

Site Investigation: Orchardside Nurseries

Former Use:	Farming Land and Nursery
Client:	London Borough of Enfield Council
Value:	£undisclosed
Area:	0.8Ha

London Borough of Enfield (the Client) commissioned Provectus Remediation Ltd (PRL) to undertake a Geoenvironmental Site Assessment for the subject site situated at the currently operational Orchardside Nurseries, Enfield. All works were undertaken as part of the North London Borough Council Framework, which Provectus are members of.

The site is a regularly shaped rectangular site, with an approximate site area of 0.8 ha. The site comprises, a nursery, a bungalow with associated garden and car parking area.

It is proposed to redevelop the site into a single storey Pupil Referral Unit (PRU). Several phases of site investigation were undertaken which comprised the following:

Phase 1

- Desk Study including site visit, historical review, environmental database and Preliminary Unexploded Ordnance (UXO) Risk Assessment report review.

Phase 2

- Four Cable Percussive boreholes up to 15 metres in depth, including standpipe installation.
- Ten hand dug holes to a maximum depth of 1.5m bgl to expose and ascertain existing foundation depths/structures.
- One Day Window Sampling at 10 locations across the site area to a maximum depth of 3.5m bgl.
- Three soakaway infiltration pits for permeability tests to establish infiltration rates onsite.



- Eleven plate bearing tests to enable future car parking, hard play courts and multi use games area subgrade design.
- In-situ geotechnical testing to provide adequate information to derive geotechnical parameters.
- Subsequent laboratory analysis of soil and groundwater samples for agreed determinants
- Soil gas and groundwater level monitoring.

A full interpretative report was compiled following completion of the site works and receipt of the chemical/geotechnical analysis. Recommendations were made for foundation/buried concrete design, and gas protection. In addition mitigation measures were proposed to deal with identified contamination.