

Project Profile:

Lidl Store Extensions - Desk Study, with Generic Risk Assessment & Foundation Design Recommendations

Former Site Use: Extension to existing Superstores

Value: £100,000

Client: Lidl (UK) GmbH

Location: Northern England and Wales

Remada

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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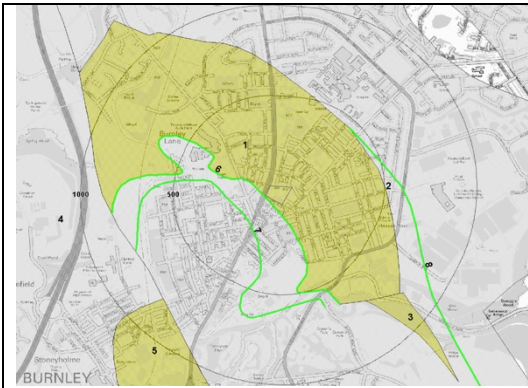
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Lidl (UK) GmbH commissioned Remada to investigate a series of existing store sites, prior to the construction of potential store extensions. The purpose was to determine historical environmental liabilities and provide preliminary foundation recommendations for the proposed extensions.



The Phase 1 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 retail development.

The ground investigations were planned to minimise disruption to customers and staff at the stores and enable continued trading.

Works 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.



All reports were completed within four weeks of instruction and preliminary design recommendations included:

- shallow foundations – swelling /shrinkage resultant depth, bearing capacity or pile load capacity;
- assessment of 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.

