



Project Update

October 12, 2023

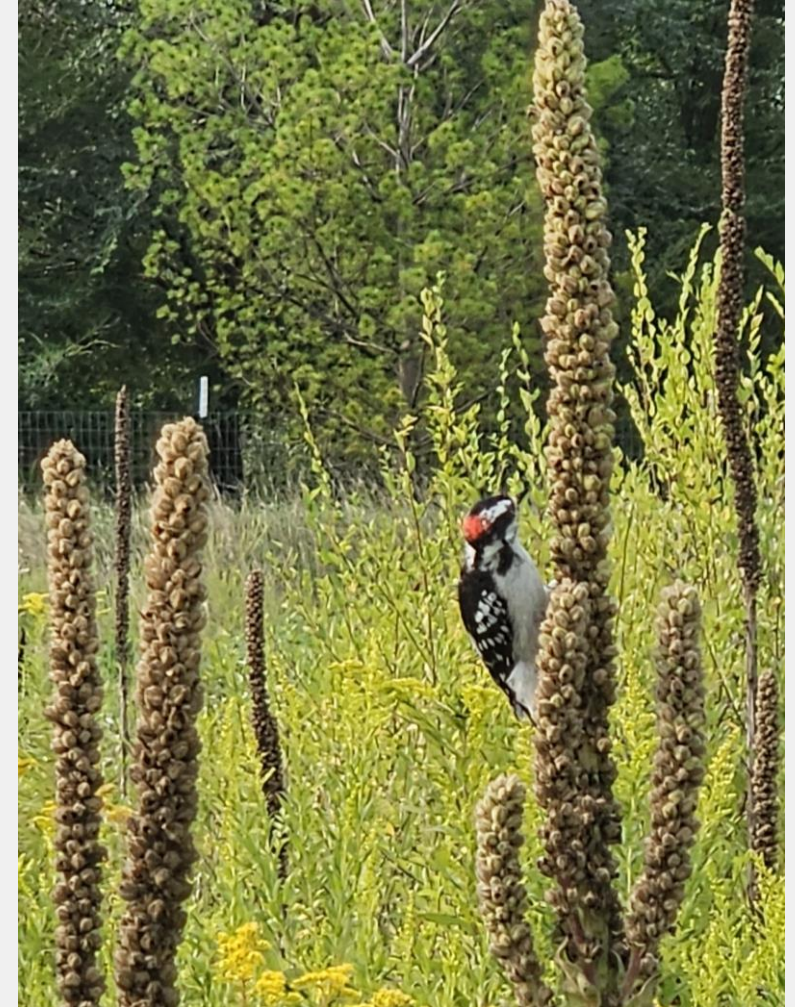
Blayne Eineichner, Project Coordinator





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.





Forest Lake Alum Treatment

Project:

Internal phosphorus loading reduction by the addition of Aluminum Sulfate to Forest Lake's middle basin

Project Phase 4: Implementation

Benefit:

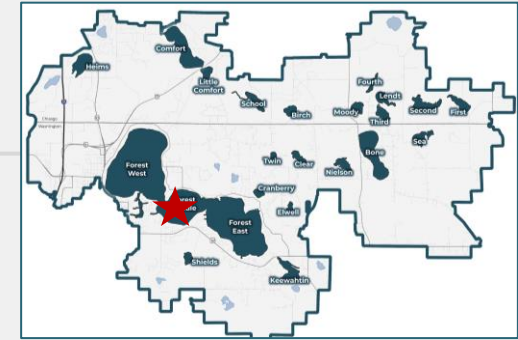
~527 lbs/yr internal phosphorus reduction for Forest Lake. Though applied only to the middle basin, the Alum treatment will improve water quality in all three basins.

Lifetime cost per pound phosphorus reduction:

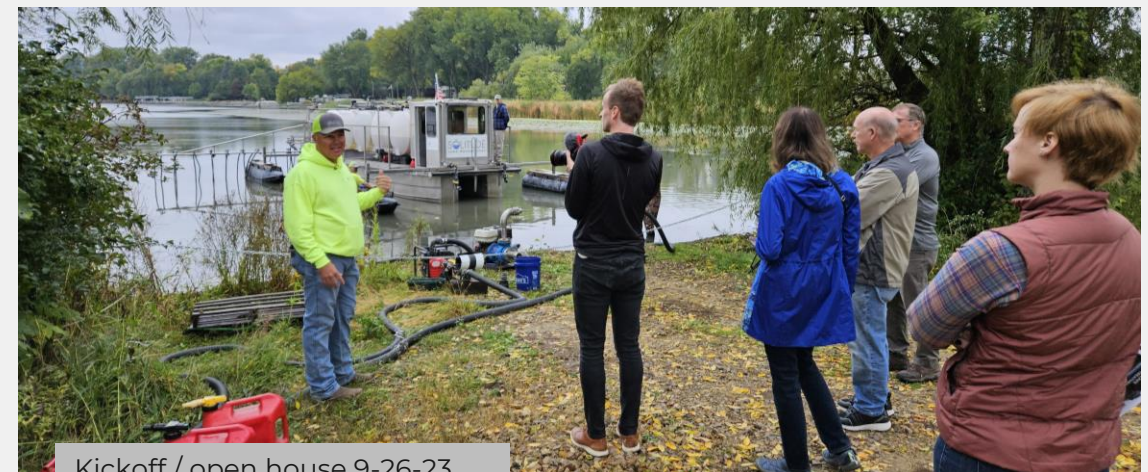
\$100/lb.TP/yr

Status:

Project implemented during the week of September 25. Approximately 38,000 gallons of Alum and ~18,000 gallons of pH buffer added over 4 days.



