CASE STUDY: Chemical Injection Program
Open Lot (Former Gas Station)

New Brunswick

Industry:

OIL & GAS

BACKGROUND:

SCG Remediation Services was contacted by one of its Engineering clients to design an injection program able to reduce benzene, toluene, ethylbenzene and xylene (collectively "BTEX") impacts in groundwater, and to mitigate the risk of off-site migration southwest of the property boundary of a former gas station (all equipment decommissioned).

With an innovative approach, SCG expressed interest in Chemco's Inc. **INTRASORP Colloidal Activated Carbon (CAC),** to be used for the installation of a permeable reactive barrier (PRB).

This injection is considered the first Intrasorp injection in Canada.

Intrasorp® CAC has superior subsurface mobility and contaminant adsorption capacity, making it perfect for this application.

General Scope of Work:

After reviewing site information SCG proposed a 3-phase chemical injection program which includes:

1. Forming an adsorptive/reactive zone for contaminants remediation and,
2. Subsequent degradation via chemical or biological amendments.

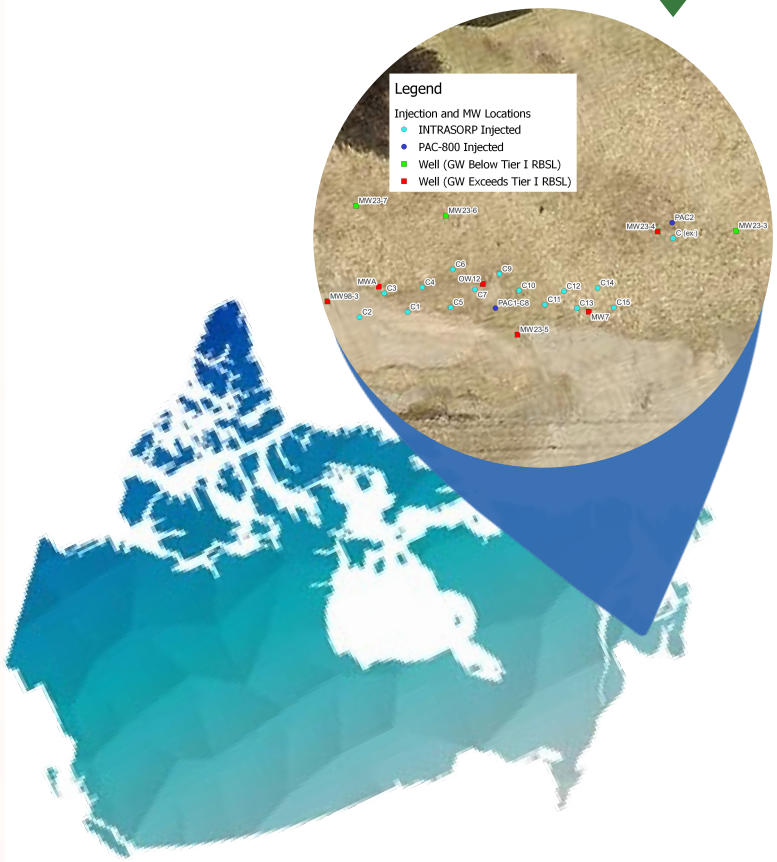
At the injection points for phase 1 of the injection program, **Intrasorp** was applied between 1.0 to 6.0 mbgs over an area of ~600 square meters (m2).

Summary:

A PRB was installed at the site with 15 injection locations using Intrasorp. After confirming the radius of influence of the injection, subsequent points were selected to create a barrier consisting of 2 rows of injection points.

Results:

To meet the budgetary needs of the client, SCG Remediation Services was able to tailor an effective multiple-phase approach (3 years), where the client will continue to monitor the site in between phases, to allow for the adaptation of the upcoming phases .



250 King William Road
Saint John, NB
E2M 5Y5, Canada

www.scgindustries.com

Ph: (506) 674-1081
Toll Free (888) REMEDI8 (736-3348)
Cell: (506) 608-5165
Fax: (506) 674-1082