# Minnesota Wetland Conservation Act

## Notice of Decision

<table>
<thead>
<tr>
<th>Local Government Unit:</th>
<th>City of Plymouth</th>
<th>County:</th>
<th>Hennepin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicant Name:</td>
<td>City of Plymouth</td>
<td>attn: Jerrod Brunelle</td>
<td></td>
</tr>
<tr>
<td>Applicant Representative:</td>
<td>SRF Consulting Group</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Project Name:</td>
<td>Plymouth Creek Playfield Drainage Improvement Project</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LGU Project No. (if any):</td>
<td>2019-19</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Date Complete Application Received by LGU:</td>
<td>10/31/2019</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Date of LGU Decision:</td>
<td>12/27/2019</td>
<td></td>
<td></td>
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<tr>
<td>Date this Notice was Sent:</td>
<td>12/27/2019</td>
<td></td>
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</table>

### WCA Decision Type - check all that apply

- [x] Wetland Boundary/Type
- [ ] Sequencing
- [ ] Replacement Plan
- [ ] Bank Plan (not credit purchase)
- [ ] No-Loss (8420.0415)
- [ ] Exemption (8420.0420)

Part: [ ] A [ ] B [ ] C [ ] D [ ] E [ ] F [ ] G [ ] H Subpart: [ ] 2 [ ] 3 [ ] 4 [ ] 5 [ ] 6 [ ] 7 [ ] 8 [ ] 9

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

Total WCA Wetland Impact Area:

### Bank Account Number(s):

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

- [x] Approve
- [ ] Approve w/Conditions
- [ ] Deny
- [ ] No TEP Recommendation

### LGU Decision

- [ ] Approved with Conditions (specify below)
- [x] Approved
- [ ] Denied

**List Conditions:**

### Decision-Maker for this Application:

- [x] Staff
- [ ] Governing Board/Council
- [ ] Other

### Decision is valid for:

- [x] 5 years (default)
- [ ] Other (specify):

---

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

### LGU Findings – Attach document(s) and/or insert narrative providing the basis for the LGU decision

- [x] Attachment(s) (specify):
- [x] Summary: The TEP met on site November 7th, 2019 and concurred with the boundaries of the wetland as described in the wetland delineation report. No comments by the public or other agencies were received before the decision deadline.

---

1. Findings must consider any TEP recommendations.

### Attached Project Documents

- [x] Site Location Map
- [x] Project Plan(s)/Descriptions/Reports (specify): Plymouth Creek Playfield - Wetland Delineation Report
- Plymouth Creek Playfield – Joint Application Form
- Plymouth Creek Playfield – USCOE Acknowledgement Letter

BWSR NOD Form – November 12, 2019
Appeals of LGU Decisions
If you wish to appeal this decision, you must provide a written request within 30 calendar days of the date you received the notice. All appeals must be submitted to the Board of Water and Soil Resources Executive Director along with a check payable to BWSR for $500 unless the LGU has adopted a local appeal process as identified below. The check must be sent by mail and the written request to appeal can be submitted by mail or e-mail. The appeal should include a copy of this notice, name and contact information of appellant(s) and their representatives (if applicable), a statement clarifying the intent to appeal and supporting information as to why the decision is in error. Send to:

Appeals & Regulatory Compliance Coordinator
Minnesota Board of Water & Soils Resources
520 Lafayette Road North
St. Paul, MN 55155
travis.lundstrom@state.mn.us

Does the LGU have a local appeal process applicable to this decision?
☑ Yes □ No

1 If yes, all appeals must first be considered via the local appeals process.

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

<table>
<thead>
<tr>
<th>Notice Distribution (include name)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required on all notices:</td>
</tr>
<tr>
<td>☑ SWCD TEP Member: Ms. Stacey Lijewski, HCA, 701 Fourth Avenue South, Suite 700, Minneapolis, MN 55415-1600</td>
</tr>
<tr>
<td>☑ BWSR TEP Member: Ben Carlson, BWSR, 520 Lafayette Road North, St. Paul, MN 55401</td>
</tr>
<tr>
<td>☑ LGU TEP Member (if different than LGU contact): Ben Scharenbroich, 3400 Plymouth Blvd, Plymouth MN 55447</td>
</tr>
<tr>
<td>☑ DNR Representative: Leslie Parris, MnDNR, 1200 Warner Road, St. Paul, MN 55106</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>☑ Watershed District or Watershed Mgmt. Org.: BCWMC, c/o Laura Jester, 16145 Hillcrest Lane, Eden Prairie, MN 55346</td>
</tr>
<tr>
<td>☑ Applicant: Jerrod Brunelle, City of Plymouth, 3400 Plymouth Blvd, Plymouth, MN 55447</td>
</tr>
<tr>
<td>☑ Agent/Consultant: Nicole Zappetillo, SRF Consulting Group, 1 Carlson Parkway North, Suite 150, Minneapolis, MN 55447</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Optional or As Applicable:</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑ Corps of Engineers: US Army Corps of Engineers, St. Paul District attn.: Melissa Jenny 180 Fifth Street East, Suite 700m St. Paul, MN 55101-1678</td>
</tr>
<tr>
<td>☑ BWSR Wetland Mitigation Coordinator (required for bank plan applications only):</td>
</tr>
<tr>
<td>☐ Members of the Public (notice only): ☑ Other:</td>
</tr>
</tbody>
</table>

Signature: [Signature] Date: 12/27/2019

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

Notice of Application

Local Government Unit (LGU)
City of Plymouth

Address
3400 Plymouth Blvd.
Plymouth, MN 55447

1. PROJECT INFORMATION

<table>
<thead>
<tr>
<th>Applicant Name</th>
<th>Project Name</th>
<th>Date of Application</th>
<th>Application Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRF Consulting Group on behalf of the City of Plymouth</td>
<td>Plymouth Creek Playfield Drainage Improvement Project</td>
<td>10/31/2019</td>
<td>2019-19</td>
</tr>
</tbody>
</table>

Type of Application (check all that apply):
- [x] Wetland Boundary or Type
- [ ] No-Loss
- [ ] Exemption
- [ ] Sequencing
- [ ] Replacement Plan
- [ ] Banking Plan

Summary and description of proposed project (attach additional sheets as necessary):

The proposed project would address inadequate drainage from surface runoff from the playfield and would construct an improved trail and storm sewer system. The project site is located in Section 16, Township 118 North, Range 22 West, City of Plymouth, Hennepin County. More specifically, the proposed project is located on the west side of Fernbrook Lane North, north of 36th Avenue N, east of the Plymouth Creek Center (14800 34th Ave N) and south of 38th Avenue N.

Three wetlands were identified within the review area, the field delineated wetland boundaries are shown on Figures 3-4 in Appendix A of the attached report and are described below.

Wetland 1 was delineated at 0.14 acres and is located in the northwest corner of the site. The wetland delineated as a floodplain forest, Type 1, PF0A basin. This wetland conveys runoff from the adjacent paved trail and playfields toward an unnamed stream to the west, which flows into Plymouth Creek on the south side of the site. The upland/wetland transition within the review area is defined by moderate to gentle slopes and a shift from dominant wetland vegetation to a mix of upland and wetland vegetation. The dominant vegetation in the wetland is peach-leaved willow, reed canary grass and jewelweed.

Wetland 2 was delineated at 0.09 acres and is located in the southeast corner of the site. The wetland was delineated as a seasonally flooded basin, Type 1, PEMAX basin. The wetland is located to the east of an existing trail and on the west side of the skate park. The upland/wetland transition is primarily defined by a change in hydrology (surface water) and vegetation, as it is shallow and relatively flat. Dominant vegetation in the wetland is common spikerush and lady’s-thumb which transitions to Kentucky bluegrass, white clover and ground ivy in the adjacent uplands.

Wetland 3 was delineated at 0.16 acres and is located in the southeast corner of the site. The wetland was delineated as a seasonally flooded basin, Type 1, PEMAX basin. The wetland is located to the east of the existing trail and northwest of the playground. The upland/wetland transition is primarily defined by a change in hydrology (surface water) and vegetation, as it is shallow and relatively flat. Dominant vegetation in the wetland appears to be Kentucky bluegrass and lady’s thumb, which transitions to more Kentucky bluegrass, white clover and ground ivy.

