

Substation Upgrade Works, The Midlands

Our Services

- Desk Study
- Topographical and Utility Surveys
- Structural Concrete Assessment
- Intrusive Ground Investigation
- Interpretative Reporting
- Project Management



Substation Upgrade Works and Intrusive Investigations

Through a respected reputation and vast experience of working within the power industry, **CGL** were commissioned by Western Power Distribution (WPD) to undertake a number of desk studies and intrusive investigations as part of planned refurbishment and upgrading works at substation sites across The Midlands.

Working to appropriate method statements and risk assessments approved by the client, **CGL** provided a number of services including:

- Project management of intrusive ground investigations,
- Interpretative geoenvironmental and geotechnical reports,
- Topographical and utility surveys, and
- Transformer concrete structural load base conditions and load bearing assessments.

To date **CGL** have been successfully involved with the inspection and assessment of ground conditions in over 40 Western Power Distribution substation sites, employing a variety of investigative techniques including hand

excavated trial pitting, dynamic probing and window sampling at both new and existing substation facilities.

Ultimately, our works and advice led to existing substructure plinths being suitable for re-use negating costly new foundation construction. In addition and where appropriate, recommendations have been made regarding contamination levels and potential liability.

Many of our **CGL** staff are National Grid trained 'Competent Persons', holding Basic Electrical Safety Competence (BESC) for both substations and overhead lines and have extensive knowledge of geoenvironmental investigations working within high risk substation environments.

Client: Western Power Distribution