



[rskgeosciences.co.uk](https://www.rskgeosciences.co.uk)

ABOUT US



RSK Geosciences, part of the RSK Group, is the UK's leading consultancy in land assessment and sustainable solutions for property and development, with more than 35 years of experience and expertise in:



We help our clients to realise sustainable opportunities and manage the potential liabilities associated with the acquisition, ownership, operation, development and divestiture of land. We work for both the public and the private sectors, including many of the UK's leading property developers, major and local housebuilders, utility providers and main contractors, local authorities and other government organisations. Our extensive network of staff based in offices across the UK enables us to respond quickly to client enquiries, mobilising the right staff promptly to deliver projects efficiently and effectively.

SERVICE OFFERINGS AND SECTORS



Our services cut across all sectors and can be provided individually, as part of a suite of geosciences activities or as one of many multidisciplinary offerings from across the RSK Group.

Geoenvironmental

- Contaminated land risk assessments
- Remediation design and verification
- Phase 1 preliminary risk assessments
- Phase 2 geoenvironmental assets
- Coal mining risk assessments
- Gas protection verification

Geotechnical consulting

- Desk studies
- Consultancy
- Design services
- Third-party asset protection
- Earthworks and construction supervision
- Expert witness services

Geophysical surveys

- Ground-penetrating radar (GPR)
- Electrical resistivity/conductivity
- Microgravity
- Seismic surveys

Geospatial surveys

- Topographic and volumetric surveys
- Bathymetric surveys
- Highways and rail surveys

Waste and resource management

- Waste and environmental permitting
- Material management plans
- Sustainable soil strategies

Sustainability and environmental services

- Environmental due diligence
- Silt and surface management
- Emergency response
- Nutrient neutrality
- Ground-related embodied carbon

Buried utility surveys

- PAS 128 GPR utility mapping surveys
- Desk-based utility reports
- Buried service utility reports
- PAS 128 surveys

SECTORS

- Residential development
- Government
- Commercial property
- Transport infrastructure
- Healthcare
- Energy infrastructure
- Education
- Renewable energy
- Water
- Waste management

OUR PEOPLE



At RSK Geosciences, our people are key to everything we do.

We proudly employ over 300 skilled professionals and support staff across 20 UK offices. We are committed to fostering an inclusive and supportive work environment, investing in the growth of our employees through continuous training and professional development.

Our workforce includes 66 chartered professionals across the following disciplines:

- Chartered Chemist
- Chartered Civil Engineer
- Chartered Environmentalist
- Chartered Geologist
- Chartered Scientist
- Chartered Waste and Resources Manager
- Chartered Water and Environmental Manager

We have a number of people across our teams who hold the following professional registrations:

- Specialist in Land Condition (SiLC)
- Society of Brownfield Risk Assessment (SoBRA)
- CL:AIRE National Quality Mark Scheme (NQMS) Suitably Qualified Person (SQP)
- Register of Ground Engineering Professionals (RoGEP)
- Level 4 NVQ Diploma in Verification of Ground Gas Protection Systems



AWARDS

Recognition of what we do is important for both our staff and our client base.

We have been shortlisted and have won awards at various industry events since 2017. Here are the most recent:

- **2024 Brownfield Awards: Winner** – Best Sustainable Re-Use of Materials
- **2024 Ground Engineering Awards: Winner** – Excellence in Learning and Development
- **2023 Brownfield Awards: Winner** – Technical Lead of the Year
- **2023 Ground Source Heat Pump Awards: Winner** – Outstanding contribution to the ground source heat pump sector
- **2022 Brownfield Awards: Winner** – Best Project Preparatory Work, **Winner** – Best Research, Innovation or Advancement of Science in the Brownfield Sector, **Winner** – Best Early Career Brownfield Professional

Our regional geoscience teams across the country work closely with our clients to design ground investigation services and carry out Phase 1 desk studies and Phase 2 detailed intrusive investigations; undertake contaminated land assessments; provide geotechnical services, external works and earthworks; produce remediation plans; and undertake verification. We employ SiLCs and our reports can be certified under the NQMS.

