

# Active Petrol Filling Station, North Italy

## In-Situ Enhanced Desorption of Petroleum Hydrocarbons



### Summary

After extensive operation, pump and treat at an hydrocarbon contaminated active petrol filling station, ceased recovering sufficient volumes of LNAPL; therefore, an alternative was required to improve the recovery of LNAPL on site.

### Treatment

Regenesi's PetroCleanze was injected across two extraction locations. Following application, PetroCleanze was left for a period of seven to fifteen days to actively desorb the LNAPL into the groundwater where it was then easily recovered using a vacuum extraction tract.

### Successful In-Situ Remedial Solution

Desorption of TPH was observed two hours after application (see image) and product was successfully recovered during the two vacuum extraction events - dramatically improving the recovery rate of previously observed on site and achieving removal of free product.

### Remediation Details

#### Site Type:

Active Petrol Filling Station

#### Project Driver:

Reduce Unacceptable Risk of contamination migration

#### Remediation Approach:

In-Situ Enhanced Desorption

#### Technologies:

PetroCleanze®

#### Geology

	Bedrock
	Gravel
	Sand (rocky moraine)
X	Silt
	Clay

#### Medium

X	Groundwater
	Saturated Soil
	Vadose Zone

#### COC

X	Petro HCs
X	Petro LNAPL
	Chlorinated VOCs
	Metals

#### COC Concentration Levels:

High concentrations of TPH including LNAPL

#### Mobilizations:

Two within 1 month

#### Injection Points:

Two injection wells