VERTEX Environmental Inc.

CASE STUDY
PHCs

Overview

At a former fuel dispensing facility in Toronto, historical leaks from a series of underground storage tanks and pipes resulted in the development of a groundwater plume over an area of approximately 1,000 m^2. Excavation was deemed to be technically challenging and cost prohibitive. Compounds of concern within the soil included:

- BTEX (concentrations >300 µg/g)
- F1 & F2 (concentrations >2,800 µg/g)
- F3 & F4 (concentrations >1,000 µg/g)

Scope of Work

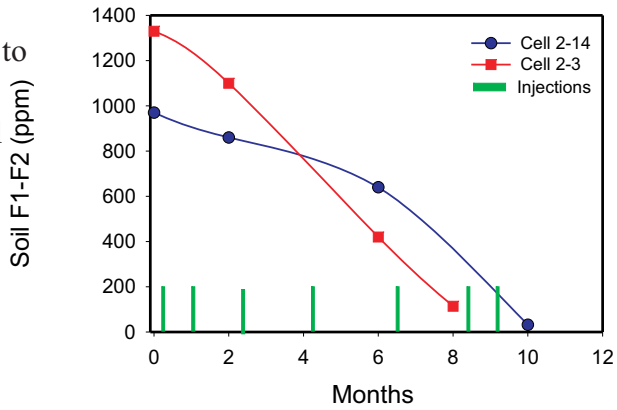
- Acquired all relevant permits to complete the remediation program
- Designed and optimized an in-*situ* program to maximize treatment efficiencies
- Implemented a program that minimized capital expenditures and infrastructure

The Vertex Approach

- In-situ chemical oxidation
- Multiple applications using direct push
- Injection of chemical oxidant
  - > 25,600 kg of RegenOx
- Injections completed using:
  - vertical direct push points

Outcome

- Over 250,000 L of oxidant solution delivered to impacted areas
- Greater than 90% of remediated to residential standards
- No surface infrastructure required
- RegenOx solution effectively distributed thoroughout impacts areas as confirmed by tracer and geochemical testing
- Record of Site Condition Obtained



Vertex combines strong theorical 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.

For more information contact
519.653.8444 www.vertexenvironmental.ca