



Case Summary:

In-Situ Remediation by Soil Vapour Extraction and Groundwater Pump & Treat

Telluric Land Remediation Ltd has recently completed in-situ remediation of a commercial development site in southern England contaminated with petroleum hydrocarbons and chlorinated solvents. The remediation targets were achieved in approximately 12 months using a combination of soil vapour extraction and groundwater pump & treat.



The site was a former manufacturing works which used trichloroethene as a degreasing agent. The site was derelict at the time of remediation although the buildings were still standing. Remediation works were carried out prior to demolition and redevelopment.

Ground conditions essentially comprised Made Ground underlain by Terrace Gravels. Much of the solvent contamination was present in the unsaturated zone, smeared through the soil profile. However, significant hotspots of dissolved phase solvents were also present in the groundwater.

Fifteen abstraction wells were drilled to 8.0m and fitted with automatically operated borehole pumps. Additionally, one hundred and twenty soil vapour extraction boreholes were installed beneath the floors of the buildings.

Case Summary No. C759/1

The groundwater treatment plant comprised two 60m³ settlement tanks, an oil-water separator and an air stripper unit. Abstracted liquids initially entered the settlement tanks prior to the oil-water separator. Separated groundwater then passed through the air stripper for the removal of dissolved phase solvents, before discharge to sewer.

The treatment system removed approximately 4,500 kg of chlorinated solvents in the vapour phase and 200 kg dissolved phase in the abstracted groundwater.

www.telluric.uk.com

Tel 029 20453311

Fax 029 20453311



Telluric Land Remediation Ltd
Unit K1
South Point Industrial Estate
Foreshore Road
Cardiff
CF10 4SP

**CONTAMINATED LAND AND GROUNDWATER
REMEDATION CONTRACTORS**