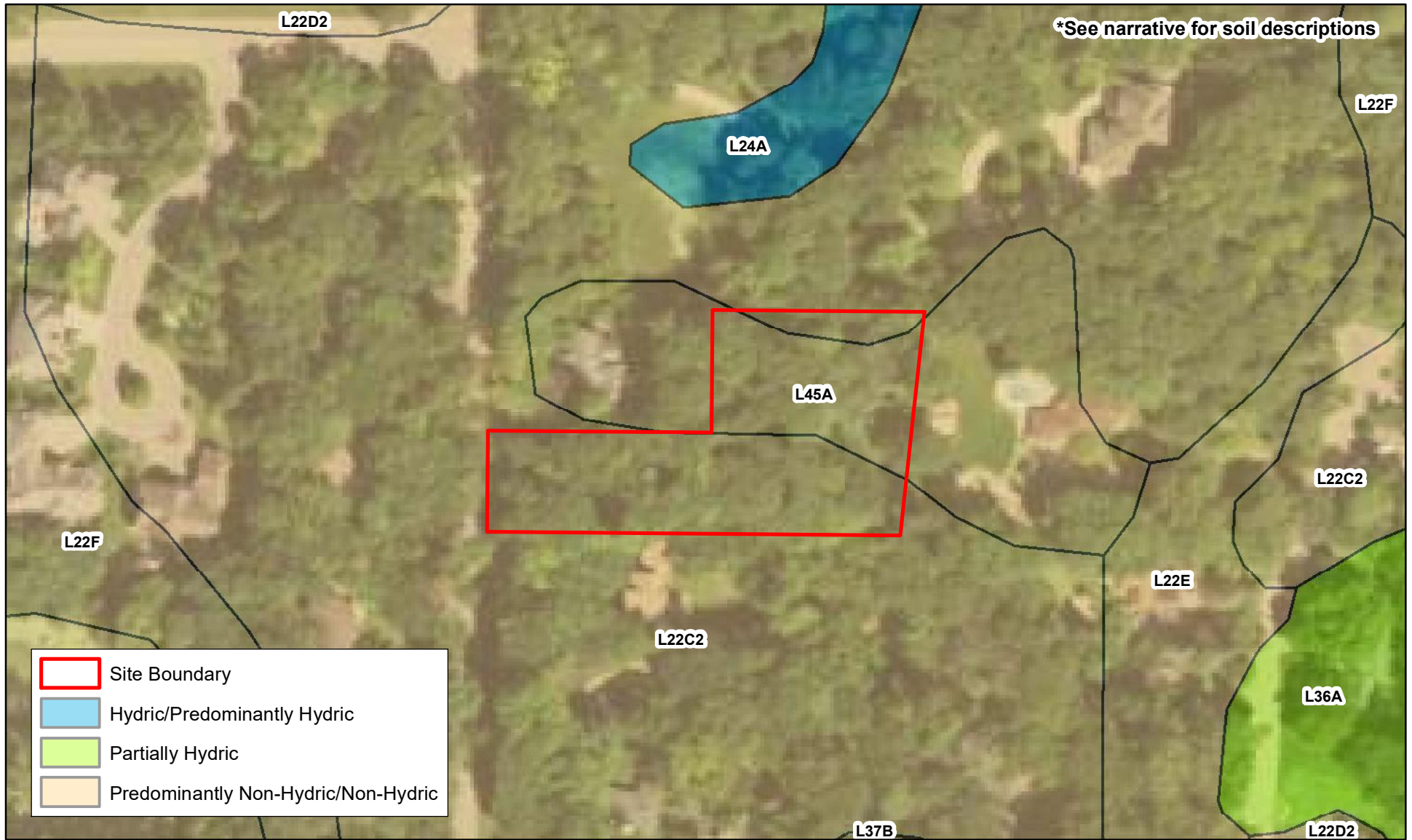
Feet

**500 Pineview Lane N (KES 2020-193)**  
**Plymouth, Minnesota**

**KJOLHAUG** ENVIRONMENTAL SERVICES COMPANY  
 Source: MNGEO Spatial Commons, USFWS

Note: Boundaries indicated on this figure are approximate and do not constitute an official survey product.





**Figure 4 - Soil Survey**



N



0 125 Feet



**500 Pineview Lane N (KES 2020-193)**  
**Plymouth, Minnesota**

Note: Boundaries indicated on this figure are approximate and do not constitute an official survey product.

**KJOLHAUG** ENVIRONMENTAL SERVICES COMPANY  
 Source: MNGEO Spatial Commons, USDA, NRCS



**Figure 5 - DNR Public Waters Inventory**



N



0      165



Feet

**500 Pineview Lane N (KES 2020-193)**  
**Plymouth, Minnesota**

Source: MNGEO Spatial Commons, MN DNR

Note: Boundaries indicated on this figure are approximate and do not constitute an official survey product.



