

Minnesota Wetland Conservation Act Notice of Application

Local Government Unit:	City of Plymouth	County: Hennepin
Applicant Name: 13120 C	County Road 6	
Applicant Representative	: Jacobson Environme	ental, PLLC
Project Name: 13120 Col	unty Road 6	
LGU Project No. (if any):	2020-10	
Date Complete Application	on Received by LGU: 5	5/4/2020
Date this Notice was Sent	by LGU: 5/4/2020	
		Be Received By LGU ¹ : 5/26/2020
¹ minimum 15 business day comm	ent period for Boundary &	Type, Sequencing, Replacement Plan and Bank Plan Applications
WCA Decision Type - check	all that apply	
🛛 Wetland Boundary/Ty	pe 🛛 Sequencing	🗆 Replacement Plan 🛛 🗆 Bank Plan (not credit purchase)
🗆 No-Loss (8420.0415)		Exemption (8420.0420)
Part: 🗆 A 🗆 B 🗆 C 🗆	D 🗆 E 🗆 F 🗆 G 🗆 H	Subpart: 🗆 2 🗔 3 🗆 4 🗆 5 🔤 6 🗆 7 🗔 8 🗆 9
Replacement Plan Impacts	(replacement plan de	ecisions only)
Total WCA Impact Area Pi	roposed:	
Application Materials		
🛛 Attached		
Other ¹ (specify): A wet	tland delineation was	performed on April 8th, 2020 at the property address of 13120
County Road 6 in Plymout	h. Two basins were de	elineated within the project area and are summarized on the
report. Basin 1 was deline	eated as a Type 3, PEN	11Cd, shallow marsh (ditched) wetland totaling 0.037 acres.
Basin 2 was delineated as	a Type 3/6, PEM1C/SS	51Cd, shallow marsh / shrub-carr (ditched) wetland totaling
0.153 acres.		
The applicant has also sub	mitted a request for t	he US Army Corps of Engineers concurrence.
¹ Link to ftp or other accessibl	efilesharingsites is acc	eptable.
Comments on this applicat	ion should be sent to:	
		m Water Resources Manager

E-Mail Address: bscharenbroich@plymouthmn.gov

Address and Phone Number: 3400 Plymouth Blvd, Plymouth, MN 55447

Decision-Maker for this Application:

 \boxtimes Staff \square Governing Board/Council \square Other (specify):

Notice Distribution (include name)

Required on all notices:

SWCD TEP Member: Ms. Stacey Lijewski, HCA, 701 Fourth Avenue South, Suite 700, Minneapolis, MN 55415-1600 BWSR TEP Member: Ben Carlson, BWSR, 520 Lafayette Road North, St. Paul, MN 55401

\Box LGU TEP Member (if different than LGU contact):

☑ DNR Representative: Leslie Parris, MnDNR, 1200 Warner Road, St. Paul, MN 55106 Lucas Youngsma, MnDNR, 1200 Warner Road, St. Paul, MN 55106 ⊠ Watershed District or Watershed Mgmt. Org.: BCWMC, c/o Laura Jester, 16145 Hillcrest Lane, Eden Prairie MN 55346

Applicant (notice only): Wayne Jacobson, Jacobson Environmental, PLLC, 5821 Humboldt Avenue N, Brooklyn Center MN 55430

 \boxtimes Agent/Consultant (notice only):

Optional or As Applicable:

⊠ Corps of Engineers: US Army Corps of Engineers, St Paul District, ATTN: OP-R, 180 Fifth Street East, Suite 700, St. Paul MN 55101-1678

BWSR Wetland Mitigation Coordinator (required for bank plan applications only):

Members of the Public (notice only): Lindsay Kolsrud, Colliers International Minneapolis St. Paul, 4350 Baker Road, Suite 400, Minnetonka, MN 55343

Deb Wheeler, Colliers International Minneapolis St. Paul, 4350 Baker Road, Suite 400, Minnetonka, MN 55343

Signature:		Date:
	Ben Schamparich	05/04/2020

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

WETLAND DELINEATION REPORT

4/14/20

2020-94 13120 County Road 6, Plymouth, MN 55441

Jacobson Environmental, PLLC jacobsonenv@msn.com

Jacobson Environmental, PLLC Environmental Consultants

www.jacobsonenvironmental.com Wayne Jacobson, P.S.S., W.D.C., P.W.S., A.F.S.

(612) 802-6619 Cell

Table of Contents

1.0 SUMMARY	. 2
2.0 METHODS	.3
2.1 EXISTING INFORMATION REVIEW	.3
2.1.1 Antecedent Precipitation	.3
2.1.2 National Wetlands Inventory	.3
2.1.3 Web Soil Survey	. 3
2.1.4 Public Waters Inventory	
2.1.5 Topographic Map	. 3
2.2 FIELD DELINEATION	. 3
2.2.1 Vegetation	.4
2.2.2 Hydric Soils	.5
2.2.3 Cautions Used in Applying the Field Indicators of Hydric Soils	. 5
3.0 RESULTS	.6
3.1 WETLAND BASIN DESCRIPTIONS	.6
4.0 CONFIRMATION OF JURISDICTIONAL STATUS	.7
5.0 CERTIFICATION	.7

Appendices

Appendix A Antecedent Precipitation Data
Appendix B Sample Data Sheets
Appendix C Site Photographs
Appendix D Wetland Type and Boundary Approval Forms
Figures
Figure 1 Site Location Map
Figure 2 National Wetland Inventory Map
Figure 3 Soils Map
Figure 4 Public Waters Inventory Map
Figure 5 Delineation Map
Figure 6 Topographic Map
Figure 7 Hydric rating Map

Wetland Delineation-Mitigation-Permitting-Monitoring-Banking-Functional Analysis-T & E Surveys1Phase I Environmental Assessments-EAW's-Soil ID-Soil Analysis & Delineation-Environmental Referrals1Pond & Lake Weed Control & Fish Stocking-Tree Surveys-Natural Resource Management Plans1

5821 Humboldt Avenue North, Brooklyn Center, MN 55430 Email: jacobsonenv@msn.com (612) 802-6619 Cell

1.0 SUMMARY

Jacobson Environmental, PLLC (JE) visited the project site at PID 2711822420001 on April 8, 2020. The site was approximately 11.47 acres in size, and was located at Sec. 27, T118N, R22W, Plymouth, Minnesota. See Figure 1 for a Site Location Map.

The purpose of the investigation was to identify areas within the project boundary meeting the technical criteria for wetlands, delineate the jurisdictional extent of the wetland basins, and classify the wetland habitat according to the 1987 U.S. Army Corps of Engineers Wetland Delineation Manual and the 2010 Regional Supplement to the Corps of Engineers Wetland Delineation: Midwest Region.

Wetlands are areas that are saturated or inundated with surface and or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in hydric soil conditions. Examples of wetlands include seasonally flooded basins, floodplain forests, wet meadows, shallow and deep marshes, shrub swamps, wooded swamps, fens, and bogs.

Wetland boundaries were determined through a routine analysis of the vegetation, soils and hydrology which must all show wetland characteristics for an area to be delineated as a wetland.

Basin ID	Circular 39	Cowardin	Eggers & Reed	Dominant Vegetation	Size (acres)
1	Туре 3	PEM1Cd	Shallow marsh (ditched)	Hybrid Cattail	0.037
2	Туре 3/6	PEM1C/SS 1Cd	Shallow marsh/shrub-carr (ditched)	Hybrid Cattail, Sandbar Willow, Woolly Sedge	0.153

Two basins were delineated within the project area, which is summarized below and shown on Figure 5.

All figures and appendices referenced by this report are presented at the end of the text.

This wetland delineation was performed by Jacobson Environmental, PLLC under the direction of Wayne Jacobson, Minnesota Professional Soil Scientist #30611, Society of Wetland Scientists – Professional Wetland Scientist #1000, University of Minnesota / BWSR Wetland Delineator, Certified #1019, American Fisheries Society – Associate Fisheries Scientist #A-171.

Wetland Delineation-Mitigation-Permitting-Monitoring-Banking-Functional Analysis-T & E Surveys 2 Phase I Environmental Assessments-EAW's-Soil ID-Soil Analysis & Delineation-Environmental Referrals Pond & Lake Weed Control & Fish Stocking-Tree Surveys-Natural Resource Management Plans 5821 Humboldt Avenue North, Brooklyn Center, MN 55430 Email: jacobsonenv@msn.com

(612) 802-6619 Cell

2.0 METHODS

2.1 EXISTING INFORMATION REVIEW

Prior to field delineation, Jacobson Environmental reviewed the following information:

2.1.1 Antecedent Precipitation

The previous three month's precipitation data obtained from the Minnesota State Climatology Office suggest that the sampling period occurred under wetter than normal conditions. Antecedent precipitation data can be found in Appendix A. The growing season in this area is approximately from mid-April to mid-October, when the air temperature averages above 28 degrees F. This delineation was completed during the growing season.

2.1.2 National Wetlands Inventory

The National Wetlands Inventory (NWI) identified one PEM1C wetland complex within the property boundary (Figure 2).

2.1.3 Web Soil Survey

The National Resource Conservation Service Web Soil Survey (Figure 7) identified the following soils:

Soil	Hydric Rating
Urban land-Udipsamments (cut and fill land) complex	0
Urban land-Udorthents (cut and fill land) complex	0

2.1.4 Public Waters Inventory

The Minnesota Department of Natural Resources Public Waters Inventory shows that no public waters exist on the property (Figure 4).

2.1.5 Topographic Map

A topographic map with aerial photo overlay was obtained from MnTOPO (Figure 6). This map was reviewed for suspected wetland areas based on topography and vegetative cover.

2.2 FIELD DELINEATION

Wetland Delineation-Mitigation-Permitting-Monitoring-Banking-Functional Analysis-T & E Surveys 3 Phase I Environmental Assessments-EAW's-Soil ID-Soil Analysis & Delineation-Environmental Referrals Pond & Lake Weed Control & Fish Stocking-Tree Surveys-Natural Resource Management Plans

5821 Humboldt Avenue North, Brooklyn Center, MN 55430 (61 Email: jacobsonenv@msn.com

(612) 802-6619 Cell

The wetlands on the subject property were delineated using the routine determination methodology set forth in the 1987 U.S. Army Corps of Engineers *Wetlands Delineation Manual* and the 2010 Regional Supplement to the Corps of Engineers Wetland Delineation: Midwest Region as follows:

- 1) The vegetative community was sampled in all present strata to determine whether 50% of the dominant plant species were hydrophytic using the 50/20 method.
- 2) Soil pits were dug using a Dutch auger to depths of 24", noting soil profiles and any hydric soil characteristics.
- 3) Signs of wetland hydrology were noted and were compared to field criteria such as depth to shallow water table and depth of soil saturation found in the soil pits.

Transects were established in representative areas of each wetland. Each transect consisted of one sample point within the wetland and one sample point in upland. Other areas which have one or more of the wetland vegetation, soils, or hydrologic characteristics present, or where questionable conditions exist may also have been sampled. Data sheets for each sample point are available in Appendix B.

Wetland classifications discussed in the text are set forth in *Wetlands and Deepwater Habitats of the United States* (FWS/OBS Publication 79/31, Cowardin et al. 1979) and *Wetlands of the United States* (USFWS Circular 39, Shaw and Fredine, 1971.) Additionally, plant community types as named by Eggers and Reed (1998) are given.

Wetland edges were marked with orange numbered pin flags. Pink "wetland boundary" flagging tape tied on vegetation may be used if site conditions warrant. Sample points are marked with orange numbered pin flags.

Any wetlands or sample points were mapped using GPS.

2.2.1 Vegetation

The plant species within the parcel were cataloged and assigned a wetland indicator status according to: Lichvar, R.W., D.L. Banks, W.N. Kirchner, and N.C. Melvin, 2016. *The National Wetland Plant List:* 2016 Wetland Ratings, Phytoneuron 2016-30: 1-17.

In the text of this report and on the enclosed data forms, the plant indicator status follows the plant's scientific name unless a status has not been assigned. The hydrophytic plant criterion is met when more than 50 percent of the dominant species by the 50/20 rule for each stratum (herb, shrub/sapling, tree, and woody vine) were assigned an obligate (OBL)¹, facultative wet (FACW), and/or facultative (FAC) wetland status.

¹ OBL=Obligate Wetland, occurs an estimated 99% in wetlands. FACW=Facultative Wetland, has an estimated 67%-99% probability of occurrence in wetlands. FAC=Facultative, is equally likely to occur in wetlands and non-wetlands, 34%-66% probability. FACU=Facultative Upland, occurs in wetlands only occasionally, 1%-23% probability. UPL=Upland, almost never

Wetland Delineation-Mitigation-Permitting-Monitoring-Banking-Functional Analysis-T & E Surveys 4 Phase I Environmental Assessments-EAW's-Soil ID-Soil Analysis & Delineation-Environmental Referrals Pond & Lake Weed Control & Fish Stocking-Tree Surveys-Natural Resource Management Plans

5821 Humboldt Avenue North, Brooklyn Center, MN 55430 Email: jacobsonenv@msn.com (612) 802-6619 Cell

With the 50/20 rule, dominants are generally measured by absolute % cover in each stratum which individually or collectively account for more than 50% of total vegetative cover in the stratum, plus any other species which itself accounts for at least 20% of the total vegetative cover.

2.2.2 Hydric Soils

A hydric soil is a soil formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part. If a soil exhibits the indicators of a hydric soil or is identified as a hydric soil the hydric soil criterion is met.

The break between hydric and non-hydric soils was determined by excavating soil pits along transects crossing the wetland/upland eco-tone and evaluating the soil colors, textures, and presence or absence of redoximorphic indicators (i.e., mottles, gley or oxidized rhizospheres). Hydric Soil Indicators for the Midwest Region were noted as presented in the National Technical Committee for Hydric Soils *Field Indicators of Hydric Soils in the United States version 8.1* (USDA NRCS 2017) if present at each sample point. Upper soil profiles were also compared to the mapped or inclusionary soil series found in the sample area for soil identification purposes.

2.2.3 Cautions Used in Applying the Field Indicators of Hydric Soils

There are hydric soils with morphologies that are difficult to interpret. These include soils with black, gray, or red parent material; soils with high pH; soils high or low in content of organic matter; recently developed hydric soils, and soils high in iron inputs. In some cases, we do not currently have indicators to assist in the identification of hydric soils in these situations. If the soil meets the definition of a hydric soil, the lack of an indicator does not preclude the soil from being hydric. The indicators were developed mostly to identify the boundary of hydric soil areas and generally work best on the margins. Not all the obviously wetter hydric soils will be identified by the indicators. Redoximorphic features are most likely to occur in soils that cycle between anaerobic (reduced) and aerobic (oxidized) conditions.

