

Cowley Road, Uxbridge

Our Services

- Phase I Desk Study
- Contaminated Land Investigation
- Sampling Strategy
- Source Pathway/Receptor Relationship
- Remediation Strategy/Design
- Remediation Supervision
- Validation
- Regulatory Liaison



Design and Implementation of Remediation Strategy

CGL was commissioned to design and implement a remediation strategy for the residential redevelopment of a goods vehicle depot in Uxbridge, Middlesex. The strategy adopted provided a sustainable, integrated and effective solution for a combination of problems.

Site investigation indicated a significant area of hydrocarbon contamination related to underground diesel storage tanks. The contamination was mainly within the Made Ground, but the lower depths of this were saturated by a high water table, resulting in a plume of hydrocarbon contamination in the local groundwater that could have impacted on the adjacent Frays River.

CGL produced a remediation strategy which comprised tank removal and stabilisation of contaminated soils within the hydrocarbon hotspot, using e-clay technology supplied by Enviro-treat. This avoided the need to excavate and dispose of material off site. It also minimised

the requirement for import of fill to restore the site to design levels.

In addition, the same e-clay technology was used to deal with groundwater issues. An active/passive barrier solution was proposed and accepted by the Regulators, subject to a year of post completion monitoring and quantitative risk assessment to determine the effects of the barrier on the ground and surface water.

E-clay treated soil was used to provide 'filter' zones within a cut-off barrier wall to prevent off site migration of the groundwater contamination. The barrier was constructed using CFA piles, installed by the same rig used to construct the structural piles for the development, thus minimising the need for mobilisation of additional plant. **CGL** supervised the remediation works, implemented within the existing construction programme, and provided validation documentation.

Client: Try Homes Limited