

City of Greater Sudbury Operations Committee Presentation

Water / Wastewater Capital Projects Overview 2019

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Introduction

Prioritization and Selection of the 2019 Water / Wastewater Capital projects



Guiding Principles

Council's Strategic Priorities: Sustainable Infrastructure ,
Quality of Life and Place & Growth and Development



The City of Greater Sudbury's Growth & Infrastructure Department is committed to providing its community with safe, reliable and environmentally responsible municipal water and wastewater services, through a sustainable, cost effective approach.

Information Sources & Planning Tools

Water / Wastewater Capital Budget includes facilities, linear and strategic funding:

- ▶ Regulatory Requirements
- ▶ Drinking Water Quality Management System Risk Assessment
- ▶ WWW Master Plan
- ▶ WWW Asset Management Plan
- ▶ Operational Priorities & Condition Assessments
- ▶ Coordination with internal & external stakeholders (ie. roads project planning, cost sharing proposals)

Prioritization

Projects are prioritized based on several risk based parameters, including:

- ▶ Regulatory Compliance
- ▶ Health & Safety
- ▶ Operational Risk Impact
- ▶ Master Plan / Asset Management Plan Compatibility
- ▶ Cost Reduction Potential
- ▶ CGS Strategic Alignment
- ▶ Coordination with and impact on Internal / External Stakeholders
- ▶ Project Feasibility

Wastewater Treatment Facility Capital Projects

- ▶ Sudbury Wastewater Treatment Plant Upgrades
- ▶ Levesque Lift Station Upgrades
- ▶ Nickel Lift Station & Forcemain Upgrades
- ▶ St. Charles Lift Station & Forcemain Replacement



Water Treatment Facility Capital Projects

- ▶ Wanapitei Water Treatment Plant Upgrades
- ▶ Valley Wells Buildings Upgrades
- ▶ Well Process Upgrades
- ▶ Garson Wells Upgrades



Water / Wastewater Challenges: Aging Linear Infrastructure



Larch Street Watermain Break
December 25, 2018



Water & Wastewater Linear Capital Projects

Coordination with Major Roads Projects

- ▶ MR35
- ▶ Maley Drive (Barrydowne to Falconbridge)
- ▶ Dean Avenue (Lorne to Landsend) & Jane Street (Dean to Logan)
- ▶ St. Brendan Street (Homewood to Marion) & St. Nicholas Street (road repairs)
- ▶ O'Neil Drive East , Garson (Penman to Margaret South)

Water & Sewer with Bridges / Culverts

- ▶ Junction Creek Bridge at Douglas & Brady
- ▶ Allan Street Bridge (Coniston)

Water & Wastewater Linear

Water & Sewer Condition Based Priorities (includes roadwork as required)

- ▶ Tudor Court (Windsor to end)
- ▶ Fairburn Street (Barrydowne to East End)
- ▶ Ash Street, Lively (Maple to South End)
- ▶ Henry Street, Garson (MacDougall to East end)

Future Water & Wastewater Linear

Coordination with Major Roads Projects

- ▶ Barry Downe Road (Kingsway to Westmount)
- ▶ Lorne Street (Power to Elm)

Water & Sewer with Bridges / Culverts

- ▶ Vermilion River Bridge

Future Water & Wastewater Linear

W/WW Master Plan Recommendations

- ▶ Lively Sanitary Sewer Upgrades, Phase II
- ▶ Wanapitei Alternate Trunk Watermain

Cost Sharing Policy

- ▶ Coniston Industrial Park Watermain

Future Water & Wastewater Linear

Water & Sewer Condition Based Priorities

- ▶ Gatchell Outfall Sewer
(at Junction Creek & Kelly Lake Road)
- ▶ MR24 Lively Trunk Watermain Rehabilitation
(watermain adjacent to road)
- ▶ MR80 Trunk Watermain - Valve Replacement

Thank You!