Based on a review of historical aerial imagery Wetlands 2 & 3 appear to have developed in a historical upland area on fill placed during park construction in the 1970’s and 1980’s. The area was disturbed in 2011/2012 during the removal of an outdoor skating rink and construction of a skate park. The city did not intend for the area in and around wetland 2 & 3 to hold water during the growing season or develop
2. APPLICATION REVIEW AND DECISION

Signing and mailing of this completed form to the appropriate recipients in accordance with 8420.0255, Subp. 3 provides notice that an application was made to the LGU under the Wetland Conservation Act as specified above. A copy of the application is attached. Comments can be submitted to:

<table>
<thead>
<tr>
<th>Name and Title of LGU Contact Person</th>
<th>Comments must be received by (minimum 15 business-day comment period):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ben Scharenbroich</td>
<td>November 22, 2019</td>
</tr>
<tr>
<td>Interim Water Resources Manager</td>
<td>Date, time, and location of decision:</td>
</tr>
<tr>
<td>City of Plymouth</td>
<td>November 25, 2019</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Address (if different than LGU)</th>
<th>Decision-maker for this application:</th>
</tr>
</thead>
<tbody>
<tr>
<td>3400 Plymouth Blvd, Plymouth, MN 55447</td>
<td>□ Staff</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Phone Number and E-mail Address</th>
<th>□ Governing Board or Council</th>
</tr>
</thead>
<tbody>
<tr>
<td>763-509-5527 <a href="mailto:bscharenbroich@plymouthmn.gov">bscharenbroich@plymouthmn.gov</a></td>
<td></td>
</tr>
</tbody>
</table>

Signature: ___________________________ Date: 10/31/2019

3. LIST OF ADDRESSEES

- SWCD TEP member: Ms. Stacey Lijewski, HCD, 701 Fourth Avenue South, Suite 700, Minneapolis, MN 55415-1600 (sent electronically)
- BWSR TEP member: Ben Carlson, BWSR 520 Lafayette Road North, St. Paul, MN 55401 (sent electronically)
- LGU TEP member (if different than LGU Contact):
- DNR TEP member: Leslie Parris, MnDNR, 1200 Warner Road, St. Paul, MN 55106 (sent electronically)
- DNR Regional Office (if different than DNR TEP member) Jason Spiegel, MnDNR, 1200 Warner Road, St. Paul, MN 55106 (sent electronically)
- WD or WMO (if applicable): BCWMC, c/o Laura Jester, 16145 Hillcrest Lane, Eden Prairie, MN 55346 (sent electronically)
- Applicant (notice only) and Landowner (if different) Jerrod Brunelle, City of Plymouth, 3400 Plymouth Blvd, Plymouth, MN 55447 (sent electronically)
- Members of the public who requested notice (notice only): Nicole Zappelillo, SRF Consulting Group, 1 Carlson Parkway North, Suite 150, Minneapolis, MN 55447 (sent electronically)
- Sam Westlund, SRF Consulting Group, 1 Carlson Parkway North, Suite 150, Minneapolis, MN 55447 (sent electronically)
- Tim Wold, SRF Consulting Group, 1 Carlson Parkway North, Suite 150, Minneapolis, MN 55447 (sent electronically)
- Corps of Engineers Project Manager (notice only) (sent electronically)
- BWSR Wetland Bank Coordinator (wetland bank plan applications only)
4. MAILING INFORMATION

➢ For a list of BWSR TEP representatives: www.bwsr.state.mn.us/contact/WCA_areas.pdf
➢ For a list of DNR TEP representatives: www.bwsr.state.mn.us/wetlands/wca/DNR_TEP_contacts.pdf
➢ Department of Natural Resources Regional Offices:

<table>
<thead>
<tr>
<th>NW Region:</th>
<th>NE Region:</th>
<th>Central Region:</th>
<th>Southern Region:</th>
</tr>
</thead>
<tbody>
<tr>
<td>2115 Birchmont Beach Rd. NE</td>
<td>1201 E. Hwy. 2</td>
<td>1200 Warner Road</td>
<td>261 Hwy. 15 South</td>
</tr>
<tr>
<td>Bemidji, MN 56601</td>
<td>Grand Rapids, MN 55744</td>
<td>St. Paul, MN 55106</td>
<td>New Ulm, MN 56073</td>
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</table>

For a map of DNR Administrative Regions, see: http://files.dnr.state.mn.us/aboutdnr/dnr_regions.pdf

➢ For a list of Corps of Project Managers: www.mvp.usace.army.mil/regulatory/default.asp?pageid=687

or send to:

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

➢ For Wetland Bank Plan applications, also send a copy of the application to:
Minnesota Board of Water and Soil Resources
Wetland Bank Coordinator
520 Lafayette Road North
St. Paul, MN 55155

5. ATTACHMENTS

In addition to the application, list any other attachments:
➢ Plymouth Creek Playfield – Wetland Delineation Report
➢ Plymouth Creek Playfield - Joint Application Form
Plymouth Creek Playfield Drainage Improvement Project

Wetland Delineation Report

Version 1.0

City of Plymouth

SRF No. 12973
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Introduction

This report documents wetland delineation efforts for the Plymouth Creek Playfield Drainage Improvement Project, located in the City of Plymouth, Hennepin County, Minnesota (see Appendix B, Figures 1-2). The project is west of Fernbrook Lane and approximately 0.75 mile north of Trunk Highway 55 (TH 55). In order to address inadequate drainage of surface runoff from the playfield, the proposed project will construct an improved trail system and a storm sewer system.

The project area received over 18 inches of rainfall during the three months prior to fieldwork (average is around 12 inches), resulting in stormwater runoff ponding in several areas of the park, particularly over and adjacent to existing trails.

Methodologies

A wetland delineation was completed on October 4, 2019 by Nicole Zappetillo of SRF Consulting Group, Inc. (see Figures 3 and 4 in Appendix A). Wetland 1 was delineated using the Level 2 routine on-site method set forth in the 1987 Corps of Engineers Wetlands Delineation Manual and the USACE Midwest Regional Supplement, Version 2.0 (the Delineation Manual). This method is required under both the federal Clean Water Act (CWA) and the Minnesota Wetland Conservation Act (WCA). Using this method, wetland boundaries are determined through an examination of vegetation, soils and hydrology. Criteria and indicators for each of these parameters are outlined in the Delineation Manual.

Wetland boundaries were surveyed in the field using a Trimble Geo7X handheld GPS unit capable of sub-meter accuracy. The attached data forms (see Appendix B) document dominant plant species, results of soil sampling and observations of hydrology at representative transect locations. Identified wetlands are classified according to methodologies set forth in Wetlands of the United States (U.S. Fish and Wildlife Service [USFWS] Circular 39; Shaw and Fredine, 1956), Wetland Plants and Plant Communities of Minnesota and Wisconsin, Version 3.2 (USACE Publication; Eggers and Reed, 2015), and Classification of Wetlands and Deepwater Habitats of the United States (USFWS Publication; Cowardin, Carter, Golet, and LaRoe, 1979).

Wetlands 2 and 3 are incidental wetlands that developed as a result of inadequate drainage. These boundaries were delineated based on vegetation and visible hydrology indicators; additional information is provided in the Discussion section below.

Land Use and Aquatic Resources

General Description of Existing Land Use

Land use in the review areas consists of park/open space. The surrounding areas are suburban, with residential neighborhoods and commercial development. See Figures 2-3 in Appendix B, and photos in Appendix C.
Antecedent Precipitation

Precipitation during the three months prior to the field delineation (October 2019) was above average. The Minnesota Climatology Working Group Precipitation Worksheet indicated a score of 18 (wet). See Appendix D.

Review Area Soils

A table listing the soils mapped by the Natural Resources Conservation Service (NRCS) within the review area is provided below (Table 1). Locations and areas of mapped soils are provided on Figure 3 in Appendix B; each soil unit is labeled with its respective map unit symbol and hydric rating.

Table 1. Review Area Soils

<table>
<thead>
<tr>
<th>Map Unit Symbol</th>
<th>Map Unit Name</th>
<th>Hydric Rating</th>
<th>Farmland Classification</th>
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<tbody>
<tr>
<td>L21A</td>
<td>Canisteo clay loam, 0-2% slopes</td>
<td>100</td>
<td>Prime farmland if drained</td>
</tr>
<tr>
<td>L22C2</td>
<td>Lester loam, 6-10% slopes, moderately eroded</td>
<td>2</td>
<td>Farmland of statewide importance</td>
</tr>
<tr>
<td>L25A</td>
<td>Le Sueur loam, 1-3% slopes</td>
<td>15</td>
<td>All areas are prime farmland</td>
</tr>
<tr>
<td>L36A</td>
<td>Hamel, overwash-Hamel complex, 0-3% slopes</td>
<td>45</td>
<td>Prime farmland if drained</td>
</tr>
<tr>
<td>L37B</td>
<td>Angus loam, 2-6% slopes</td>
<td>5</td>
<td>All areas are prime farmland</td>
</tr>
<tr>
<td>L50A</td>
<td>Muskego and Houghton soils, 0-1% slopes</td>
<td>100</td>
<td>Not prime farmland</td>
</tr>
<tr>
<td>U2A</td>
<td>Udorthents, wet substratum, 0-2% slopes</td>
<td>0</td>
<td>Not prime farmland</td>
</tr>
</tbody>
</table>

Aquatic Resources Identified in the Review Area

Three wetlands were identified within the review areas; the field-delineated wetland boundaries are shown on Figures 3-5 in Appendix A. A summary of characteristics is listed in Table 2. Additional details concerning vegetation, soils and hydrology are provided in the attached wetland delineation data forms (Appendix B), and descriptions of the delineated resources are provided in the following section. Photographs of the project site and delineated wetlands are provided in Appendix C. There are no Minnesota Department of Natural Resources (DNR) Public Waters located within the review areas.