**Figure 6 - National Hydrography Dataset**



N  
▲

0      215  
┌──────────┴──────────┐  
Feet

**KJOLHAUG** ENVIRONMENTAL SERVICES COMPANY

Source: MNGEO Spatial Commons, USGS

**500 Pineview Lane N (KES 2020-193)  
Plymouth, Minnesota**

Note: Boundaries indicated on this figure are approximate and do not constitute an official survey product.

# **500 Pineview Lane North**

## **Wetland Delineation Report**

### **APPENDIX A**

#### **Joint Application Form for Activities Affecting Water Resources in Minnesota**

# Joint Application Form for Activities Affecting Water Resources in Minnesota

This joint application form is the accepted means for initiating review of proposals that may affect a water resource (wetland, tributary, lake, etc.) in the State of Minnesota under state and federal regulatory programs. Applicants for Minnesota Department of Natural Resources (DNR) Public Waters permits **MUST** use the MPARS online permitting system for submitting applications to the DNR. Applicants can use the information entered into MPARS to substitute for completing parts of this joint application form (see the paragraph on MPARS at the end of the joint application form instructions for additional information). This form is only applicable to the water resource aspects of proposed projects under state and federal regulatory programs; other local applications and approvals may be required. Depending on the nature of the project and the location and type of water resources impacted, multiple authorizations may be required as different regulatory programs have different types of jurisdiction over different types of resources.

## Regulatory Review Structure

### Federal

The St. Paul District of the U.S. Army Corps of Engineers (Corps) is the federal agency that regulates discharges of dredged or fill material into waters of the United States (wetlands, tributaries, lakes, etc.) under Section 404 of the Clean Water Act (CWA) and regulates work in navigable waters under Section 10 of the Rivers and Harbors Act. Applications are assigned to Corps project managers who are responsible for implementing the Corps regulatory program within a particular geographic area.

### State

There are three state regulatory programs that regulate activities affecting water resources. The Wetland Conservation Act (WCA) regulates most activities affecting wetlands. It is administered by local government units (LGUs) which can be counties, townships, cities, watershed districts, watershed management organizations or state agencies (on state-owned land). The Minnesota DNR Division of Ecological and Water Resources issues permits for work in specially-designated public waters via the Public Waters Work Permit Program (DNR Public Waters Permits). The Minnesota Pollution Control Agency (MPCA) under Section 401 of the Clean Water Act certifies that discharges of dredged or fill material authorized by a federal permit or license comply with state water quality standards. One or more of these regulatory programs may be applicable to any one project.

## Required Information

Prior to submitting an application, applicants are **strongly encouraged** to seek input from the Corps Project Manager and LGU staff to identify regulatory issues and required application materials for their proposed project. Project proponents can request a pre-application consultation with the Corps and LGU to discuss their proposed project by providing the information required in Sections 1 through 5 of this joint application form to facilitate a meaningful discussion about their project. Many LGUs provide a venue (such as regularly scheduled technical evaluation panel meetings) for potential applicants to discuss their projects with multiple agencies prior to submitting an application. Contact information is provided below.

The following bullets outline the information generally required for several common types of determinations/authorizations.

- For delineation approvals and/or jurisdictional determinations, submit Parts 1, 2 and 5, and Attachment A.
- For activities involving CWA/WCA exemptions, WCA no-loss determinations, and activities not requiring mitigation, submit Parts 1 through 5, and Attachment B.
- For activities requiring compensatory mitigation/replacement plan, submit Parts 1 thru 5, and Attachments C and D.
- For local road authority activities that qualify for the state's local road wetland replacement program, submit Parts 1 through 5, and Attachments C, D (if applicable), and E to both the Corps and the LGU.

## Submission Instructions

Send the completed joint application form and all required attachments to:

**U.S Army Corps of Engineers.** Applications may be sent directly to the appropriate Corps Office. For a current listing of areas of responsibilities and contact information, visit the St. Paul District's website at:

<http://www.mvp.usace.army.mil/Missions/Regulatory.aspx> and select "Minnesota" from the contact Information box.

Alternatively, applications may be sent directly to the St. Paul District Headquarters and the Corps will forward them to the appropriate field office.

**Section 401 Water Quality Certification:** Applicants do not need to submit the joint application form to the MPCA unless specifically requested. The MPCA will request a copy of the completed joint application form directly from an applicant when they determine an individual 401 water quality certification is required for a proposed project.

