



Environmental
Geotechnical
Specialists



COMPREHENSIVE GEOTECHNICAL & ENVIRONMENTAL ENGINEERING SERVICES
DELIVERED USING OUR OWN DRILLING RIGS / CREWS / SOILS LAB / ENGINEERS

OUR PEOPLE YOUR SITE INVESTIGATION: HOW IT WORKS

The Engineering Team



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Following the vital preparatory work by the RGS Project Team, your site investigation is handed to our Engineering Team.

The engineers play a **key role** throughout the rest of your investigation, checking all information and plans and **directing investigations** both on your site and in the lab. As such, they work closely with the **Laboratory** and **Fieldworks** teams along the way. We'll look in more depth at the Lab and Fieldworks teams in later profiles, but here, we'll focus on the Engineers.

As a company, we're always keen to update you with any key information or advice that will help you **improve the ROI of your project**, so you'll probably get to know your RGS engineers quite well! The detailed report they prepare following their investigations gives you **clear recommendations** on how to achieve an informed, safe, viable and economical site project.

A. ENGINEERS' REVIEW

1 Phase 1 desk study

Many of our clients choose RGS to carry out their Phase 1 desk studies because they know the information we provide will be thorough and accurate, with helpful and practical advice on what to do next.

If your Phase 1 desk study has been supplied by a third party, we'll review the content and advise you accordingly.

2 Assess development plans

It's important to check and build on the development plans provided by your architect or structural engineer in order to adjust for any relevant impacts uncovered by the desk study.

For example, we might need to target particular areas of the site to inform foundation design or examine planning constraints regarding land contamination.

STAGE B > OVERLEAF

B. PHASE 2: INTRUSIVE WORKS

1 Fieldworks

Instructed by your RGS engineer(s), the Fieldworks team visits your site to carry out the drilling required for trial pits, boreholes and soakaway tests etc that provide the relevant rock and soil samples for testing and analysis.

The information obtained from on-site testing and sampling is vital for understanding the implications for any construction you want to do on your site.

We therefore focus our next steps on the accurate extraction and analysis of that information to maximise safety and ROI for you and your project.

2 Logging

The engineers then measure and record detailed information about the soil/rock samples.

Known as **logging**, this process enables an engineer to produce a 'ground model' for the development area: this is a visual representation of the site's different soil types, their strengths, potential history and so on.

We use this information to schedule the **appropriate geotechnical and chemical testing regime** for the proposed development.

3 Testing

A series of thorough geotechnical and environmental tests over the following ten days analyses all the logged materials.

This invaluable data shows whether the site is suitable for its proposed end use and, if so, gives the soil parameters needed to design safe, appropriate foundations for your project.

Should you require any provisional data at this point, we can provide borehole logs to help your architect or structural engineers to formulate their plans.

4 Gas and water monitoring

During the Phase 2 period, we carry out at least four separate checks on gas and water at your site.

Local authorities require these mandatory readings which must be taken under different atmospheric (i.e. weather) conditions. This can be tricky during extended hot or cold spells, so we sometimes have to be patient!

5 Your site report

Your comprehensive site report, which takes around five working days to compile, provides you with the clear and accurate recommendations you need to build safe and secure foundations for your development.

In addition, it gives you valuable information on any necessary remedial measures and environmental issues such as gas readings.

If we feel you need any further help from us (for example, the site might need deeper foundations) then we'll contact you at the earliest possible point to save you every bit of time and money that we can.



[GO TO STAGE C](#)

C. PHASE 3 ENVIRONMENTAL REMEDIATION

> Some Planning Authorities insist on this stage:

If they do, we'll give clear instructions and get you through it smoothly.

[GO TO STAGE D](#)

D. PHASE 4: THE VALIDATION REPORT

> Validation reports are often required by local authorities and mortgage providers.

These reports examine the finished build site and check that soils and other features are fully compliant.

[STAGE D COMPLETE](#)

THE WORK OF THE ENGINEERING TEAM IS NOW **COMPLETE**

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