Morphological features of hydric soils indicate that saturation and anaerobic conditions have existed under either contemporary or former hydrologic regimes. Where soil morphology seems inconsistent with the landscape, vegetation, or observable hydrology, it may be necessary to obtain the assistance of an experienced soil or wetland scientist to determine whether the soil is hydric.

To clarify, when investigating hydric soils in this area, one must consider the following:

- Many of these soils have black or gray parent materials.
- Many of the soils have a high organic matter content.
- The hydric soil margin is typically higher than the wetland boundary margin on the site.
- Not all the obviously wetter soils will be identified by the indicators.
- Many of the hydric soils are Mollisols which are classic problem hydric soils in many cases.

Wetland Delineation-Mitigation-Permitting-Monitoring-Banking-Functional Analysis-T & E Surveys Phase I Environmental Assessments-EAW's-Soil ID-Soil Analysis & Delineation-Environmental Referrals Pond & Lake Weed Control & Fish Stocking-Tree Surveys-Natural Resource Management Plans

occurs in wetlands, <1% probability. NI= No Indicator, insufficient information available to determine an indicator status. Positive or negative sign previously indicated a frequency toward higher (+) or lower (-) frequency of occurrence within a category.

Jacobson Environmental, PLLC Environmental Consultants

5821 Humboldt Avenue North, Brooklyn Center, MN 55430 Email: jacobsonenv@msn.com

(612) 802-6619 Cell

3.0 RESULTS

3.1 WETLAND BASIN DESCRIPTIONS

Basin 1

Basin 1 was an approximately 0.037-acre, type 3, PEM1Cd, shallow marsh wetland. The basin was dominated by Hybrid Cattail (OBL).

Hydrology indicators included D2 (geomorphic position) and D5 (FAC neutral test).

Wetland soils met indicator A12 (thick dark surface).

Adjacent upland was typically dominated by Tall Goldenrod (FACU) and Reed Canary Grass (FACW). Primary hydrology indicators were not observed at the upland sample point, and no hydric soil indicators were found in the upland sample point soil.

The wetland boundary followed a change in vegetation from wetland to upland plant communities, as well as a gradual change in topography. The basin was shown as a PEM1C wetland on the NWI map (Figure 2) and was located within an area mapped as Urban land-Udipsamments (cut and fill land) complex (RATING=0) by the Web Soil Survey (Figure 7).

Sample data sheets 1-UP and 1-WET in Appendix B correspond to this basin.

Basin 2

Basin 2 was an approximately 0.153-acre, type 3/6, PEM/SS1Cd, shallow marsh/shrub-carr wetland. The basin was dominated by Hybrid Cattail (OBL), Sandbar Willow (FACW), and Woolly Sedge (OBL).

Hydrology indicators included D2 (geomorphic position) and D5 (FAC neutral test).

Wetland soils met indicator A12 (thick dark surface).

Adjacent upland was typically dominated by Tall Goldenrod (FACU), Giant Goldenrod (FACW), and White Avens (FAC). Primary hydrology indicators were not observed at the upland sample point, and no hydric soil indicators were found in the upland sample point soil.

The wetland boundary followed a change in vegetation from wetland to upland plant communities, as well as a slight to gradual change in topography. The basin was not shown as a wetland on the NWI map (Figure 2) and was located within an area mapped as Urban land-Udipsamments (cut and fill land) complex (RATING=0) by the Web Soil Survey (Figure 7).

Sample data sheets 2-UP and 2-WET in Appendix B correspond to this basin.

Wetland Delineation-Mitigation-Permitting-Monitoring-Banking-Functional Analysis-T & E Surveys 6 Phase I Environmental Assessments-EAW's-Soil ID-Soil Analysis & Delineation-Environmental Referrals Pond & Lake Weed Control & Fish Stocking-Tree Surveys-Natural Resource Management Plans **Jacobson Environmental, PLLC Environmental Consultants**

5821 Humboldt Avenue North, Brooklyn Center, MN 55430 Email: jacobsonenv@msn.com

(612) 802-6619 Cell

7

4.0 CONFIRMATION OF JURISDICTIONAL STATUS

Jacobson Environmental is submitting this report to the client and regulatory agencies to request a wetland boundary and type determination. We have enclosed an official WCA Approval of Wetland Type and Boundary form in Appendix D along with a USCOE wetland delineation concurrence request.

5.0 CERTIFICATION

I certify that this wetland delineation meets the standards and criteria described in the 1987 U.S. Army Corps of Engineers Wetland Delineation Manual and the 2010 Regional Supplement to the Corps of Engineers Wetland Delineation: Midwest Region. This was a Routine On-Site Determination and the results reflect the conditions present at the time of the delineation.

I certify that this report has been prepared in accordance with regulatory standards. Thank you for the opportunity to provide wetland services on this important project.

If any wetland impacts are planned for this project, permits would be necessary from the LGU and other agencies.

asky mm

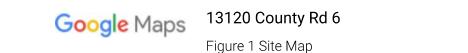
Ashley Mack, Staff Scientist Wetland Professional In-Training #5262 Jacobson Environmental, PLLC.

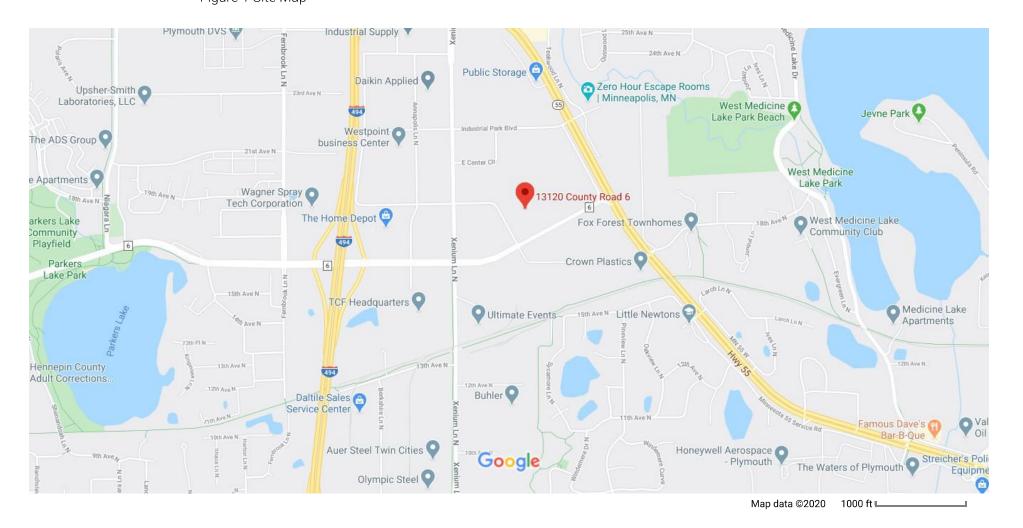
4/14/20

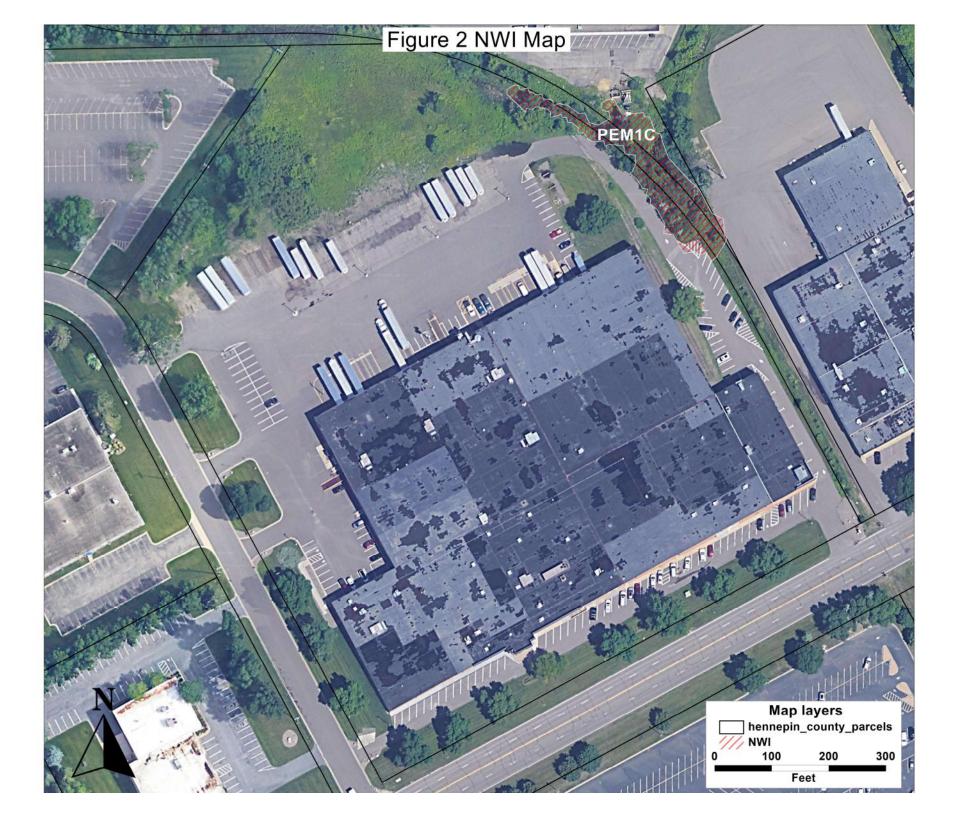
Date

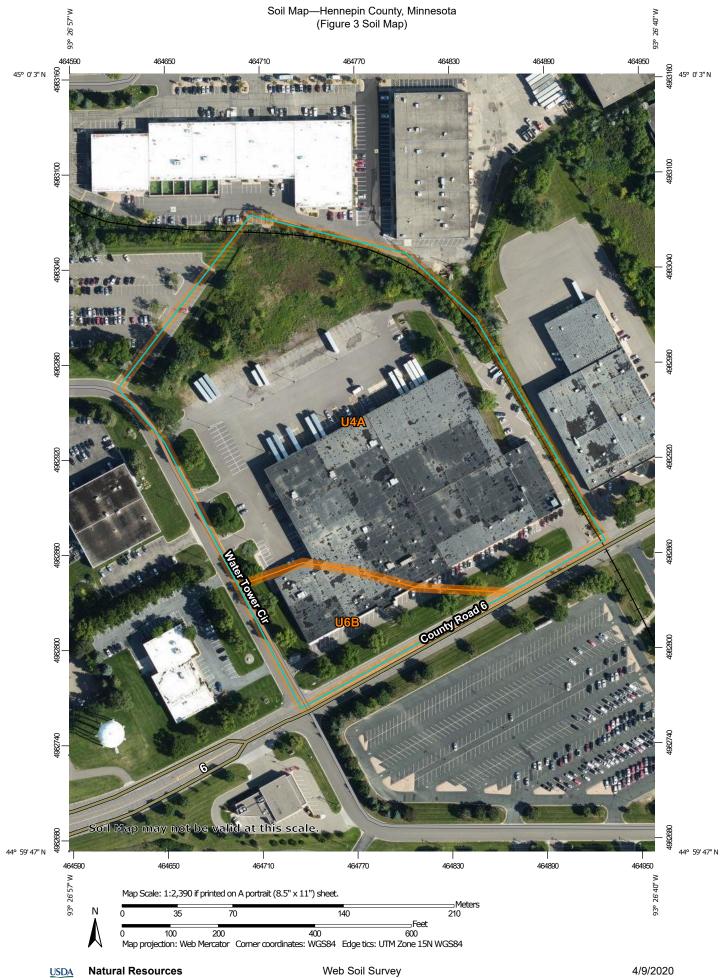
Wetland Delineation-Mitigation-Permitting-Monitoring-Banking-Functional Analysis-T & E Surveys Phase I Environmental Assessments-EAW's-Soil ID-Soil Analysis & Delineation-Environmental Referrals Pond & Lake Weed Control & Fish Stocking-Tree Surveys-Natural Resource Management Plans

Figures









National Cooperative Soil Survey

Conservation Service

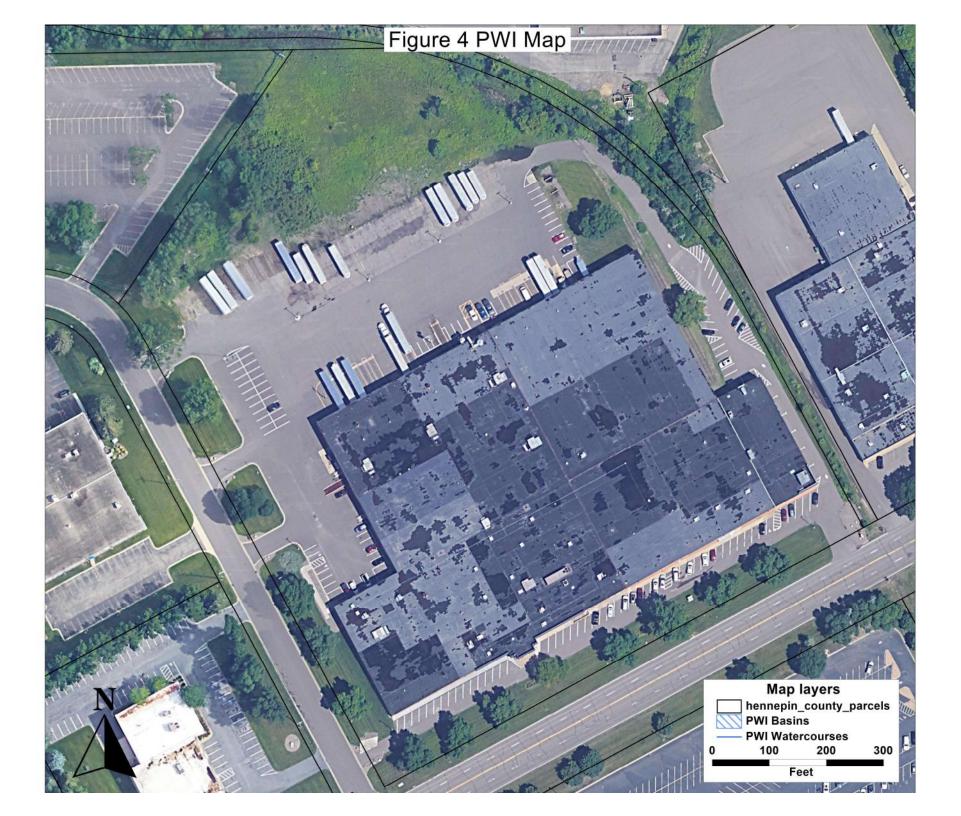
MAP LEGEND		MAP INFORMATION	
Area of Interest (AOI) Area of Interest (AOI) Soils Soil Map Unit Polygons	 Spoil Area Stony Spot Very Stony Spot 	The soil surveys that comprise your AOI were mapped at 1:12,000. Warning: Soil Map may not be valid at this scale. Enlargement of maps beyond the scale of mapping can cause	
Soil Map Unit Lines Soil Map Unit Points Special Point Features	Image: Wet Spot Image: Other Image: Special Line Features	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.	
⊍ Blowout ⊠ Borrow Pit ¥ Clay Spot ♦ Closed Depression	Water Features Streams and Canals Transportation Rails Interstate Highways	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)	
Gravel Pit Gravelly Spot Landfill	 ✓ US Routes ✓ Major Roads ✓ Local Roads 	Maps from the Web Soil Survey are based on the Web Mercato projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as th Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.	
 Marsh or swamp Mine or Quarry Miscellaneous Water Perennial Water 	Background Aerial Photography	This product is generated from the USDA-NRCS certified data of the version date(s) listed below. Soil Survey Area: Hennepin County, Minnesota Survey Area Data: Version 15, Sep 16, 2019 Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.	
 Rock Outcrop Saline Spot Sandy Spot Severely Eroded Spot Sinkhole Slide or Slip Sodic Spot 		Date(s) aerial images were photographed: Aug 19, 2019—Au 29, 2019 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.	