**Wetland Conservation Act Local Government Unit:** Send to the appropriate Local Government Unit. If necessary, contact your county Soil and Water Conservation District (SWCD) office or visit the Board of Water and Soil Resources (BWSR) web site ([www.bwsr.state.mn.us](http://www.bwsr.state.mn.us)) to determine the appropriate LGU.

**DNR Public Waters Permitting:** In 2014 the DNR will begin using the Minnesota DNR Permitting and Reporting System (MPARS) for submission of Public Waters permit applications (<https://webapps11.dnr.state.mn.us/mpars/public/authentication/login>).

Applicants for Public Waters permits **MUST** use the MPARS online permitting system for submitting applications to the DNR. To avoid duplication and to streamline the application process among the various resource agencies, applicants can use the information entered into MPARS to substitute for completing parts of this joint application form. The MPARS print/save function will provide the applicant with a copy of the Public Waters permit application which, at a minimum, will satisfy Parts one and two of this joint application. For certain types of activities, the MPARS application may also provide all of the necessary information required under Parts three and four of the joint application. However, it is the responsibility of the Applicant to make sure that the joint application contains all of the required information, including identification of all aquatic resources impacted by the project (see Part four of the joint application). After confirming that the MPARS application contains all of the required information in Parts one and two the Applicant may attach a copy to the joint application and fill in any missing information in the remainder of the joint application.

## 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:** Nathan and Courtney Golin

**Mailing Address:** 2400 Zane Ave N, Golden Valley, MN

**Phone:** 612-384-1405

**E-mail Address:** nate.golin@gmail.com

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

**Mailing Address:**

**Phone:**

**E-mail Address:**

**Agent Name:** Kyle Uhler

**Mailing Address:** 2500 Shadywood Road #130, Orono MN 55331

**Phone:** 952-401-8757 Ext. #4

**E-mail Address:** Kyle@kjolhaugenv.com

## PART TWO: Site Location Information

**County:** Hennepin

**City/Township:** Plymouth

**Parcel ID and/or Address:** 3511822320037/ 500 Pineview Ln N

**Legal Description (Section, Township, Range):** S:35 T:118N R:22W

**Lat/Long (decimal degrees):**

**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):** 1.24

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/RegulatoryDocs/engform\\_4345\\_2012oct.pdf](http://www.mvp.usace.army.mil/Portals/57/docs/regulatory/RegulatoryDocs/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.

## PART FOUR: Aquatic Resource Impact<sup>1</sup> 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.)	Type of Impact (fill, excavate, drain, or remove vegetation)	Duration of Impact Permanent (P) or Temporary (T) <sup>1</sup>	Size of Impact <sup>2</sup>	Overall Size of Aquatic Resource <sup>3</sup>	Existing Plant Community Type(s) in Impact Area <sup>4</sup>	County, Major Watershed #, and Bank Service Area # of Impact Area <sup>5</sup>

<sup>1</sup>If 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)".  
<sup>2</sup>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).  
<sup>3</sup>This is generally only applicable if you are applying for a de minimis exemption under MN Rules 8420.0420 Subp. 8, otherwise enter "N/A".  
<sup>4</sup>Use *Wetland Plants and Plant Community Types of Minnesota and Wisconsin* 3<sup>rd</sup> Ed. as modified in MN Rules 8420.0405 Subp. 2.  
<sup>5</sup>Refer to Major Watershed and Bank Service Area maps in MN Rules 8420.0522 Subp. 7.

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 pre-application 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:  \_\_\_\_\_ Date: 11/27/2020

Kjorhaug Environmental Services Company

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.

<sup>1</sup> 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.



## 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>

# **500 Pineview Lane North**

## **Wetland Delineation Report**

### **APPENDIX B**

#### **Wetland Delineation Data Forms**

**WETLAND DETERMINATION DATA FORM - Midwest Region**

Project/Site 500 Pineview Ln N City/County: Plymouth/Hennepin Sampling Date: 11/16/2020  
 Applicant/Owner: See Joint Application Form State: MN Sampling Point: SP1-U  
 Investigator(s): K. Uhler Section, Township, Range: S 35, T118N, R22W  
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Linear  
 Slope (%): 2 to 3 Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name Lester 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? present? Yes

**SUMMARY OF FINDINGS** (If needed, explain any answers in remarks.)

Hydrophytic vegetation present? <u>N</u>	<b>Is the sampled area within a wetland?</b> <u>N</u> If yes, optional wetland site ID: _____
Hydric soil present? <u>N</u>	
Indicators of wetland hydrology present? <u>N</u>	

Remarks: (Explain alternative procedures here or in a separate report.)  
 Both the 30-day precipitation rolling average and Gridded database precipitation worksheet within the normal range.

