

Minnesota Wetland Conservation Act Notice of Application

Local Government Unit: City of Independence	County: Hennepin
Applicant Name: Mark Moorhouse	Applicant Representative: Bryan Pynn
Project Name: 7949 Co Rd 11	LGU Project No. (if any): IN401-24-02
Date Complete Application Received by LGU: 09/06/2024	
Date this Notice was Sent by LGU: 09/10/2024	
Date that Comments on this Application Must Be Received By LGU¹: 10/01/2024	

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

WCA Decision Type - check all that apply

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

Replacement Plan Impacts (replacement plan decisions only)

Total WCA Impact Area Proposed: 0.46 acres

Application Materials

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

Comments on this application should be sent to:

LGU Contact Person: Nikki McDermond-Spies
E-Mail Address: NikkiM@haa-inc.com
Address and Phone Number: 3601 Thurston Ave., Anoka, MN 55303 Ph: (763) 852-0496
Decision-Maker for this Application:
<input checked="" type="checkbox"/> Staff <input type="checkbox"/> Governing Board/Council <input type="checkbox"/> Other (specify):

Notice Distribution (include name)

Required on all notices:

<input checked="" type="checkbox"/> SWCD TEP Member: Stacey Lijewski (Stacey.lijewski@hennepin.us)	<input checked="" type="checkbox"/> BWSR TEP Member: Jed Chesnut (Jed.chesnut@state.mn.us)
<input type="checkbox"/> LGU TEP Member (if different than LGU contact):	
<input checked="" type="checkbox"/> DNR Representative: Wes Saunders-Pearce, Wes.Saunders-Pearce@state.mn.us	
<input checked="" type="checkbox"/> Watershed District or Watershed Mgmt. Org.: Andrew Vistad (Andrewv@haa-inc.com)	
<input type="checkbox"/> Applicant (notice only):	<input checked="" type="checkbox"/> Agent/Consultant (notice only): bryan@urbanecosystemsinc.com

Optional or As Applicable:

<input type="checkbox"/> Corps of Engineers:
<input type="checkbox"/> BWSR Wetland Mitigation Coordinator (required for bank plan applications only):
<input type="checkbox"/> Members of the Public (notice only): <input type="checkbox"/> Other:

Signature: 	Date: 09/10/2024
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This notice and accompanying application materials may be sent electronically or by mail. The LGU may opt to send a summary of the application to members of the public upon request per 8420.0255, Subp. 3.

Joint Application Form for Activities Affecting Water Resources in Minnesota

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

Regulatory Review Structure

Federal

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

State

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

Required Information

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

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

- For delineation approvals and/or jurisdictional determinations, submit Parts 1, 2 and 5, and Attachment A.
- For activities involving CWA/WCA exemptions, WCA no-loss determinations, and activities not requiring mitigation, submit Parts 1 through 5, and Attachment B.
- For activities requiring compensatory mitigation/replacement plan, submit Parts 1 thru 5, and Attachments C and D.

For local road authority activities that qualify for the state’s local road wetland replacement program, submit Parts 1 through 5, and Attachments C, D (if applicable), and E to both the Corps and the LGU.

Submission Instructions

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

U.S Army Corps of Engineers. Applications may be sent directly to the appropriate Corps Office. For a current listing of areas of responsibilities and contact information, visit the St. Paul District’s website at: <http://www.mvp.usace.army.mil/Missions/Regulatory.aspx> and select “Minnesota” from the contact Information box. Alternatively, applications may be sent directly to the St. Paul District Headquarters and the Corps will forward them to the appropriate field office.

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

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

DNR Public Waters Permitting: In 2014 the DNR will begin using the Minnesota DNR Permitting and Reporting System (MPARS) for submission of Public Waters permit applications (<https://webapps11.dnr.state.mn.us/mpars/public/authentication/login>). Applicants for Public Waters permits **MUST** use the MPARS online permitting system for submitting applications to the DNR. To avoid duplication and to streamline the application process among the various resource agencies, applicants can use the information entered into MPARS to substitute for completing parts of this joint application form. The MPARS print/save function will provide the applicant with a copy of the Public Waters permit application which, at a minimum, will satisfy Parts one and two of this joint application. For certain types of activities, the MPARS application may also provide all of the necessary information required under Parts three and four of the joint application. However, it is the responsibility of the Applicant to make sure that the joint application contains all of the required information, including identification of all aquatic resources impacted by the project (see Part four of the joint application). After confirming that the MPARS application contains all of the required information in Parts one and two the Applicant may attach a copy to the joint application and fill in any missing information in the remainder of the joint application.

Project Name and/or Number: Moorehouse Wetland Delineation and No-Loss

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:

Mark Moorhouse
7949 County Road 11
Independence, MN 55359
MarkSMoorhouse@gmail.com

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

Mailing Address:

Phone:

E-mail Address:

Agent Name: Urban Ecosystems

Attn: Bryan Pynn

Mailing Address: 2500 University Ave. W #C8, St. Paul, MN 55114

Phone: 651.340.8568

E-mail Address: bryan@urbanecosystemsinc.com

PART TWO: Site Location Information

County: Hennepin

City/Township: Independance

Parcel ID and/or Address: 7949 County Road 11

Legal Description (Section, Township, Range): PID 0811824110002

Lat/Long (decimal degrees): 45.049926307177984, -93.727287360459

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): See Attached

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.)	Type of Impact (fill, excavate, drain, or remove vegetation)	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
Wetland 1	Wetland	Excavation	P	~20,000 SF	1.6 acres	Reed canary grass (T2)	Hennepin, 18, BSA 7

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.

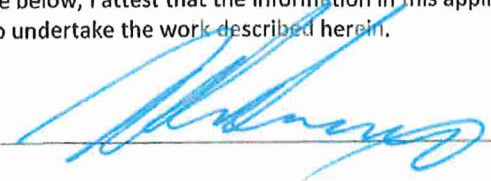
⁵Refer to Major Watershed and Bank Service Area maps in MN Rules 8420.0522 Subp. 7.

