

## CASE STUDY CS778

**PROJECT:** *In situ* Remediation of Soil and Groundwater Severely Impacted by BTEX  
**CLIENT:** International Chemical Manufacturer, South England  
**DURATION:** Three Years  
**COST RANGE:** £500,000 to £1,000,000  
**STATUS:** Completed and Validated



### WORKS

- Design of remediation plant in line with information and brief from consultant.
- Project management and liaison.
- Manufacture, installation and commissioning of ATEX-compliant remediation equipment.
- Operation and maintenance of equipment.
- Provision of Environmental Permit and Environment Agency liaison.

### SYNOPSIS

The former industrial chemical manufacturing was to be redeveloped for industrial and domestic usage. Soil and groundwater had suffered extensive contamination from volatile organic compounds (including benzene and vinyl chloride) over a treatment area of some 20,000m<sup>2</sup>.

TRM constructed an extensive installation of surface laid collection pipework overlain by a purpose built impermeable barrier. The groundwater was sparged under a pre-determined regime, which liberated the volatile compounds for subsequent collection and destruction with an automated catalytic oxidiser which was optimised to operate in the auto-therm range.

This specified operating regime achieved efficient and effective remediation of the soil and groundwater. The entire system operated automatically by PLC with remote sensing, data acquisition and remote telemetry.



#### TRM

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