



Project Update

March 9, 2023

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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.



Mature Burr Oak (*Quercus macrocarpa*) near Bone Lake



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 area

Project Phase 4:

Implementation

Benefit:

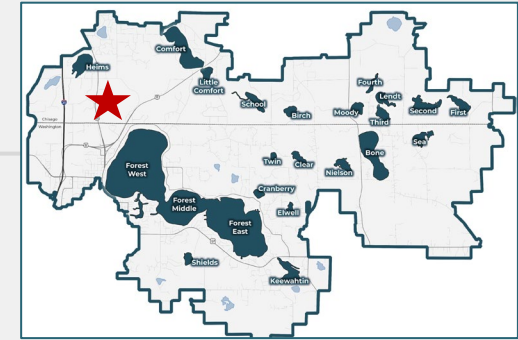
~89 lbs/yr phosphorus load reduction at the Sunrise River, 65 lbs/yr at Comfort Lake, wildlife habitat and ecological benefits

Lifetime cost per pound phosphorus reduction:

\$618/lb.TP/yr

Status:

Construction began 01-30-23. Excavation was completed on 02-21-23. Weir construction and grading should be completed by 03-03-23. This will signify completion of the winter phase of this project. The northern ditch connection, revegetation, and site restoration will be completed this spring.



**A Chisago County
Petition Project**



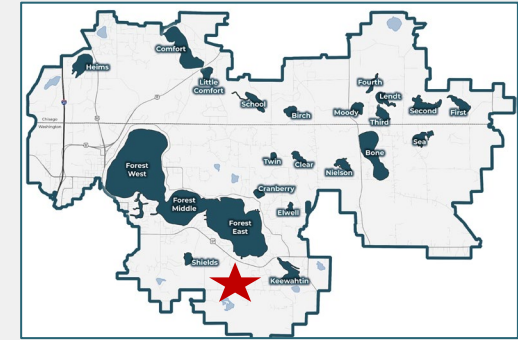
Wetland excavation progress 02/21/23



Up to four feet of soil was removed in places.



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/lb.TP/yr

Status:

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.



Completed Iron Sand Filter Basins



Ditch intake pool



Moody Lake Capstone Projects

Project:

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

Project Phase 2:

Feasibility

Benefit:

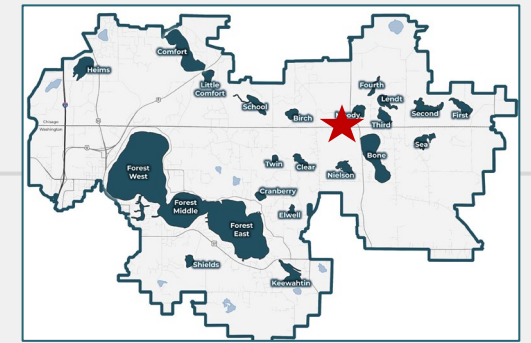
+45 lbs/yr phosphorus reduction

Lifetime cost per pound phosphorus reduction:

\$TBD

Status:

Permission from Chisago Lake Township to implement projects at Moody Park and the Moody Round Barn have been acquired. Continued outreach with Landowners and mortgage companies on the other project properties. EOR will present the feasibility report at the 03-09-23 Board meeting.



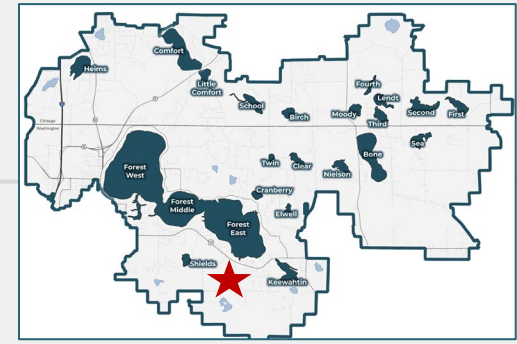
Legacy Load Removal Area



Moody Park Project 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

Status:

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

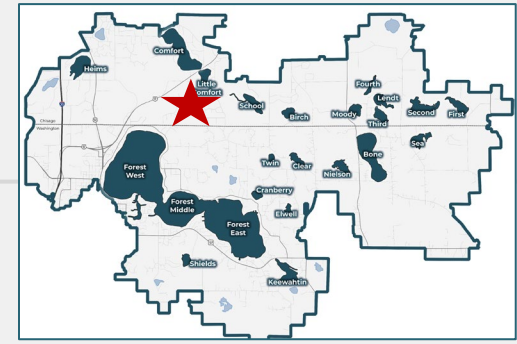


Project rendering



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

Status:

Appraisal of the gravel pit parcel received September 16. 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.



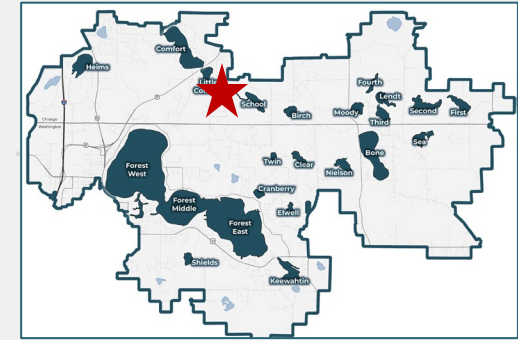
Images from the gravel pit





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

Status:

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



Inter-Fluve Survey



Drone Imagery