

Woodward Upgrades Project Newsletter

A part of the Clean Harbour Program

November 2018

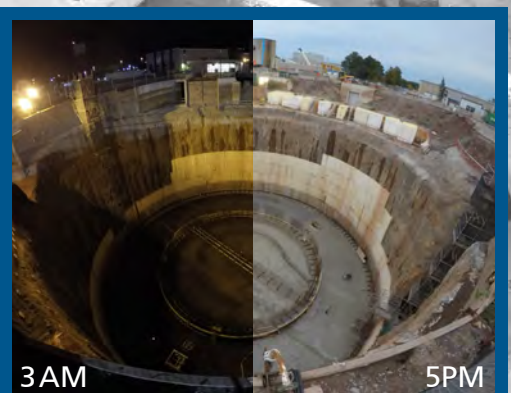


2092m³ of concrete
1.3-1.4 metres thick



240 truckloads of concrete

On September 27th, 2018 the WUP team achieved a major milestone in the construction of the Main Wastewater Pumping Station with the pouring of the concrete base slab. Utilizing 2,092m³ of concrete, Maple Ball Joint Venture, Lafarge, and Reimar Construction placed the base slab in a single continuous pour event. The reason for a single continuous pour was to reduce impacts to plant operations, reduce owner and consultant inspection requirements, and eliminate the need for construction joints in the base slab.



3AM 5PM
14 hour continuous pour



2018
90 Personnel



1960

Main Wastewater Pump Station

Progress to Date



Construction: May 2017 - May 2021

Power Centre & Chlorination Upgrades

Progress to Date



Construction: Oct.2017-Jun.2021

Tertiary Treatment

Progress to Date



Construction: Feb.2019-Feb.2022

Biosolids Management

Progress to Date



Construction: Jun.2017-Apr.2020

Tertiary Treatment - Setting New Standards

What is Tertiary Treatment?

Tertiary treatment is a third level of cleaning that will improve wastewater quality before it is discharged into the environment. The treatment process is intended to remove inorganic compounds and substances, such as the total suspended solids and total phosphorus.

Why is Tertiary Treatment important?

The addition of tertiary treatment will provide a reduction in total suspended solids and total phosphorus loadings to the Harbour. This will allow the Woodward Wastewater Treatment Plant to meet stringent Hamilton Harbour Remedial Action Plan targets.

How does Tertiary Treatment work?

Wastewater enters the tank, completely submerging the disks. Liquid passes through the disks, which have a textured cloth covering (comparable to carpet). As solids accumulate on and within the fibres of the cloth disk, the filtered liquid enters the internal portion of the disk where it is directed to final discharge.

Solid particles are backwashed (vacuumed) from the cloth surface by liquid suction from both sides of each disk. Heavier solids are able to settle to the bottom of the tank. Backwash water will re-enter the treatment process at the Aeration tanks and filtration continues during this cycle.

