

Projects Update



12-15-22

CR50 IESF Implementation
11-10-22



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

- These slides are intended as an informational update of progress on the many projects underway throughout the District.
- Similar information is also 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.

County RD 50 IESF



Benefit: Est. 87 lbs/yr phosphorus reduction

Project Phase 4: Implementation

Lifetime cost per pound phosphorus reduction: ~\$540

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

Status: Fall implementation began October 26 and was completed on Nov 17. Pump installation and electrical connections will occur this spring with the project coming online in May.



Completed Iron Sand Filter Basins.



Sand filter inlet structure.

Sunrise River Highway 61 Wetland Enhancement “Tax Forfeit Property”

Project: wetland enhancement – hydrology restoration and treatment of Heims Lake drainage flows

Project Phase 4: Implementation

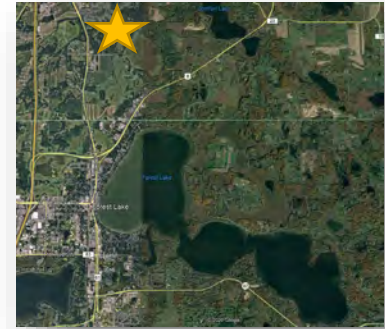
Benefit: ~81 lbs/yr phosphorus load reduction, wildlife habitat and ecological benefits

Lifetime cost per pound phosphorus reduction: \$482 – 660/lb.TP/yr

Status:

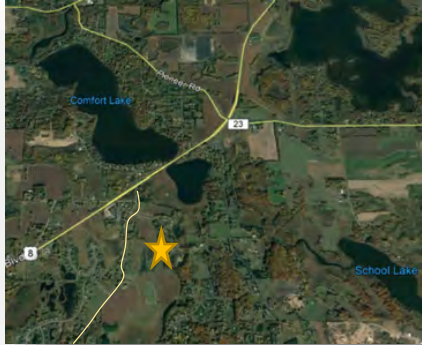
Project will be implemented this winter after the wetland is sufficiently frozen to support machinery (typically late January through February). Some initial site prep completed. Lower St Croix grant to help support the project has been secured. Project notification/outreach letters sent to nearby residents on Dec 2.

Chisago County Petition Project



Site prep – vegetation cleared to help drive frost.
All bails have been removed.

Little Comfort Lake Subwatershed Enhancement “East Wetland” Project



Project: Wetland enhancement – hydrology restoration

Project Phase 2: Feasibility

Benefit: Est. 80 lbs/yr phosphorus reduction, wildlife habitat and ecological benefits.

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.



Images from the gravel pit



Little Comfort Lake Subwatershed Enhancement “School / Little Comfort Channel” Project



Project Phase 2: Feasibility

Lifetime cost per pound phosphorus reduction: TBD



Project: Stream and Wetland enhancement – hydrology restoration

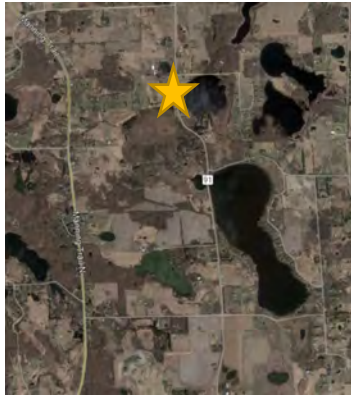
Inter-Fluve survey ↑ and drone imagery ↓

Benefit: Est. 60 lbs/yr phosphorus reduction, nitrogen reductions, wildlife habitat and ecological benefits

Status: Inter –Fluve assessment report received 9-28-22. No restoration actions identified. Additional investigation and water quality data review underway.