Table 2. Aquatic Resources

<table>
<thead>
<tr>
<th>Area ID</th>
<th>Delineated Area</th>
<th>Mapped Hydric Soils</th>
<th>Mapped by NWI</th>
<th>Eggers and Reed / Circular 39 / Cowardin</th>
<th>Dominant Vegetation</th>
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<tbody>
<tr>
<td>Wetland 1</td>
<td>0.14 ac.</td>
<td>Yes (100%)</td>
<td>No</td>
<td>Floodplain Forest / Type 1 / PFOA</td>
<td>Peach-leaved Willow, Jewelweed, Reed Canary Grass</td>
</tr>
<tr>
<td>Wetland 2</td>
<td>0.09 ac.</td>
<td>Yes (5%)</td>
<td>No</td>
<td>Seasonally Flooded Basin / Type 1 / PEMAx</td>
<td>Common Spikerush, Lady’s thumb</td>
</tr>
<tr>
<td>Wetland 3</td>
<td>0.16 ac.</td>
<td>Yes (5% &amp; 45%)</td>
<td>No</td>
<td>Seasonally Flooded Basin / Type 1 / PEMAx</td>
<td>Kentucky Bluegrass, Lady’s-thumb, Common Spikerush</td>
</tr>
</tbody>
</table>

1 Areas of delineated aquatic resources on Figures 3-5 in Appendix B.
2 PFOA: Palustrine Forested Temporarily Flooded
   PEMAx: Palustrine Emergent Temporarily Flooded, Excavated
Discussion

The field-delineated wetland boundaries are shown on Figures 3-4 in Appendix B. The NRCS soil survey maps hydric soils within the review areas that also overlap all the delineated wetlands. The National Wetlands Inventory (NWI) does not map any wetlands within the review areas. See Table 2 above.

Most of the project review areas appear to have been regraded and potential wetland areas filled when the park was constructed in the 1970’s or 1980’s.

Wetland 1

Wetland 1 is a floodplain forest / Type 1 / PFOA wetland in the northwest portion of the project area. This wetland conveys runoff from the adjacent paved trail and playfields toward an unnamed stream to the west, which flows into Plymouth Creek to the south. The upland/wetland transition within the review area is defined by moderate to gentle slopes and shift from dominant wetland vegetation to a mix of upland and wetland vegetation. Dominant vegetation in the wetland is peach-leaved willow (Salix amygdaloides), reed canary grass (Phalaris arundinacea), and jewelweed (Impatiens capensis), which transitions to more reed canary grass mixed with ground ivy (Glechoma hederacea), Kentucky bluegrass (Poa pratensis), and white clover (Trifolium repens) in the adjacent uplands. Hydrology to the wetland is received via runoff from the surrounding watershed.

Wetland 2

Wetland 2 is a seasonally flooded basin / Type 1 / PEMAx wetland located east of the existing trail and west of the skate park in the southeast portion of the project area. The upland/wetland transition is primarily defined by a change in hydrology (surface water) and vegetation, as it is shallow and relatively flat. Dominant vegetation in the wetland is common spikerush (Eleocharis palustris) and lady’s-thumb (Persicaria maculosa), which transitions to Kentucky bluegrass, white clover, and ground ivy in the adjacent uplands. Hydrology to the wetland is received via runoff from the surrounding watershed.

Based on a review of historical aerial imagery (see Figures 5A through 5L in Appendix A and climate data in Appendix D), this wetland appears to have developed in historically upland areas and on fill placed during park construction in the 1970’s or 1980’s. The Wetland 2 area was also disturbed in 2011/2012 during removal of an outdoor skating rink and construction of a skate park. The City did not intend for this area to collect water during the growing season or develop wetland characteristics. Construction activity on the site and inadequate drainage throughout the park have resulted in water ponding in this historically upland area. Therefore, we recommend that this wetland be considered incidental and outside the scope of WCA and Section 404 of the CWA.

Wetland 3

Wetland 3 is a seasonally flooded basin / Type 1 / PEMAx wetland located east of the existing trail and northwest of the playground in the southeast portion of the project area. The upland/wetland transition is primarily defined by a change in hydrology (surface water) and vegetation, as it is shallow and relatively flat. Dominant vegetation in the wetland appears to be Kentucky bluegrass and lady’s-thumb, which transitions to more Kentucky bluegrass as well as white clover and ground
ivy in the adjacent uplands. Hydrology to the wetland is received via runoff from the surrounding watershed.

Similar to Wetland 2, this wetland appears to have developed in historically upland areas. The east portion of this wetland was under an outdoor skating rink prior to 2011/2012 (see Figures 5F through 5K in Appendix A). When the rink was removed, a skate park was constructed to the north, and the Wetland 3 area was graded flat to accommodate use as a recreational ice rink during the winter months (see Figure 5E). Like Wetland 2, the City did not intend for this area to collect water during the growing season or develop wetland characteristics. Construction activity on the site and inadequate drainage throughout the park have resulted in water ponding in this historically upland area. Therefore, we recommend that this wetland be considered incidental and outside the scope of WCA and Section 404 of the CWA.

**Regulatory Context**

LGUs review and approve wetland boundaries/types and proposed impacts under WCA, with additional review and guidance from the Technical Evaluation Panel (TEP). All wetlands are regulated by WCA except for those that are found to be incidental (e.g., isolated wetlands constructed in uplands). For wetlands that are regulated by WCA, a replacement ratio of 2:1 is usually required for impacts to wetlands in Hennepin County, provided the wetland replacement credits are obtained from a mitigation bank within the same bank service area (BSA) as the impacts.

The USACE administers Section 404 of the CWA. All aquatic resources are assumed to be waters of the U.S. (jurisdictional) under the CWA unless the USACE has completed a Jurisdictional Determination and finds them to not be waters of the U.S. (non-jurisdictional). A Section 404 Permit is required for impacts to jurisdictional waters.

**Conclusions and Recommendations**

Based on a combination of field delineations and review of off-site sources we conclude that the field delineated areas represent the correct wetland boundaries.

This report will be provided to members of the TEP for review and approval. If requested, a TEP meeting will be convened to field-review the boundaries. No construction activities should commence prior to receiving boundary approvals and relevant permits. Concurrent with the TEP review process, a jurisdictional determination will be requested from the USACE.
References

Clean Water Act, Section 401. Water Quality Certification. 33 USC 1341.


Minnesota Department of Natural Resources. Protected Waters and Protected Waters Wetland Map of Hennepin County.

Minnesota Department of Natural Resources. Protected Waters Work Permit Program.


I hereby certify that this report was prepared by me or under my direct supervision and that I am a Certified Wetland Delineator under the Wetland Delineator Certification Program for the State of Minnesota.

