

Capital Improvement Plan

City of Shakopee, Minnesota

2022 *thru* 2026

Project # Equip-22-422
Project Name Public Works Street: Brine Maker

Type Equipment Department Equipment Internal Serv. Fund
Useful Life 10 Contact Public Works Superintendent
Category Public Works Priority 2 Important-Provide Efficiencies/
Accounting Code 7800.1740 100042
Fund Capital Equipment Internal Serv
Status Active



Description Total Project Cost: \$78,000

Purchase new brine maker, filling station, and bulk tank for storage. Will be ssed for winter roadway pre-treatment and anti-icing operations.

Justification

Reduces the amount of chloride in ice control and snow removal operations.

"Pretreating the driving surface with brine before a storm keeps it free of bonded ice, which is safer and more cost-effective than trying to remove bonded ice/hard pack after it has formed. Preventive anti-icing utilizes as little as one-fourth of the material and one-tenth of the overall cost (labor, equipment and material) of traditional deicing...Regular seasonal use of salt brine can decrease overall salt consumption up to 30%. According to the Michigan DOT's 2012 Bounce and Scatter study, pre-wetting keeps 30% more salt on the intended surface." (Henderson Products)

Expenditures	2022	2023	2024	2025	2026	Total
Equip/Vehicles/Furnishings	78,000					78,000
Total	78,000					78,000

Funding Sources	2022	2023	2024	2025	2026	Total
Equipment Internal Service Fund	78,000					78,000
Total	78,000					78,000

Budget Impact/Other