



LOWER MINNESOTA RIVER WATERSHED DISTRICT

Executive Summary for Action

Lower Minnesota River Watershed District Board of Managers Meeting
Wednesday, December 20, 2023

Agenda Item

Item 6. B. Tarnhill Pond (LMRWD No. 2023-029)

Prepared By

Linda Loomis, Administrator

Summary

This project is for maintenance of a stormwater pond in the City of Bloomington. A LMRWD permit is required for this project because it requires a floodplain and drainage alteration permit, even though Bloomington has its Municipal LGU Permit from the LMRWD.

Young Environmental Consulting Group reviewed the application and supporting documentation on behalf of the LMRWD and recommends conditional approval of the permit, contingent upon the receipt of a copy of the Minnesota Department of Natural Resources public waters work permit, name and contact information for all contractors undertaking land-disturbing activities, and the name and contact information for the person(s) responsible for the inspection and maintenance of all erosion and sediment control features.

Attachments

Technical Memorandum – Tarnhill Pond (LMRWD No. 2023-029) dated December 13, 2023

Recommended Action

Motion to conditionally approve a permit for Tarnhill Pond (LMRWD No. 2023-029) contingent upon receipt of the following: a copy of the Minnesota Department of Natural Resources public waters work permit, name and contact information for all contractors undertaking land-disturbing activities, and the name and contact information for the person(s) responsible for the inspection and maintenance of all erosion and sediment control features



Technical Memorandum

To: Linda Loomis, Administrator
Lower Minnesota River Watershed District (LMRWD)

From: Karina Weelborg, Water Resources Scientist
Della Schall Young, PMP, CPESC, CTF, Principal Scientist

Date: December 13, 2023

Re: Tarnhill Pond (LMRWD No. 2023-029)

The City of Bloomington has applied for an individual project permit from the LMRWD to remove sediment from Tarnhill Pond, replace storm sewer pipes, and mitigate pond bank erosion at Tarnhill Pond, a stormwater pond located at 5200 West 102nd Street, Bloomington, MN (Figure 1). The City of Bloomington has provided site plans for the Tarnhill Pond project along with the permit application.

The proposed project consists of removing more than 1,000 cubic yards of sediment from Tarnhill Pond, replacing three storm sewer pipes, and filling eroded areas (Figure 2). The Tarnhill Pond project did not initially include storm sewer pipe replacement or address site erosion. However, after site visits and a petition from the neighboring apartments stating the severity of erosion, the project scope was expanded. Despite efforts to minimize erosion, the areas of concern continue to erode with each rainfall and are close to threatening the integrity of the apartment complex parking lot.

The project would disturb approximately 0.75 acres. The current impervious area on site is 0.04 acres, and the project will not create any new impervious surface. The project is not located within a High Value Resource Area or Steep Slopes Overlay District. Tarnhill Pond is, however, a public water, and LMRWD Rule C – Floodplain and Drainage Alterations requires an Individual Project Permit for any alteration to or filling of land below the 100-year flood elevation of any public water. Therefore, the grading, fill, and pipe replacement at Tarnhill Pond requires a permit review for Rule C. The City of Bloomington proposes to begin work as soon as all permits are received due to the severity of pond erosion.

Summary

Project Name: Tarnhill Pond

Purpose: Sediment removal, pipe replacement, and erosion mitigation

<u>Project Size:</u>	Area Disturbed	Existing Impervious Area	Proposed Impervious Area	Net Increase Impervious Area
	0.75 acres	0.04 acres	0.04 acres	0.0 acres

Location: 5200 West 102nd Street
Bloomington, MN 55437

LMRWD Rules: Rule C – Floodplain and Drainage Alteration

Recommended Board Action: Conditional approval

Discussion

The LMRWD received the following documents for review:

- Tarnhill Pond Construction Plans by City of Bloomington; dated November 2, 2023; received November 14, 2023.
- Tarnhill Ponds MNDNR Permitting and Reporting System (MPARS) application by City of Bloomington; dated November 6, 2023; received November 15, 2023.
- LMRWD Individual Permit Application; received November 16, 2023.
- Deeded Drainage Easement by Tarnhill Apartments Company; received November 16, 2023.
- Petition and Waiver for Installation of Public Improvements and Assessment of the Costs Thereof by Tarnhill Associates, LLP; dated November 3, 2023; received November 16, 2023.
- Project Cut and Fill; received November 20, 2023.
- Standard Specifications for Construction by City of Bloomington; dated March 15, 2023; received November 20, 2023.
- Specifications and Special Provisions by City of Bloomington; dated October 30, 2023; received November 20, 2023.
- Tarnhill Ponds Erosion and Sediment Control Plan by City of Bloomington; dated October 30, 2023; received November 21, 2023.

The application was deemed complete on November 21, 2023, and the documents

received provide the minimum information necessary for permit review.

Rule C – Floodplain and Drainage Alteration

Because Tarnhill Pond is a public water, the project requires a LMRWD Rule C permit even though the project area is not located within a FEMA floodplain. The City submitted detailed cut and fill calculations. The project proposes to remove 1,439 cubic yards of sediment and fill eroded areas with 106 cubic yards of material for a net cut of 1,323 cubic yards. Ground alterations are intended to restore eroded areas to match the surrounding grade. Hydrology and hydraulic modeling and a no-rise certificate were not required because the project will grade to pre-erosion conditions and the project's sediment removal will provide additional storage within the pond.

An erosion and sediment control plan is required for the project to comply with Rule C. The applicant has submitted an acceptable erosion and sediment control plan. Therefore, the project generally complies with Rule C, but contact information for the contractor and person responsible for the inspection and maintenance of all erosion and sediment control features is required before the LMRWD issues a permit.

Recommendations

Based on review of the project, we recommend conditional approval contingent on receipt of the following:

- Copy of approved Minnesota Department of Natural Resources permit.
- Name and contact information for all contractors undertaking land-disturbing activities as part of the proposed project.
- Name and contact information for the person(s) responsible for the inspection and maintenance of all erosion and sediment control features.

Attachments

- Figure 1—Tarnhill Pond Project Location
- Figure 2— Photo of Tarnhill Pond Erosion provided by the City of Bloomington

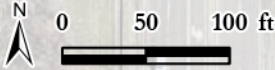


Figure I: Tarnhill Pond Project Location
LMRWD No. 2023-029



Normandale Blvd
34

Tarnhill Pond



Legend

- Project Location
- Proposed Pipe Replacements
- Eroded Areas
- Parcels
- Public Waterbodies

LMRWD Watershed Location Map



Location: Projects \LMRWD\Project Reviews\02 In Process\2023-029 Tarnhill Pond\04 GIS

Figure 2. Photo of Tarnhill Pond Erosion provided by the City of Bloomington