Map Unit Legend

Map Unit Symbol Map Unit Name		Acres in AOI	Percent of AOI	
U4A	Urban land-Udipsamments (cut and fill land) complex, 0 to 2 percent slopes	11.6	85.9%	
U6B	Urban land-Udorthents (cut and fill land) complex, 0 to 6 percent slopes	1.9	14.1%	
Totals for Area of Interest		13.4	100.0%	





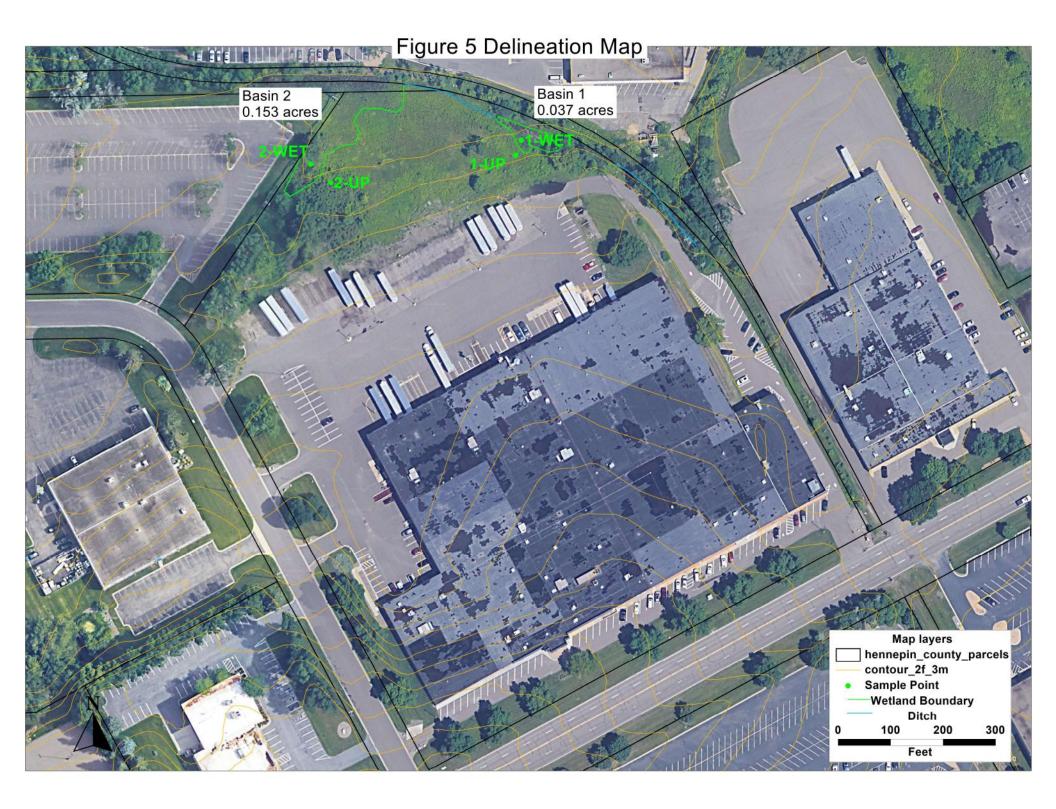


Figure 6 LiDAR Topographic Map



0.0125 0.025

0.05

Scale: 1:3,381

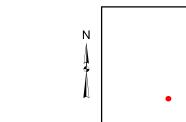
0.075

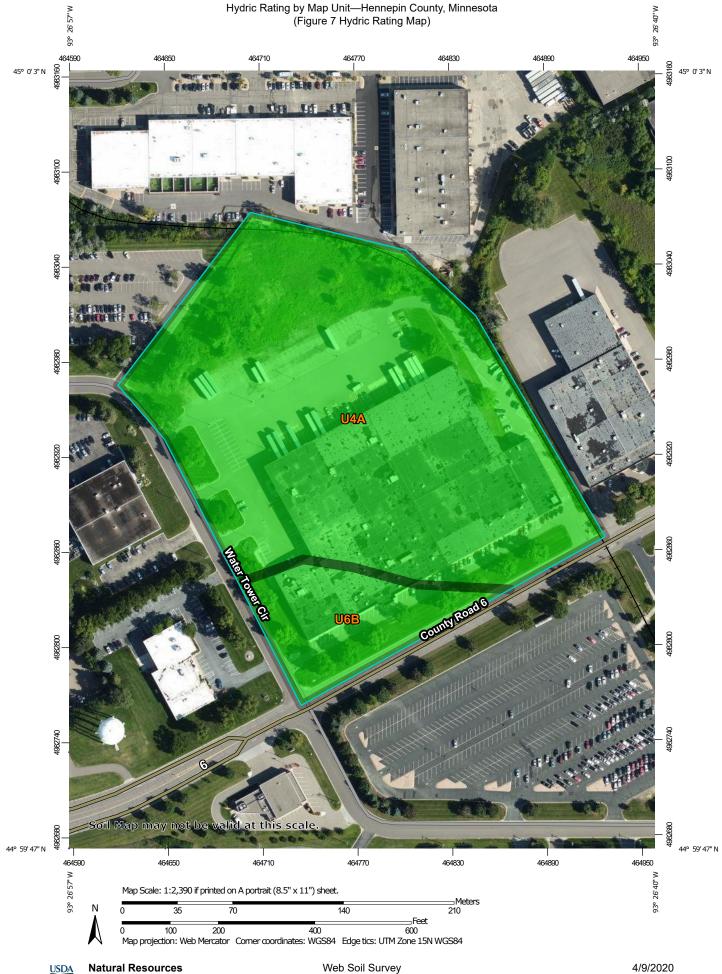
The State of Minnesota and the Minnesota Department of Natural Resources makes no representations or warranties expressed or implied, with respect to the use of maps or geographic data provided herewith regardless of its format or the means of its transmission. There is no guarantee or representation to the user as to the accuracy, currency, suitability, or reliability of this data for any purpose. The user accepts the data "as is."

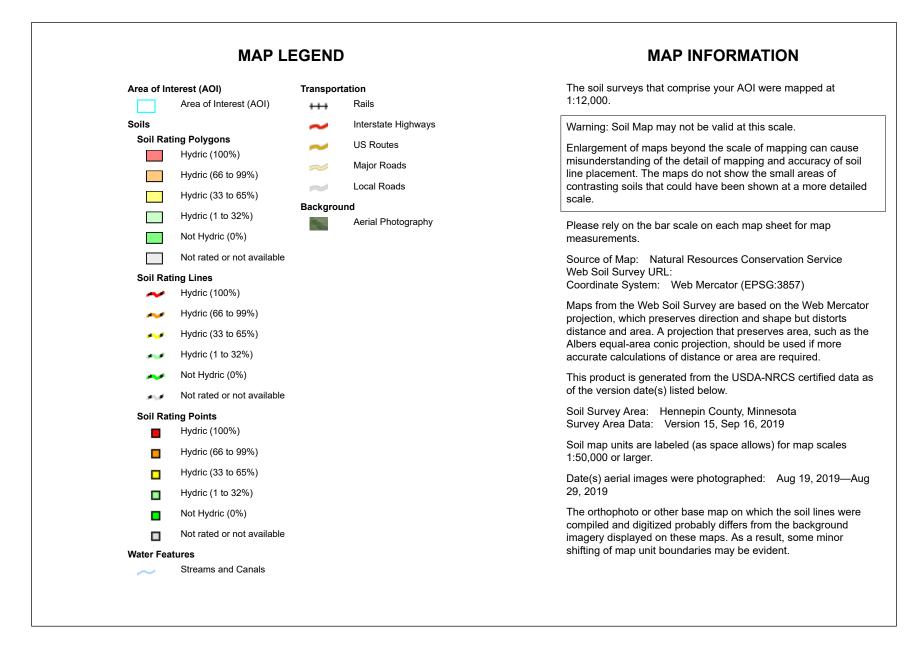
The State of Minnesota assumes no responsibility for loss or damage incurred as a result of any user reliance on this data. All maps and other material provided herein are protected by copyright.

Extreme care was used during the compilation of this product. However, due to changes in ownership and the need to rely on outside information, errors or omissions may exist. If you should discover an oversight, we encourage you to let us know by calling the DNR at 1-888-646-6367 or by e-mail at info.dnr@state.mn.us.

Note: Elevation images and contours were generated from LiDAR derived elevation surfaces acquired 2007-2012.







USDA

Hydric Rating by Map Unit

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
U4A	Urban land- Udipsamments (cut and fill land) complex, 0 to 2 percent slopes	0	11.6	85.9%
U6B	Urban land-Udorthents (cut and fill land) complex, 0 to 6 percent slopes	0	1.9	14.1%
Totals for Area of Inter	est		13.4	100.0%

Rating Options

Aggregation Method: Percent Present Component Percent Cutoff: None Specified Tie-break Rule: Lower

Appendices

Appendix A

Minnesota State Climatology Office

State Climatology Office - DNR Division of Ecological and Water Resources

home | current conditions | journal | past data | summaries | agriculture | other sites | about us f

18N

Precipitation Worksheet Using Gridded Database

Precipitation data for target wetland location:

county: Hennepin	township number: 11
township name: Plymouth	range number: 22W
nearest community: Plymouth	section number: 27

Aerial photograph or site visit date: Wednesday, April 8, 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: March 2020	second prior month: February 2020	third prior month: January 2020
estimated precipitation total for this location:	2.57	0.55	0.87
there is a 30% chance this location will have less than:	1.29	0.39	0.53
there is a 30% chance this location will have more than:	2.05	0.95	1.14
type of month: dry normal wet	wet	normal	normal
monthly score	3*3=9	2*2=4	1*2=2
multi-month score:6 to 9 (dry)10 to 14 (normal)15 to 18 (wet)		15 (wet)	

Other Resources:

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

Appendix B

WETLAND	DETERMINATIO	N DATA FORM	- Midwest	Region

WETLAND DETERM	MINATIO	ON DATA	FORM - M	idwest R	legion	
Project/Site 13120 County Rd 6	City/0	County:	Plymouth/He	nnepin	Sampling Date:	4/8/20
Applicant/Owner: Kirt Woodhouse	_	State:	Minnes	sota	Sampling Point:	1-UP
Investigator(s): ACM		Sec	tion, Townshi	p, Range:	Sec. 27,	T118N, R22W
Landform (hillslope, terrace, etc.): footslop	e	Local	relief (concav	/e, convex	, none):	linear
Slope (%): 3 Lat:		Long:			Datum:	
Soil Map Unit Name Urban land-Udipsamments		_	NWI	Classificati	ion:	
Are climatic/hydrologic conditions of the site typical for the	nis time o	f the year?	N (lf no, expla	ain in remarks)	
Are vegetation , soil , or hydrolog	У	significan	tly disturbed?		Are "normal circu	mstances"
Are vegetation , soil , or hydrolog	у	naturally p	problematic?			present? Yes
SUMMARY OF FINDINGS				(If need	ed, explain any ar	swers in remarks.)
Hydrophytic vegetation present? N						
Hydric soil present? N		Is the	sampled are	a within a	wetland?	Ν
Indicators of wetland hydrology present? N		f yes, o	optional wetlar	nd site ID:		
Remarks: (Explain alternative procedures here or in a se	parate re	port.)				
					.	
Antecedent precipitation data in	ndicate v	wetter tha	n normal co	nditions.	See Appendix	А.
VEGETATION Use scientific names of plants.						
	bsolute	Dominan	Indicator	Domina	ance Test Works	neet
Tree Stratum (Plot size:30' radius) %	6 Cover	t Species	Staus	Number	of Dominant Speci	es
1				that are 0	OBL, FACW, or FA	.C: <u> </u>
2					Number of Domina	
3				-	cies Across all Stra	
					of Dominant Speci OBL, FACW, or FA	
	0	= Total Cov	er		, ,	(,,,)
Sapling/Shrub stratum (Plot size: 15' radius)				Prevale	nce Index Works	sheet
1				Total %	Cover of:	
2				OBL spe		1 = 0
3			·	FACW s	-	2 = 70
4			·	FAC spe FACU s		3 = 24 4 = 212
°	0	= Total Cov	er	UPL spe		5 = 0
Herb stratum (Plot size: 5' radius)				Column		A) <u>306</u> (B)
1 Solidago altissima	50	Y	FACU	Prevale	nce Index = B/A =	3.19
2 Phalaris arundinacea	35	Y	FACW			
3 Geum canadense	5	N	FAC		hytic Vegetation	
4 Acer negundo	3	<u>N</u>	FAC	· ·	oid test for hydrop	, 0
5 Cirsium arvense	3	N	FACU		ninance test is >5 valence index is ≤	
6			·			
8			·		phogical adaptation porting data in Re	
9			·		arate sheet)	
10				Prol	blematic hydrophy	tic vegetation*
-	96	= Total Cov	er	(exp	olain)	
<u>Woody vine stratum</u> (Plot size: <u>30' radius</u>) 1				ŗ	present, unless disturl	vetland hydrology must be bed or problematic
2				-	Irophytic etation	
	0	= Total Cov	er		etation sent? N	
Pomarke: (Include photo numbers here or on a consiste	shoot)			P. 0		
Remarks: (Include photo numbers here or on a separate	sneet)					

