# Minnetonka Parcel Wetland Services

Type and Boundary Application

City of Minnetonka, MN May 9, 2022

#### **Submitted by:**

Bolton & Menk, Inc. 12224 Nicollet Drive Burnsville, MN 55337 P: 952-890-0509





Real People. Real Solutions.

## **Table Of Contents**

PART ONE: APPLICANT INFORMATION	1
PART TWO: SITE LOCATION INFORMATION	
PART THREE: GENERAL PROJECT/SITE INFORMATION	
PART FOUR: AQUATIC RESOURCE IMPACT SUMMARY	
PART FIVE: APPLICANT SIGNATURE	
ΔΤΤΔ CHMENT Δ	

## **Appendix**

WETLAND DELINEATION REPORT

## **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.

Applican	t/Land	ow	ner Name:	City	of Minnetonka	
Mailing A	Addres	s:	14600 Mini	netor	nka Blvd   Minnetonka, MN   55345	
Phone:	952-9	39-	8234			
E-mail A	ddress:	: [	rhanson@m	innet	tonkamn.gov	
						1
Authoriz	ed Con	tac	t (do not co	mple	te if same as above):	
Mailing A	Addres	s:				
Phone:						
E-mail A	ddress:	: [				
						<b>.</b>
Agent Na	ame:	Вс	olton & Menl	k, Inc	.   Brandon Bohks	
Mailing A	Addres	s:	12224 Nico	llet D	Orive   Burnsville, MN   55337	
Phone:	952-8	90-	0509 ext 32	44		
E-mail A	ddress:	;	brandonbo@	9bolt	on-menk.com	

### **PART TWO: Site Location Information**

County:	Hennepin		City/Towns	hip:	Minnetonka
Parcel ID	and/or Address:	3411722110017,	3411722110022		
Legal Des	cription (Section, To	wnship, Range):	34, 117N, 22W		
Lat/Long	(decimal degrees):	44.904534, -93.44	6597		
Attach a	map showing the lo	cation of the site in	relation to local	streets	, roads, highways.
Approxim	nate size of site (acre	es) or if a linear pro	ject, length (feet)	:	2.24 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

## **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.)	· ·	Duration of Impact Permanent (P) or Temporary (T)1	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>&</sup>lt;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)".

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

N/A

## **PART FIVE: Applicant Signature**

Check here if you are requesting a <u>pre-application</u> consulprovided. Regulatory entities will not initiate a formal application	ultation with the Corps and LGU based on the information you have cation review if this box is checked.
By signature below, I attest that the information in this applicant authority to undertake the work described herein.	cation is complete and accurate. I further attest that I possess the
Signature:	Date: 05-10-2022

I hereby authorize **Bolton & Menk, Inc** 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>&</sup>lt;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>&</sup>lt;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>&</sup>lt;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>&</sup>lt;sup>5</sup>Refer to Major Watershed and Bank Service Area maps in MN Rules 8420.0522 Subp. 7.

<sup>&</sup>lt;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 Loconcurring, 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 th 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 <i>Guidelines for Submitting Wetland Delineations in Minnesota</i> (2013). http://www.mvp.usace.army.mil/Missions/Regulatory/DelineationJDGuidance.aspx

# **Appendix**

## Minnetonka Parcel Wetland Services

Wetland Delineation Report

City of Minnetonka, MN May 9, 2022

#### **Submitted by:**

Bolton & Menk, Inc. 12224 Nicollet Drive Burnsville, MN 55337 P: 952-890-0509



Real People. Real Solutions.

## **Table of Contents**

I.	INTRODUCTION	1
II.	WETLAND DELINEATION METHODOLOGY	1
III.	BACKGROUND INFORMATION	2
IV.	CLIMATE DATA	3
V.	FINDINGS	4
VI.	CONCLUSION	5
Table we	TLAND SUMMARY	5
Exhib	its	
MO	NTHLY TEMPERATURE RANGE	3
	TECEDENT PRECIPITATION CONDITIONS	

## **Appendix**

Exhibit A: Site Location Map

Exhibit B: Site Topography – 2 Foot LiDAR Contours

Exhibit C: National Wetlands Inventory Exhibit D: Public Waters Inventory Exhibit E: Hennepin County Soil Survey Exhibit F: Delineated Aquatic Resources Exhibit G: Delineation Data Sheets

#### I. INTRODUCTION

The City of Minnetonka requested a wetland delineation be completed on the following parcels for future platting purposes: 3411722110017 and 3411722110022.

The study area is in the south-central area of Hennepin County, between Baker Rd and Rowland Rd, near Interstate 494. Historical imagery shows that this area had been farmed prior to becoming a homestead in 1946. Also, the imagery shows a historical gravel road that passed through the study area, which aligns with the ravine that was found in the field investigation. Currently, the area is covered mostly in a mix of shrubs and forest and contains two vacant homes.

The project is found in Section 34 in Township 117 North of Range 22 West.

#### II. WETLAND DELINEATION METHODOLOGY

The wetland boundaries were delineated and staked in the field on April 29, 2022, using methods described in the "Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0)". Wetlands identified were classified using "Classification of Wetlands and Deepwater Habitats of the United States (Cowardin, et al., 1979)", "Wetlands of the United States (United States Fish and Wildlife Service Circular No. 39, 1971 edition)" and "Wetland Plants and Plant Communities of Minnesota and Wisconsin" (Eggers and Reed Third Edition). Subsequently, the three mandatory technical criteria for wetland determinations are as follows:

*Hydrophytic Vegetation*. A hydrophytic plant community is present when the dominant plant species present can endure prolonged inundation and/or soil saturation during the growing season. A plant's Wetland Indicator Status is determined using the 2016 National Wetland Plant List for Minnesota, published by the Army Corp of Engineers.

*Hydric Soils*. A hydric soil is defined as a soil that is formed under conditions of saturation, flooding or ponding long enough during the growing season (the portion of the year when there is above ground growth and development of vascular plants and/or soil temperature at 12 inches below the soil surface is above 41 degrees Fahrenheit or higher) to develop anaerobic conditions in the upper part.

**Wetland Hydrology**. An area has wetland hydrology if it experiences 14 or more consecutive days of flooding, ponding or a water table within 12 inches of the surface during the growing season at a minimum frequency of five out of ten years. This is determined by using both primary and secondary Wetland Hydrology indicators.

#### III. BACKGROUND INFORMATION

Prior to conducting a field investigation of this site, Exhibits A through E were used to complete a preliminary evaluation. The data gathered during the preliminary investigation was used as described below:

Exhibit A is a location map of the study area.

*Exhibits B* is an aerial photo with topographic information overlaid on it. This provides information regarding topography of the site, helping to identify areas that may have wetland characteristics.

Exhibit C is the National Wetlands Inventory of the site and surrounding properties. This information is used to complete a preliminary investigation of the wetlands that may or may not exist on the site.

Exhibit D is used to identify waters that are regulated by the DNR. This exhibit shows where there are DNR public waters relative to the site.

*Exhibit E* is the Hennepin County Soil Survey and is used to identify hydric soils that may lie within the study area.

Exhibit F is the site map showing the delineated aquatic resources.

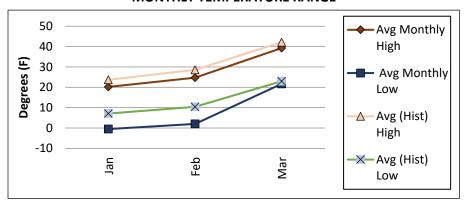
Exhibit G includes the wetland delineation data sheets.

Exhibits F and G were prepared from the information gathered at the site.

#### IV. CLIMATE DATA

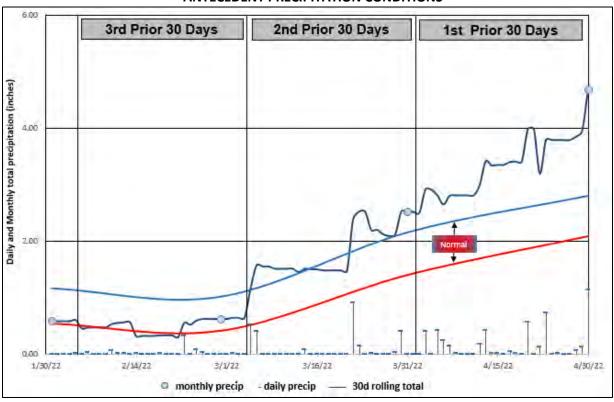
The monthly temperature table below shows the average high and low temperatures for the three months prior to the field delineation, along with the historical averages for these months. For the prior three months, average highs and lows were below the historical norms.