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

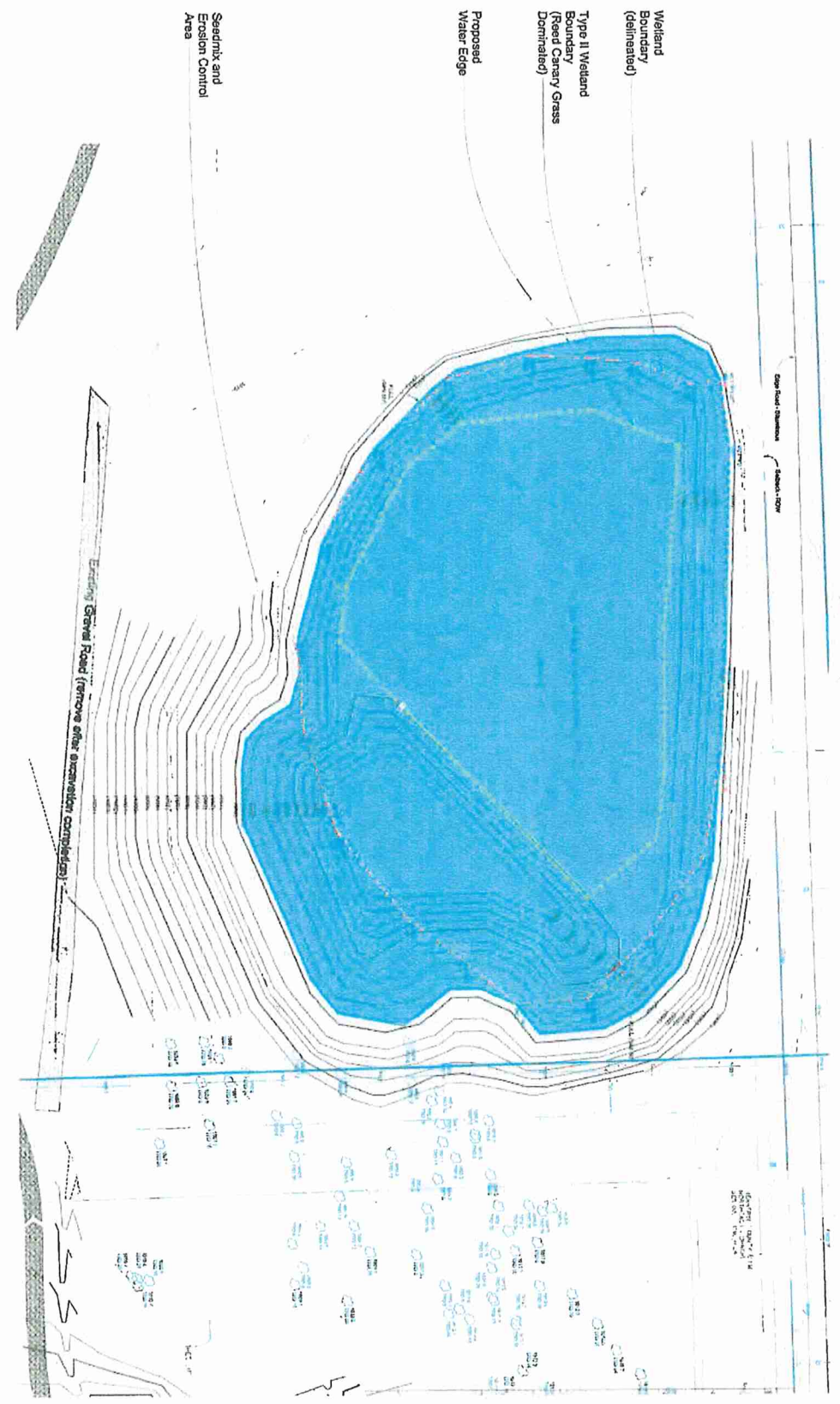
☐ Check here if you are requesting a pre-application consultation with the Corps and LGU based on the information you have provided. Regulatory entities will not initiate a formal application review if this box is checked.

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

Signature:  Date:

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

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.



REMOVE MULCH PATH NORTH SIDE OF WETLAND
Restore Area Per Restoration Notes on this sheet

OVERALL GRADING PLAN - ZONE A (SEE SHEET 104)

GENERAL NOTES:
1. ALL ELEVATIONS ARE IN FEET ABOVE SEA LEVEL.
2. THE GRADING PLAN IS BASED ON THE SURVEY DATA PROVIDED BY THE CLIENT.
3. THE GRADING PLAN IS SUBJECT TO CHANGE BASED ON THE RESULTS OF THE SURVEY.
4. THE GRADING PLAN IS NOT A FINAL DESIGN AND SHOULD NOT BE USED FOR CONSTRUCTION WITHOUT THE APPROVAL OF THE ARCHITECT.

EXPLANATION:
1. ALL ELEVATIONS ARE IN FEET ABOVE SEA LEVEL.
2. THE GRADING PLAN IS BASED ON THE SURVEY DATA PROVIDED BY THE CLIENT.
3. THE GRADING PLAN IS SUBJECT TO CHANGE BASED ON THE RESULTS OF THE SURVEY.
4. THE GRADING PLAN IS NOT A FINAL DESIGN AND SHOULD NOT BE USED FOR CONSTRUCTION WITHOUT THE APPROVAL OF THE ARCHITECT.

GRADING LEGEND
- Proposed Grading
- Existing Grading
- Erosion Control Area

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):

X ☐ **Wetland Type Confirmation**

X ☐ **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>

Attachment B

Supporting Information for Applications Involving Exemptions, No Loss Determinations, and Activities Not Requiring Mitigation

Complete this part *if* you maintain that the identified aquatic resource impacts in Part Four do not require wetland replacement/compensatory mitigation OR *if* you are seeking verification that the proposed water resource impacts are either exempt from replacement or are not under CWA/WCA jurisdiction.

Identify the specific exemption or no-loss provision for which you believe your project or site qualifies:

No Loss for excavation of reed canary grass Type 2 wetland fringe.