We advise on emerging contaminants such as PFAS and regular problem contaminants such as asbestos. We undertake qualitative and detailed quantitative risk assessments for soils, controlled waters and soil gases to define, refine and minimise remediation requirements. We also undertake CL:AIRE materials management plans for sustainable soil reuse, produce surface water and silt management plans for construction sites and undertake nutrient neutrality appraisals.

Through its partnership with the University of Surrey, Leap Environmental has developed Carbon Reduction Tools for assessing embodied carbon in foundations, earthworks and remediation projects, providing an options appraisal to inform management decisions at early stages of design.

SERVICES

Geoenvironmental

- Phase 1 preliminary risk assessments
- Phase 2 site investigations and geoenvironmental assessment
- Contaminated land risk assessments
 - 3D modelling of contamination
 - Human health detailed quantitative risk assessments (DQRA)
 - Site condition assessments
 - Groundwater DQRAs
 - PFAS and emerging contaminants assessments
- Asbestos in soils risk assessments
- Mine gas risk assessments
- Expert witness services
- Remediation design and verification
 - Gas protection verification
 - Groundwater NAPL remediation
 - Soil hydrocarbon remediation
 - Soil heavy metal remediation
 - Groundwater treatment
 - Clean cover validation
 - Soil vapour remediation
- Sustainability and environmental services
 - Environmental due diligence
 - Silt and surface water management
 - Emergency response services
 - Environmental permitting
 - Nutrient neutrality
 - Carbon Reduction Tools – earthworks, foundations and remediation

Our geophysics team is industry leading and has a long-established track record of providing high-quality, professional technical support services to the energy, property, transport and public sectors. It operates with minimal impact on site operations and other aspects such as ecological constraints and holds accreditation for working on a number of restricted sites, including within the rail environment, electrical and gas facilities, government sites and the highway environment.

Specific services offered include GPR, electromagnetics, electrical resistivity, magnetics, microgravity, seismic and surface waves and down-borehole geophysics.

The team advises on the correct application of individual techniques and provides expert survey design, execution and reporting services. Each particular method is rarely used in isolation; a reliable solution typically uses the combined results from several different methods. Our geophysics and ground investigation teams work together closely to design ground surveys. This approach provides a comprehensive and robust ground model, using intrusive and geophysical information.

SERVICES

Techniques

- Magnetics
- Resistivity
- Electromagnetics
- GPR
- Borehole geophysics
- Microgravity
- Seismic reflection and refraction
- Multichannel analysis of surface waves

Applications

- Urban and brownfield sites
- Geological surveys
- Landfill and contaminated land
- Structural investigations
- Unexploded ordnance surveys
- Voids and soft ground



Geospatial surveying

The geospatial team utilises the latest technology to collect, verify and process spatial data, providing professional advice and expertise to ensure cost-effective services for our clients. It has highly trained and competent staff who undertake a wide variety of site survey services. With teams located across the UK, it is able to offer solutions for clients throughout the UK and across all sectors.

Services offered include topographic and land surveys, measured building surveys, highways and rail surveys, high-accuracy settlement monitoring, volume and stockpile calculations, bathymetric and flood plain surveys and 3D laser scanning.

The team uses the latest equipment for topographical data acquisition, such as global navigation systems, total stations and 3D scanners. Surveys are completed to Royal Institution of Chartered Surveyors (RICS) standards for land engineering. It is experienced in working across all industry sectors, with relevant qualifications and certification for highway, rail, power, water, oil and gas and government, including the education, local, NHS and military sectors.

SERVICES

- Topographic and land surveys
- Measured building surveys
- 3D laser surveys
- Building monitoring
- Bathymetric surveys
- Rail surveys
- Floodplain and cross section surveys
- Volume and stockpile calculations



Geotechnical assessment of the ground and earth structures is an essential part of the construction and maintenance of sites. Often the biggest risks to any construction project are in the ground conditions and foundation design. Our geotechnical engineering consultancy team provides specialist consultancy and design services in the UK and internationally, undertaking assessments and designs for a wide variety of projects, from high-rise buildings and key infrastructure such as pipelines, roads and rail to renewable energy such as wind, solar and battery storage. It regularly advises on geotechnical issues surrounding new housing and large commercial developments.