Nicole Zappetillo (WDCP #1242)
Senior Wetland Scientist
Appendix A – Figures

- Figure 1 – Project Location Map
- Figure 2 – Project Area Map
- Figure 3 – Wetland Delineation
- Figure 4 – LiDAR 2-Foot Contours
- Figures 5A-L – Historical Aerials
Project Location

Plymouth Creek Playfield Drainage Improvements
City of Plymouth

Figure 1
Project Area

Plymouth Creek Playfield Drainage Improvements
City of Plymouth

Legend
- Review Area
- DNR Public Watercourse
- DNR Public Water
- Municipal Boundaries
- County Boundary

Figure 2

H:\Projects\12000\12973\EnviPlan\Data\GIS\mxd\12973_Figure02_ProjectArea.mxd

Aerial Source: Hennepin County, Spring 2018
**Wetland Delineation**

Plymouth Creek Playfield Drainage Improvements

City of Plymouth

Figure 3
LiDAR 2-Foot Contours
Plymouth Creek Playfield Drainage Improvements
City of Plymouth
Figure 4

Legend
- Sample Point
- Photo Point
- Wetland
- Review Area

Aerial Source: Hennepin County, Spring 2018
Spring 2018 Historical Aerial (Normal Antecedent Precipitation)

Plymouth Creek Playfield Drainage Improvements

City of Plymouth
8/23/2017 Historical Aerial (Normal Antecedent Precipitation)

Plymouth Creek Playfield Drainage Improvements
City of Plymouth

Figure 5B
**Legend**
- Wetland
- Review Area
- Municipal Boundaries
- County Boundary
- Section-Township-Range

**4/15/2016 Historical Aerial (Normal Antecedent Precipitation)**
Plymouth Creek Playfield Drainage Improvements
City of Plymouth

**Figure 5C**
Wetland 1

Wetland 2

Wetland 3

Legend
- Wetland
- Review Area
- Municipal Boundaries
- County Boundary
- Section-Township-Range

Figure 5D

9/27/2015 Historical Aerial (Normal Antecedent Precipitation)
Plymouth Creek Playfield Drainage Improvements
City of Plymouth

Aerial Source: MnGeo WMS Service 2015 color FSA
Wetland 1

Wetland 2

Wetland 3

Sec. 16
T118N
R22W

Sec. 15
T118N
R22W

Figure 5E

4/3/2012 Historical Aerial (Normal Antecedent Precipitation)
Plymouth Creek Playfield Drainage Improvements
City of Plymouth

Legend
- Wetland
- Review Area
- Municipal Boundaries
- County Boundary
- Section-Township-Range

Aerial Source: MnGeo WMS Service 2012 color Twin Cities
Legend
- Wetland
- Review Area
- Municipal Boundaries
- County Boundary
- Section-Township-Range

4/15/2010 Historical Aerial (Below Average Antecedent Precipitation)

Plymouth Creek Playfield Drainage Improvements
City of Plymouth
4/1/2006 Historical Aerial (Normal Antecedent Precipitation)
Plymouth Creek Playfield Drainage Improvements
City of Plymouth
5/1/2000 Historical Aerial (Below Average Antecedent Precipitation)
Plymouth Creek Playfield Drainage Improvements
City of Plymouth

Figure 5I
4/13/1997 Historical Aerial (Normal Antecedent Precipitation)
Plymouth Creek Playfield Drainage Improvements
City of Plymouth

Figure 5J
Figure 5K

Plymouth Creek Playfield Drainage Improvements
City of Plymouth
11/9/1971 Historical Aerial (Normal Antecedent Precipitation)
Plymouth Creek Playfield Drainage Improvements
City of Plymouth
Appendix B – Wetland Determination Data Forms
WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Plymouth Creek Playfield
City/County: Plymouth / Hennepin
Sampling Date: 10/4/2019
Applicant/Owner: City of Plymouth
State: Minnesota
Sampling Point: SP-1
Investigator(s): N. Zappetillo, SRF Consulting Group
Section, Township, Range: Sec. 16, T118N, R22W
Landform (hillslope, terrace, etc.): depression
Local relief (concave, convex, none): concave
Slope (%): Lat: 45.025014 N
Long: -93.466226 W
Datum: NAD 83
Soil Map Unit Name L50A: Muskego and Houghton soils, 0-1% slopes
NWI Classification: None
Are climatic/hydrologic conditions of the site typical for this time of the year? N (If no, explain in remarks)
Are vegetation _______, soil _______, or hydrology _______ significantly disturbed? Are "Normal Circumstances" present? Y
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? Y
Hydric soil present? Y
Indicators of wetland hydrology present? Y

Is the sampled area within a wetland? Y

Remarks:

Wetland 1; see photos P-1 and P-2.
MN Climatology Working Group precipitation data indicates antecedent precipitation for the site has been above average (wet).

VEGETATION -- Use scientific names of plants.

### Dominance Test Worksheet
Number of Dominant Species that are OBL, FACW, or FAC: 7 (A)
Total Number of Dominant Species Across all Strata: 8 (B)
Percent of Dominant Species that are OBL, FACW, or FAC: 87.50% (A/B)

### Prevalence Index Worksheet
Total % Cover of:
OBL species \( \times 1 = \)
FACW species \( \times 2 = \)
FAC species \( \times 3 = \)
FACU species \( \times 4 = \)
UPL species \( \times 5 = \)
Column totals \( = 445 \) (B)
Prevalence Index = B/A = 2.41

### Hydrophytic Vegetation Indicators:
Rapid test for hydrophytic vegetation
X Domination test is >50%
X Prevalence index is ≤3.0*

Morphological adaptations* (provide supporting data in Remarks or on a separate sheet)
Problematic hydrophytic vegetation* (explain)

*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

Hydrophytic vegetation present? Y

<table>
<thead>
<tr>
<th>Tree Stratum (Plot size: 30’ radius)</th>
<th>Absolute % Cover</th>
<th>Dominant Species</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salix amygdaloides</td>
<td>60</td>
<td>Y</td>
<td>FACW</td>
</tr>
<tr>
<td>Acer negundo</td>
<td>5</td>
<td>N</td>
<td>FAC</td>
</tr>
<tr>
<td>Cornus racemosa</td>
<td>10</td>
<td>Y</td>
<td>FAC</td>
</tr>
<tr>
<td>Acer negundo</td>
<td>10</td>
<td>Y</td>
<td>FAC</td>
</tr>
<tr>
<td>Gledchoma hederacea</td>
<td>20</td>
<td>Y</td>
<td>FAC</td>
</tr>
<tr>
<td>Phalaris arundinacea</td>
<td>30</td>
<td>Y</td>
<td>FACW</td>
</tr>
<tr>
<td>Impatiens capensis</td>
<td>25</td>
<td>Y</td>
<td>FACW</td>
</tr>
<tr>
<td>Glechoma hederacea</td>
<td>20</td>
<td>Y</td>
<td>FAC</td>
</tr>
<tr>
<td>Vitis riparia</td>
<td>15</td>
<td>Y</td>
<td>FACW</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sapling/Shrub stratum (Plot size: 15’ radius)</th>
<th>Absolute % Cover</th>
<th>Dominant Species</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acer negundo</td>
<td>10</td>
<td>Y</td>
<td>FAC</td>
</tr>
<tr>
<td>Cornus racemosa</td>
<td>10</td>
<td>Y</td>
<td>FAC</td>
</tr>
<tr>
<td>Acer negundo</td>
<td>10</td>
<td>Y</td>
<td>FAC</td>
</tr>
<tr>
<td>Phalaris arundinacea</td>
<td>30</td>
<td>Y</td>
<td>FACW</td>
</tr>
<tr>
<td>Impatiens capensis</td>
<td>25</td>
<td>Y</td>
<td>FACW</td>
</tr>
<tr>
<td>Glechoma hederacea</td>
<td>20</td>
<td>Y</td>
<td>FAC</td>
</tr>
<tr>
<td>Vitis riparia</td>
<td>15</td>
<td>Y</td>
<td>FACW</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Herb stratum (Plot size: 5’ radius)</th>
<th>Absolute % Cover</th>
<th>Dominant Species</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phalaris arundinacea</td>
<td>30</td>
<td>Y</td>
<td>FACW</td>
</tr>
<tr>
<td>Impatiens capensis</td>
<td>25</td>
<td>Y</td>
<td>FACW</td>
</tr>
<tr>
<td>Glechoma hederacea</td>
<td>20</td>
<td>Y</td>
<td>FAC</td>
</tr>
<tr>
<td>Vitis riparia</td>
<td>15</td>
<td>Y</td>
<td>FACW</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Woody vine stratum (Plot size: 30’ radius)</th>
<th>Absolute % Cover</th>
<th>Dominant Species</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vitis riparia</td>
<td>15</td>
<td>Y</td>
<td>FACW</td>
</tr>
</tbody>
</table>

Remarks:
**SOIL**

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

<table>
<thead>
<tr>
<th>Depth (Inches)</th>
<th>Matrix</th>
<th>Redox Features</th>
<th>Texture</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Color (moist)</td>
<td>%</td>
<td>Color (moist)</td>
<td>%</td>
</tr>
<tr>
<td>0-2</td>
<td>10YR 3/1</td>
<td>100</td>
<td>2.5Y 6/2</td>
<td>2</td>
</tr>
<tr>
<td>2-9</td>
<td>10YR 3/1</td>
<td>95</td>
<td>7.5YR 5/6</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2.5Y 3/1</td>
<td>2</td>
</tr>
<tr>
<td>9-12</td>
<td>10YR 3/1</td>
<td>88</td>
<td>7.5YR 5/6</td>
<td>2</td>
</tr>
<tr>
<td>12-16</td>
<td>10YR 2/1</td>
<td>100</td>
<td>7.5YR 5/6</td>
<td>5</td>
</tr>
</tbody>
</table>

