Project Profile

Linwood & Martin Lakes Enhanced Street Sweeping 2023-25

Linwood, MN

Street Sweeping

Project Summary

In 2023-2025 Linwood Township is doing enhanced street sweeping around Martin and Linwood Lakes. This follows a enhanced sweeping study completed by ACD in 2022. The study found substantial increases in phosphorus in prevented from entering the lakes and cost effectiveness if sweeping frequency was increased from 1x to 4x per year, timing was changed, and certain roads not draining directly to the lakes were dropped from the sweeping route. Overall, the planned curb miles swept increased 2.3x and phosphorus recovery increased 4x. Actual sweeping was somewhat lesser due to weather conditions and actual results are in the table below.

ACD secured grant funding from the Lower St. Croix Partnership to partially reimburse Linwood Township for the increased sweeping cost. Curb miles swept increased from 9.1 to 21.2 (12.1 curb-mi increase). Phosphorus recovery increased

Catch basin draining to Martin Lake (in background)

Planned Project Specs

Implementation Dates 2023-2025
Roadway length.....21.2 curb/mi /yr
Phosphorus reduction .... 29.9 lbs/yr

Actual Project Specs

Implementation Dates 2023-2025
Roadway length ..29.3 curb/mi total
Phosphorus reduction... 14.96 lbs/yr
At Linwood Lake .....3.7 lbs/yr
At Martin Lake.....11.22 lbs/yr

Implementation Cost

Sweeping Fees $20,645

Implementation Funding

LSC* WBIF Grant $2,828
Township.....$17,817

*LCS = Lower St. Croix Partnership

Location