



## OVERVIEW

Vertex Environmental Inc. staff have designed, constructed and operated numerous soil vapour extraction (SVE) systems for the treatment of a variety of volatile compounds of concern including gasoline, diesel, chlorinated ethenes and ethanes. Geologic environments in which Vertex has experience in include fractured rock, glacial till and other unconsolidated materials such as sand, gravel and silty sands. At an operating industrial site in Southern Ontario, Vertex conducted a series of tests to determine full scale operating parameters for a chlorinated ethene vapour plume that was shown to be migrating into the facility at unacceptable concentrations.

## STUDY PARAMETERS

- Compounds treated
  - TCE
  - cis-1,2-DCE
  - Vinyl chloride
- Geology - Fill and glacial till
- Determine radius of influence and capture under a variety of conditions including:
  - constant vs rotation
  - low vs high flow
- Determine treatment train for vapours
- Determine blower size and discharge rates



The results of the testing program indicated that an effective barrier could be installed to prevent the migration of chlorinated ethene-bearing vapour into the facility. The final design of the SVE system incorporated the existing layout of the facility to minimize costs and impacts on the facility itself.



Vertex combines strong theoretical understanding with practical experience to properly plan and implement the right remedial program for your site. Selecting Vertex to undertake your remediation project allows you to access a wealth of experience and knowledge.