**VEGETATION -- Use scientific names of plants.**

<u>Tree Stratum</u> (Plot size: <u>30 ft Radius</u> )	Absolute % Cover	Dominant Species	Indicator Staus	<b>Dominance Test Worksheet</b>
1 <u>Populus grandidentata</u>	30	Y	FACU	
2 <u>Ulmus americana</u>	10	Y	FACW	Total Number of Dominant Species Across all Strata: <u>5</u> (B)
3 _____				Percent of Dominant Species that are OBL, FACW, or FAC: <u>40.00%</u> (A/B)
4 _____				
5 _____				
	40 = Total Cover			
<u>Sapling/Shrub stratum</u> (Plot size: <u>15 ft Radius</u> )	Absolute % Cover	Dominant Species	Indicator Staus	<b>Prevalence Index Worksheet</b>
1 <u>Rhamnus cathartica</u>	20	Y	FAC	
2 <u>Sambucus canadensis</u>	10	Y	UPL	OBL species <u>0</u> x 1 = <u>0</u>
3 _____				FACW species <u>10</u> x 2 = <u>20</u>
4 _____				FAC species <u>20</u> x 3 = <u>60</u>
5 _____				FACU species <u>50</u> x 4 = <u>200</u>
	30 = Total Cover			UPL species <u>10</u> x 5 = <u>50</u>
				Column totals <u>90</u> (A) <u>330</u> (B)
				Prevalence Index = B/A = <u>3.67</u>
<u>Herb stratum</u> (Plot size: <u>5 ft Radius</u> )	Absolute % Cover	Dominant Species	Indicator Staus	<b>Hydrophytic Vegetation Indicators:</b>
1 <u>Glechoma hederacea</u>	20	Y	FACU	
2 _____				<input type="checkbox"/> Dominance test is >50%
3 _____				<input type="checkbox"/> Prevalence index is ≤3.0*
4 _____				<input type="checkbox"/> Morphological adaptations* (provide supporting data in Remarks or on a separate sheet)
5 _____				<input type="checkbox"/> Problematic hydrophytic vegetation* (explain)
6 _____				
7 _____				
8 _____				
9 _____				
10 _____				
	20 = Total Cover			
<u>Woody vine stratum</u> (Plot size: <u>30 ft Radius</u> )	Absolute % Cover	Dominant Species	Indicator Staus	<b>Hydrophytic vegetation present?</b> <u>N</u>
1 _____				
2 _____				
	0 = Total Cover			

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

**SOIL**

Sampling Point: SP1-U

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

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-10	10YR2/1	100					Loam	
10-24	10YR3/2	88	10YR4/6	2	C	M	Sandy clay loam	
			10YR5/1	10	D	M		

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

<p><b>Hydric Soil Indicators:</b></p> <p><input type="checkbox"/> Histisol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Stratified Layers (A5)</p> <p><input type="checkbox"/> 2 cm Muck (A10)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1)</p> <p><input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)</p>	<p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p>	<p><b>Indicators for Problematic Hydric Soils:</b></p> <p><input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R)</p> <p><input type="checkbox"/> Dark Surface (S7) (LRR K, L)</p> <p><input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (explain in remarks)</p>
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

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

<p><b>Restrictive Layer (if observed):</b></p> <p>Type: _____</p> <p>Depth (inches): _____</p> <p>Remarks:</p>	<p><b>Hydric soil present?</b> <u>  N  </u></p>
----------------------------------------------------------------------------------------------------------------	-------------------------------------------------

**HYDROLOGY**

<p><b>Wetland Hydrology Indicators:</b></p> <p>Primary Indicators (minimum of one is required; check all that apply)</p> <p><input type="checkbox"/> Surface Water (A1)</p> <p><input type="checkbox"/> High Water Table (A2)</p> <p><input type="checkbox"/> Saturation (A3)</p> <p><input type="checkbox"/> Water Marks (B1)</p> <p><input type="checkbox"/> Sediment Deposits (B2)</p> <p><input type="checkbox"/> Drift Deposits (B3)</p> <p><input type="checkbox"/> Algal Mat or Crust (B4)</p> <p><input type="checkbox"/> Iron Deposits (B5)</p> <p><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)</p> <p><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</p> <p><input type="checkbox"/> Water-Stained Leaves (B9)</p>		<p>Secondary Indicators (minimum of two required)</p> <p><input type="checkbox"/> Aquatic Fauna (B13)</p> <p><input type="checkbox"/> True Aquatic Plants (B14)</p> <p><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</p> <p><input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)</p> <p><input type="checkbox"/> Presence of Reduced Iron (C4)</p> <p><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</p> <p><input type="checkbox"/> Thin Muck Surface (C7)</p> <p><input type="checkbox"/> Gauge or Well Data (D9)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>		<p><input type="checkbox"/> Surface Soil Cracks (B6)</p> <p><input type="checkbox"/> Drainage Patterns (B10)</p> <p><input checked="" type="checkbox"/> Dry-Season Water Table (C2)</p> <p><input type="checkbox"/> Crayfish Burrows (C8)</p> <p><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)</p> <p><input type="checkbox"/> Stunted or Stressed Plants (D1)</p> <p><input type="checkbox"/> Geomorphic Position (D2)</p> <p><input type="checkbox"/> FAC-Neutral Test (D5)</p>	
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<p><b>Field Observations:</b></p> <p>Surface water present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____</p> <p>Water table present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>  22  </u></p> <p>Saturation present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>  19  </u></p> <p>(includes capillary fringe)</p>	<p><b>Indicators of wetland hydrology present?</b> <u>  N  </u></p>
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Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

## WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site 500 Pineview Ln N City/County: Plymouth/Hennepin Sampling Date: 11/16/2020  
 Applicant/Owner: See Joint Application Form State: MN Sampling Point: SP1-W  
 Investigator(s): K. Uhler Section, Township, Range: S 35, T118N, R22W  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave  
 Slope (%): 0 to 1 Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name Lester 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? Yes

**SUMMARY OF FINDINGS** (If needed, explain any answers in remarks.)

Hydrophytic vegetation present? <u>Y</u>	<b>Is the sampled area within a wetland?</b> <u>Y</u>
Hydric soil present? <u>Y</u>	
Indicators of wetland hydrology present? <u>Y</u>	
If yes, optional wetland site ID: <u>Wetland 1</u>	

Remarks: (Explain alternative procedures here or in a separate report.)  
 Both the 30-day precipitation rolling average and Gridded database precipitation worksheet within the normal range.

**VEGETATION** -- Use scientific names of plants.

Tree Stratum	(Plot size: <u>30 ft Radius</u> )	Absolute % Cover	Dominant Species	Indicator Status	Dominance Test Worksheet
1	_____	_____	_____	_____	Number of Dominant Species that are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across all Strata: <u>1</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>100.00%</u> (A/B)
2	_____	_____	_____	_____	
3	_____	_____	_____	_____	
4	_____	_____	_____	_____	
5	_____	_____	_____	_____	
		<u>0</u>	= Total Cover		<b>Prevalence Index Worksheet</b> Total % Cover of: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>5</u> x 2 = <u>10</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>0</u> x 5 = <u>0</u> Column totals <u>5</u> (A) <u>10</u> (B) Prevalence Index = B/A = <u>2.00</u>
<u>Sapling/Shrub stratum</u> (Plot size: <u>15 ft Radius</u> )					
1	_____	_____	_____	_____	
2	_____	_____	_____	_____	
3	_____	_____	_____	_____	
4	_____	_____	_____	_____	
5	_____	_____	_____	_____	
		<u>0</u>	= Total Cover		
<u>Herb stratum</u> (Plot size: <u>5 ft Radius</u> )					
1	<u>Phalaris arundinacea</u>	<u>5</u>	<u>Y</u>	<u>FACW</u>	
2	_____	_____	_____	_____	
3	_____	_____	_____	_____	
4	_____	_____	_____	_____	
5	_____	_____	_____	_____	
6	_____	_____	_____	_____	
7	_____	_____	_____	_____	
8	_____	_____	_____	_____	
9	_____	_____	_____	_____	
10	_____	_____	_____	_____	
		<u>5</u>	= Total Cover		
<u>Woody vine stratum</u> (Plot size: <u>30 ft Radius</u> )					
1	_____	_____	_____	_____	
2	_____	_____	_____	_____	
		<u>0</u>	= Total Cover		

Remarks: (Include photo numbers here or on a separate sheet)  
 Sparsely vegetated concave surface

**SOIL**

Sampling Point: SP1-W

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

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-6	10YR2/1	100					Clay loam	
6-42	10YR2/1	95	10YR4/6	5	C	M	Clay loam	

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

<b>Hydric Soil Indicators:</b> <input type="checkbox"/> Histisol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input checked="" type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)		<input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8)		<b>Indicators for Problematic Hydric Soils:</b> <input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (explain in remarks)	
				*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic	

<b>Restrictive Layer (if observed):</b> Type: _____ Depth (inches): _____	<b>Hydric soil present?</b> <u>Y</u>
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Remarks:  
Assumed A12

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b> Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input checked="" type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Gauge or Well Data (D9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)	

<b>Field Observations:</b> Surface water present? Yes _____ No <u>X</u> Depth (inches): _____ Water table present? Yes <u>X</u> No _____ Depth (inches): <u>4</u> Saturation present? Yes <u>X</u> No _____ Depth (inches): <u>0</u> (includes capillary fringe)	<b>Indicators of wetland hydrology present?</b> <u>Y</u>
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Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

