

Municipality Of Chatham-Kent
Infrastructure & Engineering Services
Public Works
Information Report

To: Mayor and Members of Council

From: Jerry Corso
Manager, Public Works South

Date: January 7, 2019

Subject: Increase Supply and Placement of Gravel

This report is for the information of Council.

Background

There are 1,750 km of gravel roads throughout Chatham-Kent that require resurfacing on average every three years, depending on traffic volume and the maintenance demand of each road. The quantity of gravel has fluctuated over the years due to the rising costs of material, trucking, fuel, and the closing of the municipal gravel pit.

Comments

Public Works has been receiving complaints that some of the Municipality's gravel roads are deteriorating before the end of their three-year lifecycle span due to the current type and quantity of gravel being applied. The data included in the 'Gravel Road Surface Aggregate Quality' report of July 3, 2018 confirmed that complaints from 2013 to 2017 have continuously increased.

As indicated in the Historical Summary table below, and in an effort to mitigate these complaints, Public Works has begun increasing the quantity of gravel purchased (totaling approximately 16,000 tonnes between 2017 and 2018). However, the 2019 allocated lifecycle budget for gravel roads is underfunded at 86% of the required amounts. Based on the data, an increase of \$400,000 would assist Public Works with the management of annual material application and would help reduce some of the complaints received. The increase represents approximately 14,000 tonnes of material and an increase from 318 tonnes per km to 342 tonnes per km every three years.

Supply and Place Gravel Historical Summary

Year	Tonnes	Tender Amount	Average per Tonne
1999	217,860	\$2,246,675	\$10.31
2000	227,500	\$2,361,908	\$10.38
2001	227,500	\$2,462,487	\$10.82
2002	220,600	\$2,352,142	\$10.66
2003	220,300	\$2,446,244	\$11.10
2004	219,400	\$2,446,346	\$11.15
2005	217,200	\$2,508,308	\$11.54
2006	216,425	\$2,552,182	\$11.79
2007	213,690	\$2,648,707	\$12.39
2008	200,798	\$2,752,530	\$13.70
2009	200,785	\$2,814,517	\$14.10
2010	199,700	\$2,929,900	\$14.99
2011	197,060	\$2,999,896	\$15.22
2012	193,375	\$3,011,909	\$15.58
2013	191,434	\$3,031,770	\$15.84
2014	169,354	\$3,184,075	\$18.80
2015	162,680	\$3,037,198	\$18.67
2016	166,300	\$3,285,555	\$19.76
2017	174,404	\$3,416,094	\$19.59
2018	183,101	\$3,555,722	\$19.42

With the current tonnage, Public Works is slightly exceeding the three-year average resurfacing rotation. The additional 14,000 tonnes of material would help keep roads in the third year of their life cycle in a more suitable condition. The purchase of 200,000 tonnes of material annually would return the gravel resurfacing program to the 2008 level of service.

The recommendations in this report support the following areas of strategic focus:

Economic Prosperity:

Chatham-Kent is an innovative and thriving community with a diversified economy

A Healthy and Safe Community:

Chatham-Kent is a healthy and safe community with sustainable population growth

People and Culture:

Chatham-Kent is recognized as a culturally vibrant, dynamic, and creative community

Environmental Sustainability:

Chatham-Kent is a community that is environmentally sustainable and promotes stewardship of our natural resources

The recommendations in this report support the following critical success factors:

Financial Sustainability:

The Corporation of the Municipality of Chatham-Kent is financially sustainable

Open, Transparent and Effective Governance:

The Corporation of the Municipality of Chatham-Kent is open, transparent and effectively governed with efficient and bold, visionary leadership

Has the potential to support all areas of strategic focus & critical success factors

Neutral issues (does not support negatively or positively)

Consultation

No consultation was held in relation to the preparation of this report.

Financial Implications

To meet a three-year average maintenance schedule, a \$400,000 increase to the gravel roads lifecycle is required, resulting in an annual funding change from \$3,492,482 to \$3,892,482. This increase in budget will require a motion from the Budget Committee during budget deliberations.

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