

CASE STUDY CS819

PROJECT: *In situ* Remediation of Petroleum Hydrocarbon Contaminated Soil and Groundwater

CLIENT: International Fuel Retailer, West Midlands

DURATION: Nine months

COST RANGE: £50,000 to £100,000

STATUS: Complete and Validated

**WORKS**

- Design of remediation scheme based upon consultant site investigation.
- Installation of boreholes, permanent buried pipework and permanent reinstatement.
- Installation and operation of an ATEX-compliant system
- Commissioning, operation, monitoring and optimisation of the remediation scheme.
- Completion and validation of the works to regulatory and client requirements.

SYNOPSIS

TRM was commissioned to undertake remediation works on an operational fuel filling station taking due regard of the restricted operating parameter in such an environment. The scheme was to be able to deal with limited free phase product but configured primarily to deal with vapour phase and dissolved phase contamination comprising lighter fraction petroleum hydrocarbons and BTEX.

The works involved the removal of controlled levels of flammable gas through the system along with significant quantities of contaminated groundwater which was stripped and filtered using high pressure vessels containing granular activated carbon prior to discharge to sewer under consent. The system was operational for a period of nine months after which time the target concentrations for the soil vapour and dissolved phase contamination were met and the site has been independently validated and signed off.



TRM

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