Sec. 78. Minnesota Statutes 2022, section 103G.222, subdivision 1, is amended to read:

Subdivision 1. Requirements. (a) Wetlands must not be drained or filled, wholly or partially, unless replaced by actions that provide at least equal public value under a replacement plan approved as provided in section 103G.2242, a replacement plan under a local governmental unit's comprehensive wetland protection and management plan approved by the board under section 103G.2243, or, if a permit to mine is required under section 93.481, under a mining reclamation plan approved by the commissioner under the permit to mine. Project-specific wetland-replacement plans submitted as part of a project for which a permit to mine is required and approved by the commissioner on or after July 1, 1991, may include surplus wetland credits to be allocated by the commissioner to offset future mining-related wetland impacts under any permits to mine held by the permittee, the operator, the permittee's or operator's parent, an affiliated subsidiary, or an assignee pursuant to an assignment under section 93.481, subdivision 5. For project-specific wetland replacement completed prior to wetland impacts authorized or conducted under a permit to mine within the Great Lakes and Rainy River watershed basins, those basins shall be are considered a single watershed for purposes of determining wetland-replacement ratios. Mining reclamation plans shall must apply the same principles and standards for replacing wetlands that are applicable to mitigation plans approved as provided in section 103G.2242. The commissioner must provide notice of an application for wetland replacement under a permit to mine to the county in which the impact is proposed and the county in which a mitigation site is proposed. Public value must be determined in accordance with section 103B.3355 or a comprehensive wetland protection and management plan established under section 103G.2243. Sections 103G.221 to 103G.2372 also apply to excavation in permanently and semipermanently flooded areas of types 3, 4, and 5 wetlands.

NOTE: 2024 WCA rule changes no longer reference Circular 39 types, but the proposed excavation is only within reed canary grass dominated area that is not permanently or semipermanently flooded.

Provide a detailed explanation of how your project or site qualifies for the above. Be specific and provide and refer to attachments and exhibits that support your contention. Applicants should refer to rules (e.g. WCA rules), guidance documents (e.g. BWSR guidance, Corps guidance letters/public notices), and permit conditions (e.g. Corps General Permit conditions) to determine the necessary information to support the application. Applicants are strongly encouraged to contact the WCA LGU and Corps Project Manager prior to submitting an application if they are unsure of what type of information to provide:

As noted above, the excavation will only occur within areas that are not regulated under the WCA. See attached grading plan and grading notes.

REVISIONS	

DESIGN
DEVELOPMENT

DATE: 7/13/24
DRAWN: BJP
CHECKED: mk
APPROVED: mk

LANDSCAPE ARCHITECT	DATE
	7/13/24
REGISTRATION #	

SHEET:

L05

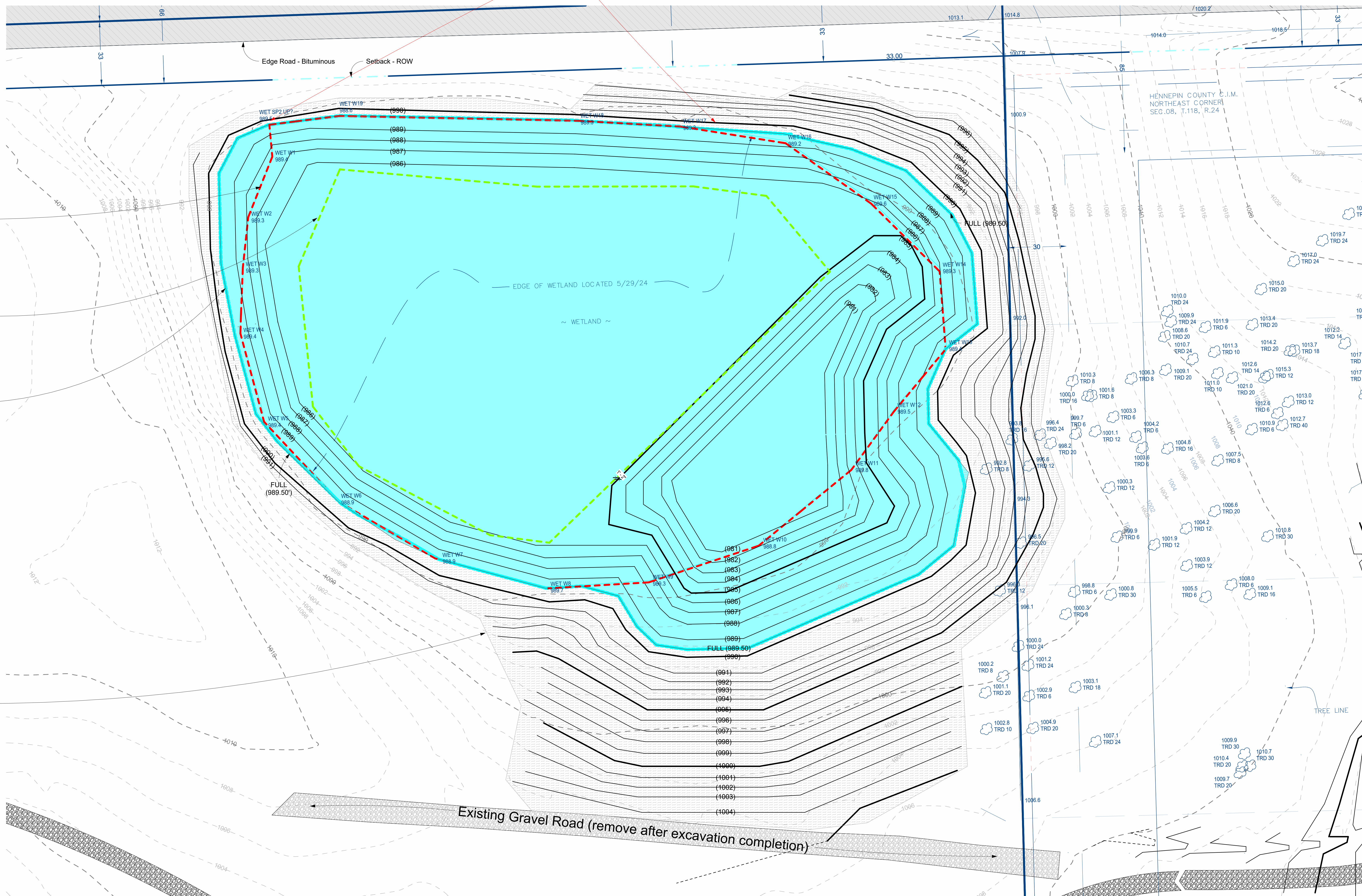
REMOVE MULCH PATH NORTH SIDE OF WETLAND
Restore Area Per Restoration Notes on this Sheet