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

**Hydric Soil Indicators:**

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

**Indicators for Problematic Hydric Soils***:

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

**Restrictive Layer (if present):**

- Type: N/A
- Depth (inches): __________________________
  Hydric soil present? Y

Remarks:

**HYDROLOGY**

**Wetland Hydrology Indicators:**

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

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1)
- Sediment Deposits (B2)
- Drift Deposits (B3)
- Algal Mat or Crust (B4)
- Iron Deposits (B5)
- Inundation Visible on Aerial Imagery (B7)
- Sparsely Vegetated Concave Surface (B8)

Secondary Indicators (minimum of two required)

- 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)
- Geomorphic Position (D2)
- FAC-Neutral Test (D5)

Field Observations:

- Surface Water Present? Yes
- Water Table Present? Yes X
- Saturation Present? Yes X

Depth (inches):

- X Depth (inches): 1
- Depth (inches): 13

Wetland Hydrology Present? Y

Remarks:

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
**WETLAND DETERMINATION DATA FORM - Midwest Region**

Project/Site: Plymouth Creek Playfield | City/County: Plymouth / Hennepin | Sampling Date: 10/4/2019
Applicant/Owner: City of Plymouth | State: Minnesota | Sampling Point: SP-2
Investigator(s): N. Zappetillo, SRF Consulting Group | Section, Township, Range: Sec. 16, T118N, R22W
Landform (hillslope, terrace, etc.): hillslope | Local relief (concave, convex, none): concave
Slope (%): | Lat: 45.024980 N | Long: -93.466215 W | Datum: NAD 83
Soil Map Unit Name L50A: Muskego and Houghton soils, 0-1% slopes | NWI Classification: None

---

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

<table>
<thead>
<tr>
<th>Hydrophytic vegetation present?</th>
<th>Y</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydric soil present?</td>
<td>N</td>
</tr>
<tr>
<td>Indicators of wetland hydrology present?</td>
<td>N</td>
</tr>
</tbody>
</table>

**Remarks:**

Upland area adjacent to Wetland 1.

MN Climatolgy Working Group precipitation data indicates antecedent precipitation for the site has been above average (wet).

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

<table>
<thead>
<tr>
<th>Tree Stratum (Plot size: 30’ radius)</th>
<th>Absolute % Cover</th>
<th>Dominant Species</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Salix amygdaloides</td>
<td>30</td>
<td>Y</td>
<td>FACW</td>
</tr>
<tr>
<td>2 Acer negundo</td>
<td>15</td>
<td>Y</td>
<td>FAC</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>45 = Total Cover</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sapling/Shrub Stratum (Plot size: 15’ radius)</th>
<th>Absolute % Cover</th>
<th>Dominant Species</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 None</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>45 = Total Cover</td>
<td></td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Herb Stratum (Plot size: 5’ radius)</th>
<th>Absolute % Cover</th>
<th>Dominant Species</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Phalaris arundinacea</td>
<td>70</td>
<td>Y</td>
<td>FACW</td>
</tr>
<tr>
<td>2 Glechoma hederacea</td>
<td>25</td>
<td>Y</td>
<td>FACU</td>
</tr>
<tr>
<td>3 Impatiens capensis</td>
<td>5</td>
<td>N</td>
<td>FACW</td>
</tr>
<tr>
<td>4 Urtica dioica</td>
<td>5</td>
<td>N</td>
<td>FACW</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>105 = Total Cover</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Woody vine Stratum (Plot size: 30’ radius)</th>
<th>Absolute % Cover</th>
<th>Dominant Species</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 None</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>= Total Cover</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Dominance Test Worksheet**

- Number of Dominant Species that are OBL, FAC, or FAC: 3 (A)
- Total Number of Dominant Species Across all Strata: 4 (B)
- Percent of Dominant Species that are OBL, FAC, or FAC: 75.00% (A/B)

**Prevalence Index Worksheet**

- Total % Cover of:
  - OBL species x 1 =
  - FACW species x 110 x 2 = 220
  - FAC species x 15 x 3 = 45
  - FACU species x 25 x 4 = 100
  - UPL species x 5 =
- Column totals 150 (A) = 365 (B)
- Prevalence Index = B/A = 2.43

**Hydrophytic Vegetation Indicators:**

- Rapid test for hydrophytic vegetation
  - X Dominance test is >50%
  - X Prevalence index is ≤3.0*
  - Morphogical adaptations* (provide supporting data in Remarks or on a separate sheet)
  - Problematic hydrophytic vegetation* (explain)
- *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

**Remarks:**
**SOIL**

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

<table>
<thead>
<tr>
<th>Depth (Inches)</th>
<th>Matrix Color (moist)</th>
<th>%</th>
<th>Redox Features Color (moist)</th>
<th>%</th>
<th>Type</th>
<th>Loc</th>
<th>Texture</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-3</td>
<td>10YR 3/1</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>SL</td>
<td></td>
</tr>
<tr>
<td>3-6</td>
<td>10YR 3/1</td>
<td>92</td>
<td>2.5Y 6/2</td>
<td>5</td>
<td>D</td>
<td>M</td>
<td>SL</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>7.5YR 5/6</td>
<td>3</td>
<td>C</td>
<td>M</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6-9</td>
<td>10YR 2/1</td>
<td>99</td>
<td>7.5YR 4/6</td>
<td>1</td>
<td>C</td>
<td>M</td>
<td>SL</td>
<td></td>
</tr>
<tr>
<td>9-16</td>
<td>10YR 2/1</td>
<td>67</td>
<td>7.5YR 4/6</td>
<td>8</td>
<td>C</td>
<td>M</td>
<td>SIL</td>
<td></td>
</tr>
<tr>
<td>10YR 3/2</td>
<td></td>
<td>25</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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

**Indicators for Problematic Hydric Soils***:
- sandy gleyed matrix (S4)
- sandy redox (S5)
- loamy mucky mineral (F1)
- loamy gleyed matrix (F2)
- depleted matrix (F3)
- redox dark surface (F6)
- depleted dark surface (F7)
- redox depressions (F8)

**Restrictive Layer (if present):**
- Type: N/A
- Depth (inches): __________

**Hydric soil present?** N

Remarks:

**HYDROLOGY**

**Wetland Hydrology Indicators:**
- 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
- Water Table Present? Yes
- Saturation Present? Yes

(no capillary fringe)

| Depth (inches): 15 |
| Depth (inches): to 16 |

**Wetland Hydrology Present?** N

Remarks:

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available.
Appendix C – Photographs
P-1: Photo facing north of Wetland 1, a Floodplain Forest / Type 1 / PFOA wetland located north of the existing trail at the northwest edge of the review area.

P-2: Photo facing west of Wetland 1, a Floodplain Forest / Type 1 / PFOA wetland located north of the existing trail at the northwest edge of the review area.
P-3: Photo facing southeast of Wetland 2, an incidental Seasonally Flooded Basin / Type 1 / PEMAx wetland located east of the trail and west of the skate park.

P-4: Photo facing northeast of Wetland 3, an incidental Seasonally Flooded Basin / Type 1 / PEMAx wetland located east of the trail and northwest of the playground.
Appendix D – Climatology Data
Precipitation Worksheet Using Gridded Database

Precipitation data for target wetland location:
- county: Hennepin
- township number: 118N
- township name: Plymouth
- range number: 22W
- nearest community: Plymouth
- section number: 16

Aerial photograph or site visit date:
Friday, October 4, 2019

Score using 1981-2010 normal period

<table>
<thead>
<tr>
<th></th>
<th>first prior month: September 2019</th>
<th>second prior month: August 2019</th>
<th>third prior month: July 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>estimated precipitation total for this location:</td>
<td>4.67R</td>
<td>6.27R</td>
<td>7.79R</td>
</tr>
<tr>
<td>there is a 30% chance this location will have less than:</td>
<td>2.21</td>
<td>3.19</td>
<td>2.52</td>
</tr>
<tr>
<td>there is a 30% chance this location will have more than:</td>
<td>3.71</td>
<td>5.04</td>
<td>4.48</td>
</tr>
<tr>
<td>type of month:</td>
<td>dry</td>
<td>normal</td>
<td>wet</td>
</tr>
<tr>
<td>monthly score</td>
<td>3 * 3 = 9</td>
<td>2 * 3 = 6</td>
<td>1 * 3 = 3</td>
</tr>
<tr>
<td>multi-month score:</td>
<td>6 to 9 (dry)</td>
<td>10 to 14 (normal)</td>
<td>15 to 18 (wet)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>18 (Wet)</td>
</tr>
</tbody>
</table>