**WETLAND DETERMINATION DATA FORM - Midwest Region**

Project/Site 500 Pineview Ln N City/County: Plymouth/Hennepin Sampling Date: 11/16/2020  
 Applicant/Owner: See Joint Application Form State: MN Sampling Point: SP-A  
 Investigator(s): K. Uhler Section, Township, Range: S 35, T118N, R22W  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave  
 Slope (%): 1 to 2 Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name Lester 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 X, soil X, or hydrology \_\_\_\_\_ significantly disturbed? Are "normal circumstances" present? Yes  
 Are vegetation \_\_\_\_\_, soil \_\_\_\_\_, or hydrology \_\_\_\_\_ naturally problematic? Yes

**SUMMARY OF FINDINGS**

(If needed, explain any answers in remarks.)

Hydrophytic vegetation present? <u>N</u>	<b>Is the sampled area within a wetland?</b> <u>N</u> If yes, optional wetland site ID: _____
Hydric soil present? <u>Y</u>	
Indicators of wetland hydrology present? <u>N</u>	

Remarks: (Explain alternative procedures here or in a separate report.)  
 Both the 30-day precipitation rolling average and Gridded database precipitation worksheet within the normal range. Vegetation and soils were significantly disturbed, sample area was recently cleared of brush and fill material was observed.

**VEGETATION -- Use scientific names of plants.**

<u>Tree Stratum</u> (Plot size: <u>30 ft Radius</u> )	Absolute % Cover	Dominant Species	Indicator Staus	<b>Dominance Test Worksheet</b>
1 <u>Fraxinus pennsylvanica</u>	10	Y	FACW	
2 <u>Populus alba</u>	2	N	UPL	Total Number of Dominant Species Across all Strata: <u>2</u> (B)
3 _____				Percent of Dominant Species that are OBL, FACW, or FAC: <u>50.00%</u> (A/B)
4 _____				
5 _____				
<u>12</u> = Total Cover				
<u>Sapling/Shrub stratum</u> (Plot size: <u>15 ft Radius</u> )				<b>Prevalence Index Worksheet</b>
1 _____				Total % Cover of:
2 _____				OBL species <u>0</u> x 1 = <u>0</u>
3 _____				FACW species <u>10</u> x 2 = <u>20</u>
4 _____				FAC species <u>0</u> x 3 = <u>0</u>
5 _____				FACU species <u>10</u> x 4 = <u>40</u>
				UPL species <u>2</u> x 5 = <u>10</u>
<u>0</u> = Total Cover				Column totals <u>22</u> (A) <u>70</u> (B)
<u>Herb stratum</u> (Plot size: <u>5 ft Radius</u> )				Prevalence Index = B/A = <u>3.18</u>
1 <u>Glechoma hederacea</u>	10	Y	FACU	
2 _____				
3 _____				
4 _____				
5 _____				
6 _____				
7 _____				
8 _____				
9 _____				
10 _____				
<u>10</u> = Total Cover				
<u>Woody vine stratum</u> (Plot size: <u>30 ft Radius</u> )				<b>Hydrophytic Vegetation Indicators:</b>
1 _____				<input type="checkbox"/> Rapid test for hydrophytic vegetation
2 _____				<input type="checkbox"/> Dominance test is >50%
				<input type="checkbox"/> Prevalence index is ≤3.0*
<u>0</u> = Total Cover				<input type="checkbox"/> Morphological adaptations* (provide supporting data in Remarks or on a separate sheet)
				<input type="checkbox"/> Problematic hydrophytic vegetation* (explain)
				*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
				<b>Hydrophytic vegetation present?</b> <u>N</u>

Remarks: (Include photo numbers here or on a separate sheet)  
 Area A partially cleared, piles of buckthorn on the site. Area A contained a small grove of white poplar (UPL) on the north end.

**SOIL**

Sampling Point: SP-A

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

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*	Loc**		
0-10	10YR3/2	85	10YR4/6	10	C	M	Sandy clay loam	Gravel inclusions/disturbed
			10YR6/2	5	D	M		
10-18	10YR2/1	100					Loam	
18-30	10YR6/2	95	10YR4/6	5	C	M	Silt	

\*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 wetland 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)
- 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? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_  
 (includes capillary fringe)

Indicators of wetland hydrology present? N

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

Remarks:



# **500 Pineview Lane North**


## **Wetland Delineation Report**

### **APPENDIX C**

#### **Precipitation Data**

# Minnesota State Climatology Office

State Climatology Office - DNR Division of Ecological and Water Resources

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## Precipitation Worksheet Using Gridded Database

### Precipitation data for target wetland location:

county: **Hennepin** township number: **118N**  
 township name: **Plymouth** range number: **22W**  
 nearest community: **Medicine Lake** section number: **35**