SOIL

Profile Desc	cription: (Descri	ibe to th	e depth needed	to docu	ment the	indicate	or or confirm t	the absence	e of indicators.)
Depth	Matrix		Red	dox Featu	ures				
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Textu	re	Remarks
0-10	10YR3/2	100					sandy loam		
10-16	10YR6/3	100					sandy clay lo	oam	
16-24	10YR2/1	100					sandy clay lo		
10-24	1011(2/1	100					Salidy clay it	Jam	
*Type: C = C	Concentration. D :	= Depleti	on, RM = Reduce	d Matrix	. MS = N	lasked S	and Grains.	**Location	n: PL = Pore Lining, M = Matrix
	il Indicators:	2 0 0 10 1	,		,				ematic Hydric Soils:
-	isol (A1)		Sar	dy Gleve	ed Matrix	(S4)			lox (A16) (LRR K, L, R)
	ic Epipedon (A2)			dy Redo		(-)) (LRR K, L)
	ck Histic (A3)			pped Ma					Masses (F12) (LRR K, L, R)
Hyd	rogen Sulfide (A4	4)			ky Minera	al (F1)	Very S	Shallow Dar	k Surface (TF12)
	tified Layers (A5)			-	ed Matrix			(explain in I	
2 cr	n Muck (A10)		Dep	leted Ma	atrix (F3)				
Dep	leted Below Dark	Surface	(A11) Red	lox Dark	Surface	(F6)			
Thic	k Dark Surface (A12)			ark Surfac	. ,	*Indicat	tors of hydro	phytic vegetation and weltand
	dy Mucky Minera			lox Depr	essions ((F8)	hydrol	ogy must be	e present, unless disturbed or
5 cr	n Mucky Peat or	Peat (S3)						problematic
Restrictive	Layer (if observe	ed):							
Type:		,					Hydric s	soil present	:? N
Depth (inche	es):						•	•	
Remarks:									
-	drology Indicato				I. \				
		of one is	required; check			10)	Sec		cators (minimum of two required)
	Water (A1)				Fauna (B	,			Soil Cracks (B6)
Saturatio	ter Table (A2)				uatic Plar	Odor (C1	· –		Patterns (B10) on Water Table (C2)
	arks (B1)) Living Roots		Burrows (C8)
	it Deposits (B2)			(C3)	11112000				n Visible on Aerial Imagery (C9)
	osits (B3)				e of Redu	uced Iron	(C4) —		or Stressed Plants (D1)
Algal Ma	t or Crust (B4)			Recent I	ron Redu	ction in T	illed Soils	Geomorp	hic Position (D2)
Iron Dep	osits (B5)			(C6)				FAC-Neu	tral Test (D5)
Inundatio	on Visible on Aeria	I Imagery	/ (B7)	Thin Mu	ck Surfac	e (C7)			
	Vegetated Conca		ce (B8)		or Well Da	```			
Water-S	tained Leaves (B9)		Other (E	xplain in	Remarks))		
Field Obser									
Surface wate		Yes	No	Х	Depth (i		-		
Water table		Yes	No	X	Depth (i	<i>'</i> .	>24		icators of wetland
Saturation p		Yes	No	X	Depth (i	nches):	>24	hy	drology present? N
	pillary fringe)						<i>,</i> , , , .		
Describe rec	corded data (strea	am gauge	e, monitoring well	, aerial p	hotos, pr	evious in	ispections), if a	vailable:	
Remarks:									

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site 13120 County Rd 6	City/Co	ounty: F	Plymouth/Hen	nepin	Sampling Date:	4/8/20
Applicant/Owner: Kirt Woodhouse	-	State:	Minnes	ota S	Sampling Point:	1-WET
Investigator(s): ACM		Secti	on, Township	, Range:	Sec. 27,	T118N, R22W
Landform (hillslope, terrace, etc.): toselope		Local r	elief (concav	e, convex,	none):	concave
Slope (%): 1 Lat:		Long:			Datum:	
Soil Map Unit Name Urban land-Udipsamments			NWI C	Classificati	on:	PEM1C
Are climatic/hydrologic conditions of the site typical for this	s time of t	he year?	N (If	no, expla	in in remarks)	
Are vegetation , soil , or hydrology	s	significantly	y disturbed?		Are "normal circu	umstances"
Are vegetation , soil , or hydrology	r	naturally pr	oblematic?			present? Yes
SUMMARY OF FINDINGS				(If neede	ed, explain any a	nswers in remarks.)
Hydrophytic vegetation present? Y						
Hydric soil present? Y		Is the s	ampled area	within a	wetland?	Y
Indicators of wetland hydrology present? Y		f yes, op	tional wetlan	d site ID:	_	
Remarks: (Explain alternative procedures here or in a sep	arate repo	ort.)				
Antecedent precipitation data inc	dicate we	etter than	normal cor	nditions.	See Appendix	Α.
VEGETATION Use scientific names of plants.						
	solute I	Dominan	Indicator	Domina	nce Test Works	heet
<u>Tree Stratum</u> (Plot size: <u>30' radius</u>) %	Cover t	Species	Staus		of Dominant Spec DBL, FACW, or FA	
2					Number of Domin	
3					ies Across all Stra	
4				Percent	of Dominant Spec	cies
5				that are C	OBL, FACW, or FA	AC: <u>100.00%</u> (A/B)
	0 = 1	Fotal Cove	r			
<u>Sapling/Shrub stratum</u> (Plot size: <u>15' radius</u>) 1					nce Index Work Cover of:	sneet
2				OBL spe		x 1 = 85
3				FACW s		$x^{2} = \frac{00}{0}$
4				FAC spe	· · · · · · · · · · · · · · · · · · ·	x 3 = 6
5				FACU s	pecies 10	x 4 = 40
	0 = 1	Total Cove	r	UPL spe		x 5 = 0
<u>Herb stratum</u> (Plot size: <u>5' radius</u>)				Column	totals 97	(A) <u>131</u> (B)
1 Typha x glauca	75	Y	OBL	Prevaler	nce Index = B/A =	= 1.35
2 Solidago altissima	10	N	FACU	<u></u>		
3 Lythrum salicaria	10	<u>N</u>	OBL		hytic Vegetation	
4 Geum canadense		IN	FAC		id test for hydrop hinance test is >5	
6					/alence index is a	
7					phogical adaptati	
8					porting data in Re	
9				sepa	arate sheet)	
10	97 = 1	Total Cove	r	Prot (exp	olematic hydroph Ilain)	ytic vegetation*
Woody vine stratum (Plot size: 30' radius)						wetland hydrology must be
1		<u> </u>		•	present, unless distur	bed or problematic
²	0 = 1	Total Cove	r	vege	etation sent? Y	
Remarks: (Include photo numbers here or on a separate s	sheet)					——

