



Request for Board Action

Attachment 6.2

Agenda Item: City of Fridley Buchanan Street Hydrodynamic Separator

Presenter: Emmy Baskerville-Doeckel

Meeting Date: 12 March 2024

Flexibility: ☐ Yes ☒ No

Estimated Time: ☐ Consent Agenda ☒ 10 Min. ☐ 15 Min. ☐ 30 Min. ☐ 45 Min. ☐ 1 Hour

Action Request: ☐ Information/Review ☒ Motion to approve ☐ Budget Change ☐ Other

Board Action: ☐ Approved ☐ Denied ☐ Tabled ☐ Accepted Report ☐ Other

Date of Action: 12 March 2024

Background

The City of Fridley (City) submitted a Capital Project Grant application for the installation of a Hydrodynamic Separator (HDS) within a residential neighborhood at the intersection of Buchanan Street NE, Lincoln Street NE, and 52nd Avenue NE. The purpose of the HDS would be to reduce pollutants reaching Sullivan Lake, which is on the State Impaired Waters list for nutrients, and discharges into the Mississippi River.

The proposed project was identified and analyzed in the 2019 Anoka Conservation District / MWMO report: “*Highland and Sullivan Lakes Stormwater Retrofit Analysis*” (Report). The 2019 Report identified and analyzed many potential Best Management Practices (BMPs), ranging from large regional ponds, iron-enhanced sand filters, small street-side bioinfiltration and biofiltration basins, and HDSs. They were each assessed for their costs and their effectiveness to improve water quality to Highland and Sullivan Lakes. The Buchanan HDS will treat a 16.2-acre drainage area and is estimated to remove 1.0 pounds per year of Total Phosphorus (TP) and 366 pounds per year of TSS from the stormwater before entering Sullivan Lake, which discharges to the Mississippi River.

Within the 2019 Retrofit Report, the BMPs were ranked for effectiveness by calculating the cost per pound of TP removed and the cost per 1,000 pounds of TSS removed. Considering the most recent cost estimate provided by the City, the Buchanan HDS is the highest-ranked HDS out of a total of 18 identified in the study in terms of cost-effectiveness for both TSS and TP removal.

MWMO staff is requesting approval not-to-exceed \$64,000 in Capital Project Grant funding for construction of the Hydrodynamic Separator at Buchanan Street NE to support water quality improvement (nutrient and sediment reduction) efforts for Sullivan Lake and the Mississippi River.

Mississippi Watershed Management Organization

RESOLUTION 2024-009

A RESOLUTION APPROVING FUNDING FOR THE INSTALLATION OF A HYDRODYNAMIC SEPARATOR SUPPORTING WATER QUALITY IMPROVEMENTS TO SULLIVAN LAKE IN THE CITY OF FRIDLEY

- WHEREAS, The MWMO's 10-Year Plan has established a goal to protect and improve water quality within its jurisdiction through planning and implementation of stormwater best management practices; and
- WHEREAS, The MWMO Board of Commissioners created the Capital Project Grants Program to support larger-scale stormwater management projects that protect or improve water quality and habitat within the MWMO watershed; and
- WHEREAS, A Capital Project Grant application was submitted, which meets the guidance of the Capital Project fund; and
- WHEREAS, Staff have reviewed the application and cost estimate and have determined it is a realistic cost for the project; and
- WHEREAS, The MWMO has funds available in the Capital Project fund to cover the cost of the proposed work; and
- WHEREAS, Staff recommends the Board of Commissioners approve \$48,000 in funding for the installation of a hydrodynamic separator to treat 16.2 acres of runoff flowing to Sullivan Lake and the Mississippi River.

NOW THEREFORE BE IT RESOLVED, the MWMO Board of Commissioners approves up to \$64,000 for the installation of a Hydrodynamic Separator at the intersection of Buchanan Street NE, Lincoln Street NE, and 52nd Avenue NE in Fridley, and authorizes MWMO staff to take all necessary administrative actions to implement the resolution.

Adopted this the 12th day of March, 2024.

Review for the Board: _____

Randy Stille, Chair

Review for Administration: _____

Kevin Reich, Executive Director