### Aerial photograph or site visit date:

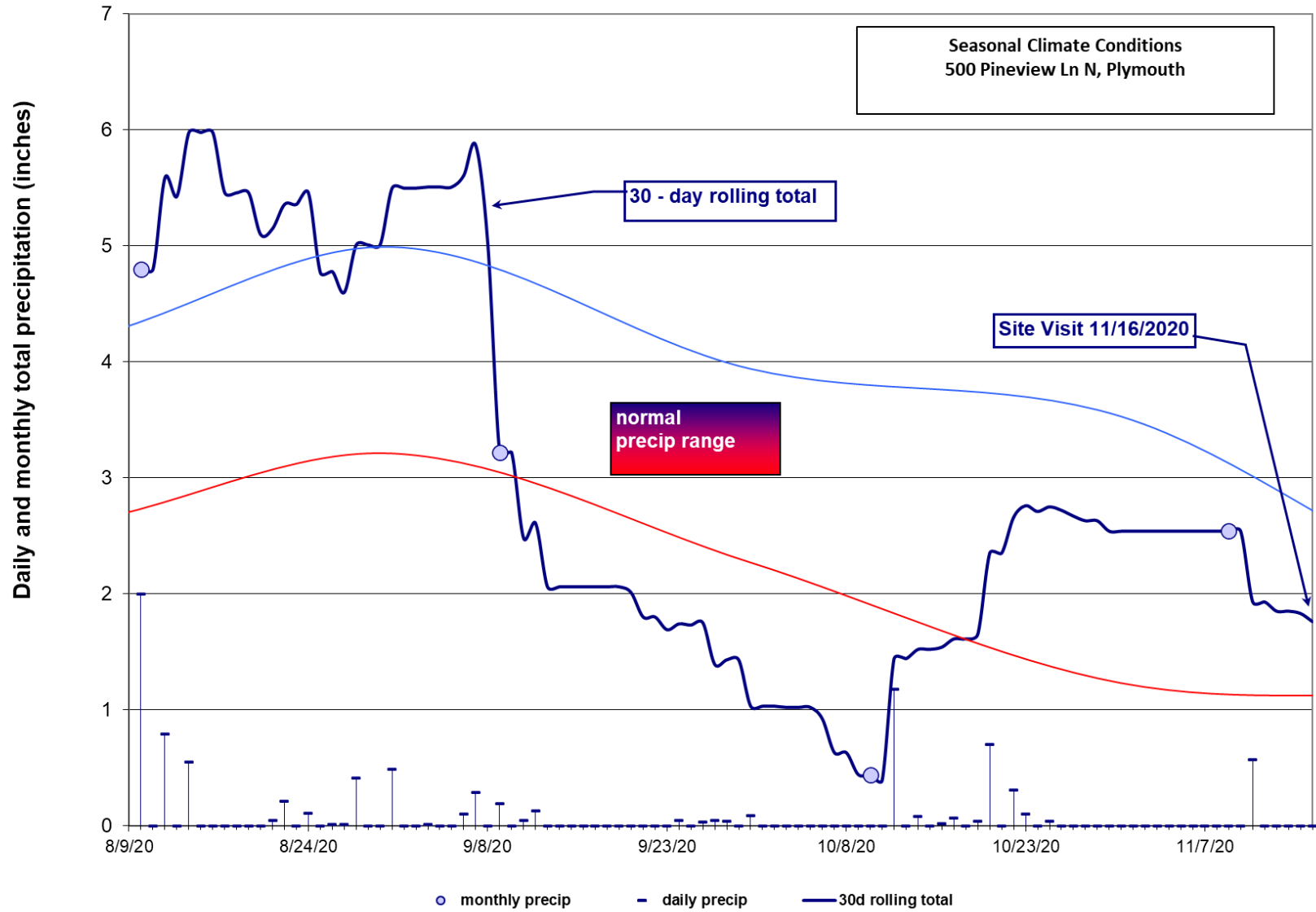
**Monday, November 16, 2020**

### Score using 1981-2010 normal period

values are in inches A 'R' following a monthly total indicates a provisional value derived from radar-based estimates.	first prior month: <b>October 2020</b>	second prior month: <b>September 2020</b>	third prior month: <b>August 2020</b>
<b>estimated precipitation total for this location:</b>	<b>2.52R</b>	<b>1.02R</b>	<b>5.33R</b>
<b>there is a 30% chance this location will have less than:</b>	1.23	2.27	3.21
<b>there is a 30% chance this location will have more than:</b>	3.53	3.94	4.99
<b>type of month: dry normal wet</b>	<b>normal</b>	<b>dry</b>	<b>wet</b>
<b>monthly score</b>	<b>3 * 2 = 6</b>	<b>2 * 1 = 2</b>	<b>1 * 3 = 3</b>
<b>multi-month score:</b> 6 to 9 (dry) 10 to 14 (normal) 15 to 18 (wet)	<b>11 (Normal)</b>		

