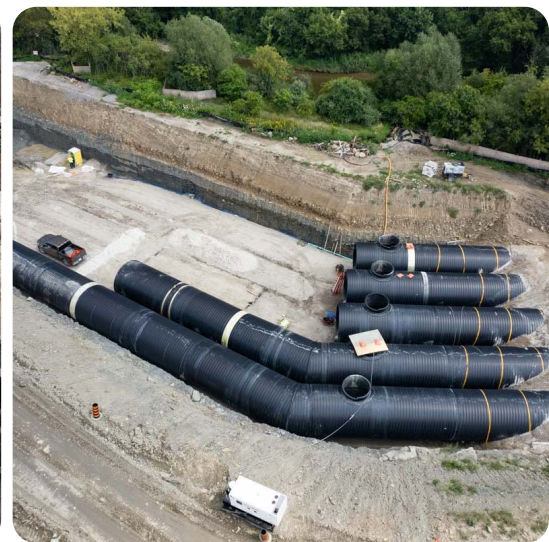
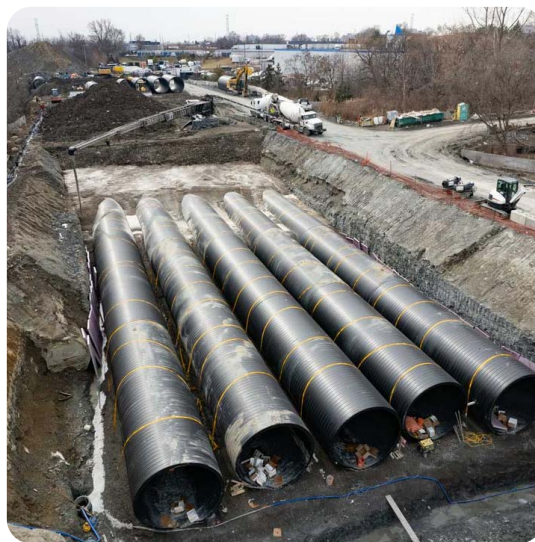


East Trunk Sanitary Sewer Offline Storage Facility



Product Overview

Infra Pipes' Large-Diameter Structural Profile Wall Pipe called Weholite® is used for Combined Sewer Overflow (CSO)/Sanitary Sewer Overflow (SSO) Detention, Stormwater Detention, Sanitary & Storm Conveyance, Irrigation, WWTP Yard Piping, and Custom Fabrications.

Weholite® is widely selected because of its wide variety of benefits, such as a 100 (one hundred) year design life, leak-free joints, no corrosion, high chemical resistance, lightweight material, and infinitely customizable solutions.

In this case study, the Region of Peel sought Infra Pipes' Weholite® product and additional fixtures for wastewater storage.

Project Overview & Background

The Region of Peel houses 1.5 million Canadians and consists of the towns of Mississauga, Brampton, and Caledon.

Peel's current Wastewater Integrated Management System (WWIMS) is the "2nd largest in the province of Ontario and the 4th largest in Canada" (Peel Region). The three facilities, G.E. Booth, Clarkson, and Inglewood collect 660 million liters of wastewater daily and work "in an organized and structured way" (Peel Region). The WWIMS commits itself to improving its system and ensuring that any incidents that "pose a risk to the public or the environment" are addressed quickly due to its "commitment to the protection of public health and the natural environment" (Peel Region).

The East Trunk Sanitary Sewer Offline Storage Facility was developed to address peak flows during wet weather events. The main benefit of peak flow attenuation is to store the flows entering G.E. Booth, and to reduce untreated wastewater from bypassing the treatment plant, spilling into creeks leading into Lake Ontario.

Infra Pipes' Weholite® product was selected over other commonly used pipe materials, providing significant storage capacity and ensuring the wastewater is properly stored for treatment before discharge. This project enhances the efficiency of wastewater management and prevents untreated wastewater from contaminating natural water bodies, thereby safeguarding our environment.

System, Partners & Timeline

Owner	Engineer	Contractor	Installation Timeline
Region of Peel	Arcadis	EBC	Spring 2023 - Spring 2024

STORAGE SYSTEM REQUIREMENTS

- 529,720 cubic feet/15,000 cubic metres/ (3,962,581 US Gal/15,000,000L)
- 5 Barrels of Weholite® measuring at 132"/3.35m x 1,115'/340m each
- 12 custom Elbows of 132"/3.35 each
- 10 Wall Penetrations
- 10 custom Risers at 72"/1.83m each