Wetland
Boundary
(delineated)

Type II Wetland
Boundary
(Reed Canary Grass
Dominated)

Proposed
Water Edge

Seedmix and
Erosion Control
Area



1 OVERALL GRADING PLAN - POND DREDGE PERMIT
1" = 20'-0"

CRITICAL EXCAVATION NOTES

MULCH PATH REMOVAL: Remove mulch path on north side of wetland as it is considered Wetland Fill. Restore this area back to vegetation per notes on this page.

EXCAVATION LIMITS: Excavation/Dredging and Shaping of wetland (within delineated boundary) shall only take place in areas dominated by Reed Canary Grass (Approximate Type II Wetland Boundary). If an area is in question, confirm with Landscape Architect prior to proceeding with additional excavation.

EXCAVATION, SEEDMIX, AND EROSION CONTROL NOTES

Dredge and Topsoil Salvage: Dredge spoils and salvaged topsoil that will be re-used onsite should be temporarily stored on a relatively flat area on the east side of the wetland; surrounded by silt fence to limit erosion. Soils being salvaged for reincorporation should not be mucky, but rather the richer upland edge topsoils that will support plant growth in the future upland areas of the wetland restoration plan. DO NOT REUSE SOILS WITH REED CANARY GRASS PRESENT.

Dredge Spoils: Coordinate with Landscape Architect to determine best upland site to spread unused dredge spoils and seed for permanent cover. There is ample room on the property and a space should be located which does not directly drain to any other adjacent wetland or waterway.

General Grading: No Slopes steeper than 5:1 under water

Silt Fence: Encircle wetland edge (5' minimum from water edge) with silt fence to limit upland runoff and silt from re-entering the wetland. Coordinate with L.A. for proper and limited access points to limit the amount of disturbance to the wetland edge. Silt Fence shall move with new excavated edge at the end of each day.

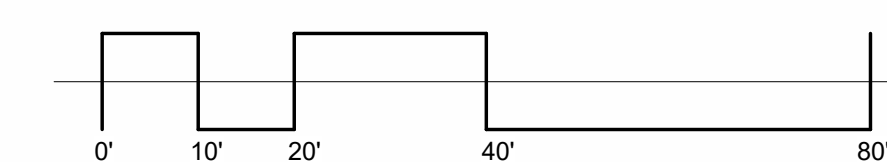
Buffer Decomaction: Decompact wetland buffer areas that have been affected/compacted by excavation equipment. Use a toothed excavator bucket before incorporating salvage topsoils.

Temporary Cover Crop: All areas left exposed for more than 7 days without construction activity shall be cat-tracked across the slope and seeded with *Avena sativa* (Oats).

Plant Salvage and Reuse: Salvage Emergent Plants for replanting. Coordinate with Landscape Architect for species, temporary storage, and replanting placement.

Permanent Vegetation Seedmix: Apply MNDOT Seedmix 34-262 (Wet Prairie Seedmix) to all disturbed areas above the water line. Follow MNDOT Seeding Manual (2023 Edition) for prep, sowing, and establishment protocol. Areas more than 2' vertical above wetland edge shall be seeded with 35-241 (Mesic Prairie Seedmix).

Erosion Control Blanket: All areas that were disturbed above the proposed water line (see seeded area boundary) will be covered with single-sided natural-net straw erosion control blanket after permanent seedmix has been applied (see seedmix spec above).



GRADING LEGEND

890 EXISTING CONTOURS
(880) PROPOSED CONTOURS
+ (890.00) PROPOSED SPOT ELEVATIONS

Wetland Delineation Report

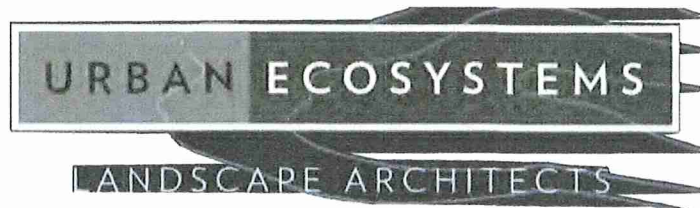
Mark Moorhouse - 7949 County Rd 11
Independence, MN



August 29, 2024

Prepared for: Urban Ecosystems Inc.