SOIL

	cription: (Descr	ibe to th	-						
Depth	Matrix			edox Feat					
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Textur	e	Remarks
0-12	10YR2/1	100					silty loam		
12-24	10YR5/2	98	7.5YR4/6	2	С	PL	sandy clay lo	am	
				_					
				_					
Гуре: С = С	Concentration, D	= Depleti	on, RM = Redu	ced Matrix	, MS = N	lasked S	and Grains.	**Location	: PL = Pore Lining, M = Matrix
	oil Indicators:		· ·						matic Hydric Soils:
Hist	tisol (A1)		S	andy Gley	ed Matrix	(S4)	Coast	Prairie Rede	ox (A16) (LRR K, L, R)
	tic Epipedon (A2)			andy Redo					(LRR K, L)
Bla	ck Histic (A3)		<u> </u>	tripped Ma	trix (S6)		Iron-M	langanese N	/lasses (F12) (LRR K, L, R)
— Нус	drogen Sulfide (A	4)	L	oamy Muc	ky Minera	al (F1)	Very S	Shallow Dark	s Surface (TF12)
Stra	atified Layers (A5)	L	oamy Gley	ed Matrix	x (F2)	Other	(explain in r	emarks)
	m Muck (A10)			epleted Ma	· · ·				
	pleted Below Dark		· · · ·	edox Dark		. ,			
	ck Dark Surface (. ,		epleted Da		. ,	*Indicate	ors of hydro	phytic vegetation and weltand
	ndy Mucky Minera	. ,		edox Depr	essions ((F8)	hydrolo		present, unless disturbed or
5 cr	m Mucky Peat or	Peat (S3)					p	problematic
octrictivo	Layer (if observe	ed):							
esuictive							Lindada a		
							Hydric se	oil present	? Y
ype: Depth (inche	es):				- -		Ηγατις S	oil present'	ε <u>Υ</u>
ype: epth (inche	es):				-		Ηγάτις S	oil present'	< <u>Y</u>
ype: epth (inche emarks:					- 		Ηγάτις S	oil present'	< <u>Y</u>
ype: epth (inche emarks: IYDROL(Drs:			-		Hyaric S	oil present	< <u>Y</u>
ype: lepth (inche lemarks: IYDROLO Vetland Hy	DGY rdrology Indicato		required: chec	k all that a	- - -				
ype: epth (inche emarks: IYDROL(/etland Hy rimary Indi	DGY		required; chec			113)		ondary Indic	cators (minimum of two require
ype: epth (inche emarks: YDROL(/etland Hy rimary Indi Surface	DGY drology Indicato cators (minimum		required; chec	Aquatic	<u>-</u> <u>pply)</u> Fauna (B uatic Plar			ondary Indic	
ype: epth (inche emarks: YDROL(/etland Hy rimary Indi Surface	DGY drology Indicato cators (minimum Water (A1) ater Table (A2)		required; cheo	Aquatic True Aq	Fauna (B	nts (B14)	Sec	ondary Indic	cators (minimum of two require oil Cracks (B6)
ype: epth (inche emarks: VDROL(/etland Hy rimary Indi Surface High Wa Saturatio	DGY drology Indicato cators (minimum Water (A1) ater Table (A2)		required; chec	Aquatic True Aq Hydroge	Fauna (B uatic Plar en Sulfide	nts (B14) Odor (C1	Sec	ondary Indic Surface S Drainage I Dry-Seasc	cators (minimum of two require oil Cracks (B6) Patterns (B10)
ype: epth (inche emarks: PYDROL(/etland Hy rimary Indi Surface High Wa Saturatie Water M Sedimer	DGY drology Indicato cators (minimum Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2)		required; chec	Aquatic True Aq Hydroge Oxidized (C3)	Fauna (B uatic Plar en Sulfide d Rhizosp	nts (B14) Odor (C1 pheres on	Seco) Living Roots	ondary Indic Surface S Drainage I Dry-Seasc Crayfish B Saturation	cators (minimum of two require oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) I Visible on Aerial Imagery (C9)
ype: epth (inche emarks: emarks: ////////////////////////////////////	DGY rdrology Indicato cators (minimum Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3)		required; chec	Aquatic True Aq Hydroge Oxidized (C3) Presenc	Fauna (B uatic Plar en Sulfide d Rhizosp	nts (B14) Odor (C1 pheres on uced Iron	Sect) Living Roots (C4)	ondary Indic Surface S Drainage I Dry-Seasc Crayfish B Saturation Stunted or	cators (minimum of two require oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) I Visible on Aerial Imagery (C9) r Stressed Plants (D1)
ype: epth (inche emarks: warks: YDROL(Yetland Hy rimary Indi Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma	DGY rdrology Indicato cators (minimum Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4)		required; chec	Aquatic True Aq Hydroge Oxidized (C3) Presenc Recent	Fauna (B uatic Plar en Sulfide d Rhizosp	nts (B14) Odor (C1 pheres on uced Iron	Sect) Living Roots (C4) illed Soils	ondary Indic Surface S Drainage I Dry-Seasc Crayfish B Saturation Stunted or Ceomorph	cators (minimum of two require oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) I Visible on Aerial Imagery (C9) r Stressed Plants (D1) nic Position (D2)
ype: epth (inche emarks: IYDROL(/etland Hy rimary Indi Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep	DGY rdrology Indicato cators (minimum Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5)	of one is		Aquatic True Aq Hydroge Oxidized (C3) Presend Recent (C6)	Fauna (B uatic Plar en Sulfide d Rhizosp d Rhizosp e of Redu Iron Redu	nts (B14) Odor (C1 wheres on uced Iron uction in T	Sect) Living Roots (C4) illed Soils	ondary Indic Surface S Drainage I Dry-Seasc Crayfish B Saturation Stunted or Ceomorph	cators (minimum of two require oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) I Visible on Aerial Imagery (C9) r Stressed Plants (D1)
ype: epth (inche emarks: WDROLO /etland Hy rimary Indi Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundati	DGY rdrology Indicato cators (minimum Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aeria	<u>of one is</u> al Imagery	- - - - - - - - 	Aquatic True Aq Hydroge Oxidized (C3) Presend Recent (C6) Thin Mu	Fauna (B uatic Plar en Sulfide d Rhizosp ee of Redu Iron Redu ck Surfac	odor (C1 odor (C1 oheres on uced Iron uction in T	Sect) Living Roots (C4) illed Soils	ondary Indic Surface S Drainage I Dry-Seasc Crayfish B Saturation Stunted or Ceomorph	cators (minimum of two require oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) I Visible on Aerial Imagery (C9) r Stressed Plants (D1) nic Position (D2)
ype: epth (inche emarks: warks: YDROL(/etland Hy rimary Indi Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundati Sparsely	DGY drology Indicato cators (minimum Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aeria / Vegetated Conca	<u>of one is</u> al Imagery ave Surfac	- - - - - - - - 	Aquatic True Aq Hydroge Oxidized (C3) Presenc Recent (C6) Thin Mu Gauge o	Fauna (B uatic Plar en Sulfide d Rhizosp ce of Redu Iron Redu ck Surfac or Well Da	odor (C1 odor (C1 oheres on uced Iron uction in T ce (C7) ata (D9)) Living Roots (C4) Tilled Soils	ondary Indic Surface S Drainage I Dry-Seasc Crayfish B Saturation Stunted or Ceomorph	cators (minimum of two require oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) I Visible on Aerial Imagery (C9) r Stressed Plants (D1) nic Position (D2)
ype: epth (inche emarks: IYDROL(/etland Hy rimary Indi Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatii Sparsely Water-S	DGY drology Indicato cators (minimum Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aeria / Vegetated Conca / tained Leaves (B9)	<u>of one is</u> al Imagery ave Surfac	- - - - - - - - 	Aquatic True Aq Hydroge Oxidized (C3) Presenc Recent (C6) Thin Mu Gauge o	Fauna (B uatic Plar en Sulfide d Rhizosp ee of Redu Iron Redu ck Surfac	odor (C1 odor (C1 oheres on uced Iron uction in T ce (C7) ata (D9)) Living Roots (C4) Tilled Soils	ondary Indic Surface S Drainage I Dry-Seasc Crayfish B Saturation Stunted or Ceomorph	cators (minimum of two require oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) I Visible on Aerial Imagery (C9) r Stressed Plants (D1) nic Position (D2)
ype: lepth (inche lemarks: IYDROLO Vetland Hy rimary Indi Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatii Sparsely Water-S ield Obser	DGY drology Indicato cators (minimum Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aeria / Vegetated Conca tained Leaves (B9 vations:	of one is al Imagery ave Surfac	/ (B7) ce (B8)	Aquatic True Aq Hydroge Oxidized (C3) Presend Recent (C6) Thin Mu Gauge o Other (E	Fauna (B uatic Plar en Sulfide d Rhizosp e of Redu Iron Redu ck Surfac or Well Da Explain in	nts (B14) Odor (C1 wheres on uced Iron uction in T ce (C7) ata (D9) Remarks) Living Roots (C4) Tilled Soils	ondary Indic Surface S Drainage I Dry-Seasc Crayfish B Saturation Stunted or Ceomorph	cators (minimum of two require oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) I Visible on Aerial Imagery (C9) r Stressed Plants (D1) nic Position (D2)
ype: bepth (inche emarks: IYDROL(Vetland Hy brimary Indi Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatii Sparsely Water-S ield Obser	DGY drology Indicato cators (minimum Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aeria / Vegetated Conca tained Leaves (B9 vations: er present?	of one is al Imagery ave Surfac)) Yes	/ (B7) ce (B8)	Aquatic True Aq Hydroge Oxidized (C3) Presend Recent (C6) Thin Mu Gauge o Other (E	Fauna (B uatic Plar en Sulfide d Rhizosp e of Redu Iron Redu ck Surfac or Well Da Explain in	nts (B14) Odor (C1 wheres on uced Iron uction in T ce (C7) ata (D9) Remarks	Seco) Living Roots (C4) illed Soils X X	ondary Indic Surface S Drainage I Dry-Seasc Crayfish B Saturation Stunted or Geomorph FAC-Neut	cators (minimum of two require oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) I Visible on Aerial Imagery (C9) r Stressed Plants (D1) nic Position (D2) ral Test (D5)
ype: epth (inche emarks: IYDROLO /etland Hy rimary Indi Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatii Sparsely Water-S ield Obser urface wat /ater table	DGY drology Indicato cators (minimum Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aeria / Vegetated Conca tained Leaves (B9 vations: er present? present?	of one is al Imagery ave Surfac)) Yes Yes	/ (B7) ce (B8) 	Aquatic True Aq Hydroge Oxidized (C3) Presend Recent (C6) Thin Mu Gauge o Other (E	Fauna (B uatic Plar en Sulfide d Rhizosp e of Redu Iron Redu ck Surfac or Well Da Explain in Depth (i Depth (i	hts (B14) Odor (C1 oheres on uced Iron uction in T ce (C7) ata (D9) Remarks inches): inches):	Seco Seco Living Roots (C4) illed Soils X X 24	ondary Indic Surface So Drainage I Dry-Seasc Crayfish B Saturation Stunted or Geomorph FAC-Neut	cators (minimum of two requir oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) I Visible on Aerial Imagery (C9) r Stressed Plants (D1) nic Position (D2) ral Test (D5)
ype: epth (inche emarks: IYDROLO /etland Hy rimary Indi Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Inundati Sparsely Water-S ield Obser urface wat /ater table aturation p	DGY drology Indicato cators (minimum Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aeria / Vegetated Conca tained Leaves (B9 vations: er present? present?	of one is al Imagery ave Surfac)) Yes	/ (B7) ce (B8)	Aquatic True Aq Hydroge Oxidized (C3) Presend Recent (C6) Thin Mu Gauge o Other (E	Fauna (B uatic Plar en Sulfide d Rhizosp e of Redu Iron Redu ck Surfac or Well Da Explain in	hts (B14) Odor (C1 oheres on uced Iron uction in T ce (C7) ata (D9) Remarks inches): inches):	Seco) Living Roots (C4) illed Soils X X	ondary Indic Surface So Drainage I Dry-Seasc Crayfish B Saturation Stunted or Geomorph FAC-Neut	cators (minimum of two requir oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) I Visible on Aerial Imagery (C9) r Stressed Plants (D1) nic Position (D2) ral Test (D5)
ype: yepth (inche emarks: IYDROLO Vetland Hy <u>Primary Indi</u> Surface High Wa Saturation Drift Dep Algal Ma Iron Dep Inundation Sparsely Water S Sield Obser Surface wat Vater table caturation p ncludes ca	DGY drology Indicato cators (minimum Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aeria / Vegetated Conca tained Leaves (B9) vations: er present? present? present? pillary fringe)	al Imagery ave Surfac)) Yes Yes Yes Yes	/ (B7) ce (B8) 	Aquatic True Aq Hydroge Oxidized (C3) Presend Recent (C6) Thin Mu Gauge o Other (E	Fauna (B uatic Plar en Sulfide d Rhizosp ce of Redu Iron Redu ck Surfac or Well Da Explain in Depth (i Depth (i	nts (B14) Odor (C1 oheres on uced Iron uction in T ce (C7) ata (D9) Remarks inches): inches):	Seco) Living Roots (C4) illed Soils X X) 	ondary Indic Surface So Drainage I Dry-Seasc Crayfish B Saturation Stunted or Geomorph FAC-Neut	cators (minimum of two requir oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) I Visible on Aerial Imagery (C9) r Stressed Plants (D1) nic Position (D2) ral Test (D5)
ype: epth (inche emarks: IYDROLO /etland Hy rimary Indi Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely Water-S ield Obser urface wat /ater table aturation p ncludes ca	DGY drology Indicato cators (minimum Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aeria / Vegetated Conca tained Leaves (B9 vations: er present? present?	al Imagery ave Surfac)) Yes Yes Yes Yes	/ (B7) ce (B8) 	Aquatic True Aq Hydroge Oxidized (C3) Presend Recent (C6) Thin Mu Gauge o Other (E	Fauna (B uatic Plar en Sulfide d Rhizosp ce of Redu Iron Redu ck Surfac or Well Da Explain in Depth (i Depth (i	nts (B14) Odor (C1 oheres on uced Iron uction in T ce (C7) ata (D9) Remarks inches): inches):	Seco) Living Roots (C4) illed Soils X X) 	ondary Indic Surface So Drainage I Dry-Seasc Crayfish B Saturation Stunted or Geomorph FAC-Neut	cators (minimum of two require oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) I Visible on Aerial Imagery (C9) r Stressed Plants (D1) nic Position (D2) ral Test (D5)
ype: epth (inche emarks: warks: ype: emarks: emarks: ype: fill fill ype: fill y fill ype: fill ype: fill y fill fill y fill y f fill fill f	DGY drology Indicato cators (minimum Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aeria / Vegetated Conca tained Leaves (B9) vations: er present? present? present? pillary fringe)	al Imagery ave Surfac)) Yes Yes Yes Yes	/ (B7) ce (B8) 	Aquatic True Aq Hydroge Oxidized (C3) Presend Recent (C6) Thin Mu Gauge o Other (E	Fauna (B uatic Plar en Sulfide d Rhizosp ce of Redu Iron Redu ck Surfac or Well Da Explain in Depth (i Depth (i	nts (B14) Odor (C1 oheres on uced Iron uction in T ce (C7) ata (D9) Remarks inches): inches):	Seco) Living Roots (C4) illed Soils X X) 	ondary Indic Surface So Drainage I Dry-Seasc Crayfish B Saturation Stunted or Geomorph FAC-Neut	cators (minimum of two require oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) I Visible on Aerial Imagery (C9) r Stressed Plants (D1) nic Position (D2) ral Test (D5)
ype: epth (inche emarks: IYDROLO /etland Hy rimary Indi Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely Water-S ield Obser urface wat /ater table aturation p ncludes ca	DGY drology Indicato cators (minimum Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aeria / Vegetated Conca tained Leaves (B9) vations: er present? present? present? pillary fringe)	al Imagery ave Surfac)) Yes Yes Yes Yes	/ (B7) ce (B8) 	Aquatic True Aq Hydroge Oxidized (C3) Presend Recent (C6) Thin Mu Gauge o Other (E	Fauna (B uatic Plar en Sulfide d Rhizosp ce of Redu Iron Redu ck Surfac or Well Da Explain in Depth (i Depth (i	nts (B14) Odor (C1 oheres on uced Iron uction in T ce (C7) ata (D9) Remarks inches): inches):	Seco) Living Roots (C4) illed Soils X X) 	ondary Indic Surface So Drainage I Dry-Seasc Crayfish B Saturation Stunted or Geomorph FAC-Neut	cators (minimum of two require oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) I Visible on Aerial Imagery (C9) r Stressed Plants (D1) nic Position (D2) ral Test (D5) cators of wetland

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site 13120 County Rd 6	City/Co	ounty: P	lymouth/Hen	nepin	Sampling Date:	4/8/20
Applicant/Owner: Kirt Woodhouse		State:	Minnes	ota S	Sampling Point:	2-UP
Investigator(s): ACM		Sectio	on, Township	, Range:	Sec. 27	7, T118N, R22W
Landform (hillslope, terrace, etc.): footslope		Local re	elief (concave	e, convex,	none):	linear
Slope (%): 3 Lat:		Long:		I	Datum:	
Soil Map Unit Name Urban land-Udipsamments			NWI C	Classificati	on:	
Are climatic/hydrologic conditions of the site typical for this	time of t	he year?	N (If	f no, expla	in in remarks)	
Are vegetation , soil , or hydrology	5	significantly	disturbed?		Are "normal circ	cumstances"
Are vegetation , soil , or hydrology		naturally pro	oblematic?			present? Yes
SUMMARY OF FINDINGS				(If neede	ed, explain any a	answers in remarks.)
Hydrophytic vegetation present? Y						
Hydric soil present? N		Is the sa	ampled area	within a	wetland?	N
Indicators of wetland hydrology present? N		f yes, opt	tional wetlan	d site ID:		
Remarks: (Explain alternative procedures here or in a sepa	rate rep	ort.)				
	-					
Antecedent precipitation data indi	cate we	etter than	normal cor	nditions.	See Appendi	x A.
L VEGETATION Use scientific names of plants.						
	solute	Dominan	Indicator	Domina	nce Test Work	sheet
		Species	Staus		of Dominant Spe	
1					BL, FACW, or F	
2				Total I	Number of Domi	nant
3				Speci	ies Across all St	rata: <u>4</u> (B)
4					of Dominant Spe	
5	0 =	Total Cover		that are C	OBL, FACW, or F	FAC: 75.00% (A/B)
Sapling/Shrub stratum (Plot size: 15' radius)			ŀ	Prevale	nce Index Wor	ksheet
	30	Y	FACW		Cover of:	
2				OBL spe	ecies 0	x 1 = 0
3				FACW s		x 2 = 100
4				FAC spe		x = 60
5	30 =	Total Cover		FACU sp		x 4 = 60
Herb stratum (Plot size: 5' radius)	=			UPL spe Column		x 5 = 0 (A) 220 (B)
/	20	Y	FAC		nce Index = B/A	()
	15	<u> </u>	FACU	Fievalei	ice index – D/A	
	15	Y	FACW	Hydroph	hytic Vegetatio	n Indicators:
	5	N	FACW			phytic vegetation
5					ninance test is >	
6				X Prev	alence index is	≤3.0*
7					phogical adapta	
8		·			oorting data in F arate sheet)	Remarks or on a
10		·			-	hytic vegetation*
	55 =	Total Cover			lain)	
Woody vine stratum (Plot size: 30' radius)				*Indicato	rs of hydric soil and	d wetland hydrology must be
1						urbed or problematic
2				•	rophytic	
	0 =	Total Cover		-	etation sent?	Y
Remarks: (Include photo numbers here or on a separate sh	neet)					

SOIL

Profile Desc	cription: (Descr	ibe to th	e depth needed	to docu	ment the	e indicate	or or confirm the abs	sence of indicators.)
Depth	Matrix		Re	dox Feat	ures			
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks
0-7	10YR2/2	100					sandy clay loam	
7-18	10YR2/1	100					silty clay loam	
18-24	10YR5/4	100					sand	
							00110	
*Type: C = C	Concentration, D :	= Depleti	on, RM = Reduce	ed Matrix	, MS = N	lasked S	and Grains. **Loc	ation: PL = Pore Lining, M = Matrix
	il Indicators:		·					oblematic Hydric Soils:
Hist	isol (A1)		Sar	ndy Gleye	ed Matrix	: (S4)	Coast Prairie	Redox (A16) (LRR K, L, R)
Hist	ic Epipedon (A2)		Sar	ndy Redo	x (S5)			e (S7) (LRR K, L)
	ck Histic (A3)			pped Ma	. ,			ese Masses (F12) (LRR K, L, R)
	rogen Sulfide (A4			amy Mucl	-			Dark Surface (TF12)
	tified Layers (A5))	Loa	amy Gley	ed Matrix	(F2)	Other (explai	n in remarks)
	n Muck (A10)			pleted Ma	. ,			
-	leted Below Dark			dox Dark		. ,		
	k Dark Surface (,		pleted Da		. ,		hydrophytic vegetation and weltand
	dy Mucky Minera	. ,		dox Depr	essions ((F8)	hydrology mu	st be present, unless disturbed or
5 cr	n Mucky Peat or	Peat (S3)					problematic
	Layer (if observe	ed):						
Туре:							Hydric soil pre	sent? N
Depth (inche	es):				-			
Remarks:								
HYDROLO	DGY							
Wetland Hy	drology Indicato	ors:						
Primary Indi	cators (minimum	of one is	required; check	all that a	pply)		Secondary	Indicators (minimum of two required)
Surface	Water (A1)			Aquatic	Fauna (B	13)	Surfa	ace Soil Cracks (B6)
_	ter Table (A2)				uatic Plar			nage Patterns (B10)
Saturatio						Odor (C1		Season Water Table (C2)
	arks (B1)				l Rhizosp	heres on	· · · ·	fish Burrows (C8)
	t Deposits (B2)			(C3)	o of Podu	upped from		ration Visible on Aerial Imagery (C9)
	oosits (B3) t or Crust (B4)					uced Iron	. ,	ted or Stressed Plants (D1) morphic Position (D2)
	osits (B5)			(C6)	Ion Redu			-Neutral Test (D5)
	on Visible on Aeria	al Imagery	/ (B7)		ck Surfac	e (C7)	<u></u>	
	Vegetated Conca			-	or Well Da			
	tained Leaves (B9		. ,	Other (E	xplain in	Remarks)	
Field Obser	vations:			-				
Surface wate		Yes	No	Х	Depth (i	nches):	-	
Water table	present?	Yes	No	Х	Depth (i		>24	Indicators of wetland
Saturation p		Yes	No	Х	Depth (i	nches):	>24	hydrology present? N
(includes ca								
Describe rec	orded data (strea	am gauge	e, monitoring wel	l, aerial p	hotos, pr	revious ir	spections), if available	e:
Pomorko								
Remarks:								

