

# Waterworks History

## 1901 7th Avenue Pump Station

The original water system was established in 1901. The present pumping station located at 722 7th Avenue is the original station. In 1901, the pumps were water driven turbines, using the Saugeen River for both supply and power for pumping. The system was established mainly for fire protection at this time in history.

## 1912 Ruhl Lake

As the Town grew, officials became aware of the unreliability of the river as a source of water. Flooding, drought, agricultural runoff, etc., made the river a poor and unpredictable source of good quality water for the growing town. As a result Town Officials began looking for another reliable good quality water source. Conrad Ruhl, a Town Official and property owner on Concession 3, North Durham Road, Brant Township offered the Town a fifty acre parcel of land containing a 6 acre spring-fed lake. The lake known as Ruhl Lake was purchased by the Town for a sum of one dollar. In 1912, Ruhl Lake became the water source for the Town. The system consisted of a pumping station on the north side of the lake and a 12 inch watermain to a 370,000 gallon in-ground reservoir located adjacent to the present day airport and treatment plant. From the reservoir a 12 inch watermain gravity fed water to the pumping station at 7th Avenue; river water was still used to drive the pumps.

## 1957 7th Avenue Water Tower

In 1957, a 208,000 gallon elevated storage tank was constructed on 7th Avenue to replace a former wooden storage tank which collapsed. This water tower, which is still in operation served the Town's needs until 1993.

## 1961 Deep Well No. 1

In 1961 a deep well (110 feet) was drilled south of Marl Lake beside County Road 22 to supplement the Ruhl Lake source. Equipped with a 50 hp vertical 3 stage turbine pump, this well is capable of supplying 700 gallons per minute to the system.

## 1987 Deep Well No. 2

With growth of the Town and an ever increasing demand for water, a second deep well (180 feet) was drilled southeast of Marl Lake in 1987. This well is equipped with a 50 hp 5 stage vertical turbine pump and dual pilot electric check valve pump control valve and can provide flows of 350 and 700 gallons as selected by system demand.

## 1989 Filtration and Treatment Plant

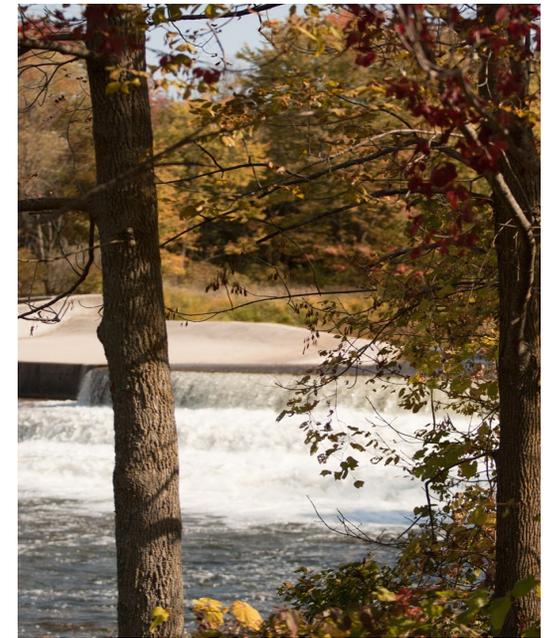
In 1988, \$5.5 million upgrading of the water supply system began. Improvements included a filtration and treatment plant built adjacent to the Saugeen Municipal Airport, a 14 inch high pressure watermain from treatment plant to Town, standby emergency power supply for all sources, 740,000 gallon elevated storage tank and watermain upgrades throughout the distribution grid. Part of the upgrade included the installation of a SCADA system (System Control and Data Acquisition) enabling the entire system to be controlled and monitored from a central location.

## 1993 14th Street Water Tower

As part of the Town's upgrading of the water supply system which commenced in 1989, the final phase was the construction of an additional 740,000 gallon elevated storage tank on 14th Street at the Town's east end. This additional storage enhanced fire protection and increased pressure in the newly developed areas at the Town's east end.

## 2010 Rehabilitation and Expansion of Water Treatment Plant

The Town received two thirds Federal/Provincial funding through the Infrastructure Stimulus Fund (ISF) for the total project cost of \$3,600,000. Expansion of the treatment plant was required to provide filtration for Well No. 1 as per Ministry requirements dating back to 2003. The upgrades included the installation of Ultraviolet (UV) and hydrogen peroxide. This process, which is called Advanced Oxidation Process eliminates the seasonal taste and odour concerns from the Ruhl Lake water supply. The completed project with a new SCADA system (System Control and Data Acquisition), electrical control panels, filter to waste capabilities brings the water supply and treatment in compliance with the Safe Drinking Water Act.



## TOWN OF HANOVER

### Water Treatment Plant and Water Supply

### History and Development of the Waterworks System

Water is a valuable resource, use it wisely!

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