Other Resources:
- retrieve daily precipitation data
- view radar-based precipitation estimates
- view weekly precipitation maps
- Evaluating Antecedent Precipitation Conditions (BWSR)
Precipitation Worksheet Using Gridded Database

Precipitation data for target wetland location:
- county: Hennepin
- township number: 118N
- township name: Plymouth
- range number: 22W
- nearest community: Plymouth
- section number: 16

Aerial photograph or site visit date:
Sunday, April 15, 2018

Score using 1981-2010 normal period

<table>
<thead>
<tr>
<th>values are in inches</th>
<th>first prior month</th>
<th>second prior month</th>
<th>third prior month</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>March 2018</td>
<td>February 2018</td>
<td>January 2018</td>
</tr>
<tr>
<td>estimated precipitation total for this location:</td>
<td>1.23</td>
<td>1.33</td>
<td>0.93</td>
</tr>
<tr>
<td>there is a 30% chance this location will have less than:</td>
<td>1.28</td>
<td>0.41</td>
<td>0.52</td>
</tr>
<tr>
<td>there is a 30% chance this location will have more than:</td>
<td>1.97</td>
<td>0.92</td>
<td>1.06</td>
</tr>
<tr>
<td>type of month:</td>
<td>dry</td>
<td>normal</td>
<td>wet</td>
</tr>
<tr>
<td>monthly score</td>
<td>3 * 1 = 3</td>
<td>2 * 3 = 6</td>
<td>1 * 2 = 2</td>
</tr>
<tr>
<td>multi-month score:</td>
<td>6 to 9 (dry)</td>
<td>10 to 14 (normal)</td>
<td>15 to 18 (wet)</td>
</tr>
</tbody>
</table>

Other Resources:
- retrieve daily precipitation data
- view radar-based precipitation estimates
- view weekly precipitation maps
- Evaluating Antecedent Precipitation Conditions (BWSR)
Precipitation Worksheet Using Gridded Database

Precipitation data for target wetland location:
- county: Hennepin
- township number: 118N
- township name: Plymouth
- range number: 22W
- nearest community: Plymouth
- section number: 16

Aerial photograph or site visit date:
Wednesday, August 23, 2017

Score using 1981-2010 normal period

<table>
<thead>
<tr>
<th>first prior month: July 2017</th>
<th>second prior month: June 2017</th>
<th>third prior month: May 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>estimated precipitation total for this location:</td>
<td>3.70</td>
<td>3.89</td>
</tr>
<tr>
<td>there is a 30% chance this location will have less than:</td>
<td>2.52</td>
<td>3.37</td>
</tr>
<tr>
<td>there is a 30% chance this location will have more than:</td>
<td>4.48</td>
<td>5.57</td>
</tr>
<tr>
<td>type of month:</td>
<td>dry</td>
<td>normal</td>
</tr>
<tr>
<td>- normal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>monthly score</td>
<td>3 * 2 = 6</td>
<td>2 * 2 = 4</td>
</tr>
</tbody>
</table>

multi-month score: 6 to 9 (dry) 10 to 14 (normal) 15 to 18 (wet) 13 (Normal)

Other Resources:
- retrieve daily precipitation data
- view radar-based precipitation estimates
- view weekly precipitation maps
- Evaluating Antecedent Precipitation Conditions (BWSR)
Precipitation Worksheet Using Gridded Database

Precipitation data for target wetland location:
- county: Hennepin
- township number: 118N
- township name: Plymouth
- range number: 22W
- nearest community: Plymouth
- section number: 16

Aerial photograph or site visit date:
Friday, April 15, 2016

Score using 1981-2010 normal period

<table>
<thead>
<tr>
<th>values are in inches</th>
<th>first prior month: March 2016</th>
<th>second prior month: February 2016</th>
<th>third prior month: January 2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>estimated precipitation total for this location:</td>
<td>1.32</td>
<td>0.86</td>
<td>0.31</td>
</tr>
<tr>
<td>there is a 30% chance this location will have less than:</td>
<td>1.28</td>
<td>0.41</td>
<td>0.52</td>
</tr>
<tr>
<td>there is a 30% chance this location will have more than:</td>
<td>1.97</td>
<td>0.92</td>
<td>1.06</td>
</tr>
<tr>
<td>type of month: dry normal wet</td>
<td>normal</td>
<td>normal</td>
<td>dry</td>
</tr>
<tr>
<td>monthly score</td>
<td>3 * 2 = 6</td>
<td>2 * 2 = 4</td>
<td>1 * 1 = 1</td>
</tr>
<tr>
<td>multi-month score:</td>
<td>6 to 9 (dry) 10 to 14 (normal) 15 to 18 (wet)</td>
<td></td>
<td>11 (Normal)</td>
</tr>
</tbody>
</table>

Other Resources:
- retrieve daily precipitation data
- view radar-based precipitation estimates
- view weekly precipitation maps
- Evaluating Antecedent Precipitation Conditions (BWSR)
Precipitation Worksheet Using Gridded Database

Precipitation data for target wetland location:
- county: Hennepin
- township name: Plymouth
- range number: 22W
- nearest community: Plymouth
- township number: 118N
- section number: 16

Aerial photograph or site visit date:
Sunday, September 27, 2015

Score using 1981-2010 normal period

<table>
<thead>
<tr>
<th>values are in inches</th>
<th>first prior month:</th>
<th>second prior month:</th>
<th>third prior month:</th>
</tr>
</thead>
<tbody>
<tr>
<td>estimated precipitation total for this location:</td>
<td>3.67</td>
<td>6.95</td>
<td>3.46</td>
</tr>
<tr>
<td>there is a 30% chance this location will have less than:</td>
<td>3.19</td>
<td>2.52</td>
<td>3.37</td>
</tr>
<tr>
<td>there is a 30% chance this location will have more than:</td>
<td>5.04</td>
<td>4.48</td>
<td>5.57</td>
</tr>
<tr>
<td>type of month:</td>
<td>dry</td>
<td>normal</td>
<td>wet</td>
</tr>
<tr>
<td>monthly score</td>
<td>3 * 2 = 6</td>
<td>2 * 3 = 6</td>
<td>1 * 2 = 2</td>
</tr>
<tr>
<td>multi-month score:</td>
<td>6 to 9 (dry)</td>
<td>10 to 14 (normal)</td>
<td>15 to 18 (wet)</td>
</tr>
</tbody>
</table>

Other Resources:
- retrieve daily precipitation data
- view radar-based precipitation estimates
- view weekly precipitation maps
- Evaluating Antecedent Precipitation Conditions (BWSR)
Precipitation Worksheet Using Gridded Database

Precipitation data for target wetland location:
- County: Hennepin
- Township number: 118N
- Township name: Plymouth
- Range number: 22W
- Nearest community: Plymouth
- Section number: 16

Aerial photograph or site visit date:
Tuesday, April 3, 2012

Score using 1981-2010 normal period

<table>
<thead>
<tr>
<th>values are in inches</th>
<th>first prior month: March 2012</th>
<th>second prior month: February 2012</th>
<th>third prior month: January 2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>estimated precipitation total for this location:</td>
<td>1.21</td>
<td>2.11</td>
<td>0.46</td>
</tr>
<tr>
<td>there is a 30% chance this location will have less than:</td>
<td>1.28</td>
<td>0.41</td>
<td>0.52</td>
</tr>
<tr>
<td>there is a 30% chance this location will have more than:</td>
<td>1.97</td>
<td>0.92</td>
<td>1.06</td>
</tr>
<tr>
<td>type of month:</td>
<td>dry</td>
<td>normal</td>
<td>wet</td>
</tr>
<tr>
<td>monthly score</td>
<td>3 * 1 = 3</td>
<td>2 * 3 = 6</td>
<td>1 * 1 = 1</td>
</tr>
<tr>
<td>multi-month score:</td>
<td>6 to 9 (dry)</td>
<td>10 to 14 (normal)</td>
<td>15 to 18 (wet)</td>
</tr>
</tbody>
</table>

10 (Normal)

Other Resources:
- retrieve daily precipitation data
- view radar-based precipitation estimates
- view weekly precipitation maps
- Evaluating Antecedent Precipitation Conditions (BWSR)
Precipitation Worksheet Using Gridded Database

Precipitation data for target wetland location:
- **county:** Hennepin
- **township number:** 118N
- **township name:** Plymouth
- **range number:** 22W
- **nearest community:** Plymouth
- **section number:** 16