Prepared by: Jay's Wildcraft

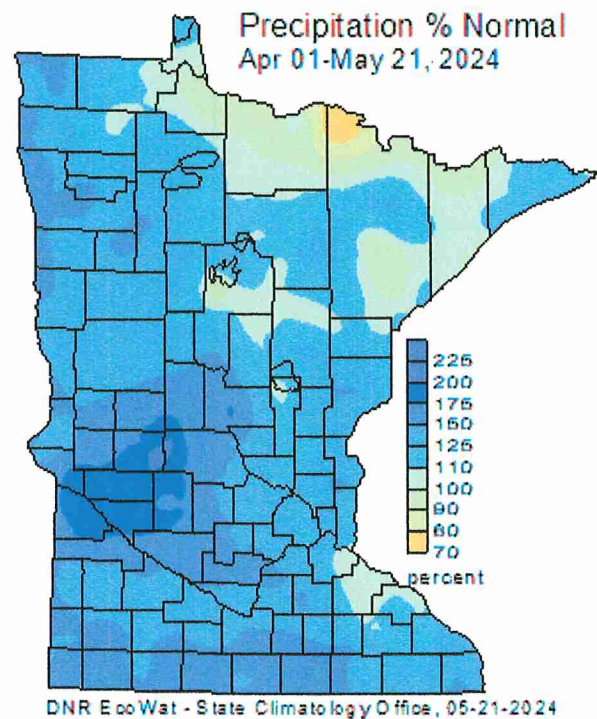


Background

Jay's Wildcraft completed a wetland delineation on the portion of the site adjacent to CR 11 (PID # 0811824110002) at 7949 County Road 11 in Independence, Minnesota. The site is in SEC 02 of TWP 116, RNG 023, Hennepin County, Minnesota (Figure 1). The site consists of woods, ag fields, and an adjacent newly constructed home. The approximate site and sample locations are shown on an aerial photo in Figure 2. The field wetland delineation was done on May 24, 2024. The purpose of this delineation was to identify potential wetlands on the site for planning for wildlife pond enhancements and for regulatory purposes.

Methodologies

The site was evaluated for wetlands based on the methods contained in the "Level 2 Routine Wetland Delineation" section of the U.S. Army Corps of Engineers "Wetland Delineation Manual" (Technical Report Y87-1, 1987) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region. This is the methodology currently used to determine wetlands by both the U.S. Army Corps of Engineers for implementation of Section 404 of the Clean Water Act and by the Minnesota Wetland Conservation Act. According to the Climatology Working Groups' webpage, the area was at 110-125% of normal precipitation at the time of the site visit. Using the Corps of Engineers Antecedent Precipitation Tool (APT), antecedent precipitation for the preceding three months was Wetter Than Normal at the time of the site visit.



Resource Maps Review

The National Wetlands Inventory (NWI) (Figure 2) identifies the wetland as wetland. The Soil Survey (Figure 3) shows the wetland area as Klossner, depressional.

Sample Point 1

Sample Point 1 (SP-1) was established to evaluate the wetland area close to the wetland edge. The vegetation was dominated by reed canary grass and jewelweed. The soils were black muck at the surface.

over a layer of silt loam (erosion deposition with 50% redoximorphic features) over more muck. Standing water was observed at around six inches below the surface.

Sample Point 2

Sample Point 2 (SP-2) was established a few feet landward of the wetland edge. The vegetation at SP-2 was dominated by garlic mustard, bedstraw, and mullein. Soils consisted of a few inches of brown loam over light brown sandy clay. No water was observed in the soil pit.

Wetland Boundary and Classification

Figure 4 shows the wetland boundary. The classification of the wetland is based on observations of the site. The wetland type is predominantly Type 3 shallow marsh with a fringe of Type 2 wet meadow.

Wetland Classification

Classification of the wetland is based on observations of the site and is included in Table 1 below.

Table 1. Summary of Wetland Characteristics wetland

Wetland	Classification	Isolated	Area (acres)	Comments
A	PEMB/C/F	Y	1.6	Closed depression. Cattail and open water with reed canary grass fringe.

The information contained herein represents findings during wetland evaluation activities conducted on May 24, 2024 at the referenced site.

