

In-situ Bioremediation of Contaminated Groundwater

- Installation of Remediation System on Active Petrol Forecourt
- Providing Support to Client with Preparation of Safety and Technical Documentation



Client:
AECOM

Nature of site:
Petrol Station in North
London

The challenge:

The remediation system needed to be installed within an active petrol filling station, with no interruption to day-to-day operations and under stringent health, safety and technical controls set by a multinational oil and gas operator.

Groundwater contamination required ongoing treatment, but the constrained site environment, existing well infrastructure and high-risk setting meant the solution needed to be low-impact, robust and carefully planned. Delivering effective remediation was only part of the challenge — ensuring the works could be undertaken safely, compliantly and with clear stakeholder communication was equally critical.

Our approach:

RemTech supported AECOM delivering an in-situ groundwater bioremediation system, based on the deployment of oxygen emitters installed within an existing network of monitoring and remediation wells.

RemTech focused on integration with the operational site, which included detailed planning, preparation of technical and health & safety documentation to ensure risks were properly identified and controlled before works commenced. Following installation, RemTech retained responsibility for system operation, maintenance and monitoring.

Outcome:

The works were delivered without incident, demonstrating that technically effective groundwater remediation can be achieved even within highly constrained, operational environments, provided it is supported by sound planning, clear documentation and experienced supervision.

Value Added:

RemTech provided hands-on technical input and close coordination throughout the project, supporting safe and efficient delivery on a live operational site. Early engagement and clear communication helped streamline planning, manage risk and minimise disruption to site operations.

The works demonstrate RemTech's ability to deliver and support low-impact, long-term remediation solutions within challenging environments, combining careful system design with ongoing operation and monitoring.