

Wick Lane, London

Our Services

- Phase 1 Desk Study
- Contaminated Land Investigation
- Sampling Strategy
- Source Pathway/Receptor Relationship
- Risk Assessment
- Remediation Strategy/Design
- Containment Design
- Validation and Certification



Prevention of Off -Site Migration of Contaminated Groundwater

CGL was appointed to remediate this former industrial site in East London that had a long history of contamination from its use as a chemical works and glass factory

Site investigation by **CGL** confirmed up to 4m of fill contaminated with heavy metals, hydrocarbons, chlorinated solvents and inorganic contaminants such as cyanide. The underlying groundwater was also heavily contaminated with hydrocarbons

The fact that the River Lea formed one of the site boundaries was of great concern to the Environment Agency

CGL proposed the use of a vertical cut- off wall, formed using secant piling techniques, around the entire site, with permeable sections formed of organophilic clay at upstream and downstream locations. The clays act as a groundwater filter to absorb contaminants before they reached the river.

In areas where Thames Water services traversed the vertical cut-off wall at shallow depth, jet grouting was used as a quick and effective method to form an impermeable barrier

In addition, **CGL** validated the capping of the managed landscaping and gas membranes This form of remediation resulted in significant cost and time savings on behalf of the Client.

Client: Henley Homes