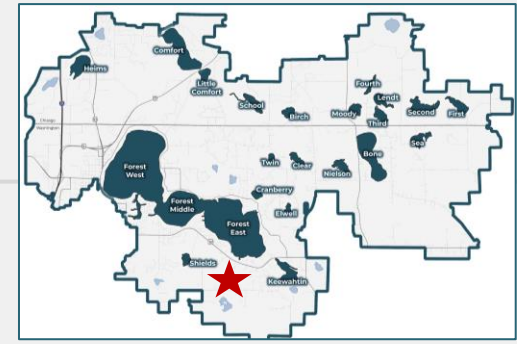
Alum application 9-28-23



Kickoff / open house 9-26-23



WJD6 Western Tributary Wetland Enhancement



Project:

Wetland enhancement / connectivity, hydrology restoration

Project Phase 4:

Implementation

Benefit:

~20 lbs/yr phosphorus reduction

~3,200 lbs/yr TSS reduction

Lifetime cost per pound phosphorus reduction:

\$1,043

Status:

Project Awarded at the Sept 28th board meeting to Peterson Companies, Inc (PCO). Contracting underway



View of wetland from Hwy 97



Moody Lake Capstone Projects

Project:

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

Project Phase 3: Design

Benefit: 62lbs/yr phosphorus reduction

~9,000 lbs/yr TSS reduction with Ag BMP's

Lifetime cost per pound phosphorus reduction:

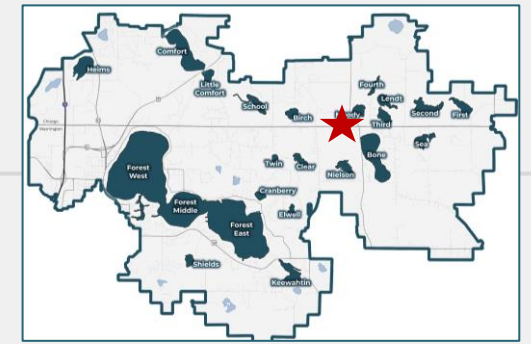
\$400/lbs.TP/yr

Status:

Project out to bid mid September.

Pre-bid tour September 27, 5 contractors attended.

Bid opening October 3



Legacy Load Removal Area

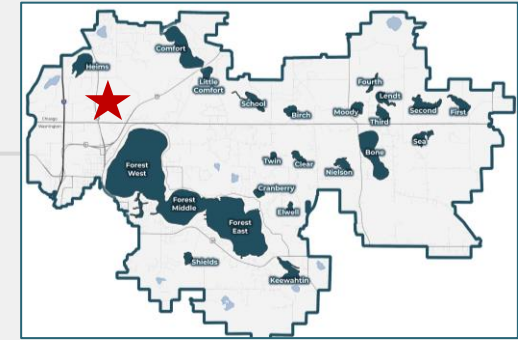


Moody Park and Round Barn Project Area



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/lb.TP/yr

Status:

Waiting on closeout documents from PCO.

Project celebration Tour August 30th

Clean Water Council Tour Sept 19th.

Comfort Lake-Forest Lake Watershed District | **Project Update**

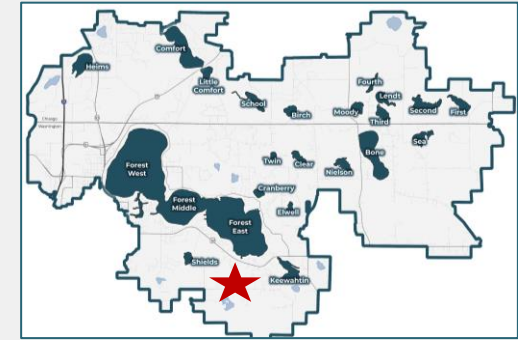


Project completion celebration 8-30-23

**A Chisago County
Petition Project**



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

Est. 3,000 lbs/yr TSS reduction to Forest Lake

Lifetime cost per pound phosphorus reduction:

~\$514/lb.TP/yr

Status:

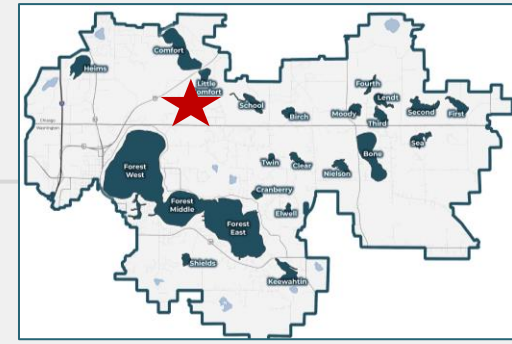
The project is fully operational. System calibration and fine tuning will be ongoing for the first year of operation. Dry conditions have limited the operation of the system. Project close out waiting on closeout documents and a few remaining punch list items.



Project completion celebration 8-30-23



Little Comfort Lake Subwatershed Enhancement



Project:

Wetland stormwater outflow treatment

Project Phase 2:

Feasibility

Benefit:

TBD

Lifetime cost per pound phosphorus reduction:

TBD

Status:

Feasibility phase pivoting to alternative projects. Landowner outreach, project conceptualization, and phosphorus reduction modeling/estimates underway.