#### **MONTHLY TEMPERATURE RANGE**



Antecedent precipitation was evaluated using a combination of the NRCS Method and the Rolling Totals Method. The analysis found that precipitation totals have been above normal for about two months leading up to the wetland delineation.

#### **ANTECEDENT PRECIPITATION CONDITIONS**



This climatic data was gathered using the Climatology Working Group Website, <a href="http://climate.umn.edu/">http://climate.umn.edu/</a> and the National Weather Service Forecast Office, <a href="http://w2.weather.gov/climate/">http://w2.weather.gov/climate/</a>. The information for the investigation was retrieved from the WETS Station: Hennepin-Minnetonka-Glen Lake (County-Township-City).

#### V. FINDINGS

On April 29, 2022, a field investigation was performed to evaluate and verify the existence and boundary of any aquatic resources located within the proposed study corridor.

The field investigation identified that one wetland is within the study area. Only a small portion of the wetland boundary intersects the study area. Most of the wetland lies outside of the study area but should be noted by the client. The following describes the aquatic resources identified, together with a brief description of wetland type and observations made during the field investigation.

**Wetland 1 (W1):** 

**NWI Cowardin:** PEM1A **PWI (Hydro) ID:** None

Field Observation Circular 39: Type 2/4

Field Observation Eggers and Reed: Fresh Meadow/Deep Marsh

Soil Mapping Unit(s): Kingsley-Gotham complex

Wetland 1 is located on the southeastern edge of the study area. The wetland is bordered by Rowland Rd and the Minnesota River Bluffs LRT Regional Trail to the northeast and southeast edges, respectively.

The field investigation found that W1 has met all three wetland indicators and should be considered a palustrine emergent persistent seasonally saturated wetland (PEM1B) and palustrine emergent semi-permanently flooded (PEMF). One transect, and several sample points were taken to determine the wetland boundary. Soils, hydrology and topography aided in determining the wetland boundary.



Photo point of W1 from upland pit location.

At the wetland pit location, the plant community is dominated by reed canary grass and buckthorn. At the upland pit location, the plant community is dominated by boxelder, buckthorn, and ground ivy. Both plant communities are considered hydrophytic.

Soils at the wetland pit location were dug to a depth of 24-inches. Redox concentrations were present starting at 4-inches below the soil surface and met hydric soil indicators A11 – Depleted Below Dark Surface and F6 – Redox Dark Surface. Soils at the upland pit location were dug to a depth of 28-inches and met hydric soil indicator A12 – Thick Dark Surface.

Soils at the wetland pit location were saturated within 10-inches of the soil surface and the water table was observed at a depth of 12-inches. Soils at the wetland pit location also met secondary hydrology indicators D2 – Geomorphic Position and D5 – FAC Neutral Test. Soils at the upland pit location failed to meet any wetland hydrology indicators.

The determining factor for this delineation was the lack of wetland hydrology at the upland pit location. The boundary was determined by following the topographic breaks and reed canary grass boundary.

#### **Sample Point 1 (SP1):**

**NWI Cowardin:** None **PWI (Hydro) ID:** None

Field Observation Circular 39: Upland Field Observation Eggers and Reed: Upland Soil Mapping Unit(s): Kingsley-Gotham complex

Sample point 1 was taken in a ravine found in the forested area within the study area. The area is likely acting as a drainage feature, conveying stormwater from a neighboring wetland into W1. Historical imagery shows this area was part of a gravel road that connected Baker Rd to Rowland Rd. Vegetation at the SP1 was dominated by buckthorn, therefore hydrophytic vegetation is present. Soils at SP1 were dug to a depth of 24-inches and did not meet any hydric soil indicators. Gravel was observed below 13-inches of soil surface. Soils at SP1 met hydrology indicators B8 – Sparsely vegetated concave surface and D2 – Geomorphic position. The determining factor for this investigation was the lack of hydric soil.



Photo point of SP1

#### VI. CONCLUSION

This delineation was performed on April 29 of 2022. The boundaries of the wetlands were staked in the field with three foot "Wetland Delineation" pin flags. The location of the pin flags was surveyed by Bolton & Menk, Inc. using a Juniper Geode GPS Data Collector and tied to the Hennepin County coordinate system. The delineated limits are believed to be the upper limits of where all three of the required wetland criteria were present.

Bolton & Menk, Inc. was asked to determine the boundaries of those jurisdictional wetlands that exist upon this property as defined by the Wetland Conservation Act.

Based upon all available information, the existing conditions that currently prevail, and the on-site investigation, evidence supports the presence of one wetland within the boundaries of the study corridor.

#### **WETLAND SUMMARY**

Id#	Wetland Type^	Size*
W1	Type 2	0.23 Sqft

\*size measured within study area.

^wetland type within study area

Sincerely,

**BOLTON & MENK, INC.** 

Brandon Bohks

Certified Wetland Delineator, No. 1341

Prepared by: Bolton & Menk, Inc.

Minnetonka Parcel Wetland Services | 0T6.127399

## **APPENDIX**

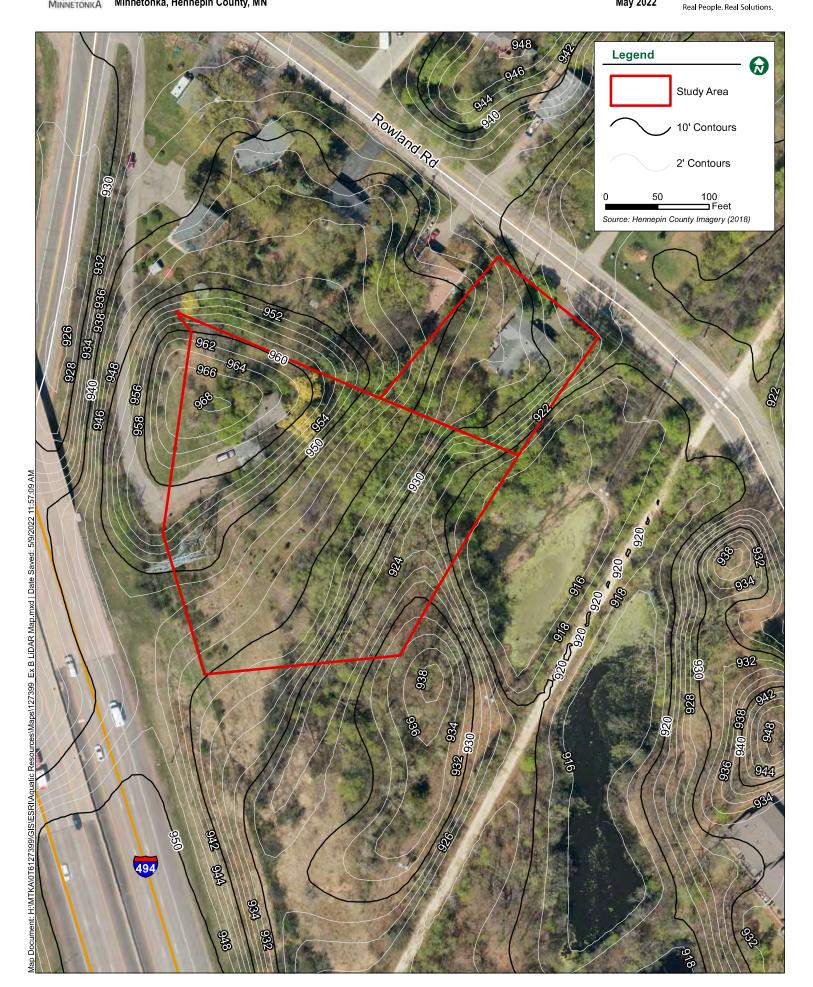


Real People. Real Solutions.







