

High Rate Treatment Facility City of Niagara Falls, Ontario

In late 2007, Niagara Falls completed the construction of a \$13 M high rate treatment facility (HRT). The HRT facility was completed in a joint Regional Municipality of Niagara and City of Niagara Falls, \$31 M project over 2 ½ years that included new pumping stations, forcemains, sewer separation, elimination of the Muddy Run combined sewer overflow and related construction.

The new HRT facility is designed to give basic treatment to about 400 million litres of sewage each year.

With the elimination of the Muddy Run combined sewer overflow, Niagara Falls combined sewer discharge to the Niagara River was reduced by 62%.

The HRT facility has two 13 metre diameter vortex tanks that when operational during a storm event or from a rapid snow melt will separate the solids from the water. The solids are pumped to a new Regional pumping station for treatment at the Niagara Falls Wastewater Treatment Plant. The treated water flows into the Niagara River.

In 2008, the HRT successfully treated 27 wet weather events that previously would have bypassed any treatment allowing the combined sewerage to flow directly into the Niagara River.

In addition to the HRT facility the City of Niagara Falls has a committed sewer separation and weeping tile disconnection programs to reduce further the number of combined sewer overflow events and discharge volume. Additional HRT facilities are recommended for construction to totally eliminate combined sewer overflow bypasses from the Niagara Falls sewer system.

Niagara Falls is extremely proud of the positive impact that the HRT facility has on the natural environment.

Contact

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