

TO:	CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON OCTOBER 30, 2018
FROM:	KELLY SCHERR, P.ENG., MBA, FEC MANAGING DIRECTOR ENVIRONMENTAL & ENGINEERING SERVICES AND CITY ENGINEER
SUBJECT:	WILLIAM STREET STORM SEWER OUTFALL MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT: NOTICE OF COMPLETION

RECOMMENDATION

That, on the recommendation of the Managing Director Environmental & Engineering Services and City Engineer, the following actions **BE TAKEN** with respect to the William Street Storm Sewer Outfall Environmental Assessment:

- (a) The preferred outfall improvement alternative, executive summary attached as Appendix 'B', **BE ACCEPTED** in accordance with the Schedule 'B' Municipal Class Environmental Assessment process requirements;
- (b) A Notice of Completion **BE FILED** with the Municipal Clerk; and,
- (c) The Municipal Class Environmental Assessment Schedule 'B' project file for the William Street Storm Sewer Outfall **BE PLACED** on public record for a 30-day review period.

PREVIOUS REPORTS PERTINENT TO THIS MATTER

Civic Works Committee, June 8, 2016 – Appointment of Consulting Engineers – Environmental Assessment and Detailed Design, William Street Storm Sewer Outfall

2015 – 2019 STRATEGIC PLAN

The following report supports the 2015 – 2019 Strategic Plan through the strategic focus area of Building a Sustainable City including:

- Robust Infrastructure 1B – Manage and improve water, wastewater, and stormwater infrastructure.

BACKGROUND

Purpose

The purpose of this report is to identify the preferred alternative for the William Street Storm Sewer Outfall Schedule 'B' Municipal Class Environmental Assessment (EA), and recommend filing the Notice of Completion for the study to initiate the statutory 30-day public review period.

Context

The Cheapside Street corridor, William Street, and several other local streets in Old North have existing combined sewers that need to be separated. A combined sewer is a type of sewage collection system that is designed to collect and convey both sanitary

sewage and surface runoff in a single pipe. Separating these combined sewers will provide a significant environmental benefit by removing stormwater from the sanitary sewer system, reducing the amount of stormwater treated at the City's sewage treatment plants, and reducing the number of overflows to the Thames River.

The storm runoff that was directed to the sanitary system before the sewer separation project is directed to the storm sewer system after the sewer separation. The existing storm outfall structure and open channel in Huron Street Woods (Appendix 'A' Location Map) does not have the capacity to accommodate additional flows from the proposed new separated storm sewers. Therefore, the purpose of this EA was to identify the preferred alternative for the improvements to the outfall structure and open channel to accommodate increased flows and mitigate environmental impacts.

DISCUSSION

In June 2016, the City of London appointed Dillon Consulting Limited (Dillon) to complete the Municipal Class Environmental Assessment (EA) and design improvements for the William Street Storm Sewer Outfall and open channel in Huron Street Woods. The evaluation of alternative solutions was completed with consideration to social, environmental and other technical factors.

The preferred recommended alternative consists of an extension of the existing trunk storm sewer to the west by 35 metres (Appendix 'C': Preferred Alternative). This alternative will reduce environmental concerns such as excess erosion and scour within the first 35 m and reduce some of the ponding water concerns on the private property and Thames Valley Parkway (TVP). Extending the headwall to the west will also eliminate the need to modify the first 35 m of outfall channel that is highly constrained by the topography of the adjacent private property. In general, the preferred alternative will provide an overall improvement to the natural heritage system and functions in the area and downstream of the outlet, including a net improvement in fish and turtle habitat, corridor and linkage connectivity, shoreline stability and vegetation cover quality.

An Environmental Impact Study (EIS) was prepared as part of EA process. The study concluded that there are no Species at Risk or rare species of flora in the study area, as well as no rare fauna were observed during field surveys.