Respectfully Submitted,

8-29-24

Jay Riggs

Certified Wetland Delineator



Figure 1. Location Map
7825 County Rd 11
Independence, MN

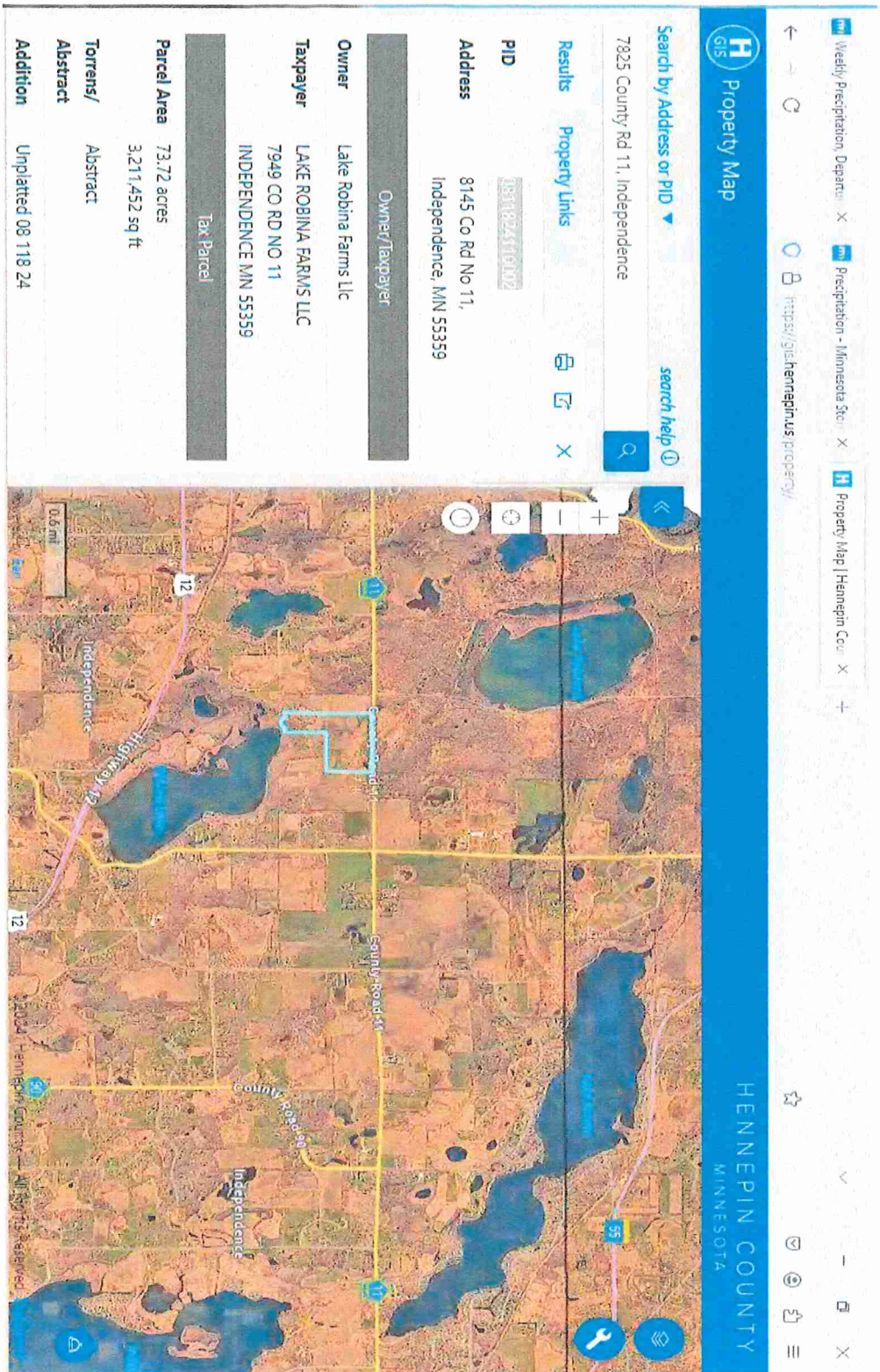


Figure 2. National Wetland Inventory

7825 County Rd 11
Independence, MN



Figure 3. Soil Survey
7825 County Rd 11
Independence, MN



Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
L22C2	Lester loam, 6 to 10 percent slopes, moderately eroded	0.5	5.6%
L22F	Lester loam, morainic, 25 to 35 percent slopes	1.6	17.6%
L37B	Angus loam, 2 to 6 percent slopes	0.5	5.2%
L40B	Angus-Kilkenny complex, 2 to 8 percent slopes	0.0	0.5%
L41C2	Lester-Kilkenny complex, 6 to 10 percent slopes, moderately eroded	3.3	36.5%
L41D2	Lester-Kilkenny complex, 10 to 16 percent slopes, moderately eroded	0.0	0.2%
L49A	Klossner soils, depressional, 0 to 1 percent slopes	1.9	21.2%
L70D2	Lester-Malardi complex, 12 to 18 percent slopes, eroded	1.2	13.2%
Totals for Area of Interest		9.2	100.0%



Figure 4. Site Survey with Wetland Boundary

7825 County Rd 11

Independence, MN



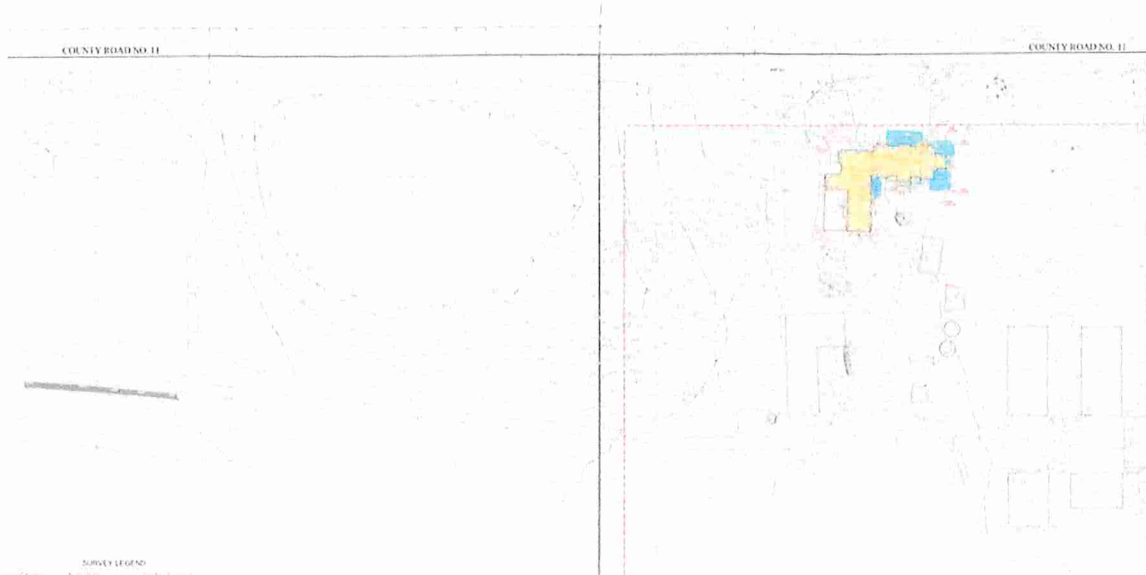
NEW TOPO EXHIBIT
PREPARED FOR: MARK MOOREHOUSE

DATE: 6/13/24
JOB # 60155-006



SATHRE-BERGQUIST, INC.

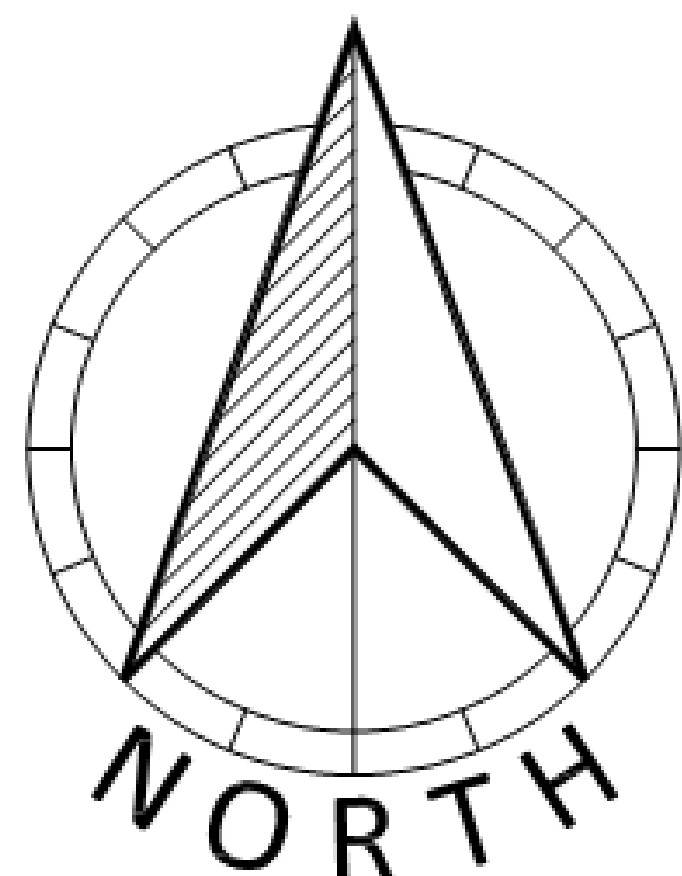
14000 25TH AVENUE NORTH, SUITE 120
PLYMOUTH MN 55447 (952) 476-6000
WWW.SATHRE.COM



