



Ground Remediation Systems Limited

Reference - Explosion Proof
Mult-Phase Extraction System
with LNAPL Skimming

Soil and Groundwater Remediation

Water Treatment

Vapour Treatment

Design & Supply

Installation & Commissioning

Operation and Control

Project Management



For a
cleaner
world



Reference - Explosion Proof MPE System/LNAPL Skimming



Task	In-situ Remediation of fractured interbedded sandstone and mudstone
Contaminants	White Spirits & PCE
Location	Bradford, UK
Client	Major Multi-National
Period of Operation	2003 >
Technical Process	EX Rated High Vacuum multi-phase extraction system, Coalescer separation, oleophilic filtration, vapour phase activated carbon and LNAPL Skimmers
Rate	1000 m ³ /hr

Project Description

This project has entailed the installation of 29 recovery wells within a large building connected to the remediation system via 1 km of pipework suspended from the ceiling. Recovery wells are installed within subsurface well chambers and short trenches provide ducting for the pipeworks.

The remediation system includes Xitech ADJ 1000 smart skimmers for the recovery of floating white spirits (where present in substantial volumes) with low vacuum applied to enhance recovery.

The explosion proof high vacuum extraction system is equipped with a low vacuum and high vacuum header arrangement to facilitate simultaneous low vacuum SVE for the skimmer wells and high vacuum MPE (Bioslurping) in less permeable wells with less product volume

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