

System Name: Chepstow Drinking Water System
 Municipality: Municipality of Brockton
 Drinking Water System Category: Small Municipal Residential

The Municipality of Brockton is located in Bruce County and is contained entirely within the Saugeen Valley Source Protection Area. "The founding of Chepstow took place on May 17, 1852 when John Phelan brought his family down the Yokassippi River and settled 500 feet west of the present 5th Side Road bridge. Mr. Phelan built a dam for waterpower, which was used to drive his saw mill. The first post office opened in 1885. The first church was built in 1857, by the Roman Catholic congregation. The King Edward Hotel was built in 1871. Some of the businesses in Chepstow in the early 1900s were a saw mill, shingle mill, grist mill, cider mill, blacksmith shop and two general stores." (Source: www.brockton.ca)

The Chepstow Drinking Water System is located in the community of Chepstow in the Municipality of Brockton. This well supply consists of a bedrock well constructed in 1978 to a depth of 57m. The well is located in the Powers Subdivision, 100 metres north of the main road (Concession 6) that runs east to west through the town. The residential lots are serviced by private septic systems with the closest septic system being 30 to 60 metres south of the well.

The well serving the village of Chepstow has been considered a GUDI* source by the consultant, Ian D. Wilson Associates. The consultant noted the potential for surface water to enter the well under certain conditions. The Teeswater River is located 220 m to the north of this well. The consultant has suggested that if the well were to be pumped for a period of 600 minutes, the drawdown cone would likely extend to the river, and thus reverse the gradient such that river water could be induced to flow towards the well (MOE Inspection Report, 2004). However, the GUDI study concluded that the well is situated under fine-grained overburden approximately 15 metres thick. Ian D. Wilson recommended that this layer serves as a confining layer that inhibits the vertical infiltration of surface contaminates in the close vicinity of the well (MOE Inspection Report, 2004).

In 2013, Chepstow had approximately 18 residential service connections. There are no fire hydrants or valving in the system.

Name of Well	Depth	Pump Rating	Aquifer
Chepstow	57.6m	2.21L/s at a TDH** of 414 kpa	Detroit River group limestone bedrock

*Well water or groundwater under the direct influence of surface water (GUDI) refers to groundwater supply sources that are hydraulically connected to nearby surface waters, and are thus vulnerable to contamination by pathogens.

**Total Dynamic Head (TDH) is the work done by the pump per unit weight, per unit volume of fluid. This figure is used on Permit to Take Water documents.



Chepstow well installed 1978



Chepstow well building