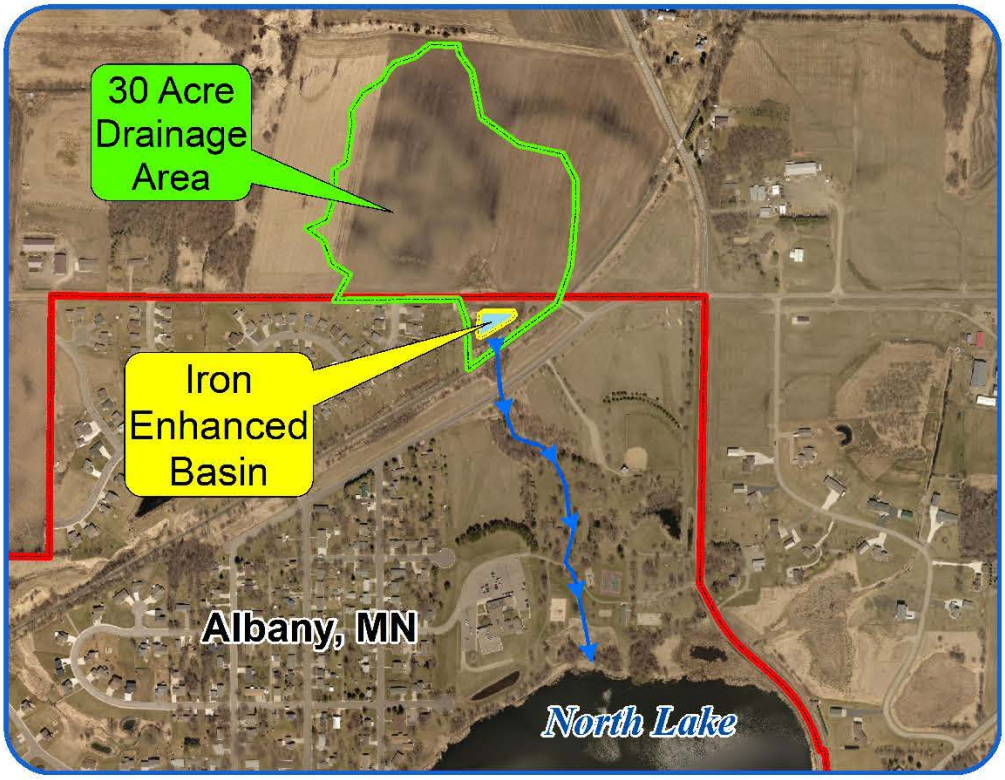
City of Albany

Wet Sedimentation Basin with an Iron-Enhanced Sand Filter



Project Description: This wet sedimentation basin is built with an iron-enhanced sand filter bench and treats approximately 30-acres of agricultural drainage. This basin intercepts the agricultural drainage and allows the suspended sediment to settle out. Also, before the drainage water leaves the basin, the water flows through the iron-enhanced sand filter. The iron filings mixed into the sand removes the dissolved phosphorus within the water before it gets released downstream and into North Lake.

Pollution Reduction Estimates:

Total Phosphorus: 14.17 Lbs/Yr

Total Suspended Solids: 5,647 Lbs/Yr

Stearns County Soil and Water Conservation District
110 2nd Street South, Waite Park, MN 56387
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www.stearnscountyswcd.net

