



The Corporation of the Town of Tecumseh

Public Works & Engineering Services

To: Mayor and Members of Council

From: Phil Bartnik, Director Public Works & Engineering Services

Date to Council: June 28, 2022

Report Number: PWES-2022-31

Subject: Oldcastle Stormwater Master Plan
Study Completion and Final Adoption

Recommendations

It is recommended:

That the Oldcastle Stormwater Master Plan, be adopted.

Background

As part of the Oldcastle Stormwater Master Plan, a detailed hydrologic and hydraulic model of the study area and its downstream receiving bodies was created in order to analyze and assess the performance of the existing (and future) drainage systems. The dual drainage model, which incorporates both the minor drainage system (sewers, drains and culverts) and the major drainage system (overland flow), was calibrated based on actual field observations from five separate flow-monitoring locations during six separate rainfall events over the course of the study.

The study area of Oldcastle Hamlet is located at the headwaters of three separate watersheds: Turkey Creek, Little River and Canard River (see Attachments 1 & 2).

The main objectives of the Oldcastle Stormwater Master Plan were to:

- Inventory, assess and confirm the capacities of the existing stormwater drainage system;

- Identify and define local drainage issues and areas of concern;
- Review and assess the stormwater management needs for future development;
- Identify and assess potential drainage improvements; and
- Prepare a prioritized strategy for implementing the proposed drainage improvements.

At the February 8, 2022 Special Meeting of Council, the members received a [Presentation](#) from the Town's Consultants and also received Report No. [PWES-2022-08](#) titled "Oldcastle Stormwater Master Plan, Filing the Notice of Study Completion" and subsequently authorized Administration to advertise the Notice of Completion in the local newspaper and the Town's website and social media accounts to initiate the mandatory 30-day public review period (Motion: SCM-06/22).

The Master Plan Process

Master Plans are long range plans which integrate infrastructure requirements for existing and future land use with environmental assessment planning principles. The plans examine an infrastructure system(s) or group of related projects to outline a framework for planning for subsequent projects and/or developments. At a minimum, Master Plans address Phase 1 (Identify Problem/Opportunity) and Phase 2 (Alternative Solutions) of the Municipal Class Environmental Assessment (Municipal Class EA) process. Master Plans typically outline a set of specific projects across a geographic area that will be implemented over a period of time.

The Oldcastle Stormwater Master Plan was completed following Approach No. 2. to ensure that the level of investigation, consultation and documentation were sufficient to fulfil the requirements for Schedule B projects. A Master Plan Approach No. 2 includes:

- Preparation of a Master Plan document at the conclusion of Phases 1 and 2 of the Municipal Class EA process.
- Level of investigation, consultation and documentation are sufficient to fulfil the requirements for Schedule B projects.
- The public notice for the Master Plan becomes the Notice of Completion for the Schedule B projects within it.
- Schedule C projects would have to fulfil Phases 3 and 4 of the Municipal Class EA prior to filing an ESR for public review.
- The Master Plan would provide the basis for future investigations for specific Schedule C projects identified within it.

Comments

Notice of Study Completion

The Notice of Study Completion was published in the local newspaper and on the Town's website and social media accounts and was also mailed to landowners, stakeholders and regulatory authorities on the contact list for the Oldcastle Stormwater Master Plan. The 30-day public review period expired on March 25, 2022.

During the 30-day public review period, the following comments were received from regulatory agencies and the public:

1. On February 18, 2022, the Town of LaSalle requested clarification on how the Town's previous concerns, related to downstream capacity, have been incorporated into the Master Plan. The Consultant was able to address LaSalle's questions and highlighted the sections of the Master Plan that referenced downstream capacity.
2. On February 19, 2022, the property owner at 2340 Olympia Drive expressed concerns on the recommendations adjacent to his property and on the Wolfe Drain. These concerns were documented and addressed by the Consultant.
3. On February 22, 2022, the property owner at 5445 Oldcastle Road expressed concerns with his existing rear yard drainage as well as overgrowth obstructing the outlet on the Downing Drain. These concerns were documented and addressed by the Consultant and Administration.
4. On February 23, 2022, a representative of the property owner at 5600 Roscon Industrial Drive expressed concerns with the recommended solution to install a stormwater retention pond on the southern part of the property, adjacent to Highway No.3 and the Collins/Highway 3 Municipal Drain. A meeting between the property owner, Consultant and Town was held to further discuss those concerns.
5. On March 8, 2022, Hydro One confirmed their existing distribution assets with the study area and requested to be kept informed as the details of the preferred solutions become available through the design process.
6. On March 25, 2022, the Ministry of Environment, Conservation and Parks (MECP) requested clarification on the Class EA process, evaluation of alternatives, public consultation, excess soils management, source water protection and species at risk. The Consultant worked with MECP and provided a response to their comments. All MECP comments have been integrated into the final report.

7. On March 25, 2022, the Ministry of Heritage, Sport, Tourism, Culture Industries (MHSTCI) indicated that the Stage 1 Archaeological Assessment that was submitted in 2020 had not yet been reviewed due to a backlog at the ministry. Although the Stage 1 assessment is not yet considered final, it is not anticipated that there will be any issues arising from the report and no further action is needed at this time.

Copies of all correspondence from these agencies and the public, as well as the responses confirming how these comments were addressed are appended to this report.

Given that the Town addressed all comments received during the 30-day public review period and no Part II Orders were submitted to the Minister of Environment, Conservation and Parks, the Oldcastle Stormwater Master Plan including the specified Schedule B projects that form part of the preferred solutions, is considered approved under the Municipal Class EA process and may now proceed to the detailed design and implementation phases.

Accordingly, it is therefore recommended that the Oldcastle Stormwater Master Plan be adopted by Council. A copy of the [Oldcastle Stormwater Master Plan](#) is posted on the Town's website.

Consultations

Development Services
Landmark Engineers Inc.

Financial Implications

There are no financial implications associated with this report.

As identified within the Town's 2018 Asset Management Plan (v 2.0), the recommended solutions will be incorporated into the annual Public Works & Engineering Services Capital Works Plans moving forward. It is intended to consolidate various infrastructure improvements into a singular tender package for efficiencies and economies of scale benefits.

Administration will also continue to explore grant opportunities for funding of the storm infrastructure projects.

Link to Strategic Priorities

Applicable	2019-22 Strategic Priorities
<input type="checkbox"/>	Make the Town of Tecumseh an even better place to live, work and invest through a shared vision for our residents and newcomers.
<input checked="" type="checkbox"/>	Ensure that Tecumseh’s current and future growth is built upon the principles of sustainability and strategic decision-making.
<input checked="" type="checkbox"/>	Integrate the principles of health and wellness into all of Tecumseh’s plans and priorities.
<input checked="" type="checkbox"/>	Steward the Town’s “continuous improvement” approach to municipal service delivery to residents and businesses.
<input type="checkbox"/>	Demonstrate the Town’s leadership role in the community by promoting good governance and community engagement, by bringing together organizations serving the Town and the region to pursue common goals.

Communications

Not applicable

Website

Social Media

News Release

Local Newspaper

This report has been reviewed by Senior Administration as indicated below and recommended for submission by the Chief Administrative Officer.

Prepared by:

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Public Works & Engineering Services Assistant

Reviewed by:

Brian Hillman, MA, MCIP, RPP
Director Development Services

Reviewed by:

Phil Bartnik, P.Eng.
Director Public Works & Engineering Services

Recommended by:

Margaret Misek-Evans, MCIP, RPP
Chief Administrative Officer

Attachment Number	Attachment Name
1	Figure A1: Study Area Location Map
2	Figure A5: Watershed & Sub-watershed Boundary Map
3	Figure H1 to H5: Proposed Improvements
4	Oldcastle Stormwater Master Plan: Executive Summary
5	Oldcastle Stormwater Master Plan: 30-day Public Review Period Comments & Responses