**Aerial photograph or site visit date:**
Thursday, April 15, 2010

**Score using 1981-2010 normal period**

<table>
<thead>
<tr>
<th>values are in inches</th>
<th>first prior month: March 2010</th>
<th>second prior month: February 2010</th>
<th>third prior month: January 2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>estimated precipitation total for this location:</td>
<td>0.94</td>
<td>0.81</td>
<td>0.56</td>
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<tr>
<td>there is a 30% chance this location will have less than:</td>
<td>1.28</td>
<td>0.41</td>
<td>0.52</td>
</tr>
<tr>
<td>there is a 30% chance this location will have more than:</td>
<td>1.97</td>
<td>0.92</td>
<td>1.06</td>
</tr>
<tr>
<td>type of month: dry normal wet</td>
<td>dry</td>
<td>normal</td>
<td>normal</td>
</tr>
<tr>
<td>monthly score</td>
<td>3 * 1 = 3</td>
<td>2 * 2 = 4</td>
<td>1 * 2 = 2</td>
</tr>
<tr>
<td>multi-month score:</td>
<td>6 to 9 (dry)</td>
<td>10 to 14 (normal)</td>
<td>15 to 18 (wet)</td>
</tr>
</tbody>
</table>

**Other Resources:**
- retrieve daily precipitation data
- view radar-based precipitation estimates
- view weekly precipitation maps
- *Evaluating Antecedent Precipitation Conditions (BWSR)*
Precipitation Worksheet Using Gridded Database

Precipitation data for target wetland location:
- County: Hennepin
- Township number: 118N
- Township name: Plymouth
- Range number: 22W
- Nearest community: Plymouth
- Section number: 16

Aerial photograph or site visit date: Saturday, April 1, 2006

Score using 1981-2010 normal period

<table>
<thead>
<tr>
<th>Estimated precipitation total for this location:</th>
<th>first prior month: March 2006</th>
<th>second prior month: February 2006</th>
<th>third prior month: January 2006</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.59</td>
<td>0.42</td>
<td>0.55</td>
<td></td>
</tr>
<tr>
<td>There is a 30% chance this location will have less than:</td>
<td>1.28</td>
<td>0.41</td>
<td>0.52</td>
</tr>
<tr>
<td>There is a 30% chance this location will have more than:</td>
<td>1.97</td>
<td>0.92</td>
<td>1.06</td>
</tr>
<tr>
<td>Type of month: dry normal wet</td>
<td>normal</td>
<td>normal</td>
<td>normal</td>
</tr>
<tr>
<td>Monthly score</td>
<td>3 * 2 = 6</td>
<td>2 * 2 = 4</td>
<td>1 * 2 = 2</td>
</tr>
</tbody>
</table>

Multi-month score: 6 to 9 (dry) 10 to 14 (normal) 15 to 18 (wet) 12 (Normal)

Other Resources:
- Retrieve daily precipitation data
- View radar-based precipitation estimates
- View weekly precipitation maps
- Evaluating Antecedent Precipitation Conditions (BWSR)
Precipitation Worksheet Using Gridded Database

Precipitation data for target wetland location:
- county: Hennepin
- township name: Plymouth
- nearest community: Plymouth

Township number: 118N
Range number: 22W
Section number: 16

Aerial photograph or site visit date:
Friday, July 18, 2003

Score using 1981-2010 normal period

<table>
<thead>
<tr>
<th></th>
<th>first prior month: June 2003</th>
<th>second prior month: May 2003</th>
<th>third prior month: April 2003</th>
</tr>
</thead>
<tbody>
<tr>
<td>Estimated precipitation total for this location:</td>
<td>6.92</td>
<td>4.62</td>
<td>2.83</td>
</tr>
<tr>
<td>There is a 30% chance this location will have less than:</td>
<td>3.37</td>
<td>2.74</td>
<td>2.02</td>
</tr>
<tr>
<td>There is a 30% chance this location will have more than:</td>
<td>5.58</td>
<td>4.17</td>
<td>2.90</td>
</tr>
<tr>
<td>Type of month: dry normal wet</td>
<td>wet</td>
<td>wet</td>
<td>normal</td>
</tr>
<tr>
<td>Monthly score</td>
<td>3 * 3 = 9</td>
<td>2 * 3 = 6</td>
<td>1 * 2 = 2</td>
</tr>
<tr>
<td>Multi-month score:</td>
<td>6 to 9 (dry)</td>
<td>10 to 14 (normal)</td>
<td>15 to 18 (wet)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>17 (Wet)</td>
</tr>
</tbody>
</table>

Other Resources:
- retrieve daily precipitation data
- view radar-based precipitation estimates
- view weekly precipitation maps
- Evaluating Antecedent Precipitation Conditions (BWSR)
Precipitation Worksheet Using Gridded Database

Precipitation data for target wetland location:
- county: Hennepin
- township name: Plymouth
- nearest community: Plymouth
- township number: 118N
- range number: 22W
- section number: 16

Aerial photograph or site visit date:
Monday, May 1, 2000

Score using 1981-2010 normal period

<table>
<thead>
<tr>
<th>values are in inches</th>
<th>first prior month: April 2000</th>
<th>second prior month: March 2000</th>
<th>third prior month: February 2000</th>
</tr>
</thead>
<tbody>
<tr>
<td>estimated precipitation total for this location:</td>
<td>1.36</td>
<td>0.99</td>
<td>1.12</td>
</tr>
<tr>
<td>there is a 30% chance this location will have less than:</td>
<td>2.02</td>
<td>1.28</td>
<td>0.41</td>
</tr>
<tr>
<td>there is a 30% chance this location will have more than:</td>
<td>2.90</td>
<td>1.97</td>
<td>0.92</td>
</tr>
<tr>
<td>type of month:</td>
<td>dry</td>
<td>normal</td>
<td>wet</td>
</tr>
<tr>
<td>monthly score</td>
<td>3 * 1 = 3</td>
<td>2 * 1 = 2</td>
<td>1 * 3 = 3</td>
</tr>
<tr>
<td>multi-month score:</td>
<td>6 to 9 (dry)</td>
<td>10 to 14 (normal)</td>
<td>15 to 18 (wet)</td>
</tr>
</tbody>
</table>

Other Resources:
- retrieve daily precipitation data
- view radar-based precipitation estimates
- view weekly precipitation maps
- Evaluating Antecedent Precipitation Conditions (BWSR)
Precipitation Worksheet Using Gridded Database

Precipitation data for target wetland location:
- county: Hennepin
- township number: 118N
- township name: Plymouth
- range number: 22W
- nearest community: Plymouth
- section number: 16

Aerial photograph or site visit date:
Sunday, April 13, 1997

Score using 1981-2010 normal period

<table>
<thead>
<tr>
<th>values are in inches</th>
<th>first prior month</th>
<th>second prior month</th>
<th>third prior month</th>
</tr>
</thead>
<tbody>
<tr>
<td>A 'R' following a monthly total indicates a provisional value derived from radar-based estimates.</td>
<td>March 1997</td>
<td>February 1997</td>
<td>January 1997</td>
</tr>
<tr>
<td>estimated precipitation total for this location:</td>
<td>1.37</td>
<td>0.25</td>
<td>1.61</td>
</tr>
<tr>
<td>there is a 30% chance this location will have less than:</td>
<td>1.28</td>
<td>0.41</td>
<td>0.52</td>
</tr>
<tr>
<td>there is a 30% chance this location will have more than:</td>
<td>1.97</td>
<td>0.92</td>
<td>1.06</td>
</tr>
<tr>
<td>type of month: dry normal wet</td>
<td>normal dry wet</td>
<td>3 * 2 = 6</td>
<td>2 * 1 = 2</td>
</tr>
<tr>
<td>monthly score</td>
<td>1 * 3 = 3</td>
<td>11 (Normal)</td>
<td></td>
</tr>
<tr>
<td>multi-month score:</td>
<td>6 to 9 (dry) 10 to 14 (normal) 15 to 18 (wet)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Other Resources:
- retrieve daily precipitation data
- view radar-based precipitation estimates
- view weekly precipitation maps
- Evaluating Antecedent Precipitation Conditions (BWSR)
Precipitation Worksheet Using Gridded Database

Precipitation data for target wetland location:
- county: Hennepin
- township number: 118N
- township name: Plymouth
- range number: 22W
- nearest community: Plymouth
- section number: 16