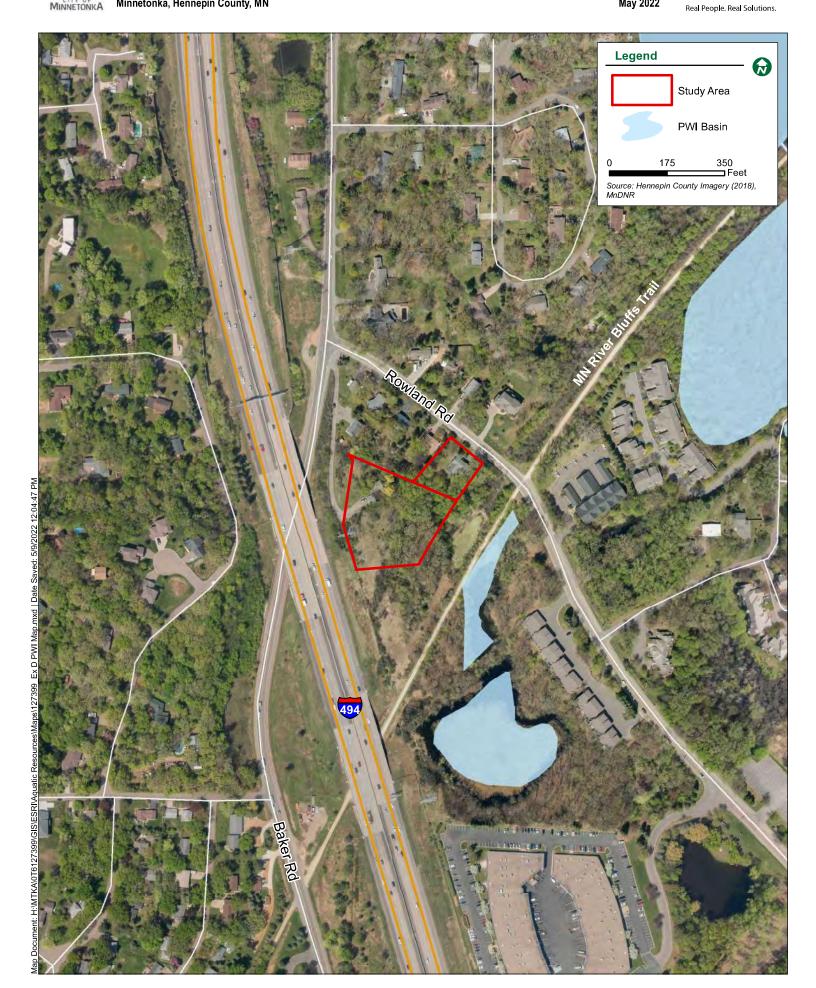












MINNETONKA

BOLTON & MENK

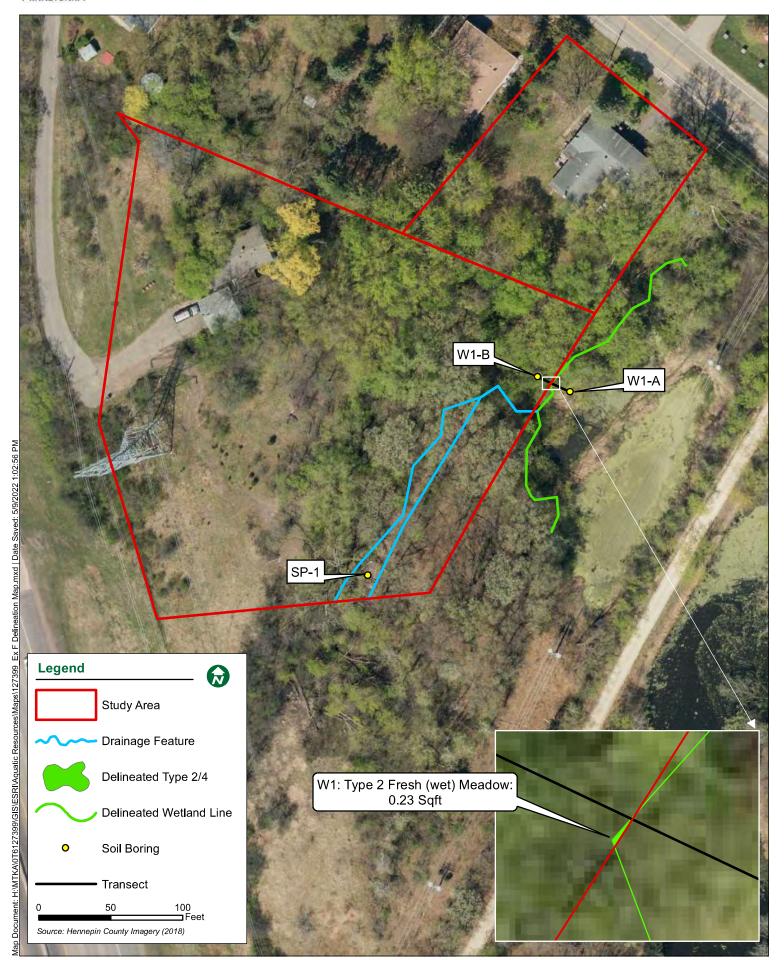




& MENK

Real People. Real Solutions.

Minnetonka, Hennepin County, MN



## EXHIBIT G:

## WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: MTKA Parcel Investig	ation	(	City/County:	Minneton	ka/ Hennepin County Sampling Date: 2022-04-29
Applicant/Owner: Minnetonka					State: Minnesota Sampling Point: W1-A
Investigator(s): Brandon Bohks, Ma	<u>ideline Mau</u>	rer	Section, Tov	vnship, Ran	ge: <u>sec 34 T117N R022W</u>
Landform (hillslope, terrace, etc.): Depr	ession		L	ocal relief (	concave, convex, none): <u>Concave</u>
Slope (%): <u>0-2</u> Lat: <u>44.9042</u>	29		Long: <u>-93.</u> 4	146669	Datum: WGS84
					NWI classification:
Are climatic / hydrologic conditions on the	•	•	•		
					Normal Circumstances" present? Yes No
Are Vegetation, Soil, or H					eded, explain any answers in Remarks.)
					ocations, transects, important features, etc.
Hydrophytic Vegetation Present?	Vas 🗸	No			
Hydric Soil Present?		No		Sampled A	
Wetland Hydrology Present?		No	withi	n a Wetland	d? Yes <u>√</u> No
Remarks:					
VEGETATION – Use scientific na	ames of pla	nts.			
		Absolute			Dominance Test worksheet:
Tree Stratum (Plot size:301		·	Species?		Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2					Total Number of Dominant
3					Species Across All Strata: 2 (B)
4					Percent of Dominant Species
5					That Are OBL, FACW, or FAC: 100.00 (A/B)
Sapling/Shrub Stratum (Plot size:	15	,	= Total Cov	er	Prevalence Index worksheet:
1. Rhamnus cathartica			Υ	FAC	Total % Cover of: Multiply by:
2					OBL species 0.00 x 1 = 0.00
3.					FACW species 100.00 x 2 = 200.00
4.					FAC species 30.00 x 3 = 90.00
5					FACU species <u>0.00</u> x 4 = <u>0.00</u>
			= Total Cov	er	UPL species <u>0.00</u> x 5 = <u>0.00</u>
Herb Stratum (Plot size: 5		400		E 4 6)4/	Column Totals: <u>130.00</u> (A) <u>290.00</u> (B)
1. Phalaris arundinacea					Prevalence Index = B/A = 2.23
2					Hydrophytic Vegetation Indicators:
3					Rapid Test for Hydrophytic Vegetation
4					✓ 2 - Dominance Test is >50%
5 6					✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
7					4 - Morphological Adaptations <sup>1</sup> (Provide supporting
8.					data in Remarks or on a separate sheet)
9					— Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
10					
Woody Vine Stratum (Plot size:			= Total Cov	er	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1					Hydrophytic
2					Vegetation
			= Total Cov	er	Present? Yes <u>✓</u> No
Remarks: (Include photo numbers here	e or on a separ				

