

Meeting Date:	May 22, 2024
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Report No:	PWE 23-2024
Subject:	Streetlight Inventory and Assessment

# **Recommendation:**

THAT Council Report PWE 23-2024 re: Streetlight Inventory and Assessment be received for information.

## Purpose:

The purpose of this report and the attached Streetlight Inventory and Assessment report is to provide residents, staff, and Council an understanding of the Municipality's current streetlight assets and any associated maintenance or capital improvement recommendations.

# Background:

As part of the 2023 operating budget, Council approved funding for the undertaking of a streetlight assessment and inventory.

#### Analysis:

The Municipality has 1,453 individual streetlights of those 1,159 (79.7%) are located on municipal streetlight poles, 281 (19.34%) are located on Hydro One poles, and the remainder 13 (0.89%) are located on traffic signal poles. There are also 336 streetlights located in unassumed subdivisions, as these subdivisions are assumed these assets will be added to the municipalities inventory and require additional maintenance and operational activities. This represents a significant number of municipal assets that have not historically been assessed for capital or maintenance needs. Streetlight assets have typically been maintained in a reactive manner, relying on residents or staff to identify outages or deficiencies.

The inventory and assessment undertaken and completed by RV Anderson and Associates Limited, was thorough and reviewed, assessed, and captured the following streetlight components and information.

- GPS Location of streetlight asset
- Height of streetlight pole
- Type of streetlight pole
- Luminaire type
- Luminaire wattage
- Arm type
- Arm length
- Streetlight pole condition
- Arm condition
- Luminaire condition
- Streetlight pole ownership

From this information and visual inspection, the consultants were able to prepare maintenance and replacement recommendations based on observed conditions of the various streetlight components. A condition summary of the pole, arm and luminaires can be found below.

## Table 8: Pole Condition High-Level Summary

Pole Condition	Count	Percentage of Total	Utility Pole Subset
Good	610	41.98%	20
Fair	801	54.85%	253
Poor	42	2.89%	8

#### Table 10: Arm Condition High-Level Summary

Arm Condition	Count	Percentage of Total
Good	594	40.88%
Fair	851	58.57%
Poor	8	0.55%

# Table 12: Luminaire Condition High-Level Summary

Luminaire Condition	Count	Percentage of Total
Good	327	22.51%
Fair	1,043	71.78%
Poor	83	5.71%

# Financial Implications:

The information collected in the streetlight inventory and assessment will be used to update the Municipality's asset management plan, as well as help inform budget discussions related to maintaining and renewing streetlight infrastructure. Where possible, staff will look to undertake minor maintenance items.

# Strategic Plan:

This matter aligns with following strategic priorities:

• Sustainable Infrastructure and Services

The sustainable maintenance and capital planning for streetlight replacement will ensure the Municipality's streetlight assets are maintained and in a state of good repair.

# Attachments:

Appendix A: Streetlight Inventory and Assessment Report