The team undertakes detailed foundation design; complicated soil-structure interaction analyses and designs; ground stability and slope assessments; category 2 and 3 design checks and optimisation; ground movement assessments including building subsidence, karst/dissolution features and mining-related subsidence; and temporary and permanent work design. It is also able to act as an expert witness. Detailed ground investigations can be undertaken in-house or designed and put out to tender.

It provides initial viability input and support through development of the design and construction to help our clients find a pragmatic and cost-effective solution to foundation, foundation reuse, ground improvement and earthworks strategy. In addition, the team is able to undertake quarry and rock face inspections and remedial design with its Chartered Civil Engineer and Chartered Geologist teams that are competent to undertake and report on these crucial safety inspections.

SERVICES

- Geotechnical desk studies
 - Geohazard appraisals and GIS mapping
 - Coal mining risk assessments
 - Dissolution feature risk assessments
- Geotechnical consultancy
 - Foundation options appraisal
 - Foundation reuse appraisal
 - Slope/cliff stability assessments
 - Slope/cliff rope access inspections
 - Directional drilling feasibility studies
- Geotechnical design
 - Shallow/deep foundations
 - Retaining walls
 - Soil/rock slope retention systems
 - Earthworks design and specification
 - Ground improvement
 - Temporary works
- Third-party asset protections
 - Ground movement assessments
 - Basement impact assessments
- Building damage assessments
 - Buried services impact assessments
 - Network Rail BAPA support
- Earthworks and construction supervision
- Expert witness services

Waste and resources

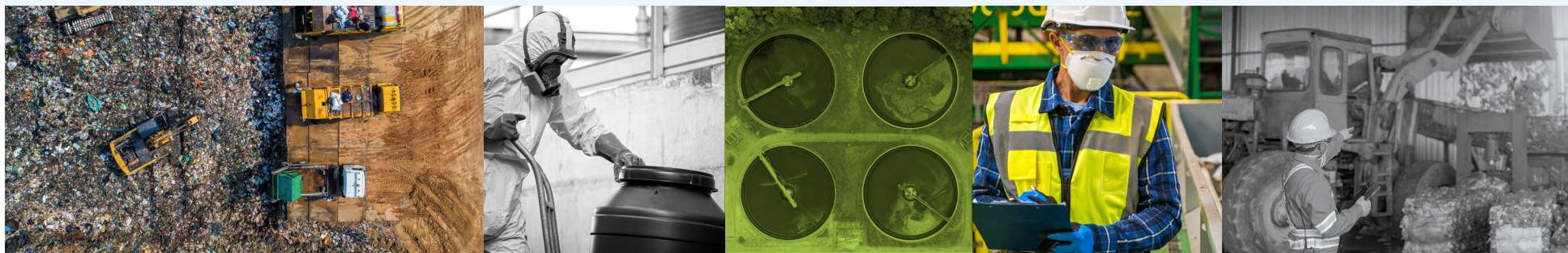
The waste and resources team can provide specialist advice, support and guidance relating to construction waste management activities to clients working across various sectors throughout the UK and further afield. The experienced team has a wide range of capabilities, including waste sampling and classification, environmental permitting, waste and material reuse optioneering, waste management training, permitted facility management, including Certificate of Technical Competence (COTC) cover, landfill management, discharge consent applications, due diligence auditing and legal waste management advice.

The team has varied industry and regulatory experience in waste and resource management ranging from waste sampling, classification and reuse strategies to in-depth auditing, preparing environmental impact assessment chapters and environmental permitting, including for landfills, deposit for recovery, waste treatment, transfer and storage sites.

The waste and resources team can provide an efficient 'one-stop shop', drawing in related consulting and contracting services from across the RSK family in relation to waste and resources management, including minimisation audits, design of waste facilities, installation of waste recovery systems, liquid waste management, asbestos management and removal and laboratory waste testing.

