



# REPORT TO COUNCIL

To: **Mayor and Councillors**

Subject: Asset Management Program Status Update

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From: Hirod Gill, P.Eng.  
Manager of Engineering Services

Date: June 13, 2022

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## **RECOMMENDATION:**

THAT Council receive the Asset Management Program Status Update report for information.

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## **PURPOSE:**

This report is to provide a status update on the City's Asset Management (AM) Program progress and implementation as per Policy CO-71 reporting requirements.

## **POLICY:**

Policy CO-71

## **COMMENTS/ANALYSIS:**

### **Progress to date:**

#### *Policy*

The City adopted Asset Management Policy CO-71 on November 23, 2020, with the goal of documenting the City's commitment to AM and to provide a set of principles that guide the City's AM Program.

#### *Purchased Asset Collector App*

The City has purchased the "Asset Collector" App in July 2020. This App works on cell phones and tablets and allows staff to more easily collect asset information in the field.

Staff have also used this App in the field to update asset information, such as material type, structural condition, operational issues, and maintenance activities.

#### Watermain Condition Assessment

The City has allocated approximately \$3.2M in its 2022 capital budget (\$2.7M for AC watermain replacements and \$540k for designing watermains to be replaced in 2023) to address replacement needs.

The City was successful in obtaining a \$50,000 grant for watermain condition assessments from (Federation of Canadian Municipalities - FCM). The water condition assessment in this project used a non-intrusive method, which uses acoustics (sound waves) to estimate pipe thickness to assess watermain structural conditions. As noted below the findings indicate remaining pipe wall thickness is greatly reduced which means these pipes are very close to the end of their useful life. However, as an added measure and to verify the acoustic assessment results staff plan on taking some physical pipe samples and complete verification testing. This will help raise the confidence level and understanding of future replacement needs.

The acoustic assessment included 5.2 km of AC watermains and the results indicated that the majority of mains have exceeded their service life. This is determined by measuring the remaining wall thickness of the AC pipe, most of which had significantly reduced wall thickness. Some pipes with an original 20mm wall thickness only having 7.5mm left. This is seen as a significant concern as the City has another 15 km of AC watermain in the same era which will likely also need to be replaced in the short term. As noted above further testing is being done to verify the acoustic assessment results.

#### Sanitary and Storm Sewers Assessment

The City has linked every CCTV (video) file from 2014 to 2021 with the City's GIS. Staff can now easily view these files by clicking on the pipe segment attributes in the City's mapping system (GIS).

In 2020, the video review found there was 2.5 km of storm sewer that was not previously mapped in our GIS along with dozens of manholes and CB's. Several sanitary manholes were also discovered, some buried in the boulevard or under asphalt or sidewalks. The City arranged for these to be videoed to confirm their lengths, size, and material. These have been added to the City's database.

#### Roads & Sidewalk Assessment

StreetScan technology was used to update the condition of the road pavements, sidewalks, ramps, curbs, and medians in the AM database. StreetScan uses vehicles equipped with multi-sensor systems to detect pavement surface distresses without

interrupting traffic flow, which assists in completing repair and maintenance budgets and to keep our roads and sidewalks in the good condition.

Staff also completed a major GIS and AM update which included traffic signals and streetlights.

#### Street Boulevard Trees Data Collection

The City has recently used StreetScan to collect geographical coordinates of City's street boulevard trees. Once completed, Parks Operations staff will use City's Asset Collector App to add more details related to each tree (e.g., their species, health conditions, and whether they need more frequent inspections or any other any special treatments). This data would also help the City during its upcoming "Urban Forest Management Strategy" project.

#### Next Step

Staff is in the process of analyzing the collected data to develop City's Asset Management Plans (AMP's) for the City's water, sanitary, storm and transportation systems. These plans will outline the City's performance, goals and financial requirements related the service provided for each asset class. Once completed, these plans will be presented to Council for their review and comments and then will be used to build the City's long-term capital plans.

With the departure of the City's Asset Management staff person, this task needed to put on hold temporarily, but has been picked up recently with the hiring a replacement staff earlier this year.

#### **BUDGET IMPLICATIONS:**

There is no direct budget request from this report.

#### **ALTERNATIVES:**

N/A

Respectfully Submitted,

Concurrence:



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Hirod Gill, P.Eng.  
Manager of Engineering Services

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Rick Bomhof, P.Eng.  
Director of Engineering, Parks & Environment

**CHIEF ADMINISTRATIVE OFFICER'S COMMENTS:**

I support the recommendation.



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Francis Cheung, P. Eng.  
Chief Administrative Officer