SOIL Sampling Point: W1-A

Profile Descrip	ption: (D	escribe t	o the der	ath needed						
			io tilo dop	Jui needed				or contirm	tne absence	e or indicators.)
	Color (r	Matrix	%	Color (n		<u>x Feature</u> %	s Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
(inches)	10YR	3/1	100	<u> </u>	iloist)		туре	LOC	SICL	Remarks
				7.FD						Draminant raday Craval mat
	<u>10YR</u>	3/1	70	<u>7.5R</u>	5/8	30	. <u>C</u>	<u> </u>	SICL	Prominent redox. Gravel mat
<u>8-13</u> _	<u>10YR</u>	5/2	<u>85</u>	<u>7.5YR</u>	5/8	<u> 15</u>	<u> </u>	<u> PL</u>	LS	Prominent redox.
<u>13-24</u> _	<u>10YR</u>	5/2	60	<u>7.5YR</u>	5/8	40	C		LS	Prominent redox.
<sup>1</sup> Type: C=Con	centration	D=Depl	etion RM	=Reduced N		S=Masked	Sand Gra	ins	<sup>2</sup> l o	ocation: PL=Pore Lining, M=Matrix.
Hydric Soil Inc		., <u> </u>								s for Problematic Hydric Soils <sup>3</sup> :
Histosol (A	<b>A</b> 1)				Sandy G	Sleyed Ma	atrix (S4)		Coast	t Prairie Redox (A16)
Histic Epip		)		_	Sandy F	Redox (S5	)		— Dark	Surface (S7)
Black Histi				_		Matrix (S	,			//anganese Masses (F12)
Hydrogen Stratified L		-				Mucky Mir Gleyed Ma				Shallow Dark Surface (TF12)
2 cm Muck		,,		_		d Matrix (				(Explain in Remarks)
Depleted E		k Surface	e (A11)			Dark Surfa				,
Thick Dark				_	Deplete	d Dark Տւ	ırface (F7)			s of hydrophytic vegetation and
Sandy Mud	-				Redox D	Depressio	ns (F8)			nd hydrology must be present,
5 cm Muck			3)						unles:	s disturbed or problematic.
	-	-								
Type: Depth (inch				<del></del>					Hydria Sai	I Present? Yes <u>✓</u> No
Remarks:	es)								nyunc 301	TPTESEILL! TES NO
ixemarks.										
HADBOI OC.	v									
HYDROLOG		li a da ua v								
Wetland Hydro	ology Ind		no lo roqui	iradi abaak a	all that an	sh/)			Second	lary Indicators (minimum of two required)
Wetland Hydro	ology Ind	num of o	ne is requi				oo (P0)			lary Indicators (minimum of two required)
Wetland Hydro Primary Indicat Surface W	ology Ind tors (minir /ater (A1)	mum of oı	ne is requi	v	/ater-Stai	ned Leav	` '		Sui	rface Soil Cracks (B6)
Wetland Hydro Primary Indicat Surface W High Wate	ology Ind tors (minir /ater (A1) er Table ( <i>P</i>	mum of oı	ne is requi	v	/ater-Stai .quatic Fa	ned Leav una (B13	)		Sui	rface Soil Cracks (B6) ainage Patterns (B10)
Wetland Hydro Primary Indicat Surface W High Wate Saturation	ology Ind tors (minir /ater (A1) er Table (A	mum of oı	ne is requi	^_ A T	Vater-Stai quatic Fa rue Aqua	ned Leav una (B13 tic Plants	) (B14)		Sui Dra Dry	rface Soil Cracks (B6) ainage Patterns (B10) r-Season Water Table (C2)
Wetland Hydro Primary Indicat Surface W High Wate	ology Ind tors (minin /ater (A1) er Table (A (A3) rks (B1)	num of oi	ne is requi	W A T H	Vater-Stai quatic Fa rue Aqua lydrogen :	ned Leav iuna (B13 tic Plants Sulfide O	) (B14)	ng Roots (	Sui Dra Dry Cra	rface Soil Cracks (B6) ainage Patterns (B10)
Wetland Hydro Primary Indicat Surface W High Wate Saturation Water Mar	ology Inditors (mining/ater (A1)) or Table (A1) or Ks (B1) Deposits (A1)	num of oi	ne is requi	W A T H C	Vater-Stai quatic Fa rue Aqua lydrogen : oxidized R	ned Leav una (B13 tic Plants Sulfide Oo Rhizosphe	) (B14) dor (C1)	-	Sui Dra Cra Cra (C3) Sai	rface Soil Cracks (B6) ainage Patterns (B10) r-Season Water Table (C2) ayfish Burrows (C8)
Wetland Hydro Primary Indicat Surface W High Wate Saturation Water Mar Sediment I	ology Ind tors (minin /ater (A1) er Table (A (A3) rks (B1) Deposits ( sits (B3)	mum of oi (A2)	ne is requi	W A T H C	Vater-Stai quatic Fa rue Aqua lydrogen s exidized R resence c	ned Leav una (B13 tic Plants Sulfide O Rhizosphe of Reduce	) (B14) dor (C1) res on Livi	)	Sur Dra Cra Cra (C3) Sat Stu	rface Soil Cracks (B6) ainage Patterns (B10) r-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9)
Wetland Hydro Primary Indicat  Surface W  High Wate  Saturation  Water Mar  Sediment I  Drift Depos	ology Ind tors (minir /ater (A1) er Table (A (A3) rks (B1) Deposits ( sits (B3) or Crust (I	mum of oi (A2)	ne is requi	W A T H C P R	Vater-Stai quatic Fa rue Aqua lydrogen Oxidized R resence of decent Iro	ned Leav una (B13 tic Plants Sulfide O Rhizosphe of Reduce	) (B14) dor (C1) res on Livi ed Iron (C4 on in Tilled	)	Sun Dra Dry Cra Sat Stu Ge	rface Soil Cracks (B6) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1)
Wetland Hydro Primary Indicat  Surface W  High Wate  Saturation Water Mar  Sediment I  Drift Depos  Algal Mat o  Iron Depos	ology Ind tors (minir /ater (A1) er Table (A (A3) rks (B1) Deposits (B3) or Crust (I sits (B5)	num of oi (82) (84) n Aerial Ir	magery (B	W A T P R T	Vater-Stai quatic Fa rue Aqua lydrogen : exidized R resence o ecent Iro hin Muck sauge or \	ned Leav iuna (B13 tic Plants Sulfide Od Rhizosphe of Reducti n Reducti Surface ( Well Data	(B14) (B14) dor (C1) res on Livin ed Iron (C4 on in Tilled (C7) (D9)	)	Sun Dra Dry Cra Sat Stu Ge	rface Soil Cracks (B6) ainage Patterns (B10)  /-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) anted or Stressed Plants (D1) comorphic Position (D2)
Wetland Hydro Primary Indicat Surface W High Wate Saturation Water Mar Sediment I Drift Depos Algal Mat o Iron Depos Inundation Sparsely V	tors (minir /ater (A1) er Table (A (A3) rks (B1) Deposits ( sits (B3) or Crust (I sits (B5) n Visible or /egetated	num of oi (82) (84) n Aerial Ir	magery (B	W A T P R T	Vater-Stai quatic Fa rue Aqua lydrogen : exidized R resence o ecent Iro hin Muck sauge or \	ned Leav iuna (B13 tic Plants Sulfide Oo Rhizosphe of Reducti Surface (	(B14) (B14) dor (C1) res on Livin ed Iron (C4 on in Tilled (C7) (D9)	)	Sun Dra Dry Cra Sat Stu Ge	rface Soil Cracks (B6) ainage Patterns (B10)  /-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) anted or Stressed Plants (D1) comorphic Position (D2)
Wetland Hydro Primary Indicat  Surface W High Wate Saturation Water Mar Sediment I Drift Depos Algal Mat o Iron Depos Inundation Sparsely V Field Observa	ology Ind tors (minir /ater (A1) er Table (A (A3) rks (B1) Deposits (B3) or Crust (B3) or Crust (B5) or Visible of /egetated	Mum of or (B2) (B4) n Aerial Ir Concave	magery (B s Surface (	W A T C P R T 37) G (B8) C	Vater-Stai quatic Fa rue Aqua lydrogen s exidized R resence o ecent Iro hin Muck Gauge or \ other (Exp	ned Leav Juna (B13 tic Plants Sulfide Oo Rhizosphe of Reduce n Reducti Surface ( Well Data	(B14) (B14) dor (C1) res on Livin ed Iron (C4 on in Tilled (C7) (D9)	)	Sun Dra Dry Cra Sat Stu Ge	rface Soil Cracks (B6) ainage Patterns (B10)  /-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) anted or Stressed Plants (D1) comorphic Position (D2)
Wetland Hydro Primary Indicat  Surface W  High Wate  Saturation Water Mar  Sediment I  Drift Depose Iron Depose Inundation Sparsely ∨  Field Observa  Surface Water	ology Ind tors (minir /ater (A1) er Table (A (A3) rks (B1) Deposits (B3) or Crust (I sits (B5) a Visible of /egetated ations:	mum of or (B2) (B4) n Aerial Ir Concave	magery (B Surface (	W A T H C P R T T G(B8) C	Vater-Stai quatic Fa rue Aqua lydrogen s exidized R resence o eccent Iro hin Muck Gauge or \ other (Exp	ned Leav una (B13 tic Plants Sulfide Oc Rhizosphe of Reduce n Reducti Surface ( Well Data blain in Re	(B14) (B14) dor (C1) res on Livi ed Iron (C4 on in Tilled (C7) (D9) emarks)	)	Sun Dra Dry Cra Sat Stu Ge	rface Soil Cracks (B6) ainage Patterns (B10)  /-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) anted or Stressed Plants (D1) comorphic Position (D2)
