

CASE STUDY



EMERGENCY SPILL RESPONSE

MARCH 2025

GPT Consultants attended the site after a report that unauthorised visitors had trespassed and toppled several decommissioned transformers.

Approximately **600 litres of transformer oil had been released onto the ground**. Initial assessments suggested surface containment; however, during remedial works, it became evident that the oil had migrated vertically through the sandy soil to a significant depth, requiring a more extensive response.

AT A GLANCE

Challenges

- Oil spill migration
- Deep soil contamination
- Rapid response required
- Waste disposal compliance

Result

- Contamination fully removed
- Environmental impact mitigated
- Site safely reinstated
- Regulatory documentation provided



SCOPE OF WORKS

Upon mobilisation, the site was made safe and an environmental assessment was conducted to identify potential pathways and receptors. GPT field teams then commenced remediation works, which included:

- Initial site assessment and containment to ensure safety and identify environmental risks.
- Relocation of decommissioned transformers onto protective sheeting to facilitate safe collection
- Excavation and removal of contaminated soil, with over 106 tonnes of impacted soil removed
- Soil investigation and validation, including augered boreholes and field sampling to confirm contaminant removal.
- Site reinstatement using Type 1 MOT and quality topsoil from local suppliers (to PAS 100 specification), restoring original ground levels
- All excavated materials removed under controlled conditions, with waste transfer documentation provided to the client for regulatory compliance.
- Reporting and documentation, providing photographic evidence, consultant reports, and waste transfer notes.

OUTCOME

Using the **Source-Pathway-Receptor** model, the residual environmental risk was assessed as **low**, with no viable pollutant linkage remaining. This conclusion was based on site observations, validation sampling, and laboratory results.

As part of the project completion, GPT Environmental Consultants provided a comprehensive environmental report outlining the incident including a photographic log, the remedial actions undertaken, and final site validation results.

The emergency response and remediation works were completed efficiently and to a high standard, ensuring that the environmental impact was effectively mitigated. The site was returned to a safe condition, and all actions were appropriately documented to demonstrate compliance with environmental regulations.

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Need emergency spill response? Call us today on **01656 741799**