SERVICES

- Waste auditing and inspections
- Environmental permitting/licensing
- Waste and material reuse and CL:AIRE materials management plans
- Planning and construction waste and environmental management plans
- Waste sampling and classification
- Landfill management
- Waste and environmental management training
- Due diligence
- COTC compliance inspections
- Expert witness services



Buried utility surveys

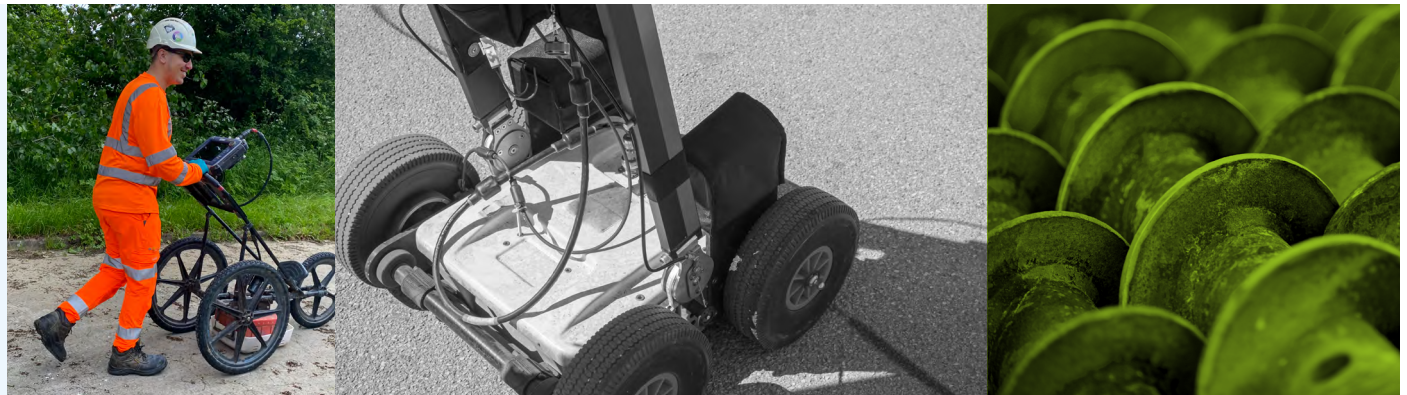
SafeGround is our specialist utility detection and mapping service, undertaking PAS 128 surveys and consultation on all aspects of buried utilities. It provides QL-D desk-based statutory services searches and reports, PAS 128 Type B, C and D utility mapping surveys, reports and 3D drawings in AutoCAD format that are BIM compliant. In addition to its standard electromagnetic location (EML) survey and cover lifting exercise, SafeGround deploys state-of-the-art GPR techniques to identify and resolve any non-conducting services (polyethylene gas or water pipes, PVC ducting, etc.). The use of multiple techniques ensures the highest detection levels of metal, plastic, masonry, ceramic, cables and buried structures, such as basements.

The team deploys GPR in a dense grid of orthogonal transects across the entire site to build up a three-dimensional map of the area. The GPR data collected are then processed in an office environment. This approach increases the potential to resolve multiple targets, which is of increasing importance in urban contexts. Plans can be tailored to suit the client's needs and are provided in a variety of formats. All GPR utility survey drawings are delivered in CAD and PDF formats with a PDF report and are to PAS 128 Type B survey standard. SafeGround is licensed by Ofcom for the use of GPR.

SafeGround also provides on-site service avoidance permit to dig systems for ground investigation work, giving the confidence to break ground ahead of trial pit excavations or borehole drilling. This is undertaken following Annex A of PAS 128:2022, which provides the requirements for buried utility detection and avoidance to support on-site permit to break ground procedures. While not mandatory, it is considered best practice in order to avoid buried service strikes during ground investigation works and is adopted by all RSK Geosciences teams when planning and undertaking all ground investigation work that requires breaking ground.

