

What is the Issues Contributing Area or ICA?

The water source for the Village of Madoc is groundwater. Studies have shown that the water quality in the Madoc municipal wells is influenced by the surface water in nearby Deer and Madoc Creeks. Pumping a well that is near a surface water body can cause water from the surface water source to be drawn into the well. Issues identified in the surface water could affect the untreated or raw water quality in the municipal wells.

The land and water surrounding a well can be vulnerable to contamination and pollution. This vulnerable or sensitive area around a municipal well is called a Wellhead Protection Area or WHPA. A wellhead protection area includes the area above and below ground, surrounding the municipal well. It is the area through which contaminants may move toward and reach the well.

Human activities in these identified sensitive areas can pose a threat to the quality and quantity of the drinking water sources. For the Village of Madoc municipal wells several WHPAs were identified and mapped including WHPA A, B, C, D, E and F.

The Issues Contributing Area (ICA) is an area within the vulnerable areas of the Village of Madoc wells where activities could contribute to water quality issues. The ICA for the Village of Madoc wells is a 30 metre setback from Deer or Madoc creeks, within the WHPA E and F. Activities that can contribute issues to the source of municipal well water (before treatment) are certain agricultural practices and/or septic systems. The ICA and vulnerable areas were mapped as part of the science of the Assessment Report which is available at www.quintesourcewater.ca.