Public/Stakeholder Consultation

As part of the study, one Public Information Centre was conducted. Notifications for the meeting were published in the two weeks preceding the Public Information Centre as well as on the City's webpage. The meeting was held on March 23, 2017 at the London Jewish Community Centre located at 536 Huron Street. The meeting was attended by approximately 20 members of the public, including adjacent property owners. Notifications of the project were also sent to applicable federal, provincial, and municipal stakeholders, and local First Nations communities.

Preferred Outfall Alternative

As part of the preferred alternative, the following work is proposed:

- Construction of a new 1950 mm storm sewer, extending approximately 35 m from the end of the existing storm sewer;
- Construction of a new energy dissipating headwall and outfall located approximately 35 m downstream of the existing outfall;

- Enclosure of the existing channel from the existing headwall downstream to the new headwall;
- Improvements to the existing low flow channel from the new outfall downstream to the limit of the project works, including channel re-alignment and habitat improvements;
- Removal of the existing 600 mm culvert under the existing maintenance access road crossing, and replacement with an assembly of four corrugated steel pipe (CSP) culverts, consisting of two 1500 mm diameter CSP culverts and two 1050 mm CSP culverts (potentially required);
- Re-grading and finishing of the maintenance access road crossing over the replacement culverts; and
- Restoration of the impacted areas.

The City is currently in the process of considering the realignment of trunk watermains in the area, which would include abandonment of a watermain chamber within the Huron Woods Park. If the chamber is removed, the existing maintenance road and proposed CSP culverts would no longer be required. The area would be restored to its natural state.

Agency Comments

The Ministry of Environment and Climate Change (MOECC, at the time of review) has reviewed the EA and had no specific comments for the study area.

Environmental and Ecological Planning Advisory Committee reviewed and provided a list of comments on the Environmental Impact Study report prepared during EA process. Reasonable actions were taken and a formal response was submitted by the consultant.

Environmental Assessment Next Steps

The following steps will be taken to finalize the William Street Storm Sewer Outfall EA:

1. Upon Acceptance by Council, commence the 30-day review period:
 - A “Notice of Completion” will be published identifying that the study report is available for public review for the mandatory 30 calendar days at City Hall – 9th Floor and online at: www.london.ca/WilliamEA
 - Stakeholders are encouraged to provide input and comments regarding this study during this time period. Should stakeholders feel that issues have not been adequately addressed, they can provide written notification within the 30-day review period to the Minister of the Environment, Conservation and Parks requesting further consideration. This process is termed a “Part II Order”. Subject to no requests for a Part II Order being received, the Project File will be finalized.
2. Construct the Preferred Alternative
 - It is estimated that the construction of the project will take place within the next five years as part of the City’s Infrastructure Lifecycle Renewal program. Permits and approvals for the proposed works will be obtained at the detailed design stage from the appropriate regulatory authorities.

CONCLUSIONS

The William Street Storm Sewer Outfall Environmental Assessment was undertaken to allow combined sewers to be separated in the Old North Area. Moving ahead with this

project will assist in reaching the Canada-Ontario Lake Erie Domestic Action Plan target of separating 80 percent (17 km) of the City of London’s combined sewer system by 2025. The preferred alternative provides a strong technical solution that also substantially mitigates environmental impacts. Staff recommend that the preferred servicing alternative identified in the EA be posted for the 30-day public review period.

Acknowledgements

This document has been prepared with assistance from Paul Yanchuk, EIT, project manager in the Wastewater and Drainage Engineering Division.

SUBMITTED BY:	REVIEWED AND CONCURRED BY:
TOM COPELAND, P. ENG. DIVISION MANAGER WASTEWATER AND DRAINAGE ENGINEERING	SCOTT MATHERS, MPA, P. ENG. DIRECTOR, WATER AND WASTEWATER
RECOMMENDED BY:	
KELLY SCHERR, P. ENG., FEC MANAGING DIRECTOR, ENVIRONMENTAL & ENGINEERING SERVICES & CITY ENGINEER	

October 19, 2018

Attach: Appendix ‘A’ – Location Map
Appendix ‘B’ – Executive Summary
Appendix ‘C’ – Preferred Alternative

cc. Jason Johnson, Dillon
Alan Dunbar, City of London
Jason Davies, City of London