Aerial photograph or site visit date:
- Sunday, April 21, 1991

Score using 1981-2010 normal period

<table>
<thead>
<tr>
<th></th>
<th>first prior month:</th>
<th>second prior month:</th>
<th>third prior month:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerial photograph or site visit date</td>
<td>March 1991</td>
<td>February 1991</td>
<td>January 1991</td>
</tr>
<tr>
<td>Estimated precipitation total for this location</td>
<td>2.29</td>
<td>1.40</td>
<td>0.65</td>
</tr>
<tr>
<td>There is a 30% chance this location will have less than</td>
<td>1.28</td>
<td>0.41</td>
<td>0.52</td>
</tr>
<tr>
<td>There is a 30% chance this location will have more than</td>
<td>1.97</td>
<td>0.92</td>
<td>1.06</td>
</tr>
<tr>
<td>Type of month</td>
<td>dry</td>
<td>normal</td>
<td>wet</td>
</tr>
<tr>
<td>Monthly score</td>
<td>3 * 3 = 9</td>
<td>2 * 3 = 6</td>
<td>1 * 2 = 2</td>
</tr>
<tr>
<td>Multi-month score:</td>
<td>6 to 9 (dry)</td>
<td>10 to 14 (normal)</td>
<td>15 to 18 (wet)</td>
</tr>
</tbody>
</table>

Other Resources:
- Retrieve daily precipitation data
- View radar-based precipitation estimates
- View weekly precipitation maps
- Evaluating Antecedent Precipitation Conditions (BWSR)

http://climateapps.dnr.state.mn.us/gridded_data/precip/wetland/worksheet.asp?passXutm83=463500...
Precipitation Worksheet Using Gridded Database

Precipitation data for target wetland location:
- county: Hennepin
- township number: 118N
- township name: Plymouth
- range number: 22W
- nearest community: Plymouth
- section number: 16

Aerial photograph or site visit date:
Tuesday, November 9, 1971

Score using 1981-2010 normal period

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>estimated precipitation total for this location:</td>
<td>6.13</td>
<td>3.17</td>
</tr>
<tr>
<td>there is a 30% chance this location will have less than:</td>
<td>1.29</td>
<td>2.21</td>
</tr>
<tr>
<td>there is a 30% chance this location will have more than:</td>
<td>3.37</td>
<td>3.71</td>
</tr>
<tr>
<td>type of month: dry normal wet</td>
<td>wet normal dry</td>
<td>3 * 3 = 9</td>
</tr>
<tr>
<td>monthly score</td>
<td>6 to 9 (dry) 10 to 14 (normal) 15 to 18 (wet)</td>
<td>14 (Normal)</td>
</tr>
</tbody>
</table>

Multi-month score:
- 6 to 9 (dry)
- 10 to 14 (normal)
- 15 to 18 (wet)

Other Resources:
- retrieve daily precipitation data
- view radar-based precipitation estimates
- view weekly precipitation maps
- Evaluating Antecedent Precipitation Conditions (BWSR)
PART ONE: Applicant Information

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

Applicant/Landowner Name: City of Plymouth Parks & Forestry
Mailing Address: 14900 23rd Avenue North, Plymouth, MN 55447
Phone: N/A – see below
E-mail Address: N/A – see below

Authorized Contact: Jerrod Brunelle, Parks & Forestry Manager, City of Plymouth
Mailing Address: 14900 23rd Avenue North, Plymouth, MN 55447
Phone: (763) 509-5946
E-mail Address: jbrunelle@plymouthmn.gov

Agent Name: Nicole Zappetillo, Senior Wetland Scientist, SRF Consulting Group, Inc.
Mailing Address: One Carlson Parkway North, Suite 150, Minneapolis, MN 55447-4443
Phone: (763) 475-0010
E-mail Address: nzappetillo@srfconsulting.com

PART TWO: Site Location Information

County: Hennepin  City/Township: Plymouth
Parcel ID and/or Address: Plymouth Creek Playfield, PID 1611822430001
Legal Description (Section, Township, Range): Sec. 16, T118N, R22W
Lat/Long (decimal degrees): 45.024232 N / -93.464196 W

Attach a map showing the location of the site in relation to local streets, roads, highways. See Figures 1-2 in Appendix A of the Wetland Delineation Report.

Approximate size of site (acres) or if a linear project, length (feet): Approximately 3.8 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

Not applicable.

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 affect aquatic resources (wetland, lake, tributary, etc.) and must also include plans and cross section or profile drawings showing the location, character, and dimensions of all proposed activities and aquatic resource impacts.
PART FOUR: Aquatic Resource Impact\(^1\) 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.

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

\(^2\) Impacts less than 0.01 acre should be reported in square feet. Impacts 0.01 acre or greater should be reported as acres and rounded to the nearest 0.01 acre. Tributary impacts must be reported in linear feet of impact and an area of impact by indicating first the linear feet of impact along the flowline of the stream followed by the area impact in parentheses. For example, a project that impacts 50 feet of a stream that is 5 feet wide would be reported as 50 ft (300 square feet).

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

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

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

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

PART FIVE: Applicant Signature

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

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

Signature: ___________________________ Date: 10-25-19

I hereby authorize Nicole Zappetillo of SRF Consulting Group 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.
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).

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:

**MN Administrative Rules, 8420.0105, Subp.2.D**: This chapter does not regulate impacts to incidental wetlands. "Incidental wetlands" are wetland areas that the landowner can demonstrate, to the satisfaction of the local government unit, were created in nonwetland areas solely by actions, the purpose of which was not to create the wetland. Incidental wetlands include drainage ditches, impoundments, or excavations constructed in nonwetlands solely for the purpose of effluent treatment, containment of waste material, storm water retention or detention, drainage, soil and water conservation practices, and water quality improvements and not as part of a wetland replacement process that may, over time, take on wetland characteristics.

**40 CFR Part 232.2 – 404 Program Definitions; Waters of the United States:**

(2) The following are not “waters of the United States” even where they otherwise meet the terms of paragraphs (1)(iv) through (viii) of this definition.

(iv) The following features:

(E) Water-filled depressions created in dry land incidental to mining or construction activity, including pits excavated for obtaining fill, sand, or gravel that fill with water

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:

A review of historical aerial images indicates that Wetlands 2 and 3 developed in historically upland areas and/or on fill placed during grading for park construction in the 1970’s or 1980’s. Both areas were also disturbed in 2011/2012, when a skating rink was removed and a skate park was constructed. The ground at the Wetland 2 and 3 areas was graded to be relatively flat, particularly at Wetland 3, which is used as a recreational ice rink during the winter months. The City of Plymouth did not intend for these areas to collect water during the growing season or develop wetland characteristics. Construction activity on the site and inadequate drainage throughout the park have resulted in water ponding in these historically upland areas, which has been exacerbated by above average rainfall in summer and fall 2019.

Based on this information, we recommend that Wetland 2 and Wetland 3 be considered incidental / not Waters of the United States.
PART ONE: Applicant Information

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

Applicant/Landowner Name: City of Plymouth Parks & Forestry
Mailing Address: 14900 23rd Avenue North, Plymouth, MN 55447
Phone: N/A – see below
E-mail Address: N/A – see below

Authorized Contact: Jerrod Brunelle, Parks & Forestry Manager, City of Plymouth
Mailing Address: 14900 23rd Avenue North, Plymouth, MN 55447
Phone: (763) 509-5946
E-mail Address: jbrunelle@plymouthmn.gov

Agent Name: Nicole Zappetillo, Senior Wetland Scientist, SRF Consulting Group, Inc.
Mailing Address: One Carlson Parkway North, Suite 150, Minneapolis, MN 55447-4443
Phone: (763) 475-0010
E-mail Address: nzappetillo@srfconsulting.com

PART TWO: Site Location Information

County: Hennepin  City/Township: Plymouth
Parcel ID and/or Address: Plymouth Creek Playfield, PID 1611822430001
Legal Description (Section, Township, Range): Sec. 16, T118N, R22W
Lat/Long (decimal degrees): 45.024232 N / -93.464196 W

Attach a map showing the location of the site in relation to local streets, roads, highways. See Figures 1-2 in Appendix A of the Wetland Delineation Report.

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Minnesota Interagency Water Resource Application Form February 2014  Page 2 of 4
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Regulatory File No. MVP-2019-02736-MMJ

THIS IS NOT A PERMIT

Nicole Zappetillo
SRF Consulting Group, Inc.
One Carlson Parkway North, Suite 150
Minneapolis, MN 55447

Dear Ms. Zappetillo:

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

File Number: MVP-2019-02736-MMJ

Applicant: City of Plymouth Parks & Forestry - Jerrod Brunelle

Project Name: Plymouth Creek Playfield Drainage

Project Location: Section 16 of Township 118 North, Range 22, Hennepin County, Minnesota (Latitude: 45.0241187558263; Longitude: -93.464016059939)

Received Date: 10/25/2019

Project Manager: Melissa Jenny
(651) 290-5363
Melissa.M.Jenny@usace.army.mil

Additional information about the St. Paul District Regulatory Program, including the new Clean Water Rule, can be found on our web site at http://www.mvp.usace.army.mil/missions/regulatory.

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

Thank you.

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