



2024 Budget Request

Request: Kemble Drainage Improvements

Department: Development and Infrastructure Services

Request ID: DEV2024BUDGET-C-11

Financial Ask: \$900,000

Funding Source: Capital – To be determined

This document and its attachments are public and available in an accessible format upon request.

Background and Strategic Priority

Demonstrate and Enhance Environmental Stewardship

Deliver Effective and Cost-Efficient Services

The Village of Kemble has had a recent history of challenges associated to stormwater drainage, particularly after more intensive rain and precipitation events.

In early winter 2022, following a heavy precipitation event, the roadside ditches on the west side of Kemble Rock Road through the village were overwhelmed resulting in localized flooding. At the time, anecdotally, staff and community members believed that partially, this was as a result of additional water being discharged to the roadside ditch, potentially as a change in development uses in Kemble. Regardless of cause, this flooding necessitated an immediate response by the municipality who cleaned out and extended the capacity of the existing west roadside ditch, and all driveway culverts were removed and replaced with larger diameter culverts to convey flows.

Flows in the ditch were discharged, as previously, to overland flow on a property south of the village, joining flows coming under Kemble Rock Road from the east side. The work on the ditch and increase in sizing of driveway culverts resulted in the landowner raising concerns at receiving additional water, concerns that Council addressed by purchasing the affected lands.



Analysis

While the purchase of land addressed an immediate concern around potential liabilities associated with discharging water onto lands under private ownership, drainage issued in Kemble are not yet fully managed.

Staff are working, supported where necessary by our Drainage Superintendent, to review drainage in Kemble and suggest where additional works may be required. The team has identified additional culvert replacement and ditching work that is required and are also seeking to better understand the drainage area around Kemble in order to better address drainage that centres on Kemble.

Much of this work is ongoing and some may require additional future budget requests.

As part of this work, the team has identified the need to manage the stormwater discharge onto the new property that it has secured, in order to alleviate any downstream liabilities, and to help retain and manage the existing peak discharges being received on the property.

In order to do so it is recommended that a stormwater management pond be provided with a preliminary conceptual proposal for a 15,000 m³ storm water management (SWM) pond with a treatment forebay, and outlet control structure on lands recently acquired by the Township.

This SWM pond would receive flows from a large area around south Kemble and would address immediate issues relating to unmanaged stormwater impacting existing tenant farming use of the land as well as support potential for future development of the land for other community-based services, such as a future park as well as potential for other development of community facilities such as a potential community centre, fire halls and/or works yard which would be subject for future design development review and permitting processes.

Currently, flows directed to this property drain overland to a small watercourse tributary to the Indian River. Runoff quantity and quality are planned to be managed on this site to prevent erosion and other potential downstream impacts, which could result due to development.

Financial Impact

It is estimated that a stormwater management facility could be implemented for \$900,000.



Report Approval Details

Document Title:	2024 Budget Request Kemble Drainage.docx
Attachments:	
Final Approval Date:	Nov 14, 2023

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

Samantha Buchanan, Treasurer

Niall Loble, Director of Community Services