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site 13120 County Rd 6	City/County: Plymouth/He			Hennepin Sampling Date: 4/8/20		
Applicant/Owner: Kirt Woodhouse	-	State:	Minnes	ota	Sampling Point:	2-WET
Investigator(s): ACM		Sect	ion, Township	o, Range:	Sec. 27, T ²	118N, R22W
Landform (hillslope, terrace, etc.): toeslope)	Local	relief (concav	e, convex	, none):	concave
Slope (%): 1 Lat:		Long:			Datum:	
Soil Map Unit Name Urban land-Udipsamments			NWI C	Classificati	ion:	
Are climatic/hydrologic conditions of the site typical for this	is time of	the year?	N (li	f no, expla	in in remarks)	
Are vegetation , soil , or hydrology	/	significant	y disturbed?		Are "normal circum	stances"
Are vegetation , soil , or hydrology	/	naturally p	roblematic?			present? Yes
SUMMARY OF FINDINGS				(If need	ed, explain any ans	wers in remarks.)
Hydrophytic vegetation present? Y						
Hydric soil present? Y		Is the	sampled area	a within a	wetland?	Y
Indicators of wetland hydrology present? Y		f yes, o	ptional wetlan	nd site ID:		
Remarks: (Explain alternative procedures here or in a sep	parate re	port.)				
		p o)				
Antecedent precipitation data inc	dicate v	vetter thar	n normal co	nditions.	See Appendix A	
VEGETATION Use scientific names of plants.						
	bsolute	Dominan	Indicator	Domina	nce Test Workshe	et
	o Cover	t Species	Staus		of Dominant Species	
1 Populus deltoides	15	Ŷ	FAC		OBL, FACW, or FAC	
2				Total	Number of Dominan	t
3				Spec	ies Across all Strata	: <u>4</u> (B)
4					of Dominant Species	
5	45	Tatal Cau		that are (OBL, FACW, or FAC	: <u>100.00%</u> (A/B)
Sapling/Shrub stratum (Plot size: 15' radius)	15 =	Total Cove	er	Provalo	nce Index Worksh	oot
1 Salix interior	20	Y	FACW		Cover of:	661
2 Rhamnus cathartica	7	Y	FAC	OBL spe		= 35
3 Cornus alba	5	N	FACW	FACW		
4				FAC spe	ecies 22 x 3	66
5				FACU s		
	32 =	= Total Cove	er	UPL spe		
<u>Herb stratum</u> (Plot size: <u>5' radius</u>)		.,	0.51	Column	(,	
1 Carex pellita	35	<u>Y</u>	OBL	Prevalei	nce Index = B/A =	1.88
2 Salix interior 3 Persicaria pensylvanica	10 10	<u>N</u>	FACW FACW	Hydron	hytic Vegetation Ir	dicators:
4 Solidago gigantea	5	N	FACW		id test for hydrophy	
5 Cornus alba	5	N	FACW		ninance test is >50%	•
6		······································		X Prev	valence index is ≤3.	0*
7				Mor	phogical adaptation	s* (provide
8					porting data in Rem	arks or on a
9					arate sheet)	
10	65 =	Total Cove			olematic hydrophyti olain)	c vegetation*
Woody vine stratum (Plot size: 30' radius)			21			
1					ors of hydric soil and we present, unless disturbe	tland hydrology must be d or problematic
2				Hyd	Irophytic	
	0 =	Total Cove	er	-	etation	
				pre	sent? Y	-
Remarks: (Include photo numbers here or on a separate s	sheet)					

