

Project Profile:

Residential Development – Desk Study, with Generic Risk Assessment & Foundation Design Recommendations

Remada

Former Site Use: Residential Development of Greenfield Sites

Value: £42,000

Client: CPC Civils Ltd

Location: Various

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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CPC Civils Ltd commissioned Remada Ltd to investigate a series of brownfield/greenfield housing development schemes, combined with the demolition/removal of any existing structure/s. The site investigations comprised of a Desk Study and Intrusive Ground Investigation in order to meet planning conditions for the proposed developments.



The objectives of the phase 1 desk study comprised:

- a) assess the potential for previous contaminate use
- b) develop a conceptual of pollutant linkages; and
- c) geotechnical conditions relevant to the proposed residential development.

Dependent upon the site, the scope of ground investigation works comprised:

- trial pits & window sample boreholes for geotechnical and environmental purposes
- CBR tests for proposed roads
- plate bearing tests for proposed roads
- insitu geotechnical testing
- laboratory soil strength testing
- chemical analyses



The Interpretative Report presented 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.