

Project Update April 13, 2023

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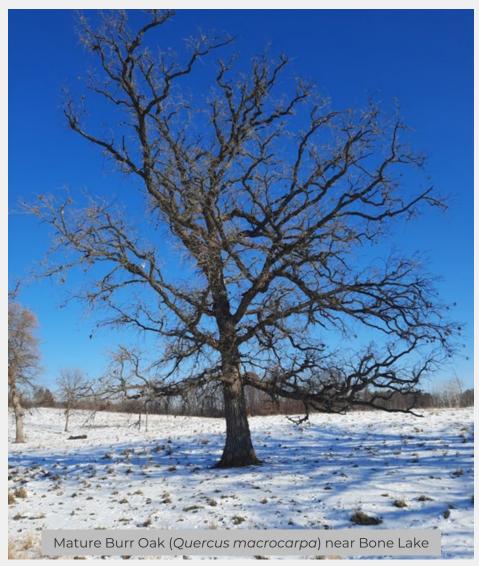


Sunrise River Hwy 61 Wetland Enhancement Project Diversion Wier 03-28-23



Introduction

- These slides are intended as an informational update of progress on the many projects underway throughout the District.
- Similar information will also be presented in this month's Administrator's report.
- If there are any questions regarding this update, please reach out directly to the Administrator and/or staff in advance of the board meeting.





Sunrise River HWY-61 Wetland Enhancement

Formerly known as the "Tax Forfeit Project"

Project:

Wetland enhancement – hydrology restoration and treatment of ditch flow from the Heims Lake / Hwy 35 subwatershed area

Project Phase 4: Implementation

Benefit:

- ~89 lbs/yr phosphorus and 51,740 lbs/yr TSS load reductions at the Sunrise River
- ~65 lbs/yr and 18,600 lbs/yr TSS reductions at Comfort Lake
- + wildlife habitat and ecological benefits

Lifetime cost per pound phosphorus reduction:

\$618/Ib.TP/yr

<u>Status:</u>

Construction began 01-30-23. The Winter phase of the project - excavation and weir construction - was completed on 3-09-23.

The northern ditch connection, revegetation, and full site restoration will be completed this spring.

A Chisago County Petition Project





Excavated wetland filling with spring melt 03-28-23



Site Restoration mulching in progress, 03-28-23.

Comfort Lake-Forest Lake Watershed District | Project Update



County Road-50 Iron Enhanced Sand Filter (CR50 IESF)



Project:

Iron Enhanced Sand Filter in the Washington Judicial Ditch 6 Subwatershed of Forest Lake

Project Phase 4:

Implementation

Benefit:

Est. 97 lbs/yr phosphorus load reduction

Lifetime cost per pound phosphorus reduction:

~\$514/Ib.TP/yr

<u>Status:</u>

Fall implementation completed on Nov 17. Several valves were installed mid-February. Pump installation and electrical connections will occur this spring with the project coming online in May.

Comfort Lake-Forest Lake Watershed District | Project Update







Moody Lake Capstone Projects



<u>Project:</u>

several small wetland enhancements, legacy load removal, and agriculture best management practice (BMP)

Project Phase 3: Design

Benefit: 62lbs/yr phosphorus reduction

Lifetime cost per pound phosphorus reduction:

\$400/lbs.TP/yr

<u>Status:</u>

The project was ordered at the 03-09-23 board meeting and is now in the Design Phase (3).

Permission from Chisago Lake Township to implement projects at Moody Park and the Moody Round Barn has been acquired. Continued outreach with Landowners and mortgage companies on the other project properties.



Legacy Load Removal Area





WJD6 Western Tributary Wetland Enhancement



Project:

Wetland enhancement / connectivity, hydrology restoration

Project Phase 2:

Feasibility

Benefit:

~20 lbs/yr phosphorus reduction

Lifetime cost per pound phosphorus reduction:

\$1,043

<u>Status:</u>

Continued landowner outreach. Coordination with mortgage company regarding project easement. The project was ordered at the 02-23-23 Board meeting.





Little Comfort Lake Subwatershed Enhancement

"East Wetland Gravel Pit" Project



Project:

Wetland enhancement / infiltration basin

Project Phase 2:

Feasibility

Benefit:

+80 lbs/yr phosphorus reduction

Lifetime cost per pound phosphorus reduction:

TBD

<u>Status:</u>

Continued outreach with landowner regarding this parcel, the adjacent parcel, project access, and related project elements. ESA review completed Dec 2022. EOR working on preliminary design and the feasibility report. Discussion with the landowner on March 20th regarding property acquisition.



Images from the gravel pit





Little Comfort Lake Subwatershed Enhancement

"School/Little Comfort Channel" Project

Project:

Stream and Wetland enhancement - hydrology restoration

Project Phase 2:

Feasibility

Benefit:

~60 lbs/yr phosphorus reduction, nitrogen reductions, wildlife habitat and ecological benefits

Lifetime cost per pound phosphorus reduction:

\$TBD

<u>Status:</u>

Inter –Fluve assessment report received 9-28-22. No restoration actions identified. Additional investigation by EOR and Staff to occur this spring.