Wetland Hydro Primary Indicat Surface W High Wate Saturation Water Mar Sediment I Drift Depos Iron Depos Inundation Sparsely V Field Observa Surface Water	resent?	mum of or (B2)  34)  n Aerial Ir Concave	magery (B Surface ( es es	W A T H C P R T 37) G (B8) C	Vater-Stai quatic Fa rue Aqua lydrogen s exidized R resence of eccent Iron hin Muck Gauge or N Other (Exp	ned Leav una (B13 tic Plants Sulfide Oc Rhizosphe of Reduce n Reducti Surface ( Well Data blain in Re ches): ches):	(B14) (B14) dor (C1) res on Living diron (C4) on in Tilled (C7) (D9) emarks)	) I Soils (C6	Sui Dry Cra Stu Stu Ge FA	rface Soil Cracks (B6) ainage Patterns (B10) v-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) anted or Stressed Plants (D1) omorphic Position (D2) C-Neutral Test (D5)
Wetland Hydro Primary Indicat Surface W High Wate Saturation Water Mar Sediment I Drift Depos Algal Mat o Iron Depos Inundation Sparsely W Field Observa Surface Water Water Table Pr Saturation Pres	rology Inditors (mining vater (A1))  For Table (A1)  For Ks (B1)  Deposits (B3)  For Crust (B5)  For Visible of Vegetated vations:  Present?  Fresent?	mum of or (B2)  34)  n Aerial Ir Concave  Ye Ye	magery (B Surface ( es es	W A T H C P R T T G(B8) C	Vater-Stai quatic Fa rue Aqua lydrogen s exidized R resence of eccent Iron hin Muck Gauge or N Other (Exp	ned Leav una (B13 tic Plants Sulfide Oc Rhizosphe of Reduce n Reducti Surface ( Well Data blain in Re ches): ches):	(B14) (B14) dor (C1) res on Living diron (C4) on in Tilled (C7) (D9) emarks)	) I Soils (C6	Sui Dry Cra Stu Stu Ge FA	rface Soil Cracks (B6) ainage Patterns (B10)  /-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) anted or Stressed Plants (D1) comorphic Position (D2)
Wetland Hydro Primary Indicat Surface W High Wate Saturation Water Mar Sediment I Drift Depos Iron Depos Inundation Sparsely V Field Observa Surface Water Water Table Pr	ology Inditors (mining later (A1) are Table (A1) are Table (A2) are (B3) are Crust (B3) are Crust (B5) are Visible of Ations:  Present?  It is the control of the control o	mum of or  (B2)  34)  Concave  Ye  Ye  Ye  Ye	magery (B Surface ( es es/ es/	W A T H C P R T T G (B8) C C No [ No No [ No [ No [ No No No	Vater-Stai quatic Fa rue Aqua lydrogen s exidized R resence of ecent Iron hin Muck Bauge or N Other (Exp Depth (ind Depth (ind	ned Leavena (B13 tic Plants Sulfide October Reduction Re	(B14) (B14) dor (C1) res on Living Iron (C4) on in Tilled (C7) (D9) emarks)  12 10	) I Soils (C6	Sun  Dra  Dry  Cra  CS)  Stu  FA	rface Soil Cracks (B6) ainage Patterns (B10) v-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) anted or Stressed Plants (D1) omorphic Position (D2) C-Neutral Test (D5)
Wetland Hydro Primary Indicat  Surface W ✓ High Wate ✓ Saturation — Water Mar — Sediment I — Drift Depos — Inundation — Sparsely V  Field Observa  Surface Water Water Table Pr Saturation Pres (includes capill	ology Inditors (mining later (A1) are Table (A1) are Table (A2) are (B3) are Crust (B3) are Crust (B5) are Visible of Ations:  Present?  It is the control of the control o	mum of or  (B2)  34)  Concave  Ye  Ye  Ye  Ye	magery (B Surface ( es es/ es/	W A T H C P R T T G (B8) C C No [ No No [ No [ No [ No No No	Vater-Stai quatic Fa rue Aqua lydrogen s exidized R resence of ecent Iron hin Muck Bauge or N Other (Exp Depth (ind Depth (ind	ned Leavena (B13 tic Plants Sulfide October Reduction Re	(B14) (B14) dor (C1) res on Living Iron (C4) on in Tilled (C7) (D9) emarks)  12 10	) I Soils (C6	Sun  Dra  Dry  Cra  CS)  Stu  FA	rface Soil Cracks (B6) ainage Patterns (B10) v-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) anted or Stressed Plants (D1) omorphic Position (D2) C-Neutral Test (D5)
Wetland Hydro Primary Indicat  Surface W ✓ High Wate ✓ Saturation — Water Mar — Sediment I — Drift Depos — Inundation — Sparsely V  Field Observa  Surface Water Water Table Pr Saturation Pres (includes capill	ology Inditors (mining later (A1) are Table (A1) are Table (A2) are (B3) are Crust (B3) are Crust (B5) are Visible of Ations:  Present?  It is the control of the control o	mum of or  (B2)  34)  Concave  Ye  Ye  Ye  Ye	magery (B Surface ( es es/ es/	W A T H C P R T T G (B8) C C No [ No No [ No [ No [ No No No	Vater-Stai quatic Fa rue Aqua lydrogen s exidized R resence of ecent Iron hin Muck Bauge or N Other (Exp Depth (ind Depth (ind	ned Leavena (B13 tic Plants Sulfide October Reduction Re	(B14) (B14) dor (C1) res on Living Iron (C4) on in Tilled (C7) (D9) emarks)  12 10	) I Soils (C6	Sun  Dra  Dry  Cra  CS)  Stu  FA	rface Soil Cracks (B6) ainage Patterns (B10) v-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) anted or Stressed Plants (D1) omorphic Position (D2) C-Neutral Test (D5)
Wetland Hydro Primary Indicat  Surface W  High Wate  Saturation  Water Mar  Sediment I  Drift Depos  Algal Mat o  Iron Depos  Inundation  Sparsely V  Field Observa  Surface Water Water Table Pr  Saturation Pres (includes capill  Describe Recon	ology Inditors (mining later (A1) are Table (A1) are Table (A2) are (B3) are Crust (B3) are Crust (B5) are Visible of Ations:  Present?  It is the control of the control o	mum of or  (B2)  34)  Concave  Ye  Ye  Ye  Ye	magery (B Surface ( es es/ es/	W A T H C P R T T G (B8) C C No [ No No [ No [ No [ No No No	Vater-Stai quatic Fa rue Aqua lydrogen s exidized R resence of ecent Iron hin Muck Bauge or N Other (Exp Depth (ind Depth (ind	ned Leavena (B13 tic Plants Sulfide October Reduction Re	(B14) (B14) dor (C1) res on Living Iron (C4) on in Tilled (C7) (D9) emarks)  12 10	) I Soils (C6	Sun  Dra  Dry  Cra  CS)  Stu  FA	rface Soil Cracks (B6) ainage Patterns (B10) v-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) anted or Stressed Plants (D1) omorphic Position (D2) C-Neutral Test (D5)
Wetland Hydro Primary Indicat Surface W High Wate Saturation Water Mar Sediment I Drift Depos Algal Mat o Iron Depos Inundation Sparsely V Field Observa Surface Water Water Table Pr Saturation Pres (includes capill Describe Recon	ology Inditors (mining later (A1) are Table (A1) are Table (A2) are (B3) are Crust (B3) are Crust (B5) are Visible of Ations:  Present?  It is the control of the control o	mum of or  (B2)  34)  Concave  Ye  Ye  Ye  Ye	magery (B Surface ( es es/ es/	W A T H C P R T T G (B8) C C No [ No No [ No [ No [ No No No	Vater-Stai quatic Fa rue Aqua lydrogen s exidized R resence of ecent Iron hin Muck Bauge or N Other (Exp Depth (ind Depth (ind	ned Leavena (B13 tic Plants Sulfide October Reduction Re	(B14) (B14) dor (C1) res on Living Iron (C4) on in Tilled (C7) (D9) emarks)  12 10	) I Soils (C6	Sun  Dra  Dry  Cra  CS)  Stu  FA	rface Soil Cracks (B6) ainage Patterns (B10) v-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) anted or Stressed Plants (D1) omorphic Position (D2) C-Neutral Test (D5)

