



Council Agenda Item

Meeting Date: October 17, 2023

Agenda Item: Staff Report Leaf Management

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BACKGROUND

(Enter the who, what when, where, why)

The City is issued a Municipal Separate Storm Sewer System (MS4) Permit by the DNR. There are requirements for Total Suspended Solids and Total Phosphorus removal from storm water before it enters waters of the State, namely Whitewater Creek, Trippe Lake and Cravath Lake. The City is required to have a reduction in Phosphorus of 66%. Currently we are at 40.2%.

How does bagging leaves in the fall help the City meets its Phosphorus requirement? By bagging leaves and collecting them one week in October and two weeks in November, the City is able to count the calculated phosphorus reduction towards our requirement. The calculated phosphorus removal was completed by Strand Associates using the DNR model for reduction. Below is a cost comparison of the credits we receive for the leaf management practice versus other management practices.

<u>Practice</u>	<u>Removal Amounts</u>	<u>Cost</u>
Leaf Management	3.4%/47 pounds	\$45,000
New Street Sweeper	2.0%/31 pounds	\$284,299
Underground Wet Detention Basin	1.1%/17 pounds	\$910,000