



The Corporation of the Municipality of Tweed Staff Report

Date: April 22, 2025 Council Meeting
Report to: Council
Report from: Manager of Public Works
Department: Public Works
Title: 2024 Asset Study Reports Summary

PURPOSE:

To provide an update to the completed studies concerning roads, water infrastructure, and wastewater systems within the Municipality. This update will highlight key findings, progress to date, and the next steps needed to support our long-term urban development, sustainability goals, and growth management strategies.

Meets Requirements of Table 4 Asset Management Planning – of O. Reg 588/17

BACKGROUND:

Roads Need Study:

The Greer Galloway Group was retained by the Municipality of Tweed to complete a roads inventory and condition assessment. The study will assist the Municipality of Tweed in identifying the physical and financial needs with respect to the road network and recommend improvements for a 10-year period.

The Municipal Road System consists of approximately 411 kilometers of roads, built and maintained for the purpose of moving traffic, people, goods and services throughout the Municipality. Of these 411 kilometers of road; 36 kilometres are paved, 122 kilometers are surface treated, and 253 kilometres are gravel.

In 2019 our overall PCI for roads were 74.45 with a 10-year investment of \$21,430,000.00 needed to maintain current service levels.

In 2024 our overall PCI for roads were 77.80 with a 10-year investment of \$41,857,000.00 needed to maintain current service levels.

Highest Priority Roads:

Please note that these are reconstruction costs for the road surface only.

George St, Jane St E, Quinn's Lane, Brooklyn Road, Sexsmith Road at a projected cost of \$499,000.00.

Resurface -

Sections of Flinton Rd, Sulphide Rd, Queensborough Rd and Marlbank Rd at a projected cost of \$1,209,000.00.

Total recommended investment this year of \$6,192,000.00 to maintain current service levels.

Water & Wastewater

This report provides a summary of key studies completed related to water and wastewater infrastructure assets. The objective of these studies was to assess the current condition, capacity, risks, and future needs of the systems to inform asset management planning, capital investment strategies, and regulatory compliance.

Conclusions of Water Asset Study:

- The Municipality has approximately 15.58km km of linear wastewater infrastructure, 97 fire hydrants, 1 elevated storage tower, 1 treatment facility, and 2 source wells.
- 52% of watermain is PVC while the remaining 48% is typically cast iron. Of the linear watermain works, 43% is rated "fair" condition, 49% are reported as "good" and 8% reported as unknown.
- Of the 97 hydrants, 32 are in "poor" condition, 53 are reported to be in "fair" condition, and 12 are reported to be in "good" condition.
- The elevated water storage facility is reported to be in "fair" condition.
- The water treatment facility is reported to be in "good" condition with treatment equipment varying from "fair" to "good" condition. Are plan is to update some of this equipment this year.
- Source well #1 is reported to be in "fair" condition with associated appurtenances to be in "good" condition. Source well #3 and its associated appurtenances are both reported to be in good condition. Well #4 will replace Well #1 in 2025.

Conclusions of Wastewater Asset Study:

- The Municipality has approximately 14.7km of linear wastewater infrastructure, 2 pumping stations, and 3 wastewater treatment lagoon cells, two of which contain aerator systems.
- Of the collection system, 58% of collection piping are PVC material and the remaining 42% are asbestos cement material.
- Of the collection system, 4.5% of the sections are reported to be in "poor" condition, 39.8% are reported to be in "fair" condition, and 55.7% of the sections are reported to be in "good" condition, with asbestos cement piping most commonly falling in the "fair" to "poor" categories.
- The pumping stations, submersible pumps, and force main were all constructed in 1975 and have been reported to be in "good" condition.
- The two original wastewater treatment lagoons, constructed in 1975 have been reported to be in "fair" condition. The 3rd newly constructed in 2022 is reported to be in "good" condition.

OPTIONS:

The recent Roads Needs Study presents an opportunity to strategically invest in our road network. While the findings highlight that the current condition exceeds our available budget, this creates a chance to evaluate and prioritize our service levels—ensuring we focus resources where they'll have the greatest long-term impact for our community.

FINANCIAL IMPLICATIONS:

N/A

IMPACT:

The Roads Needs Study has identified a significant gap between the current condition and required investment levels to maintain the municipality's road network at desired service standards. The total cost of recommended improvements exceeds current and future budget allocations, highlighting a need for strategic prioritization and long-term planning. Without additional investment, road conditions are expected to decline, leading to increased repair costs, reduced service life, and potential safety concerns over time. This may also impact economic development, emergency response times, and community satisfaction. The study provides a data-driven foundation for informed decision-making. It offers the municipality an opportunity to evaluate and redefine acceptable levels of service.

RECOMMENDATION:

BE IT RESOLVED THAT Council accept the 2024 Asset Study Report Summary as presented.