Practice:
Project Type

Target Waters:
North Lake and Two Rivers River

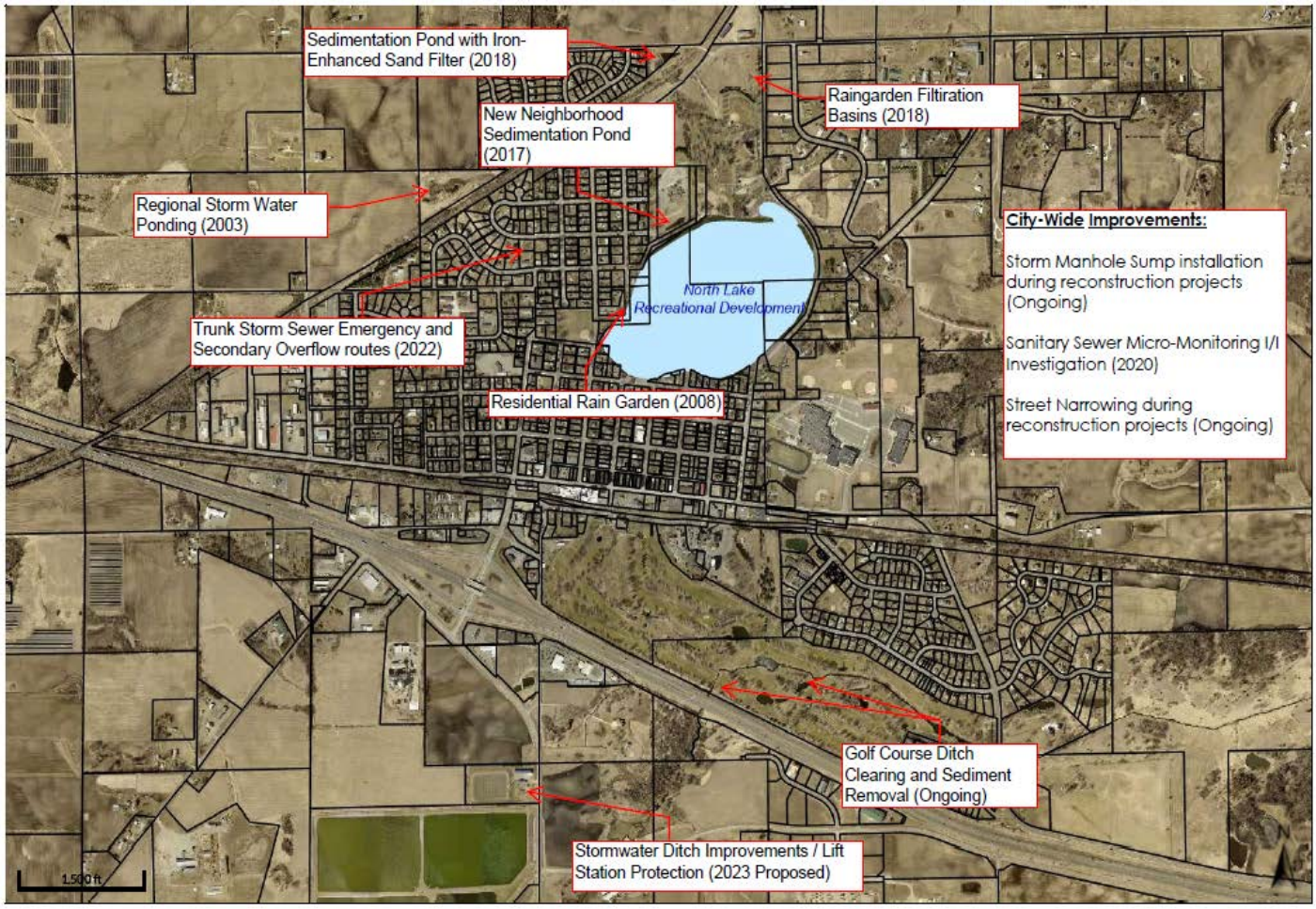
Year Constructed:
2018

Components:
- Wet Pond
- Iron Enhanced Sand Filter
- Native Vegetation
- Pollinator Habitat

Benefits:
- Increased Water Storage
- Provides Sediment Removal
- Removes Dissolved Phosphorus
- Slows Runoff
- Provides Pollinator Habitat

Partners:
- City of Albany
- Stearns County SWCD
- Board of Water and Soil Resources

Watershed:
Platte-Spunk



Albany Storm Water Improvement Projects (2003 – 2023)

- Over 660 Acres drains through Albany's North Lake & entire Albany watershed drains through the golf course.
- Over $500,000 spent since 2003 on water quality or flood related improvements.
- In 2015 Albany Implements the storm water Utility fee to help fund flooding and water management projects.