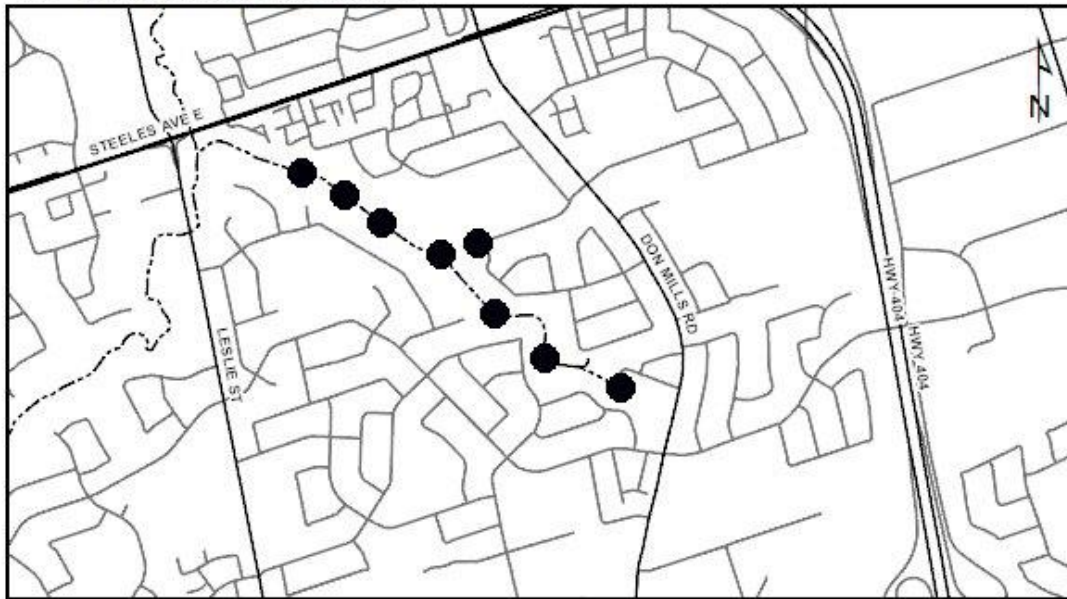


CITY OF TORONTO (NORTH YORK COMMUNITY COUNCIL AREA)

10.5 CITY OF TORONTO

To construct, reconstruct, erect or place a building or structure, site grade, temporarily or permanently place, dump or remove any material originating on the site or elsewhere, and alter a watercourse within Duncan Creek, located between Steeles Avenue East and McNicoll Avenue, in the City of Toronto (North York Community Council Area), Don River Watershed as located on property owned by the City of Toronto. The purpose is to undertake Phases 2 and 3 of the Duncan Creek Master Plan channel restoration works, located between Steeles Avenue East and McNicoll Avenue, in the City of Toronto. The warm water construction timing window will apply to this project.

MAP LOCATION: CFN 61847 Board Map



The permit will be issued for the period of January 10, 2020 to January 9, 2022 in accordance with the following documents and plans which form part of this permit:

- **Letter of Undertaking; prepared by the City of Toronto; dated December 9, 2019; received by TRCA on December 9, 2019.**

RATIONALE

The application was reviewed by staff on the basis of the following information:

Proposal:

The City of Toronto is proposing to undertake restoration works within Duncan Creek to address concerns regarding active erosion and channel instability. In 2012, the Duncan Creek Master Plan was prepared to develop an implementation program which would address ongoing issues of erosion and deterioration throughout the channel, as well as rehabilitating degraded stretches of the creek. The objective of the Master Plan assessment completed was defined as improving aquatic habitat and long-term channel stability, while also protecting nearby City of Toronto infrastructure (i.e. trunk sanitary sewer and multi-use pedestrian pathways) and private properties adjacent to Duncan Creek. To address the recommendations made within the

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Duncan Creek Master Plan (2012), four different phases of restoration work have been identified by the City of Toronto. Phase 1 of the Duncan Creek restoration works was completed in 2013. The City of Toronto is now proposing to complete Phase 2 and 3 of the restoration works. TRCA staff understand that Phase 4 consists of a monitoring program which will occur separate to this permit application at a later date.

Phase 2 of the restoration works is proposed to be completed first and will encompass an approximately 570 metre stretch of the channel. The proposed works include channel realignment, the raising of the channel bed in some stretches, the replacement and realignment of an existing asphalt path, the construction of new armourstone walls, the removal of the existing gabion baskets, the removal and replacement of drainage pipes, the reconstruction of six existing outfalls, the construction of a new resting area, the construction of a new offline wetland, the construction of new vegetated buttresses, the construction of a new rip-rap scour channel, and the regrading of banks and slopes.

Phase 3 of the restoration works will be completed immediately following the completion of Phase 2 and will encompass an approximately 680 metre stretch of channel. The proposed works include channel realignment, the raising of the channel bed in some stretches, the replacement and realignment of an existing asphalt path, the construction of new armourstone walls, the removal of the existing gabion baskets, the removal and replacement of drainage pipes, the reconstruction of seven existing outfalls, the installation of new steel and douglas fir fencing, the restoration of an existing concrete box culvert, the installation of a new concrete box culvert, the construction of new vegetated buttresses, the construction of a new rip-rap scour channel, and the regrading of banks and slopes.

Access to the site will be gained off of Cliffwood Road and existing pathways will be used as temporary access roads to reach different stretches of the creek. Sequencing of the proposed works will be determined by the contractor, however it is likely Phase 2 will be completed first, followed by Phase 3 due to higher levels of risk to the existing sanitary sewer. Flows within the creek will be bypassed during each phase of construction to allow for works to be completed in the dry. Construction is scheduled to begin in Spring 2020.

Control of Flooding:

There are negligible increases in water surface elevation which will be contained within the valley system.

Pollution:

Erosion and sediment control measures (silt soxx, silt fence, cofferdams and erosion control blankets) will be installed prior to construction and maintained for its duration. These measures are being implemented to prevent the release of construction generated sediment into the Don River East Branch. Erosion and sediment control measures have been provided in accordance with the Greater Golden Horseshoe Area Conservation Authorities' Erosion and Sediment Control Guideline for Urban Construction (2006).

Dynamic Beaches:

Not applicable.

Erosion:

No geotechnical/slope stability issues have been identified.

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Conservation of Land:

The warm water construction timing window of July 1st to March 31st applies to this project.

Plantings

The proposed project will result in the removal of 902 trees. A total of 4200 trees, 1000 shrubs and 80 wetland plantings, all native and non-invasive, are proposed to be planted for site restoration. All disturbed areas will be restored with a native and non-invasive seed mix.

Policy Guidelines:

This proposal complies with Section 8.9, Infrastructure Policies of The Living City Policies for Planning and Development in the Watersheds of the Toronto and Region Conservation Authority.

CFN: 61847 - Application #: 0741/19/TOR

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