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Riverside Quarter, Wandsworth, Phase 2

Project Management of Soil and Groundwater Remediation with Geotechnical Design

A 3.6ha Thames-side site in Wandsworth is being redeveloped for residential use.

Industrialisation of the site began in the early part of the 20th century, with the construction of oil works and oil storage facilities. The site continued to be used as a fuel storage depot until its closure in 1991. The ground conditions comprise a variable thickness of Made Ground, overlying in turn clay Alluvium, sands and gravels, and the London Clay.

The Made Ground was contaminated with a mixture of petroleum hydrocarbons, phenols and assorted heavy metals. Two free product plumes, comprising biodegraded diesel, diesel and kerosene, were present. These plumes emanated from former oil storage tanks and were located on the surface of the perched water within the Made Ground. The low permeability Alluvium had retarded the vertical migration of contaminants.

CGL has been advising the Client since 2001 on three phases of the development. Prevention of contamination migration to the Thames has been one controlling factor in the development phasing and structure layout. CGL has project engineered remedial works and sub-structure layout design to minimise environmental risk as well as maximise recycling and re-use of materials on site.

The final phase of the development comprises five 10 to 15 storey tower units linked to a common two-level basement beneath all structures. CGL's role includes close working relationships with the regulatory authorities including the Environment Agency, Wandsworth Council and Port of London to ensure construction complies with government policy.



Client

Wandsworth Riverside Quarter Limited

Services

- Contaminated Land Investigation
- Phase 1 Desk Study
- Soil and Groundwater Analysis
- Remediation Strategy and Design
- Design of Gas Protection Measures
- Remediation Supervision
- Remediation Validation
- Geotechnical Design