

Bramford Road, Ipswich

Former Use: Former Laundry Site
Client: Leading developer
Value: £156,000

As part of site remediation works required to render a site suitable for redevelopment to housing, Provectus' staff undertook the design, installation, operation and monitoring of an in-situ groundwater remediation scheme to effectively reduce concentrations of chlorinated solvents including PCE and TCE. Concentrations of VOCs dissolved in groundwater presented unacceptable risks to a nearby surface watercourse, therefore required remedial action prior to construction. Wholesale excavation and removal of contaminated soils / groundwater was not considered economically viable, therefore an alternative and more innovative solution was adopted using an in-situ remediation technology procured from the USA.

The in-situ technology adopted, which had never been applied in the UK before, comprised air sparging with ozone and in-situ recirculation of groundwater. Using this method, concentrations of PCE and TCE were reduced in a 0.75 Hectare plume from an average of 10,000 µg/l in the plume to less than 100µg/l within 9 months of operation. Concentrations of the daughter degradation products DCE and vinyl chloride (VC) were also effectively reduced to below target levels during treatment.

Post completion monitoring and quantitative risk assessment confirmed that residual contaminant concentrations did not pose unacceptable residual risks to the surface watercourse

