

System Name: Minto Pines Subdivision Drinking Water System

Municipality: Town of Minto

Drinking Water System Category: Small Municipal Residential

The Town of Minto is located along the north-western boundary of Wellington County. The northern portion of the Municipality lies within the Saugeen Valley Source Protection Area while the remainder is part of the Maitland Valley Source Protection Area. In 2011, the population was 8334, which was an decrease of 2% from 2006. The main towns are Palmerston (population 2518) and Harriston (population 2034). Smaller villages include Clifford, Greenbush and Drew.

There are two municipal drinking water systems in the Town of Minto that are within the Saugeen Valley Source Protection Area: the Minto Pines Subdivision and the Clifford Well Supply. No new drinking water systems are planned.

Ownership of the Minto Pines Subdivision Drinking Water System was transferred to the Town of Minto in December 2003. Minto Pines is a 35-lot residential subdivision located in parts of Lots 8 and 9 on Concession 14 just south of Hwy. 89 approximately 10km west of Mount Forest. Approximately 25 of the 35 lots are currently developed. The Minto Pines Subdivision Drinking Water System is equipped to service all 35 lots when the remaining lots are developed.

The Minto Pines well has a depth of 41.5m. It is screened in the interval 23.9 - 41.5m and draws water from the bedrock aquifer. The pumphouse is located at 13 Minto Pines Road in the Minto Pines Subdivision. The well is located within the pumphouse and is the primary production well that services the subdivision.

The Minto Pines well house is located on the northwest corner of Lot 8, Concession 14. The groundwater well is located within the well house and is the only production well to service the subdivision. The bedrock well is 200mm in diameter and equipped with a submersible pump.

Treatment consists of disinfection with 12% sodium hypochlorite (chlorine) solution. The point of injection for chlorine is located after the flow meter but just before the pressure tanks. The recently treated water is discharged into an underground chlorine contact pipe, which is located immediately north of the existing well house. The chlorine contact pipe is looped, 49m in length and 300mm in diameter.

Treated water is directed to a 100mm diameter iron header that connects to the distribution system. The flow is monitored by a Krohne magnetic flow meter. Two continuous online analyzers are included in the treatment process: the chlorine analyzer measures the levels of free chlorine residual and the turbidity analyzer measures turbidity. The chlorine analyzer is equipped with an alarm.

The distribution system consists of 100mm diameter PVC piping that is not installed in a looped format; therefore, there are deadends in the system. There are no reservoirs or standpipes in this distribution system, nor is it equipped for firefighting.



*Minto Pines
Pumphouse*



Minto Pines wells

Number of Users Served	133 persons
Design Capacity (CoA)	328.32 m ³ /day
Permitted Rate (PTTW)	319.68 m ³ /day
Average Annual Usage	25 m ³ /day
Modelled Pumping Rate	25 m ³ /day