## EXHIBIT G: WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: MTKA Parcel Investigation		City/Co	ounty:	Minnetor	nka/ Hennepin County Sampling Date: 2022-04-29
Applicant/Owner: Minnetonka					State: Minnesota Sampling Point: W1-B
Investigator(s): Brandon Bohks, Madeline Maure	<u>r</u>	Section	n, Tow	nship, Ra	nge: <u>sec 34 T117N R022W</u>
Landform (hillslope, terrace, etc.): Backslope					
Slope (%): 8-15 Lat: 44.904229					·
					NWI classification:
Are climatic / hydrologic conditions on the site typical for the	•		•		
Are Vegetation, Soil, or Hydrology					'Normal Circumstances" present? Yes ✓ No
Are Vegetation, Soil, or Hydrology					eeded, explain any answers in Remarks.)
					ocations, transects, important features, etc.
			93	, po	
Hydrophytic Vegetation Present? Yes   ✓ Hydric Soil Present? Yes   ✓				Sampled	
Wetland Hydrology Present? Yes			withi	า a Wetlar	nd? Yes No <u>✓</u>
Remarks:					
VEGETATION					
<b>VEGETATION</b> – Use scientific names of plants	Absolute	Domi	inant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Spec	cies?	Status	Number of Dominant Species
1. Acer negundo					That Are OBL, FACW, or FAC: 2 (A)
2					Total Number of Dominant Species Across All Strata:3 (B)
4					Percent of Dominant Species
5					That Are OBL, FACW, or FAC: 66.67 (A/B)
Sapling/Shrub Stratum (Plot size:15)	35	= Tota	al Cove	er	Prevalence Index worksheet:
1. Rhamnus cathartica	10	Υ	/	FAC	Total % Cover of: Multiply by:
2					OBL species 0.00 x 1 = 0.00
3.					FACW species 3.00 x 2 = 6.00
4					FAC species <u>48.00</u> x 3 = <u>144.00</u>
5					FACU species 30.00 x 4 = 120.00
Herb Stratum (Plot size:5)	10	= Tota	al Cove	er	UPL species <u>5.00</u> x 5 = <u>25.00</u>
1. Glechoma hederacea	30	V	,	FACU	Column Totals: <u>86.00</u> (A) <u>295.00</u> (B)
2. Leonurus cardiaca		<u>_</u>		UPL	Prevalence Index = B/A = 3.43
3. Phalaris arundinacea				FACW	Hydrophytic Vegetation Indicators:
4. Alliaria petiolata	_ 3	N	<u> </u>	FAC	1 - Rapid Test for Hydrophytic Vegetation
5					✓ 2 - Dominance Test is >50%
6					3 - Prevalence Index is ≤3.0 <sup>1</sup>
7					4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
8					Problematic Hydrophytic Vegetation¹ (Explain)
9					Troblematic Trydrophytic Vegetation (Explain)
10				er	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1					Hadas abodis
2					Hydrophytic Vegetation
				\r	Present? Yes No
Remarks: (Include photo numbers here or on a separate		= Tota	ai COVE	žI	
, ,	,				

