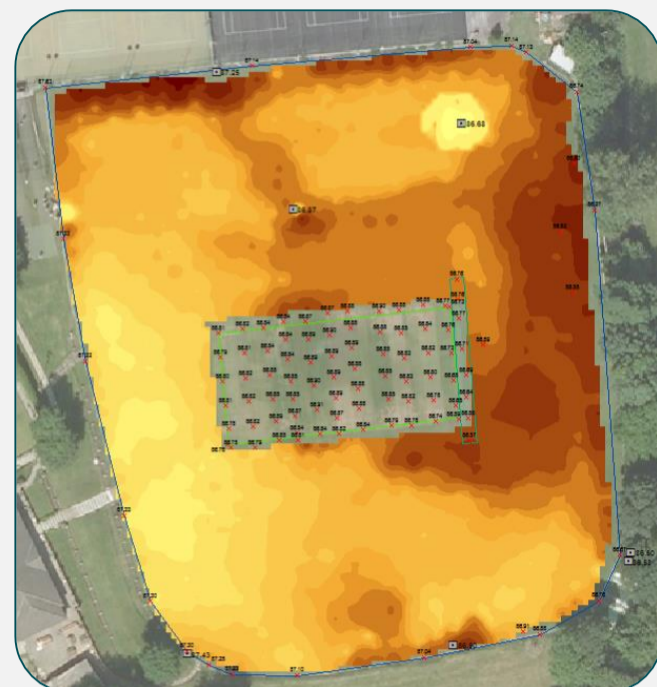


Electromagnetic Scanning & Topographic Surveys

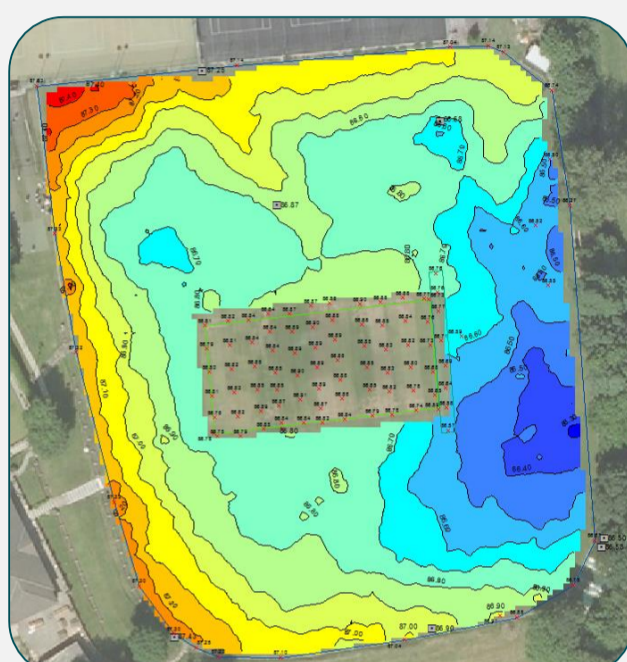
TGMS Ltd use the latest Electromagnetic Scanning technology, state of the art Leica Viva GPS and TPS equipment to provide topography, site features and spatial variation maps of the soil type and/or condition.



EMI Scan Map



Distribution of Scanner Data Points



Topography Map

Equipment

- Leica Viva GPS
- Geonics EM38 Dual Dipole Scanner
- Leica Viva TS15 Total Station

Outputs

- Soil variation maps at two depths - 0 to 0.75m (topsoil) and 0.75m to 1.5m (subsoil).
- Site Topography.
- Accurate position and elevation information on features such as inspection chambers, watercourses, ditches, existing pitch layouts and site boundaries.
- Topographic data supplied in a variety of formats, including AutoCAD dwg, dxf, pdf or hard copy up to A0 size.

Benefits

Electromagnetic Scanning

- Production of soil variability maps EMI scanning can detect details of under soil features (non-invasively) that would not be identified from a conventional site visit.
- Automated survey technique allowing accurate and dense sampling to be rapidly collected.
- An indication of soil variability across the site for both the topsoil (0 to 200 mm) and subsoil (0 to 1.2 m).
- An indication of the presence of buried infrastructure such as water mains and old land drainage systems (provided features are within the scanners depth range).
- Soil variation maps can be used for targeted soil sampling, thereby economising on the number of test pits that require excavation.

Topographic Surveys

- Assess pitch gradients in relation to PQS recommendations and the need, or otherwise, for re-grading or re-modelling.
- Determine the direction of natural drainage flow from the catchment in relation to determining a potential means of achieving efficient drainage outfall.
- Conduct 'cut & fill' calculations and outline drainage designs to determine accurate cost estimates.

For further details on the services that we provide please contact
Oliver Munro on 01525 307060 or oliver.munro@tgms.co.uk.