SOIL

Depth Color (moist) % Color (moist) % Type Loc* Texture Remarks 0-18 10/R2/1 100 2 C PL fine sand sity loam	Profile Desc	cription: (Descr	ibe to th	e depth needed	to docu	ment the	e indicat	or or confirm the a	absence of indicators.)
0-18 10YR2/1 100 sity loam 18-24 2.5Y5/2 98 10YR4/6 2 C PL fine sand 18-24 2.5Y5/2 98 10YR4/6 2 C PL fine sand 19-24 2.5Y5/2 98 10YR4/6 2 C PL fine sand 19-24 2.5Y5/2 98 10YR4/6 2 C PL fine sand 19-24 2.5Y5/2 98 10YR4/6 2 C PL fine sand 19-24 2.5Y5/2 98 10YR4/6 2 C PL fine sand 19-24 2.5Y5/2 98 10YR4/6 2 C PL fine sand 17-26 Concat Final Redox (At C) 5 Concat Final Redox (At C) Cost Final Surface (S7) (LRR K, L, R) Todicators (Final Parke (S1) Cost Final Surface (S7) (LRR K, L, R) 19-25 2 cm Muck (At0) Depited Dark Surface (F7) "Indicators of hydrophysic weptation and welland hydrology indicators 19-25 <td< td=""><td>Depth</td><td>Matrix</td><td></td><td>Re</td><td>dox Feat</td><td>ures</td><td></td><td></td><td></td></td<>	Depth	Matrix		Re	dox Feat	ures			
18-24 2.5Y5/2 98 10YR4/6 2 C PL fine sand Image: Secondary Indicators: Image: Secondary Indicators: Image: Secondary Indicators: Indicators for Problematic Hydric Soils: Histist Dipotent (A2) Sandy Redx (S5) Image: Secondary Indicators: Indicators for Problematic Hydric Soils: Histist Dipotent (A2) Sandy Redx (S5) Dark Surface (S1) (LRR K, L, R) Black Histis (A3) Stripped Matrix (S6) Dark Surface (S1) (LRR K, L, R) Stratified Layers (A5) Dopheted Matrix (S8) Other (oxplain in remarks) 2 cm Muck (A10) Dopheted Matrix (S7) "Indicators of hydrophytic vegatation and weitand hydrology must be present, unless disturbed or problematic Sandy Mucky Mineral (S1) Redx Depressions (F8) Puptice Soil present? Y Poet (inches): Type: Hydric Soil present? Y Poet (inches): Matrix (S1) Surface G1(1) Sourface (S1) Surface Water (A1) Aquatic Fauna (B13) Surface Soil Cracks (B0) Surface Soil Torsecond Park Surface (F1) "Indicators (Innimum of two required)" Ype: Depheted Matrix (F3) Surface Soil Cracks	(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks
18-24 2.5Y5/2 98 10YR4/6 2 C PL fine sand Image: Secondary Links of the se	0-18	10YR2/1	100					silty loam	
Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. "Location: PL = Pore Lining, M = Matrix. Hype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. "Location: PL = Pore Lining, M = Matrix. Hype: C = Concentration, D = Depletion, RM = Reduced Matrix, (S4) Indicators: Indicators for Problematic Hyper Solis: Histic Soli Indicators: Sandy Redux (S5) Coast Praine Redux (A16) (LRR K, L, R) Black Histic (A3) Stripped Matrix (S4) Derived Matrix (S4) Histic (A4) Learny Wucky Mineral (F1) Weth Watrix (S4) Depleted Delow Dark Surface (A11) Redux Dark Surface (F7) "Indicators of hydrophytic vegatation and weltand hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Depleted Dark Surface (F7) "Indicators of hydrophytic vegatation and weltand hydrology indicators: Prince: Hydric soil present? Y Surface Water (A1) Aquatic Fiana (B13) Surface Soil Cracks (B6) Surface Water (A11) Aquatic Fiana (B13) Surface Soil Cracks (B6) Surface Water (A1) Aquatic Fiana (B13) Drivage asset Table (C2) Surface Starts Cost Fiana (B13) Surface Soil Cracks (B6) Surface Water (A1) Presence or Reduced Iron (C4) <td>18-24</td> <td>2 5Y5/2</td> <td>98</td> <td>10YR4/6</td> <td>2</td> <td>С</td> <td>PI</td> <td></td> <td></td>	18-24	2 5Y5/2	98	10YR4/6	2	С	PI		
Hydric Soil Indicators: Indicators for Problematic Hydric Soils: Histisol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mueky Mineral (F1) Very Shallow Dark Surface (F2) Stratified Layers (A5) Loamy Gleyed Matrix (F3) Other (explain in remarks) Z cm Muck (A10) Depleted Dark Surface (F6) Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic Sandy Mucky Mineral (S1) Redox Dark Surface (F7) Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic Restrictive Layer (If observed): Type: Hydric soil present? Y Remarks: Primary Indicators: Y Sacondary Indicators: Sacondary Indicators (minimum of two required) Surface Water (A1) Aquatic Fauna (B13) Surface Soil Cracks (B6) Dranage Patems (B10) Surface Water (A1) Aquatic Fauna (B13) Surface Soil Cracks (B6) Dranage Patems (E10) Surface Water (A1) Aquatic Fauna (B13) Surface Soil Cracks (B6) Saturation (A3) Surface G7) Sediment Deposits (B2) C(G3) <t< td=""><td>10 24</td><td>2.010/2</td><td>00</td><td>1011(4/0</td><td>2</td><td><u> </u></td><td></td><td></td><td></td></t<>	10 24	2.010/2	00	1011(4/0	2	<u> </u>			
Hydric Soil Indicators: Indicators for Problematic Hydric Soils: Histisol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mueky Mineral (F1) Very Shallow Dark Surface (F2) Stratified Layers (A5) Loamy Gleyed Matrix (F3) Other (explain in remarks) Z cm Muck (A10) Depleted Dark Surface (F6) Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic Sandy Mucky Mineral (S1) Redox Dark Surface (F7) Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic Restrictive Layer (If observed): Type: Hydric soil present? Y Remarks: Primary Indicators: Y Sacondary Indicators: Sacondary Indicators (minimum of two required) Surface Water (A1) Aquatic Fauna (B13) Surface Soil Cracks (B6) Dranage Patems (B10) Surface Water (A1) Aquatic Fauna (B13) Surface Soil Cracks (B6) Dranage Patems (E10) Surface Water (A1) Aquatic Fauna (B13) Surface Soil Cracks (B6) Saturation (A3) Surface G7) Sediment Deposits (B2) C(G3) <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
Hydric Soil Indicators: Indicators for Problematic Hydric Soils: Histisol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mueky Mineral (F1) Very Shallow Dark Surface (F2) Stratified Layers (A5) Loamy Gleyed Matrix (F3) Other (explain in remarks) Z cm Muck (A10) Depleted Dark Surface (F6) Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic Sandy Mucky Mineral (S1) Redox Dark Surface (F7) Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic Restrictive Layer (If observed): Type: Hydric soil present? Y Remarks: Primary Indicators: Y Sacondary Indicators: Sacondary Indicators (minimum of two required) Surface Water (A1) Aquatic Fauna (B13) Surface Soil Cracks (B6) Dranage Patems (B10) Surface Water (A1) Aquatic Fauna (B13) Surface Soil Cracks (B6) Dranage Patems (E10) Surface Water (A1) Aquatic Fauna (B13) Surface Soil Cracks (B6) Saturation (A3) Surface G7) Sediment Deposits (B2) C(G3) <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
Hydric Soil Indicators: Indicators for Problematic Hydric Soils: Histisol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mueky Mineral (F1) Very Shallow Dark Surface (F2) Stratified Layers (A5) Loamy Gleyed Matrix (F3) Other (explain in remarks) Z cm Muck (A10) Depleted Dark Surface (F6) Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic Sandy Mucky Mineral (S1) Redox Dark Surface (F7) Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic Restrictive Layer (If observed): Type: Hydric soil present? Y Remarks: Primary Indicators: Y Sacondary Indicators: Sacondary Indicators (minimum of two required) Surface Water (A1) Aquatic Fauna (B13) Surface Soil Cracks (B6) Dranage Patems (B10) Surface Water (A1) Aquatic Fauna (B13) Surface Soil Cracks (B6) Dranage Patems (E10) Surface Water (A1) Aquatic Fauna (B13) Surface Soil Cracks (B6) Saturation (A3) Surface G7) Sediment Deposits (B2) C(G3) <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
Hydric Soil Indicators: Indicators for Problematic Hydric Soils: Histisol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mueky Mineral (F1) Very Shallow Dark Surface (F2) Stratified Layers (A5) Loamy Gleyed Matrix (F3) Other (explain in remarks) Z cm Muck (A10) Depleted Dark Surface (F6) Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic Sandy Mucky Mineral (S1) Redox Dark Surface (F7) Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic Restrictive Layer (If observed): Type: Hydric soil present? Y Remarks: Primary Indicators: Y Sacondary Indicators: Sacondary Indicators (minimum of two required) Surface Water (A1) Aquatic Fauna (B13) Surface Soil Cracks (B6) Dranage Patems (B10) Surface Water (A1) Aquatic Fauna (B13) Surface Soil Cracks (B6) Dranage Patems (E10) Surface Water (A1) Aquatic Fauna (B13) Surface Soil Cracks (B6) Saturation (A3) Surface G7) Sediment Deposits (B2) C(G3) <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
Hydric Soil Indicators: Indicators for Problematic Hydric Soils: Histisol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mueky Mineral (F1) Very Shallow Dark Surface (F2) Stratified Layers (A5) Loamy Gleyed Matrix (F3) Other (explain in remarks) Z cm Muck (A10) Depleted Dark Surface (F6) "Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic Standy Mucky Mineral (S1) Redox Dark Surface (F7) "Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic Restrictive Layer (If observed): Type: Hydric soil present? Y Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Surface Water (A1) Aquatic Fauna (B13) Surface Soil Cracks (B6) Dariage Patterns (B10) Surface Water (A1) Aquatic Fauna (B13) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Primary Indicators (B2) Crayfin Burrows (C8) Surface (C1) Surface Patterns (B10) Surface Soil Cracks (B6) Surface Soil Cracks (B6)									
Hydric Soil Indicators: Indicators for Problematic Hydric Soils: Histisol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mueky Mineral (F1) Very Shallow Dark Surface (F2) Stratified Layers (A5) Loamy Gleyed Matrix (F3) Other (explain in remarks) Z cm Muck (A10) Depleted Dark Surface (F6) "Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic Standy Mucky Mineral (S1) Redox Dark Surface (F7) "Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic Restrictive Layer (If observed): Type: Hydric soil present? Y Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Surface Water (A1) Aquatic Fauna (B13) Surface Soil Cracks (B6) Dariage Patterns (B10) Surface Water (A1) Aquatic Fauna (B13) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Primary Indicators (B2) Crayfin Burrows (C8) Surface (C1) Surface Patterns (B10) Surface Soil Cracks (B6) Surface Soil Cracks (B6)									
Hydric Soil Indicators: Indicators for Problematic Hydric Soils: Histisol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mueky Mineral (F1) Very Shallow Dark Surface (F2) Stratified Layers (A5) Loamy Gleyed Matrix (F3) Other (explain in remarks) Z cm Muck (A10) Depleted Dark Surface (F6) "Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic Standy Mucky Mineral (S1) Redox Dark Surface (F7) "Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic Restrictive Layer (If observed): Type: Hydric soil present? Y Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Surface Water (A1) Aquatic Fauna (B13) Surface Soil Cracks (B6) Dariage Patterns (B10) Surface Water (A1) Aquatic Fauna (B13) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Primary Indicators (B2) Crayfin Burrows (C8) Surface (C1) Surface Patterns (B10) Surface Soil Cracks (B6) Surface Soil Cracks (B6)	*Turnet C C	Concentration D	Deplet	an DM Dadua			lookod C	and Crains **!	application DL Dave Lining M. Metri
Histisol (A1) Sandy Gleyed Matrix (S4) Coast Parline Redox (A16) (LRR K, L, R) Black Histic (A3) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L, R) Black Histic (A3) Stripped Matrix (S6) Dorn-Manganese Masses (F12) (LRR K, L, R) Stratified Layers (A5) Learny Mucky Mineral (F1) Very Shallow Dark Surface (TF12) 2 cm Muck (A10) Depleted Matrix (F2) Other (explain in remarks) 2 cm Muck (A10) Depleted Dark Surface (F7) Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Hydric soil present? Y Poelematics Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A11) Aquatic Fauna (B13) Surface Soil Cracks (B6) Drainage Patterns (B10) Surface Water (A11) Aquatic Fauna (B13) Surface Soil Cracks (B6) Drainage Patterns (B10) Surface Water (A11) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Surface Carks (B6) Surface Soil Cracks (B5) (C3) Presence of Reduced Iron (C4) Sturface (C7) Sediment Deposits (B3) Presence of Reduced Iron (C4) Secondary Indic			= Depieti	ion, $RIM = Reduct$	ed Matrix	, IVIS = IV	lasked S		
Histic Epipedon (A2) Standy Redox (S5) Dark Surface (S7) (LRR K, L, B) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) (LRR K, L, R) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (explain in remarks) 2 cm Muck (A10) Depleted Dark Surface (F7) Thick Dark Surface (A11) Redox Dark Surface (F6) Standy Mucky Mineral (S1) Depleted Dark Surface (F7) *Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: Personne * Type: Depth (inches):	-			50		ad Matrix	(84)		2
Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) 2 cm Muck (A10) Depleted Matrix (F2) Other (explain in remarks) Depleted Below Dark Surface (A11) Redox Dark Surface (F7) Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic Sandy Mucky Mineral (S1) Redox Depressions (F8) "Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: Hydric soil present? Y Depth (inches): Redox Depressions (F8) Surface Soil Cracks (B6) Surface Soil Cracks (B6) HybroLOGY True Aquatic Plants (B14) Darianage Patterns (B10) Surface Soil Cracks (B6) Surface Water (A1) Aquatic Fauna (B13) Surface Soil Cracks (B6) Sturtator Visite on Aerial Imagery (C9) Staturation (A3) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Crayits Burrows (C3) Sturation Visite on Aerial Imagery (C9) Sturation Visite on Aerial Imagery (B7) Tin Muck Surface (C7) Sturation Visite on Aerial Imagery (B7) Sturation (Visite on Aerial Imagery (C9) Mater Kathes Clace Concave Surface (B8) </td <td></td> <td>. ,</td> <td></td> <td></td> <td></td> <td></td> <td>(34)</td> <td></td> <td></td>		. ,					(34)		
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (explain in remarks) Depleted Below Dark Surface (A12) Depleted Matrix (F2) Other (explain in remarks) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) *Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: Hydric soil present? Y Depleted Below Dark Surface (A12) Aquatic Fauna (B13) Surface Soil Cracks (B6) True Aquatic Fauna (B13) Surface Water (A1) Aquatic Fauna (B13) Surface Soil Cracks (B6) Dry-inage Patterns (B10) Surface Water (A1) Aquatic Fauna (B13) Dry-inage Patterns (B10) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Ordized Rhizospheres on Living Roots Crayfish Burrows (C3) Surface Soil Cracks (B6) Sediment Deposits (B3) Presence of Reduced Iron Reduction in Tilled Soils Crayfish Burrows (C3) Surtace Orlease Water (D1) Agater Marks (B1) Cosh Crayfish Burrows (C3) Surface (C6) Surface (C7) Sediment Deposits (B5) (C6) Crayfish Burrows (C3) Surtace Vater (D5) Surtace (C1)					-				
Strattifed Layers (A5) Loamy Gleyed Matrix (F2) Other (explain in remarks) 2 cm Muck (A10) Depleted Matrix (F3) Thick Dark Surface (A11) Sandy Mucky Mineral (S1) Redox Dark Surface (F7) *Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: Hydric soil present? Y Depleted Delow Dark Surface (A11) Redox Depressions (F8) hydrology must be present? Y Remarks: Hydric soil present? Y Petersent? Y Depleted Delow Dark Surface (A11) Aquatic Fauna (B13) Surface Soil Cracks (B6) Drainage Patterms (B10) Surface Water (A11) Aquatic Fauna (B13) Surface Soil Cracks (B6) Drainage Patterms (B10) Surface Water (A11) Aquatic Fauna (B13) Surface Soil Cracks (B6) Drainage Patterms (B10) Saturation (A3) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Crayfish Burrows (C3) Sediment Deposits (B2) (C3) Presence of Reduced Iron (C4) Statuation Visible on Aerial Imagery (C9) Shift Deposits (B3) Presence of Reduced Iron (C4) Statuet or Stressed Plants (D1) Statuet or Stressed Plants (D1) Indicators (B9)		. ,	1)			. ,	al (E1)		
2 cm Muck (A10) Depleted Matrix (F3) Bepleted Below Dark Surface (A12) Redox Dark Surface (F6) X Trick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) 'Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: Hydric soil present? Y Depleted Matrix (F3) Hydric soil present? Y Bethictive Layer (if observed): Y Y Type: Hydric soil present? Y Deplet (inches):					•	•	. ,		
Depleted Below Dark Surface (A11) Redox Dark Surface (F6) X Thick Dark Surface (A12) Depleted Dark Surface (F7) *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: Hydric soil present? Y Depth (inches):			,						
Thick Dark Surface (A12) Depleted Dark Surface (F7) *Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic Sandy Mucky Peat or Peat (S3) Predox Depressions (F8) *Indicators of hydrophytic vegetation and weltand hydrology must be present, unless disturbed or problematic Restrictive Layer (If observed): Type: Hydric soil present? Y Depth (inches): Remarks: Hydrology Indicators: Y Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required) Surface Vater (A1) Aquatic Fauna (B13) Surface Soil Cracks (B6) High Water Table (A2) True Aquatic Plants (B14) Drainage Patterns (B10) Saturation (A3) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Water Marks (B1) Oxidized Rhizospheres on Living Roots Saturation Visible on Aerial Imagery (C9) Solif Deposits (B3) Presence of Reduced Iron (C4) Saturation (Visible on Aerial Imagery (B7) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils X Field Observations: (C6) X Depth (inches): Surface Water present? Yes No X Depth (inches): Sturface Vater pres		()	Surface			()			
Sandy Mucky Mineral (S1) Redox Depressions (F8) hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: Hydric soil present? Y Depth (inches):				· · ·			. ,	*Indicators	of hydrophytic vogotation and woltanc
		,					. ,		
Restrictive Layer (if observed): Type:			. ,			00010110	(10)	nydrology	•
Type: Hydric soil present? Y Depth (inches):		-		·)			1		F
Depth (inches):		Layer (If observe	ea):					Undria apil .	
Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Aquatic Fauna (B13) Surface Soil Cracks (B6) High Water Table (A2) True Aquatic Plants (B14) Drainage Patterns (B10) Saturation (A3) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Water Marks (B1) Oxidized Rhizospheres on Living Roots Crayfish Burrows (C8) Sediment Deposits (B2) (C3) Saturation (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 Geomorphic Position (D2) Iron Deposits (B5) Glauge or Well Data (D9) X FAC-Neutral Test (D5) Water table present? Yes No X Depth (inches): -24 Sutration present? Yes No Depth (inches): -18 Mydrology present? Y Water table present? Yes No Depth (inches): 18 Mydrology present? Y </td <td></td> <td><i>bc)</i>:</td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>Hydric Soli </td> <td>present? Y</td>		<i>bc)</i> :				-		Hydric Soli	present? Y
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Aquatic Fauna (B13) Surface Soil Cracks (B6) High Water Table (A2) True Aquatic Plants (B14) Drainage Patterns (B10) Saturation (A3) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Water Marks (B1) Oxidized Rhizospheres on Living Roots Crayfish Burrows (C8) Sediment Deposits (B2) (C3) Saturation in Visible on Aerial Imagery (C9) Drift Deposits (B5) Presence of Reduced Iron (C4) Sturde or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils X Geomorphic Position (D2) Iron Deposits (B5) (C6) X FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Sparsely Vegetated Concave Surface (B8) Water rable present? Yes No X Depth (inches):						-			
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Aquatic Fauna (B13) Surface Soil Cracks (B6) High Water Table (A2) True Aquatic Plants (B14) Drainage Patterns (B10) Saturation (A3) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Water Marks (B1) Oxidized Rhizospheres on Living Roots Crayfish Burrows (C8) Sediment Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Innudation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Sapsely Vegetated Concave Surface (B8) Water-Stained Leaves (B9) Other (Explain in Remarks) Thin Recent Iron Reduction in Remarks) Field Observations: Surface water present? Yes No Surface water present? Yes No X Depth (inches): -24 Indicators of wetland hydrology present? Y Y									
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Aquatic Fauna (B13) Surface Soil Cracks (B6) High Water Table (A2) True Aquatic Plants (B14) Drainage Patterns (B10) Saturation (A3) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Water Marks (B1) Oxidized Rhizospheres on Living Roots Crayfish Burrows (C8) Sediment Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Inudation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Sapsely Vegetated Concave Surface (B8) Water Table present? Yes No X Depth (inches): - Surface water present? Yes No X Depth (inches): - Surface spillary fringe) Depth (inches): - - Indicators of wetland hydrology present? Y Surface available recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Secondary Indicators (minimum of two required)		OGY							
Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Aquatic Fauna (B13) Surface Soil Cracks (B6) High Water Table (A2) True Aquatic Plants (B14) Drainage Patterns (B10) Saturation (A3) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Water Marks (B1) Oxidized Rhizospheres on Living Roots Crayfish Burrows (C8) Sediment Deposits (B3) Presence of Reduced Iron (C4) Sturato visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils Geomorphic Position (D2) Iron Deposits (B5) (C6) X FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Sarsely Vegetated Concave Surface (B8) Water-Stained Leaves (B9) Other (Explain in Remarks) - - Field Observations: Yes No X Depth (inches): -24 - Saturation present? Yes No Depth (inches): -24 - Indicators of wetland hydrology present? Y Gauge or well present? Yes No Depth (inches): -24 - - Indicators of wetland hydrology present? Y			ors:						
Surface Water (A1) Aquatic Fauna (B13) Surface Soil Cracks (B6) High Water Table (A2) True Aquatic Plants (B14) Drainage Patterns (B10) Saturation (A3) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Water Marks (B1) Oxidized Rhizospheres on Living Roots Crayfish Burrows (C8) Sediment Deposits (B2) (C3) Saturation 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 X Geomorphic Position (D2) Inon Deposits (B5) (C6) X FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Sauration in Remarks) Field Observations: Gauge or Well Data (D9) X Depth (inches): - Water table present? Yes No X Depth (inches): - Water table present? Yes No Depth (inches): - Indicators of wetland hydrology present? Yes No Depth (inches): - Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Mailable:	-			roquired: check	all that a	nnly)		Second	on Indiantors (minimum of two requir
High Water Table (A2) True Aquatic Plants (B14) Drainage Patterns (B10) Saturation (A3) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Water Marks (B1) Oxidized Rhizospheres on Living Roots Crayfish Burrows (C8) Sediment Deposits (B2) (C3) Saturation (C4) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils X Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Sparsely Vegetated Concave Surface (B8) Water Stained Leaves (B9) Other (Explain in Remarks) Field Observations: Surface water present? Yes No X Depth (inches): -24 Mater table present? Yes No X Depth (inches): -24 Indicators of wetland hydrology present? Y Saturation present? Yes X Depth (inches): -18 hydrology present? Y Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Material blace -24 Indicators of wetland hydrology present? Y				required, check			12)		
Saturation (A3) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Water Marks (B1) Oxidized Rhizospheres on Living Roots Crayfish Burrows (C8) Sediment Deposits (B2) (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils Geomorphic Position (D2) Iron Deposits (B5) (C6) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Saturation I can be explained Leaves (B9) Water-Stained Leaves (B9) Other (Explain in Remarks) Field Observations: Surface water present? Yes No X Depth (inches): - Water table present? Yes No X Depth (inches): >24 hydrology present? Y Includes capillary fringe) Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Y		()				``	,		
Water Marks (B1) Oxidized Rhizospheres on Living Roots Crayfish Burrows (C8) Sediment Deposits (B2) (C3) Saturation 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 X Geomorphic Position (D2) Iron Deposits (B5) (C6) X FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks) Other (Explain in Remarks) Indicators of wetland Field Observations: Yes No X Depth (inches): - Saturation present? Yes No Z Depth (inches): - Mater table present? Yes No Depth (inches): - - Mater table present? Yes No Depth (inches): - - - Des	_								
Sediment Deposits (B2) (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils Saturation Visible on Aerial Imagery (C9) Iron Deposits (B5) (C6) Thin Muck Surface (C7) Geomorphic Position (D2) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations: Surface water present? Yes No X Depth (inches): - Saturation present? Yes No X Depth (inches): - - Mater table present? Yes X Depth (inches): - - - Mater table present? Yes X Depth (inches): - - - Saturation present? Yes X Depth (inches): - - - Mater table present? Yes X Depth (inches): - - - - - Mater table present? Yes X Depth (inches): - - - - - - - - - - -									
Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils X Geomorphic Position (D2) Iron Deposits (B5) (C6) X FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Sparsely Vegetated Concave Surface (B8) Gauge or Well Data (D9) Water-Stained Leaves (B9) Other (Explain in Remarks) Indicators of wetland Field Observations: Yes No X Depth (inches): - Saturation present? Yes No X Depth (inches): >24 Indicators of wetland hydrology present? Y Gincludes capillary fringe) Depth (inches): 18 hydrology present? Y Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Indicatore Y		· · ·							
Iron Deposits (B5) (C6) X FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Gauge or Well Data (D9) Other (Explain in Remarks) Field Observations: Surface water present? Yes No Surface water present? Yes No X Water table present? Yes No X Saturation present? Yes X No No Saturation present? Yes X No No No Depth (inches): 18 hydrology present? Y (includes capillary fringe) Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:						e of Redu	uced Iron		
Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Sparsely Vegetated Concave Surface (B8) Gauge or Well Data (D9) Water-Stained Leaves (B9) Other (Explain in Remarks) Field Observations: Surface water present? Surface water present? Yes No X Depth (inches): Water table present? Yes No X Depth (inches): Saturation present? Yes Yes X No Depth (inches): 18 Indicators of wetland hydrology present? Y (includes capillary fringe) Depth (acrial photos, previous inspections), if available:	Algal Ma	at or Crust (B4)			Recent I	ron Redu	ction in T	illed Soils X G	eomorphic Position (D2)
Sparsely Vegetated Concave Surface (B8) Gauge or Well Data (D9) Water-Stained Leaves (B9) Other (Explain in Remarks) Field Observations: Surface water present? Yes Surface water present? Yes No X Depth (inches): Water table present? Yes No X Depth (inches): >24 Saturation present? Yes X No Depth (inches): >24 hydrology present? (includes capillary fringe) Yes X No Depth (inches): 18 hydrology present? Y Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Indicators of welland					(C6)			X F	AC-Neutral Test (D5)
Water-Stained Leaves (B9) Other (Explain in Remarks) Field Observations: Surface water present? Yes No X Depth (inches): - Water table present? Yes No X Depth (inches): - Indicators of wetland hydrology present? Y Saturation present? Yes X No Depth (inches): - 18 hydrology present? Y (includes capillary fringe) Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Indicators of welland hydrology present? Y									
Field Observations: Surface water present? Yes No X Depth (inches): - Indicators of wetland hydrology present? Water table present? Yes X No X Depth (inches): >24 Indicators of wetland hydrology present? Y Saturation present? Yes X No Depth (inches): 18 hydrology present? Y (includes capillary fringe) Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		•		ce (B8)	-		· · /	,	
Surface water present? Yes No X Depth (inches): - Water table present? Yes X No X Depth (inches): >24 Saturation present? Yes X No Depth (inches): 18 Indicators of wetland hydrology present? Y (includes capillary fringe) Depth (inches): 18 18 hydrology present? Y Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Indicators of wetland hydrology present? Y)		Other (E	xplain in	Remarks)	
Water table present? Yes No X Depth (inches): >24 Indicators of wetland hydrology present? Saturation present? Yes X No Depth (inches): 18 hydrology present? Y (includes capillary fringe) Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Indicators of wetland hydrology present? Y									
Saturation present? Yes X No Depth (inches): 18 hydrology present? Y (includes capillary fringe)								-	Indiantana of worther 1
(includes capillary fringe) Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		•			X	_ · ·	,		
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	-		res	<u> </u>			ncnes):	10	inverciogy present?
	-			o monitoria		hotor -	no diassa i	apacticas) if and it	
Remarks:	Describe rec	corded data (strea	am gauge	e, monitoring wei	i, aeriai p	notos, pi	revious ir	ispections), if availa	adie:
Remarks:									
	Remarks:								

Appendix C



1-Representative

Ditch between basins 1 & 2



2-Representative

Ditch southeast of basin 1

Appendix D

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: Kirt Woodhouse, Wayzata Village Shoppes LLP Mailing Address: 600 Highway 169, Suite 1660, Minneapolis, Minnesota 55426 Phone:

E-mail Address: Woodhouse18@aol.com

Authorized Contact (do not complete if same as above): Mailing Address: Phone: E-mail Address:

Agent Name:Wayne JacobsonMailing Address:5821 Humboldt Avenue North, Brooklyn Center, Minnesota 55430Phone:(612)802-6619E-mail Address:jacobsonenv@msn.com

PART TWO: Site Location Information

 County:
 Hennepin
 City/Township:
 Plymouth

 Parcel ID and/or Address:
 2711822420001
 Egal Description (Section, Township, Range):
 Sec. 27, T118N, R22W

 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):
 11.47 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 Impact¹ Summary

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

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

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

²Impacts less than 0.01 acre should be reported in square feet. Impacts 0.01 acre or greater should be reported as acres and rounded to the nearest 0.01 acre. Tributary impacts must be reported in linear feet of impact and an area of impact by indicating first the linear feet of impact along the flowline of the stream followed by the area impact in parentheses). For example, a project that impacts 50 feet of a stream that is 6 feet wide would be reported as 50 ft (300 square feet).

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

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

PART FIVE: Applicant Signature

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

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

Signature: _____ Date:

I hereby authorize Jacobson Environmental 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.

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

Minnesota Interagency Water Resource Application Form February 2014

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

PART FOUR: Aquatic Resource Impact¹ Summary

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

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

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

²Impacts less than 0.01 acre should be reported in square feet. Impacts 0.01 acre or greater should be reported as acres and rounded to the nearest 0.01 acre. Tributary impacts must be reported in linear feet of impact and an area of impact by indicating first the linear feet of impact along the flowline of the stream followed by the area impact in parentheses). For example, a project that impacts 50 feet of a stream that is 6 feet wide would be reported as 50 ft (300 square feet).

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

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

PART FIVE: Applicant Signature

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

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

Signature:	Lindsay Kolsrud	Property Manager	Date:	4/21/2020
	1			

I hereby authorize Jacobson Environmental 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.

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

Minnesota Interagency Water Resource Application Form February 2014

BOARD OF WATER AND SOIL RESOURCES

Minnesota Wetland Conservation Act Notice of Decision

Local Government Unit:	City of Plymouth	County:	: Hennepin
Applicant Name: 13120 Co	•		
Applicant Representative:		ntal, PLLC	
Project Name: 13120 Count			
LGU Project No. (if any): 20			
Date Complete Application	-	/4/2020	
Date of LGU Decision: 6/15			
Date this Notice was Sent:	6/15/2020		
WCA Decision Type - check a	ll that apply		
🛛 Wetland Boundary/Type	e 🛛 Sequencing	🗆 Replacement Plan	□ Bank Plan (not credit purchase)
🗆 No-Loss (8420.0415)		🗌 Exemption ((8420.0420)
Part: 🗆 A 🗆 B 🗆 C 🗆 D 🛛	$\Box E \Box F \Box G \Box H$	Subpart: 🗆 2	2 🗆 3 🗆 4 🗆 5 🔤 6 🗆 7 🗔 8 🗆 9
Replacement Plan Impacts (I	replacement plan dec	isions only)	
Total WCA Wetland Impact	Area:		
Wetland Replacement Type	e: 🗆 Project Specifi	c Credits:	
	Bank Credits:		
Bank Account Number(s):			
Technical Evaluation Panel F	indings and Recomm	endations (attach if any)	
🛛 Approve 🛛 Approve w	v/Conditions 🛛 Der	ny 🛛 🛛 🛛 🛛 🛛 🖓 🗌	endation
LGU Decision			
Approved with Conditio List Conditions:	ns (specify below) ¹	\square Approved ¹	🗆 Denied
Decision-Makerforthis Ap	plication: \boxtimes Staff \Box	Governing Board/Council	I □Other:
Decision is valid for: 🛛 5 ye	ears (default) 🛛 Othe	er (specify):	

¹ <u>Wetland Replacement Plan</u> approval is not valid until BWSR confirms the withdrawal of any required wetland bank credits. For projectspecific 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 decision¹.

Attachment(s) (specify): **Revised wetland delineation map**

Summary: A wetland delineation was performed on April 8th, 2020 at the property address of 13120 County Road 6 in Plymouth. A TEP was held on 5/12/2020 and it was determined that the wetlands were not properly delineated on site. The applicant and consultant were informed of this and revised delineation was submitted on 5/15/2020. The revised map reflects the TEPs on site discussion and is found to be an acceptable boundary.

¹ Findings must consider any TEP recommendations.

Site Location Map Project Plan(s)/Descriptions/Reports (specify):

Appeals of LGU Decisions

If you wish to <u>appeal</u> this decision, you must provide a written request <u>within 30 calendar days of the date you</u> <u>received the notice</u>. 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

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

 \boxtimes Yes¹ \Box No

¹If 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:

☑ SWCD TEP Member: Ms. Stacey Lijewski, HCA, 701 Fourth Avenue South, Suite 700, Minneapolis, MN 55415-1600
 ☑ BWSR TEP Member: Ben Carlson, BWSR, 520 Lafayette Road North, St. Paul, MN 55401

□ LGU TEP Member (if different than LGU contact): **Ben Scharenbroich, 3400 Plymouth Blvd, Plymouth MN** 55447

DNR Representative: Melissa Collins, MnDNR, 1200 Warner Road, St. Paul, MN 55106 Lucas Youngsma, MnDNR, 1200 Warner Road, St. Paul, MN 55106

Watershed District or Watershed Mgmt. Org.: BCWMC c/o Laura Jester, 16145 Hillcrest Lane, Eden Prairie MN 55346

Applicant: Wayne Jacobson, Jacobson Environmental, PLLC, 5821 Humboldt Avenue N, Brooklyn Center MN 55430

 \boxtimes Agent/Consultant:

Optional or As Applicable:

Corps of Engineers: US Army Corps of Engineers, St Paul District, ATTN: Maria A. DeLaundreau 180 Fifth Street East, Suite 700 St. Paul MN 55101-1678

BWSR Wetland Mitigation Coordinator (required for bank plan applications only):

Members of the Public (notice only): Lindsay Kolsrud, Colliers International Minneapolis St. Paul, 4350 Baker Road, Suite 400, Minnetonka MN 55343

Deb Wheeler, Colliers International Minneapolis St. Paul, 4350 Baker Road, Suite 400, Minnetonka MN 55343

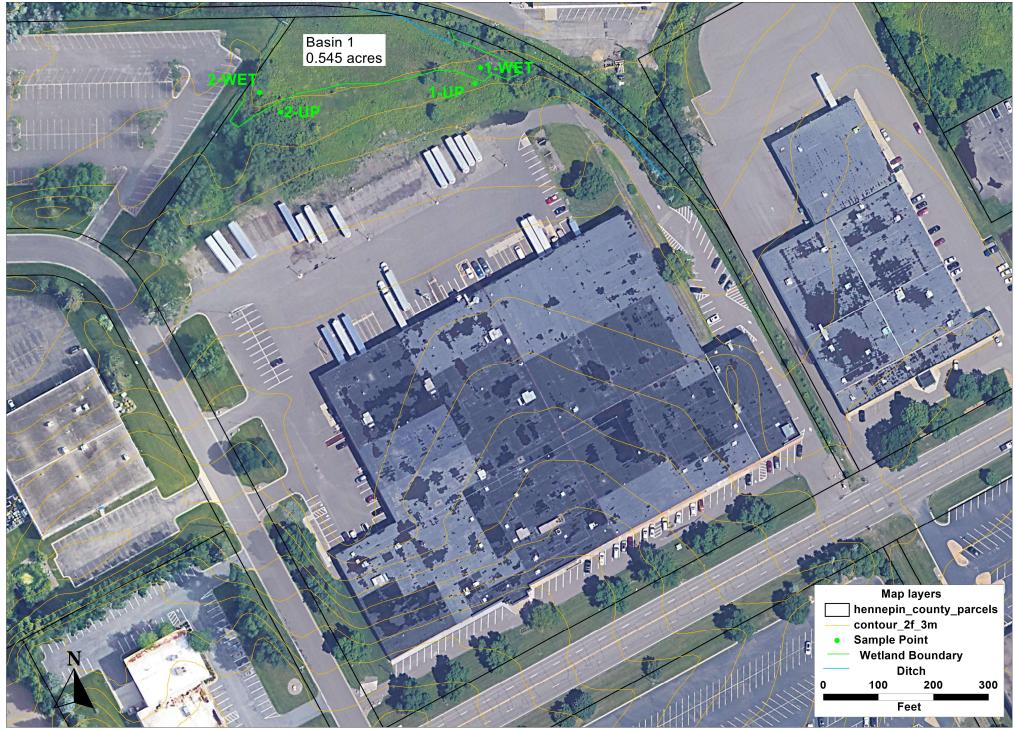
□ Other:

Signature:	Ben	Standail	
	0	- Champeren	

Date: 6/15/2020

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

Figure 5 Delineation Map - Revised 5/15/20





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

June 10, 2020

Regulatory File No. MVP-2020-00650-MAD

Wayzata Village Shoppes, LLP c/o Kirt Woodhouse 600 Highway 169, Suite 1660 Minneapolis, MN 55426

Dear Mr. Woodhouse:

We are responding to your request, submitted by Jacobson Environmental on your behalf, for Corps of Engineers (Corps) concurrence with the delineation of aquatic resources completed on the 13120 County Road 6. The project site is in Section 27, Township 118 North, Range 22 West, Hennepin County, Minnesota.

We have conducted a preliminary review of the delineation report, dated April 14, 2020 and generally concur that Figure 5 in the report depicts a reasonable approximation of the location and boundaries of aquatic resources on the property. This delineation can be used for planning, and will generally be sufficient for permitting purposes. It may be necessary to review this determination in response to changing site conditions or new information.

Additional Information regarding Jurisdiction and Permitting:

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

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

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

Sincerely,

Maria DeLaundrean

Maria DeLaundreau Project Manager

cc:

Wayne Jacobson, Jacobson Environmental Ben Carlson, BWSR Ben Scharenbroich, LGU