

Red Hill Creek Modifications

Included within Contract 3 - Tertiary Treatment Upgrades, a number of enhancements are being undertaken to the Red Hill Creek to accommodate an increase in base flow resulting from moving the wastewater treatment plant effluent outfall upstream of the current location.

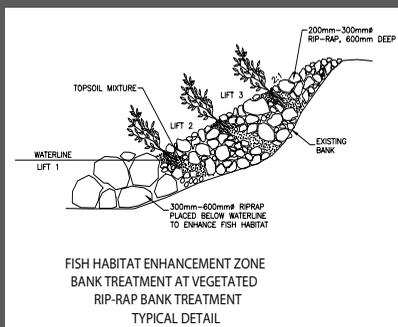
The primary scope of the Red Hill Creek Upgrades include widening a section of the creek by approximately 35%, integration of energy dissipation features, inclusion of fish habitat features, turtle islands, and final restoration. These upgrades are taking place on an approximately 1km long stretch of the Red Hill Creek which will see an increase in base flow with the relocation of the effluent outfall. Preparation for this work required close coordination with a number of regulatory agencies including the Department of Fisheries and Oceans (DFO), Hamilton Conservation Authority (HCA), the Ontario Ministry of Transportation (MTO), and the Ministry of the Environment, Conservation and Parks (MECP).

In addition, the current enhancements to the Red Hill Creek allows for the increase in future effluent flows of 1000 MLD associated with the Phase II Woodward Wastewater Treatment Plant Expansion.



Did you know?

Fish habitat enhancement zones will be built into the creek banks where widening occurs.



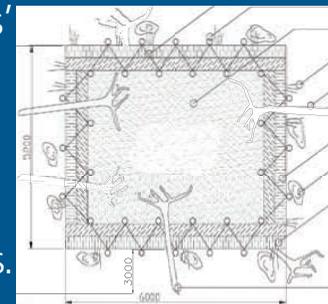
The MECP required the City to develop and follow a monitoring program for the creek until 10 years post construction, which includes sampling of invertebrates (spineless organisms) on the creek bottom and flow modelling.

Natural Restoration Materials will include:

- Heart Leaf Willow
- Silky Dogwood
- Bare Root Shrubs



Three 'turtle islands' will be built in wetland area adjacent to the creek to support native turtle species.



Main Pumping Station

Progress to Date



Construction: May 2017 - May 2021

Forming and pouring of concrete continues for the Pump Station, cutting of concrete for connection of the old and new Pump Stations is underway. The concrete roof of the service building has been put in place, which has allowed for start of rough-ins for equipment installations.



Electrical Power Centre

Progress to Date



Construction: Oct.2017-Jun.2021



With all ductbanks installed and rough-ins at the Power Centre complete, cable pulling has begun along with installation of remaining switchgear. Architectural works are nearing completion, and permanent power supply to the Power Centre was provided.



Biosolids Management

Progress to Date



Construction: June 2017 - April 2020



Interior architectural finishing's are progressing quickly, with flooring placed and ceilings finished. The odour control system is being installed, ductwork is being constructed, and remaining exterior works such as paving have started.

Tertiary Treatment

Progress to Date



Construction: May 2019 - Dec 2021



To date, excavation of the Tertiary Facility foundation has completed, with concrete forming/pouring underway. Demolition of the first stage of the south aeration and secondary clarifier works is mostly complete, with excavation and site works underway. Work began in the Red Hill Creek which is expected to finish this year.

