

Municipality of Lakeshore – Report to Council

Operations

Capital Projects



To: Mayor & Members of Council
From: Jill Fiorito, Drainage Superintendent
Date: August 16, 2022
Subject: Puce Road, Major Street and Lilydale Avenue Drainage Improvements

Recommendation

Approve the Preliminary Engineer's report for the Puce Road, Major Street and Lilydale Avenue Drainage Improvements and instruct N.J. Peralta Engineering to prepare a full Engineer's report in accordance with section 10(5) of the *Drainage Act*, as presented at the September 13, 2022 Council meeting.

Background

Puce Road, Major Street and Lilydale Avenue experienced significant drainage issues for several years. This area is serviced by a comprehensive system of several municipal drainage systems that require improvements.

A request to sign Section 78 under the Drainage Act was brought to Council by the Municipality of Lakeshore (the Road Authority) on January 22, 2018. This was passed and Section 78 was signed and filed on February 8, 2018.

Based on the inadequate drainage and subsequently the continuous deterioration of the roadway, reconstruction of these roadways was included in the Municipality's 5-year capital road plan. Further, under the Municipality's capital plan, these roadways will be upgraded to an urban cross section.

N.J. Peralta was appointed as the Drainage Engineer to commence the Drainage Act process (Section 78) and proceed with an investigation of the drainage system(s) to address drainage concerns and recommend upgrades to increase service levels. Once the drainage improvements were undertaken the Municipality will be in a position to be able to reconstruct the roadway.

Various meetings and discussions were held with the affected landowners to review the details of the Draft Drainage Report to better understand the preference related to the drainage improvements along Puce Road, Major Street and Lilydale Avenue. A preliminary report was prepared and provided to the affected landowners, pre-

consideration meetings were conducted, and a questionnaire was mailed to the affected landowners.

The questionnaire provided various options (as outlined below) and were used to aid in establishing an appropriate direction for recommending the required drainage improvements.

In total, 129 questionnaires were mailed to the affected landowners. The Municipality received 72 returned responses, equating to a 55.8% response rate.

The following chart outlines a summary of the options that were provided and the preference of the landowners:

Drainage ID	System Location	Option Preference (by percentage)
Part A-1	Puce Lots Drain No. 1 Flood Protection, Specific to those affected along the north side of Major Street	
	Option 1: Redirect Flows to Puce River Watershed	63.60%
	Option 2: Status Quo (remain in 4th Concession Drain Watershed)	36.40%
Part A-2	Puce River Watershed Flood Protection, North of VIA Rail - Lilydale Ave. (West) and Puce Road (North)	
	Option 1: Separate Pumps	30.00%
	Option 2: Consolidate Pump with South Side	16.70%
	Option 3: Status Quo (No Pumps)	53.30%
Part A-3	Puce River Watershed Flood Protection, South of VIA Rail – Major St. and Puce Road (South)	
	Option 1: Separate Pumps	21.70%
	Option 2: Consolidate Pump with North Side	34.80%
	Option 3: Status Quo (No Pumps)	43.50%
Part B-1 & B-4	Major St and Puce Road (South) Drainage Improvements	
	Option 1: Replace System to Puce River	56.50%
	Option 2: Replace System toward Puce Lot Drain No.1 (VIA Rail)	8.70%
	Option 3: Status Quo (No Replacement)	34.80%
Part B-2	Lilydale Ave. (East) Drainage Improvements	
	Option 1: Replace System to Singular Drainage System	23.50%
	Option 2: Replace System with Multiple Outlets to VIA Rail	29.40%
	Option 3: Status Quo (No Replacement)	47.10%
Part B-3	Lilydale Ave. (West) Drainage Improvements	
	Option 1: Replace System to Singular Drainage System	12.50%
	Option 2: Replace System with Multiple Outlets to VIA Rail	33.30%
	Option 3: Status Quo (No Replacement)	54.20%
Part B-5	Puce Road (North)	
	Option 1: Redirect Flows to New Outlet (Via Rail)	50.00%
	Option 2: Status Quo (No Improvements)	50.00%

Based on the above responses, the Preliminary Engineer's report for the Puce Road, Major Street and Lilydale Avenue Drainage Improvements dated August 19, 2021 (by N.J. Peralta Engineering Limited), was finalized in accordance with the Drainage Act R.S.O 1990 and was further considered at the Drainage Board meeting held on July 4, 2022.

Comments

At the Drainage Board meeting on July 4, 2022, the consensus of the Board Members was that the drainage improvements and upgrades be completed as outlined in the Preliminary Report (including Part B-5, Puce Road North which encompasses Lilydale Avenue) so that the forthcoming road improvements could take place.

Further the Board recommended the following:

Council approves the Preliminary Engineer's report for the Puce Road, Major Street and Lilydale Avenue Drainage Improvements and instruct N.J. Peralta Engineering to prepare a full Engineer's report in accordance with Section 10(5) of the Ontario Drainage Act.

Should Council approve the Preliminary Engineer's report, accepting the Drainage Board's recommendation, the following steps will be undertaken:

1. Proceed with preparation of the Full Engineer's Report and submit the Engineer's Final Report to the Municipality;
2. Conduct a meeting to consider the Final Engineer's Report;
3. Approval of the Drainage Board Committee recommendation, first and second reading of the By-law at Council (subject to the outcome of the Meeting to Consider and associated appeals process);
4. Convene a Court of Revision where landowners may appeal their assessment. The Drainage Board Committee may direct the Engineer to revise the assessment contained in the report. All affected landowners must then be advised of any revisions and the provisions under the Drainage Act for further appeal;
5. Third reading of the By-law at Council (pending the outcome of the above); and
6. Tender and construction of the drainage works, in phases as required (following the above proceeds through the approval process).

Others Consulted

The Drainage Board was consulted.

Essex Region Conservation Authority was also consulted on this project.

Financial Impacts

All costs associated with these works will be assessed out according to the proportions that will be outlined in the final Engineer's Report, including the Road Authorities proportion.

Report Approval Details

Document Title:	Puce Road, Major Street and Lilydale Avenue Drainage Improvements .docx
Attachments:	
Final Approval Date:	Sep 8, 2022

This report and all of its attachments were approved and signed as outlined below:

Prepared by Jill Fiorito

Submitted by Krystal Kalbol

Approved by Justin Rousseau and Truper McBride