SOIL Sampling Point: W1-B

Profile Desc	, inpuloii. (D	000.100 .	o the dep							
Depth (inches)	Color (r	Matrix	%	Color (r		<u>x Feature</u> %	s Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
	-			COIOI (I	iioist)		_туре	LUC		Nemarks
0-20	<u>10YR</u>	3/1	<u>100</u>			· <del></del>			LS	· <del></del>
20-28	<u>10YR</u>	4/2	90	7.5YR	4/6	10		M	LS	Prominent redox.
Hydric Soil Histosol Histic El Black Hi Hydroge Stratified 2 cm Mu Depleted Thick Da Sandy N 5 cm Mu	Indicators:  (A1) pipedon (A2 istic (A3) en Sulfide (A d Layers (A5 uck (A10) d Below Dar ark Surface Mucky Miner	A4)  75)  rk Surface (A12) ral (S1)  Peat (S3	e (A11)	I=Reduced M	Sandy C Sandy F Stripped Loamy I Loamy C Deplete Redox I Deplete	Gleyed Ma Redox (S5 d Matrix (S Mucky Mir Gleyed Ma d Matrix ( Dark Surfa	atrix (S4) 66) neral (F1) atrix (F2) F3) ace (F6) urface (F7)	ins.	Indicators  Coasi  Iron-N  Very S  Other	ocation: PL=Pore Lining, M=Matrix. s for Problematic Hydric Soils <sup>3</sup> : t Prairie Redox (A16) Surface (S7) Manganese Masses (F12) Shallow Dark Surface (TF12) (Explain in Remarks) rs of hydrophytic vegetation and and hydrology must be present, s disturbed or problematic.
Type: Depth (in	Layer (if ob	-							Hydric Soi	il Present? Yes <u> </u>
	ches):								Hydric Soi	il Present? Yes <u> </u>
Type:	ches):	licators:			all that ap	ply)				il Present? Yes No
Type: Depth (in Remarks:  YDROLO Wetland Hy Primary India	ches):	licators:		ired; check		ply) ined Leav	es (B9)		Second	
Type: Depth (in Remarks:  YDROLO Wetland Hy Primary Indid Surface	ches):	licators:		ired; check : V	Vater-Stai		` '		Second	lary Indicators (minimum of two require
Type: Depth (in Remarks:  YDROLO Wetland Hy Primary Indid Surface	eGY drology Indicators (mining Water (A1) atter Table (A1)	licators:		ired; check : V A	Vater-Stai quatic Fa	ned Leav	)		Second Sui	lary Indicators (minimum of two required
Type: Depth (in Remarks:  YDROLO Wetland Hy Primary India Surface High Wa Saturation	drology Indicators (mining Water (A1) ater Table (A) on (A3)	licators:		ired; check : V A T	Vater-Stai quatic Fa rue Aqua	ined Leav iuna (B13	) (B14)		Second Sui	lary Indicators (minimum of two required rface Soil Cracks (B6) ainage Patterns (B10)
Type: Depth (in Remarks:  YDROLO  Wetland Hy Primary India Surface High Wa Saturatia Water M	drology Indicators (mining Water (A1) atter Table (A) on (A3) darks (B1)	licators: mum of or		ired; check : V A T F	Vater-Stai Aquatic Fa True Aqua Iydrogen	ined Leav iuna (B13 tic Plants Sulfide O	) (B14)	ng Roots (	Second Sui Dra Dry Cra C3) Sat	lary Indicators (minimum of two required rface Soil Cracks (B6) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9)
Type: Depth (in Remarks:  YDROLO  Wetland Hy Primary India Surface High Wa Saturatia Water W Sedimer	drology Indicators (minimum Water (A1) ater Table (A) on (A3) Marks (B1) on Deposits	licators: mum of or		ired; check : V A T H	Vater-Stai quatic Fa rue Aqua lydrogen Oxidized F	ined Leav iuna (B13 tic Plants Sulfide Oo Rhizosphe	) (B14) dor (C1)	-	Second Sui Dra Dry Cra C3) Sat	lary Indicators (minimum of two required rface Soil Cracks (B6) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8)
Type: Depth (in Remarks:  YDROLO Wetland Hy Primary Indic Surface High Wa Saturatic Water M Sedimei Drift Dep	drology Indicators (mining Water (A1) ater Table (A) flarks (B1) and Deposits (posits (B3)	licators: mum of or A2)		ired; check : V F C F	Vater-Stai quatic Fa rue Aqua lydrogen Oxidized F Presence	ined Leav luna (B13 tic Plants Sulfide O Rhizosphe of Reduce	) (B14) dor (C1) res on Livi	)	Second Sui Dra Cra Cra C3) Sat	lary Indicators (minimum of two required rface Soil Cracks (B6) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9)
Type: Depth (in: Remarks:  YDROLO Wetland Hy Primary India Surface High Wa Saturati Water M Sedimei Drift Dep Algal Ma	drology Indicators (mining Water (A1) ater Table (A) fon (A3) flarks (B1) at Deposits (B3) at or Crust (I	licators: mum of or A2)		ired; check : V F C	Vater-Stai quatic Fa rue Aqua lydrogen Oxidized F Presence ( Recent Iro	ined Leav luna (B13 tic Plants Sulfide O Rhizosphe of Reduce	) (B14) dor (C1) res on Livi ed Iron (C4 on in Tilled	)	Second Sui Dra Dry Cra C3) Sati Stu ) Ge	lary Indicators (minimum of two required rface Soil Cracks (B6) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1)
Type: Depth (in: Remarks:  YDROLO Wetland Hy Primary India Surface High Wa Saturatia Water M Sedimen Drift Dep Algal Ma Iron Dep Inundati	drology Indicators (minimater Table (A) on (A3) Marks (B1) on the Deposits (B3) at or Crust (I) cosits (B5) on Visible o	licators: mum of or A2) (B2) B4)	ne is requ	ired; check; V A T G F F T	Vater-Stai quatic Fa rue Aqua lydrogen Oxidized F Presence Recent Iro Thin Muck	ined Leav luna (B13 tic Plants Sulfide Oo Rhizosphe of Reduce n Reducti	) (B14) dor (C1) res on Livi ed Iron (C4 on in Tilled	)	Second Sui Dra Dry Cra C3) Sati Stu ) Ge	lary Indicators (minimum of two required face Soil Cracks (B6) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1) comorphic Position (D2)
Type: Depth (in Remarks:  YDROLO  Vetland Hy Primary India Surface High Wa Saturatia Water M Sedimel Drift Dep Algal Ma Iron Dep Inundati	drology Indicators (minimater Table (A) on (A3) Marks (B1) on the Deposits (B3) at or Crust (I) cosits (B5) on Visible o	licators: mum of or A2) (B2) B4)	ne is requ	ired; check; V A T G F F T	Vater-Stai Aquatic Fa True Aqua Hydrogen Oxidized F Presence ( Recent Iro Thin Muck Gauge or N	ined Leav iuna (B13 tic Plants Sulfide Oo Rhizosphe of Reducti Surface (	(B14) (B14) dor (C1) res on Livin ed Iron (C4 on in Tilled (C7) (D9)	)	Second Sui Dra Dry Cra C3) Sati Stu ) Ge	lary Indicators (minimum of two required face Soil Cracks (B6) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1) comorphic Position (D2)
Type: Depth (in: Remarks:  YDROLO Wetland Hy Primary India Surface High Wa Saturatia Water M Sedimer Drift Dep Algal Ma Iron Dep Inundati Sparsely	drology Indicators (minimater Table (Aon (A3)) Marks (B1) Int Deposits (B3) Int or Crust (Inter	licators: mum of or A2) (B2) B4)	ne is requ	ired; check; V A T G F F T	Vater-Stai Aquatic Fa True Aqua Hydrogen Oxidized F Presence ( Recent Iro Thin Muck Gauge or N	ined Leav iuna (B13 tic Plants Sulfide Or Rhizosphe of Reducti n Reducti Surface ( Well Data	(B14) (B14) dor (C1) res on Livin ed Iron (C4 on in Tilled (C7) (D9)	)	Second Sui Dra Dry Cra C3) Sati Stu ) Ge	lary Indicators (minimum of two required face Soil Cracks (B6) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1) comorphic Position (D2)
Type: Depth (in: Remarks:  YDROLO Wetland Hy Primary India Surface High Wa Saturatia Water M Sedimer Drift Dep Algal Ma Iron Dep Inundati Sparsely	drology Indicators (mining Water (A1) atter Table (And Inter Deposits (B3) at or Crust (Boosits (B5) and Visible on Visib	licators: mum of or (B2) (B2) B4) n Aerial Ir Concave	ne is requ magery (B Surface (	ired; check; V A T G F F T	Vater-Stai Aquatic Fa True Aqua Hydrogen Dxidized Fa Presence of Recent Iro Chin Muck Gauge or V	ined Leav iuna (B13 tic Plants Sulfide Oo Rhizosphe of Reduce n Reducti Surface ( Well Data blain in Re	(B14) (B14) dor (C1) res on Livired Iron (C4 on in Tilled (C7) (D9) emarks)	)   Soils (C6	Second Sui Dra Dry Cra C3) Sati Stu ) Ge	lary Indicators (minimum of two required face Soil Cracks (B6) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1) comorphic Position (D2)
Type:	ches):	dicators: mum of or A2) (B2) B4) n Aerial Ir Concave	magery (B Surface (	ired; check : V	Vater-Stai Aquatic Factoria Aydrogen Oxidized Foresence of Recent Iro Chin Muck Gauge or Vother (Exp	ined Leaviuna (B13 tic Plants Sulfide Oc Rhizosphe of Reduce n Reducti Surface ( Well Data blain in Re	(B14) (B14) dor (C1) res on Livi ed Iron (C4 on in Tilled (C7) (D9) emarks)	)   Soils (C6	Second Sui Dra Dry Cra C3) Sati Stu ) Ge	lary Indicators (minimum of two required face Soil Cracks (B6) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1) comorphic Position (D2)
Type:	ches):	licators: mum of or A2)  (B2)  B4)  n Aerial Ir Concave  Ye Ye	magery (B Surface (	ired; check :  V A T F F T 37) G (B8) C No V	Vater-Stain valuatic Factor of the Aquatic F	ined Leavaluna (B13 tic Plants Sulfide October Reduce of Reduce on Reducti Surface (Well Datablain in Reducti Ches):ches):ches):ches):ches):ches	(B14) (B14) dor (C1) res on Living Iron (C4) on in Tilled (C7) (D9) emarks)	)   Soils (C6	Second  Sui Dra Dry Cra C3) Sai Stu FA	lary Indicators (minimum of two required face Soil Cracks (B6) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1) comorphic Position (D2)
Type: Depth (in: Remarks:  YDROLO Wetland Hy Primary India Surface High Wa Saturation	ches):	licators: mum of or A2)  (B2)  B4)  n Aerial Ir Concave  Ye Ye	magery (B Surface (	ired; check :  V A T F F T 37) G (B8) C No V	Vater-Stain valuatic Factor of the Aquatic F	ined Leavaluna (B13 tic Plants Sulfide October Reduce of Reduce on Reducti Surface (Well Datablain in Reducti Ches):ches):ches):ches):ches):ches	(B14) (B14) dor (C1) res on Living Iron (C4) on in Tilled (C7) (D9) emarks)	)   Soils (C6	Second  Sui Dra Dry Cra C3) Sai Stu FA	lary Indicators (minimum of two required rface Soil Cracks (B6) painage Patterns (B10) person Water Table (C2) payfish Burrows (C8) turation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1) comorphic Position (D2) C-Neutral Test (D5)
Type:	ches):	licators: mum of or A2)  (B2)  B4)  n Aerial Ir Concave  Ye Ye	magery (B Surface (	ired; check :  V A T F F T 37) G (B8) C No V	Vater-Stain valuatic Factor of the Aquatic F	ined Leavaluna (B13 tic Plants Sulfide October Reduce of Reduce on Reducti Surface (Well Datablain in Reducti Ches):ches):ches):ches):ches):ches	(B14) (B14) dor (C1) res on Living Iron (C4) on in Tilled (C7) (D9) emarks)	)   Soils (C6	Second  Sui Dra Dry Cra C3) Sai Stu FA	lary Indicators (minimum of two required rface Soil Cracks (B6) painage Patterns (B10) person Water Table (C2) payfish Burrows (C8) turation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1) comorphic Position (D2) C-Neutral Test (D5)
Type:	ches):	licators: mum of or A2)  (B2)  B4)  n Aerial Ir Concave  Ye Ye	magery (B Surface (	ired; check :  V A T F F T 37) G (B8) C No V	Vater-Stain valuatic Factor of the Aquatic F	ined Leavaluna (B13 tic Plants Sulfide October Reduce of Reduce on Reducti Surface (Well Datablain in Reducti Ches):ches):ches):ches):ches):ches	(B14) (B14) dor (C1) res on Living Iron (C4) on in Tilled (C7) (D9) emarks)	)   Soils (C6	Second  Sui Dra Dry Cra C3) Sai Stu FA	lary Indicators (minimum of two required rface Soil Cracks (B6) painage Patterns (B10) person Water Table (C2) payfish Burrows (C8) turation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1) comorphic Position (D2) C-Neutral Test (D5)