SERVICES

- Utility mapping
- Desk-based utility surveys
- Utility avoidance surveys



Locations and map

South East

- 1) Hemel
- 2) Crawley
- 3) London
- 4) Southampton
- 5) Tunbridge Wells

Midlands and South West

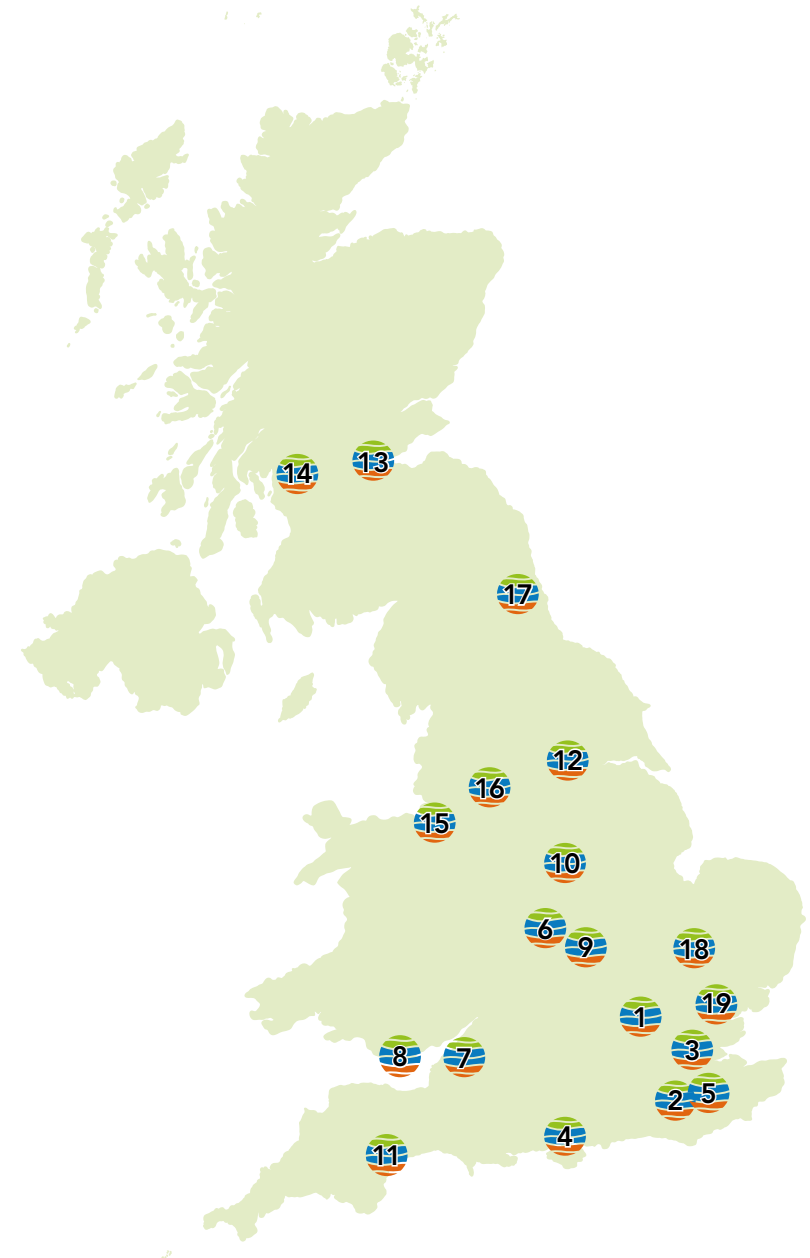
- 6) Birmingham
- 7) Bristol
- 8) Cardiff
- 9) Coventry
- 10) Derby
- 11) Exeter

North and Scotland

- 12) Castleford
- 13) Edinburgh
- 14) Glasgow
- 15) Helsby
- 16) Manchester
- 17) Newcastle

East of England

- 18) Cambridge
- 19) Chelmsford



Leadership team

Dave Anchor

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Darren Beesley

Operations Director

Georgina Donbroski

Technical and Quality Director

Dr Tom Henman

Sustainability and Innovation Director

Tim Grossey

Geophysics and Health and Safety
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Mike Owens

Training and Development Director

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