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## ENVIRONMENTAL MANAGEMENT

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### Water Management Plans

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#### **Town of Walkerton Floodline Mapping**

*Clients and Location: Saugeen Valley Conservation Authority and Municipality of Brockton, Ontario*

The Town of Walkerton, within the Municipality of Brockton, is known globally due to the tragedy that unfolded in 2000, which paved the way for the Clean Water Act (2006). Landuse changes and increased development pressures caused the Saugeen Valley Conservation Authority (SVCA) to raise concerns about the safety and impact of damages relating to floods. As such, **GREENLAND** was retained to determine the extent of flooding within the Town of Walkerton from various storm and flow events for the Saugeen River, Silver Creek and Easterly Tributary.



**Surveying the Saugeen River**



**Flooding at Elgin Street**

The study involved the latest in photometric mapping and analysis techniques by georeferencing the hydraulic models and field surveys within ArcGIS, thus enabling the flood information to be tied to features found in the watershed. Proposed updates to the Traux Dam and in-stream structures on Joseph St. and Brant St. were also investigated.

As part of this study **GREENLAND** reviewed the “Two-Zone Flood Fringe-Floodway” policy presently being applied by the SVCA. This present policy requires new development in the downtown core of Walkerton to be floodproofed up to the encroached Regional flood elevation as determined by modelling an ultimate build out in the flood fringe area.