SURVEY LEGEND

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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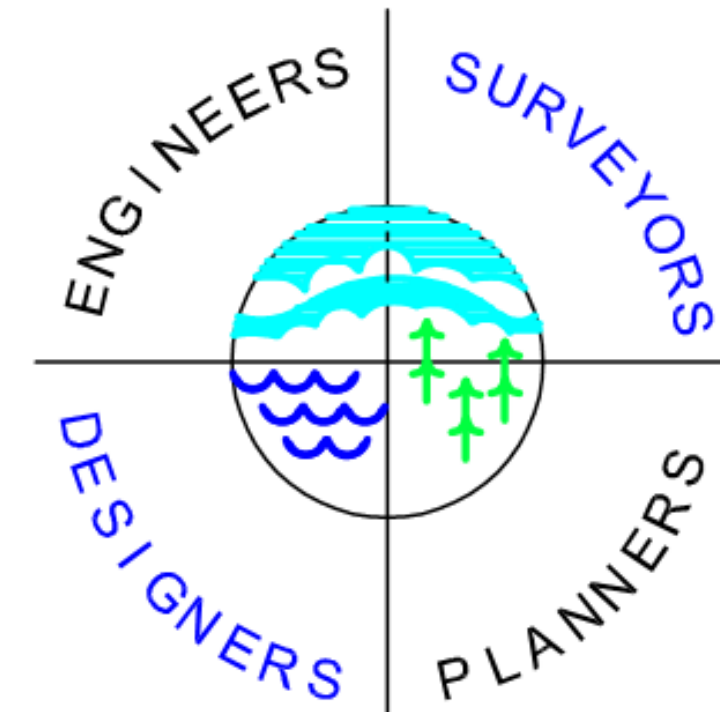


1 INCH = 30 FEET
PAPER: 36X48

NEW TOPO EXHIBIT

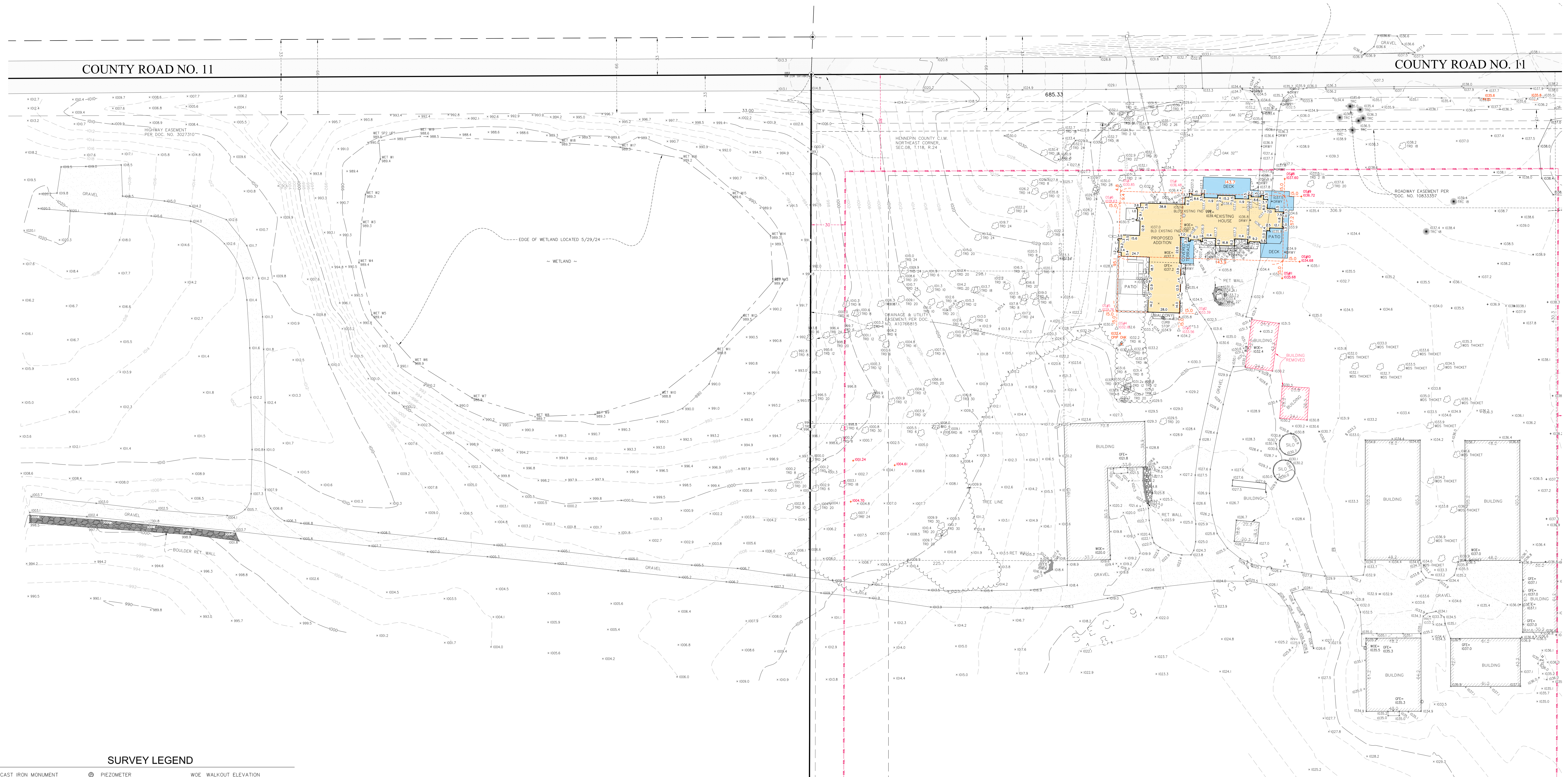
PREPARED FOR: MARK MOOREHOUSE

DATE: 6/13/24
JOB #: 60155-006



SATHRE-BERGQUIST, INC.

