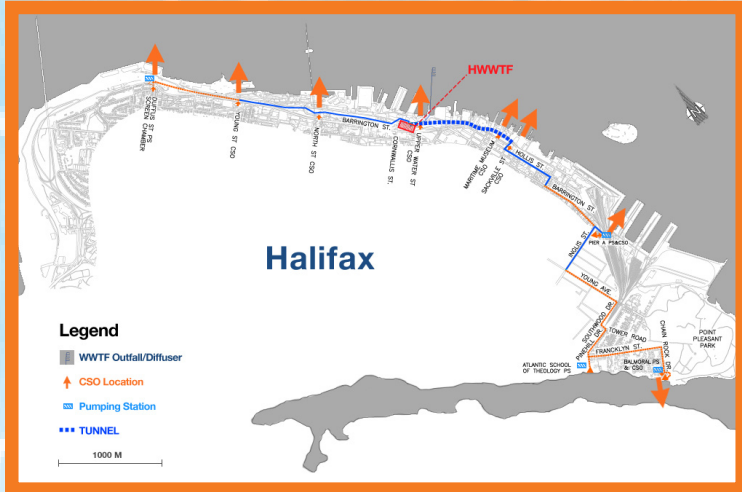


## Halifax Wastewater Treatment Facility

As mentioned in earlier Harbour Solutions Project updates, the re-commissioning of the Halifax WWTF by Halifax Water, on behalf of HRM, is a two phase project. The first phase is an initiative to divert dry weather flow through the Halifax WWTF. This diversion plan is expected to begin next week.

Flows will be gradually introduced from gravity-fed systems on the peninsula, followed by flows from the Pier A pumping station (located at the intersection of Barrington & Inglis Streets) and the Duffus Street pumping station in the north end (see diagram).



Once in place, this plan will see dry weather flows currently being discharged directly into the harbour diverted through the Halifax WWTF, debris and floatables screened out by the coarse and fine screening system, then discharged via the plant's existing outfall pipe which extends approximately one kilometre into Halifax Harbour. This measure will also significantly reduce or eliminate odours.

As noted before, this work is being carried out in conjunction with the full Halifax WWTF restoration effort, and is work that would have to be undertaken as part of the restoration plan.

The second phase will see the final recovery of all processes and systems in the WWTF with the expectation that the plant will be fully functional in the spring of 2010. All damaged equipment will be repaired or replaced with funding for the recovery effort provided primarily by the project's Builder's risk insurance.

Odour mitigation measures are on-going with two ozone generators installed, carbon socks and the recent introduction of bioxide. Bioxide, a liquid oxidizing/neutralizing agent, has been used in the tunnel access shaft under the Cogswell St. interchange and discharge chamber on the Halifax WWTF property. Bioxide has provided good initial results and crews have ordered more product for use at these sites.

As mentioned earlier, the diversion of screened, dry weather flows will significantly reduce or eliminate odours.

All efforts are being made, and will continue to be made, to mitigate odours.

## Dartmouth Wastewater Treatment Facility

Commissioning activity continues with a focus on meeting the project specifications for odour and effluent quality, prior to achieving substantial completion.

The temporary measure to reroute foam and odour identified as coming from 2 vent pipes outside the plant is in place and results have been very favourable. The permanent fix will be in place over the coming weeks. Perimeter odour testing will continue on a daily basis for the foreseeable future.

## Herring Cove Wastewater Treatment Facility

Construction of the WWTF and wastewater collection system (WWCS) is essentially complete with deficiency identification and rectification already under way. The "dry" testing of individual components and hydro(wet) testing of various tanks within the Herring Cove WWTF using clean water is ongoing. All necessary treatment chemicals have been ordered. The odour control unit will be tested with chemicals prior to the introduction of wastewater.



*Herring Cove WWTF, September 2009*

Regarding the WWCS, the new additional holding tank at Roaches Pond is ready to undergo the substantial completion process. When combined with the newly upgraded pumping station at Roaches Pond, these components will significantly reduce/eliminate historical wet weather sewage overflows and greatly improve the water quality of MacIntosh Run which flows from Long Lake in Spryfield to Herring Cove.

## Overview

Overall, the five-year, \$333M Harbour Solutions Project remains within budget. HRM and Halifax Water continue to work closely with its prime contractors and insurers to complete all three wastewater treatment facilities in accordance with contract specifications as soon as possible.

It remains the intention of Halifax Water and HRM to see the Halifax WWTF back in full operation in the spring of 2010, that any problems that led to the sequence of events that caused the flooding are addressed, and that the water quality with Halifax Harbour is once again restored to levels enjoyed last year by residents.

## For more information

In depth information about the Halifax WWTF along with other aspects of the Harbour Solutions project are posted on the HRM website at <http://halifax.ca/HWWTF/index.html> where newsletters, diagrams, photos, background materials, and answers to frequently asked questions can be found.