

Project Profile:

Lidl Store New Builds - Detailed Desk Study, with Generic Risk Assessment & Foundation Design Recommendations

Remada

Former Site Use: Various

Value: £28,000

Client: Lidl (UK) GmbH

Location: Northern England and Wales

Due Diligence

Desk Study

Intrusive Ground Investigation

Human Health Risk Assessment

Water Resource Risk Assessment

Mining Risk Assessment

Preliminary Foundation Design Recommendations

Remediation Strategies & Method Statements

Pre-acquisition Advice

Abnormal Cost Assessment

Materials Management Plans & Declarations

UST Decommissioning

Soil Bio-remediation

Soil Stabilisation

In-situ Groundwater Remediation

EA Remediation Permit

Verification & Completion Reports

Soil Treatment Facility

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Lidl (UK) GmbH commissioned Remada to investigate a series of brownfield and greenfield sites, identified as potential new store locations. The resultant site investigations comprised a Phase 1 desk study and Phase 2 ground investigation for the proposed development.



The Phase 1 desk studies reviewed historical mapping, published geological, hydrogeological and environmental data in order to form a preliminary conceptual site model with possible pollutant linkages. Exploratory locations were then selected to:

- enable investigation of soil and groundwater conditions
- environmental assessment; and
- geotechnical conditions relevant to the proposed commercial development.

The Phase 2 ground investigations included window sample boreholes, standard penetration tests, hand shear vanes, standpipe installation, in-situ permeability and subsequent gas monitoring with a landfill gas analyser. Soils samples were tested at a UKAS accredited geotechnical laboratory for classification and strength tests, and at a MCERTS accredited laboratory for a suite of chemical analysis, and waste acceptance criteria.

A soil and groundwater profile was then prepared for the site in order to characterise strata for proposed foundations and identified contaminants.



All report was complete with four weeks of instruction.

Preliminary design recommendations included:

- shallow foundations – swelling /shrinkage resultant depth, bearing capacity or pile load capacity
- assessment of the ground sulphate class; and
- ground gas protection measures.

Contaminant concentrations were compared with generic assessment criteria for the protection of human health, and separately water resource quality standards.