14000 25TH AVENUE NORTH, SUITE 120
PLYMOUTH MN 55447 (952) 476-6000
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SURVEY LEGEND

● CAST IRON MONUMENT	⊙ PIEZOMETER	WOL WALKOUT ELEVATION
○ IRON PIPE MONUMENT SET	⊙ POWER POLE	FFE FIRST FLOOR ELEVATION
● IRON PIPE MONUMENT FOUND	⊙ GUY WIRE	GFE GARAGE FLOOR ELEVATION
● DRILL HOLE FOUND	⊙ ROOF DRAIN	TOP TOP OF FOUNDATION ELEV.
✕ CHISELED "X" MONUMENT SET	⊙ LIFT STATION	LOE LOWEST OPENING ELEV.
✕ CHISELED "X" MONUMENT FOUND	⊙ SANITARY MANHOLE	
● REBAR MONUMENT FOUND	⊙ SANITARY CLEANOUT	
▲ PK NAIL MONUMENT SET	⊙ STORM MANHOLE	
▲ PK NAIL MONUMENT FOUND	⊙ STORM DRAIN	
● PK NAIL W/ ALUMINUM DISC	⊙ CATCH BASIN	
● SURVEY CONTROL POINT	⊙ FLARED END SECTION	
⊙ A/C UNIT	⊙ TREE CONIFEROUS	
⊙ CABLE TV PEDESTAL	⊙ TREE DECIDUOUS REMOVED	
⊙ ELECTRIC TRANSFORMER	⊙ TREE CONIFEROUS REMOVED	
⊙ ELECTRIC MANHOLE	⊙ TREE DECIDUOUS REMOVED	
⊙ ELECTRIC METER	⊙ FENCE	
⊙ ELECTRIC OUTLET	⊙ TELEPHONE MANHOLE	
⊙ YARD LIGHT	⊙ TELEPHONE PEDESTAL	
⊙ LIGHT POLE	⊙ UTILITY MANHOLE	
⊙ FIBER OPTIC MANHOLE	⊙ UTILITY PEDESTAL	
⊙ FIRE DEPT. HOOK UP	⊙ UTILITY VAULT	
⊙ FLAG POLE	⊙ WATERMAIN MANHOLE	
⊙ FUEL PUMP	⊙ WATER METER	
⊙ FUEL TANK	⊙ WATER SPIGOT	
⊙ PROPANE TANK	⊙ WELL	
⊙ GAS METER	⊙ MONITORING WELL	
⊙ GAS VALVE	⊙ CURB STOP	
⊙ GAS MANHOLE	⊙ GATE VALVE	
⊙ GENERATOR	⊙ HYDRANT	
⊙ GUARD POST	⊙ IRRIGATION VALVE	
⊙ MAIL BOX	⊙ POST INDICATOR VALVE	
	⊙ SIGN	
	⊙ SOIL BORING	
		WETLAND BUFFER SIGN

APPENDIX A

Data Forms



JAY'S
WILDCRAFT

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Moorehouse Pond City/County: Independence Sampling Date: 5-24-24
 Applicant/Owner: Mark Moorhouse State: MN Sampling Point: U1
 Investigator(s): Jay Riggs Section, Township, Range: 7825 County Rd 11
 Landform (hillslope, terrace, etc.): hillslope transition to depression Local relief (concave, convex, none): Concave
 Slope (%): 0 Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Klossner NWI classification: PEMB/C/D

Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No X (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present? Yes _____ No <u>X</u>	
Wetland Hydrology Present? Yes _____ No <u>X</u>	
Remarks: Above average precipitation.	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A) Total Number of Dominant Species Across All Strata: _____ (B) Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)
1. <u>Populus deltoides</u> (Plains Cottonwood)	<u>100</u>		<u>FAC</u>	
2. _____				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species <u>90</u> x 4 = <u>360</u> UPL species <u>10</u> x 5 = <u>50</u> Column Totals: <u>100</u> (A) <u>410</u> (B) Prevalence Index = B/A = <u>4.1</u>
3. _____				
4. _____				
5. _____				
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 ¹ ___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. _____				
2. _____				
3. _____				
4. _____				
5. _____				
_____ = Total Cover				
Herb Stratum (Plot size: _____)				
1. <u>Alliaria petiolata</u> (Garlic Mustard)	<u>70</u>	<u>y</u>	<u>FACU</u>	
2. <u>Galium aparine</u> (bedstraw)	<u>20</u>	<u>n</u>	<u>FACU</u>	
3. <u>Verbascum thapsus</u> (Common Mullein)	<u>10</u>	<u>n</u>	<u>UPL</u>	
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
_____ = Total Cover				
Woody Vine Stratum (Plot size: _____)				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
1. _____				
2. _____				
_____ = Total Cover				
Remarks: (Include photo numbers here or on a separate sheet.) Photo 2				

SOIL

Sampling Point: _____

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-3	10yr 3/2						loam	
3-18	10yr 5/1						sandy clay	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)

- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

- ☐ Coast Prairie Redox (A16)
- ☐ Dark Surface (S7)
- ☐ Iron-Manganese Masses (F12)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No ☒

Remarks:

Disturbed soils likely

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No ☒ Depth (inches): _____

Water Table Present? Yes _____ No ☒ Depth (inches): _____

Saturation Present? Yes _____ No ☒ Depth (inches): _____
(includes capillary fringe)

Wetland Hydrology Present? Yes _____ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: