SUSTAINABLE REMEDIATION

case study

The contamination arose as the result of a fuel loss from a UST. The impacted area of 9,000m2 was located within a distribution yard.

The UST and associated pipe work were removed together with the most heavily contaminated soils.

Forty multi phase abstraction wells were installed on grid basis across the area of contamination. The installation works were scheduled in order to maintain 24 hour access to the distribution warehouse.

Recovery of free product proceeded in parallel with groundwater treatment and the remediation of the residual soil contamination.

Groundwater was treated on site to remove suspended solids and free phase/dissolved hydrocarbons prior to discharge to sewer under the terms of a trade discharge consent.

Client

International logistics network company

Site

Distribution terminal, Exeter, Devon

Problem

Contamination of soil and groundwater by diesel range organics

Technologies utilised

Multi phase extraction, vapour and liquid phase GAC absorption, phase separation, suspended solids removal

Remediation criteria

VOC's < 50ppm, groundwater TPH <17mg/l, soil TPH < 2,400mg/kg, Removal of free phase < 1.3mm

Validation

Project overseen and validated by an independent consultant

mel environmental solutions

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