

Remediation

Multi-Phase Extraction – Northern Italy.

Ecologia was appointed to design, manufacture and install a Multi-Phase extraction system at a chemicals facility in Northern Italy. The remediation contracting was undertaken by Ecologia following investigation and overall design by various consultants.

Multi-Phase Extraction (MPE) is a technique for removing liquids and vapour from the subsurface utilising the same extraction well. The technique can employ downhole pumps for the liquid phase and vacuum extraction for the vapour phase or, as was used at this site, a high vacuum pump extracts both liquids and vapour at the same time for above ground treatment.

The equipment was fully designed and built at our workshops in Kent including the design and manufacture of the control panel and telemetry system as well as the design and manufacture of the automated total volatile organic compound (TVOC) detection device.



The equipment is fully ATEX compliant and designed to be easy to use by site staff following training.

The MPE system has a volumetric capacity of 500 cubic metres per hour and is extracting from 12 dual phase extraction wells fitted with drop tubes (slurper pipes).

The design, manufacture and installation of the system was undertaken within a lump sum contract and was completed on time and within budget.