Moody Capstone Projects



Step Pools Wetland Area



Legacy Load Removal Area

Benefit: Est. 45 lbs/yr phosphorus reduction

Project Phase 2: Feasibility

Lifetime cost per pound phosphorus reduction: TBD

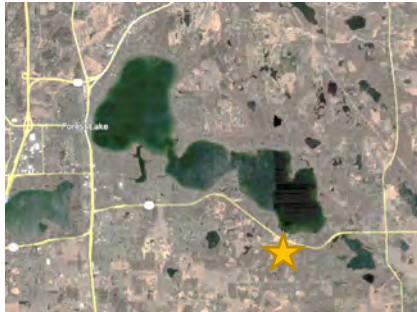


Moody Park Project Area

Project: several small wetland enhancements, legacy load removal, and agriculture BMP

Status: Continued landowner outreach. Topographic surveys completed. Design concepts in development. Staff to present Moody Park concepts to the Chisago Lake Township on Jan 17.

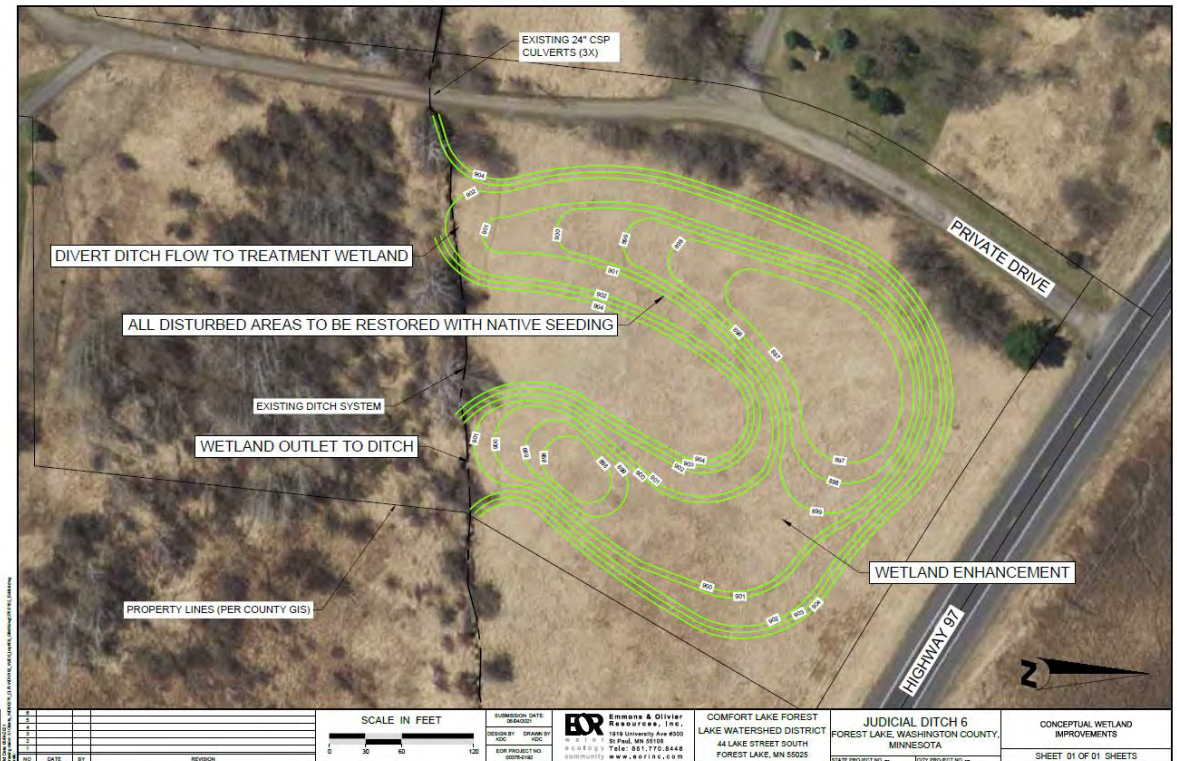
WJD6 Western Tributary Wetland Enhancement Project



Benefit: Est. 38 lbs/yr phosphorus reduction

Project Phase 2: Feasibility

Lifetime cost per pound phosphorus reduction: ~\$510



Project: Wetland enhancement / connectivity, hydrology restoration

Status: Continued landowner outreach. Wetland delineation completed and approved by the WCA (Wetland Conservation Act) authority.