### Other Resources:

- [retrieve daily precipitation data](#)
- [view radar-based precipitation estimates](#)
- [view weekly precipitation maps](#)
- [Evaluating Antecedent Precipitation Conditions](#) (BWSR)



## Plymouth, MN: Precipitation Summary

### Source: Minnesota Climatology Working Group

#### Monthly Totals: 2020

Target: T118N R22W S35, Lat: 44.98590 Lon: 93.43079

```

mon year cc tttN rrW ss nnnn oooooooo pre
Jan 2020 27 118N 21W 20 NWS NEW HOPE .87
Feb 2020 27 118N 21W 20 NWS NEW HOPE .55
Mar 2020 27 118N 21W 20 NWS NEW HOPE 2.57
Apr 2020 27 118N 21W 20 NWS NEW HOPE 1.66
May 2020 27 118N 21W 20 NWS NEW HOPE 4.10
Jun 2020 27 118N 21W 20 NWS NEW HOPE 3.47
Jul 2020 27 118N 21W 20 NWS NEW HOPE 2.45
Aug 2020 27 118N 21W 20 NWS NEW HOPE 5.50
Sep 2020 27 118N 21W 20 NWS NEW HOPE 1.03
Oct 2020 27 118N 21W 20 NWS NEW HOPE 2.54
  
```

#### September/October/November Daily Records

Date	Precip.	Date	Precip.	Date	Precip.
Sep 1, 2020	0	Oct 1, 2020	0	Nov 1, 2020	0
Sep 2, 2020	0	Oct 2, 2020	0	Nov 2, 2020	0
Sep 3, 2020	.01	Oct 3, 2020	0	Nov 3, 2020	0
Sep 4, 2020	0	Oct 4, 2020	0	Nov 4, 2020	0
Sep 5, 2020	0	Oct 5, 2020	0	Nov 5, 2020	0
Sep 6, 2020	.10	Oct 6, 2020	0	Nov 6, 2020	0
Sep 7, 2020	.29	Oct 7, 2020	0	Nov 7, 2020	0
Sep 8, 2020	T	Oct 8, 2020	0	Nov 8, 2020	0
Sep 9, 2020	.19	Oct 9, 2020	0	Nov 9, 2020	0
Sep 10, 2020	0	Oct 10, 2020	m	Nov 10, 2020	0
Sep 11, 2020	.05	Oct 11, 2020	0	Nov 11, 2020	0.57
Sep 12, 2020	.13	Oct 12, 2020	1.18	Nov 12, 2020	0
Sep 13, 2020	0	Oct 13, 2020	0	Nov 13, 2020	0
Sep 14, 2020	0	Oct 14, 2020	.08	Nov 14, 2020	0
Sep 15, 2020	0	Oct 15, 2020	0	Nov 15, 2020	0
Sep 16, 2020	0	Oct 16, 2020	.02	Nov 16, 2020	0 Site Visit
Sep 17, 2020	0	Oct 17, 2020	.07	Nov 17, 2020	0
Sep 18, 2020	0	Oct 18, 2020	0	Nov 18, 2020	0
Sep 19, 2020	0	Oct 19, 2020	.04		
Sep 20, 2020	0	Oct 20, 2020	.70		
Sep 21, 2020	T	Oct 21, 2020	0		
Sep 22, 2020	0	Oct 22, 2020	.31		
Sep 23, 2020	0	Oct 23, 2020	.10		
Sep 24, 2020	.05	Oct 24, 2020	0		
Sep 25, 2020	0	Oct 25, 2020	.04		
Sep 26, 2020	.03	Oct 26, 2020	0		
Sep 27, 2020	.05	Oct 27, 2020	0		
Sep 28, 2020	.04	Oct 28, 2020	0		
Sep 29, 2020	0	Oct 29, 2020	0		
Sep 30, 2020	.09	Oct 30, 2020	0		
		Oct 31, 2020	0		

#### 1981-2010 Summary Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	WARM	ANN	WAT
30%	0.47	0.42	1.15	1.93	2.56	3.22	2.61	2.90	2.29	1.26	1.07	0.61	16.27	26.64	26.13
70%	1.14	0.85	1.96	2.78	4.08	5.38	4.20	4.77	4.07	3.29	2.00	1.40	21.59	33.44	33.01
mean	0.81	0.77	1.71	2.56	3.43	4.40	3.93	4.08	3.40	2.39	1.67	1.14	19.24	30.29	30.12