## **EXHIBIT G**:

## WETLAND DETERMINATION DATA FORM – Midwest Region

Applicant/Owner: City of Minnetorika Investigatoris; Brandon Bohks, Madeline Maurer Investigatoris; Brandon Bohks, Madeline Ma	Project/Site: MTKA Parcel Investigation	City/County: Minneton	y/County: Minnetonka/ Hennepin County Sampling Date: 2022-04-29				
Landform (hillslope, terrace, etc.):   Depression	Applicant/Owner: City of Minnetonka	State: Minnesota Sampling Point: S1					
Siople (%)	Investigator(s): Brandon Bohks, Madeline Maurer	Section, Township, Rar					
Soil Map Unit Name: Kingslay-Gotham complex. 6 to 12 percent slopes   Are climatic. / hydrologic conditions on the site trylical for this time of year? Yes   No  ((fine, explain in Remarks.)  Are Vegetation  Soil  or Hydrology  isignificantly disturbed?   Are Vegetation  Soil  or Hydrology  naturally problematic?   Are Vegetation  Soil  or Hydrology  naturally problematic?   Are Vegetation  Present?   Hydrophytic Vegetation Present?   Yes  No	Landform (hillslope, terrace, etc.): Depression	-					
Soil Map Unit Name: Kingslay-Gotham complex. 6 to 12 percent slopes   Are climatic. / hydrologic conditions on the site trylical for this time of year? Yes   No  ((fine, explain in Remarks.)  Are Vegetation  Soil  or Hydrology  isignificantly disturbed?   Are Vegetation  Soil  or Hydrology  naturally problematic?   Are Vegetation  Soil  or Hydrology  naturally problematic?   Are Vegetation  Present?   Hydrophytic Vegetation Present?   Yes  No	·						
Are VegetationSoil or Hydrologysignificantly disturbed?	· · · · <del></del>	-	T				
Are Vegetation		•					
Are Vegetation, Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)  SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present?							
SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present?			' -				
Hydrochydrology Present?   Yes							
Hydrochydrology Present?   Yes	Hydrophytic Vegetation Present? Yes V No						
VEGETATION - Use scientific names of plants.   Tree Stratum (Plot size: 30 )		is the Sampled					
VEGETATION - Use scientific names of plants.   Tree Stratum (Plot size: 30 )		within a wetian	d? Yes No/				
Absolute	Remarks:						
Absolute							
Absolute	<b>VEGETATION</b> – Use scientific names of plants.						
1. Rhamnus cathartica 2. (A) 2. (B) 3. (B) 4. (C) 5. (C) 5. (C) 1. Rhamnus cathartica 3. (C) 2. (A) 3. (C) 3. (D) 4. (D) 4. (D) 5. (D) 4. (D) 5. (D) 4. (D) 5. (D) 4. (D) 4. (D) 5. (D) 4. (D) 5. (D) 4. (D) 5. (D) 4. (D) 5. (D) 4. (D) 4. (D) 5. (D) 4. (D) 5. (D) 4. (D) 4. (D) 4. (D) 5. (D) 4. (D)			Dominance Test worksheet:				
2	,						
3.			That Are OBL, FACW, or FAC: (A)				
Sapling/Shrub Stratum (Plot size:	3						
Sapling/Shrub Stratum (Plot size: 15 )   1. Rhamnus cathartica   30 Y FAC   Total % Cover of: Multiply by:	5						
1. Rhamnus cathartica 2.	Sanling/Shruh Stratum (Plot size) 15	_ = Total Cover	Prevalence Index worksheet				
2		Y FAC					
3.							
4			FACW species 0.00 x 2 = 0.00				
Herb Stratum (Plot size:			FAC species <u>60.00</u> x 3 = <u>180.00</u>				
Herb Stratum       (Plot size:			FACU species <u>0.00</u> x 4 = <u>0.00</u>				
1		_ = Total Cover	·				
Prevalence Index = B/A = 3.0  Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is >50%  2 - Dominance Test is >50%  2 - Dominance Test is >50%  3 - Prevalence Index is ≤3.0¹  4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  9 - Problematic Hydrophytic Vegetation¹ (Explain)  10 - Problematic Hydrophytic Vegetation¹ (Explain)  1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Hydrophytic Vegetation Present? Yes ✓ No			Column Totals: <u>60.00</u> (A) <u>180.00</u> (B)				
3			Prevalence Index = B/A = 3.0				
4	i						
5			1 - Rapid Test for Hydrophytic Vegetation				
6			✓ 2 - Dominance Test is >50%				
8 data in Remarks or on a separate sheet)  9 Problematic Hydrophytic Vegetation¹ (Explain)  10 = Total Cover    Moody Vine Stratum (Plot size: 30 )			<u>✓</u> 3 - Prevalence Index is ≤3.0 <sup>1</sup>				
9	7		4 - Morphological Adaptations¹ (Provide supporting				
10 = Total Cover			' '				
Woody Vine Stratum (Plot size: 30 )  1 = Total Cover   'Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Hydrophytic Vegetation   Present?   Yes _ ✓ No			Problematic Hydrophytic Vegetation (Explain)				
Woody Vine Stratum (Plot size: )  1 be present, unless disturbed or problematic.  2 = Total Cover  be present, unless disturbed or problematic.  Hydrophytic Vegetation Present? Yes✓ No			<sup>1</sup> Indicators of hydric soil and wetland hydrology must				
2 = Total Cover	Woody Vine Stratum (Plot size:)	_					
= Total Cover Present? Yes <u>✓</u> No							
= Total Cover							
Remarks: (Include photo numbers here or on a separate sheet.)		_ = Total Cover					
	Remarks: (Include photo numbers here or on a separate sheet.)						

SOIL Sampling Point: <u>\$1</u>

Profile Des	cription: (D	escribe	to the dept	h needed to docu	ment the	indicator	or confirm	n the absence	of indicators.)		
Depth Matrix Redox Features											
<u>(inches)</u>	Color (r	<u>noist)</u>	<u></u> %	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks		
0-13	<u> 10YR</u>	2/2	<u> 100</u> .		_			CL			
13-24	<u> 10YR</u>	2/2	_100_					LS	Gravel material present		
<sup>1</sup> Type: C=C	Concentration	n, D=Dep	letion, RM=	Reduced Matrix, M	S=Masked	d Sand Gra	ains.		cation: PL=Pore Lining, M=Matrix.		
Hydric Soil	Indicators:							Indicators	for Problematic Hydric Soils <sup>3</sup> :		
Histoso	` '			Sandy	Sandy Gleyed Matrix (S4)			Coast	Prairie Redox (A16)		
	pipedon (A2	)		•	— Sandy Redox (S5)			— Dark Surface (S7)			
·——	listic (A3)	.4)		Stripped Matrix (S6)				Iron-Manganese Masses (F12)			
	en Sulfide (A ed Layers (A	-			<ul><li>Loamy Mucky Mineral (F1)</li><li>Loamy Gleyed Matrix (F2)</li></ul>			Very Shallow Dark Surface (TF12)			
2 cm M		<i>3</i> )			ed Matrix (			Other (Explain in Remarks)			
	ed Below Dai	k Surfac	e (A11)		Dark Surfa	,			,		
Thick D	ark Surface	(A12)		Deplete	ed Dark Su	urface (F7)	)	<sup>3</sup> Indicators of hydrophytic vegetation and			
I —	Mucky Miner			Redox	Depressio	ns (F8)			d hydrology must be present,		
	ucky Peat or	•	-					unless	s disturbed or problematic.		
	Layer (if ob	-									
Type:											
	icnes):							Hydric Soil	Present? Yes No		
Remarks:											
HYDROLO	OGY										
	/drology Inc	licators:									
_			ne is requir	ed; check all that a	oply)			Seconda	ary Indicators (minimum of two required)		
-		110111 01 0	no io roquii			(es (B9)			face Soil Cracks (B6)		
	Surface Water (A1) High Water Table (A2)				Water-Stained Leaves (B9) Aquatic Fauna (B13)				Drainage Patterns (B10)		
Saturation (A3)					True Aquatic Plants (B14)				Dry-Season Water Table (C2)		
_	Marks (B1)			Hydrogen				Crayfish Burrows (C8)			
	ent Deposits	(B2)		Oxidized	Rhizosphe	eres on Liv	ing Roots	(C3) Sat	uration Visible on Aerial Imagery (C9)		
Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1)											
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6							6) <u>-/</u> Ged	omorphic Position (D2)			
Iron Deposits (B5) Thin Muck Surface (C7) FAC-I							C-Neutral Test (D5)				
Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9)											
_✓ Sparse	ly Vegetated	Concave	e Surface (E	38) Other (Ex	plain in Re	emarks)					
Field Obse	rvations:										
Surface Wa	ter Present?	Υ	es N	No <u>✓</u> Depth (ir	iches):		_				
Water Table Present? Yes No ✓ Depth (inches):				_	Wetland Hydrology Present? Yes No						
Saturation Present? Yes No Depth (inches): (includes capillary fringe)								Wet			
			dande mo	nitoring well, aerial	nhotos ni	revious ins	nections)	if available:			
Booonbork	Joordod Ball	a (otrourr	gaage, me	moning won, donar	priotoo, pi	OVIOGO IIIO	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ii availabio.			
Remarks:											