GREEN GEN CYMRU

An Overview of GGC Surveys (Intrusive)

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Intrusive Survey Types

Potential survey types requited:

- **Boreholes (Non-Monitored)** - boreholes are drilled to gather information about the composition, structure, and properties of the subsurface. This information is vital for foundation design, groundwater assessment and other geotechnical and environmental investigations.

- **Boreholes (Monitored**) – these boreholes are carried out for the same purposes, however the boreholes will be continually accessed and assessed over time.

- **Trial Hole** - a trial pit is an open excavation used to obtain information about sub-surface ground conditions. Trial Pits give a direct visual inspection of the subsurface materials, allowing for easy sampling, testing and analysis.

Survey Equipment

The survey team may use any of the following equipment when carrying out the survey.

- Commercial Vehicles - 4x4, Van
- Tractor
- 360 degree Tracked Excavator
- Borehole Drilling rig
- Tracked Dumper
- Trailers (various size)
- Beavertail Lorries
- Water bowser (towable, static - i.e. IBC)
- Welfare unit
- Demarcation (temporary fencing - Heras, Chapter 8 barriers, Cones, stab sticks)
- General Site Signage
- Tool/COSH Storage
- Lifting Equipment (Pallet Forks, Lifting Chains, etc)
- Hand tools (including insulated hand digging tools)
- Powered Tools (Battery, Petrol)
- Survey Equipment (GPS, handheld California Bearing Ratio equipment; Thermal Resistivity Probe; CAT scanner CAT3/4/4+)
- Wooden Stakes
- Bio security implements (disinfectant, pump sprayer, brush, etc)
- Silt Traps
- Water pump with silt-trap
- Soil Sample containers (lined core boxes, Clear bags)
- Bentonite – An environmentally friendly, clay-like material used for backfilling boreholes

- Monitoring Gauges/Equipment (i.e. standpipes)
- Temporary Access panels - Timber Bog mats, Aluminium panels (if applicable)
- Generator
- Such other equipment as agreed in advance by the Licensor

Description of Works

Boreholes are undertaken to a maximum diameter of 200mm and maximum depth of 30m and will be appropriately backfilled upon completion, often on the same day. Some boreholes will have temporary standpipes (50mm HDPE plastic tubing) fitted after the initial survey visit, to allow the survey contractor to monitor groundwater and atmospheric gas levels at the borehole. Where standpipes are fitted, the survey contractor will require access to the borehole on 3 further occasions, scheduled at monthly intervals.

If monitoring gauge(s) need to be installed for Boreholes, they will be done so to the required depth and securely capped on completion. We will then be in touch with you in good time to schedule additional visits to monitor the water levels.

Trial pits are a maximum of 1500mm long, 600mm wide and 3500mm deep. All pits will be backfilled on completion with the excavated material (which will be appropriately stored), usually on the same day.

In all cases, once the surveys are completed, the survey contractor will reinstate the survey locations to match the existing surfacing. If backfilling of the borehole/trial pit cannot be completed on the same day for any reason, the area will be suitably fenced for Health and Safety purposes. The contractor will revisit your property as soon as possible to backfill and reinstate the area (the landowner is welcome to review and discuss the reinstatement before leaving site).

Pre-Survey Engagement

We would be grateful to receive information from you in advance of the survey(s) regarding any requirements you may have or other information you think we should consider when carrying out the surveys. These might include, but not be limited to the following:

- General health and safety considerations.
- Biosecurity measures in place. We welcome any information from landowners regarding our biosecurity protocol.
- Access arrangements – for example, restricted accessways, locked gates, security systems or parking requirements.

- Specific use(s) of the Land or activities carried out on the Land which are important for us to know for the purpose of the surveys.
- Location of livestock, known hazards on the Land, or issues concerning sensitive or valuable ecological receptors.
- The locations of any habitats used by protected species on the Land.
- Upcoming construction works, planting and / or maintenance on the Land.
- Any security concerns

Records of Condition

Prior to any survey works and access being undertaken, a record of condition will be undertaken. Another Record of condition will then be taken once all works are completed and all equipment has been removed from site. The record of condition will only show pictures that identify where the surveys will take place and the access points and routes. The record of condition can be made available to you on request.

Photographs of Boreholes





Photographs of Trial Pits





Photographs of Borehole Monitoring

