













Materials Testing

Environmental Scientifics Group's Geotechnical and Energy Division provide an extensive range of materials testing and assessment services to ensure quality of products and workmanship and compliance with regulations. Materials quality and structural integrity are paramount when making infrastructure, environmental and total life cost decisions. From simple materials sampling and analysis to the preparation and presentation of expert reports, ESG's Materials Testing services provide all the information required for well informed decisions.

Operating for over 25 years, ESG's Materials Testing services have consistently delivered recognised expertise, helping clients comply with standards and regulations relating to quality.

Services include:

-  Concrete testing
-  Aggregate testing
-  Bituminous materials testing
-  In situ lime and cement stabilisation testing
-  Earthworks compliance testing
-  Road pavement assessment
-  Structural investigations
-  Re-instatement inspections
-  Construction chemistry
-  Metallurgical and mechanical investigations
-  On-site laboratories
-  Materials consultancy



Materials Testing

ESG's Geotechnical and Energy Division operates a nationwide materials sampling and testing service supported by regionally based laboratories and expert technical consultancy. Projects vary in size from individual buildings to multi-million pound land reclamation and infrastructure projects.

More specifically our work has included a broad range of testing from analysing frost action on aggregates to the testing of inert waste for recycling, through to surveying road salt penetration in tarmac and assessing the risk of chemical attack on concrete.

Quality of Service

Our wide scope of sampling and testing methods are accredited by UKAS to comply with ISO 17025 and are supported by our internal integrated management system, the quality and environmental components of which are certified to ISO 9001 and ISO 14001.

Concrete Testing

With fully equipped field teams covering the UK, we are able to provide a comprehensive testing service to prove the quality of fresh and hardened concrete. This encompasses UKAS accredited on-site manufacture of cubes, workability and air content testing through to laboratory tests determining compressive strength, density and cement content.

Aggregate Testing

In line with current British Standards our experts complete a range of mechanical, physical and chemical tests on a wide range of primary and secondary (recycled) aggregates, to ensure they are fit for purpose.

Bituminous Materials Testing, Pavement Investigation and Reinstatement

Covering a range of road and pavement base materials, these services include checking the quality of both the material and its placement, as well as investigating problem areas and inspecting re-instatement works.

Structural Investigation

ESG's Materials Testing team have extensive experience in completing condition surveys together with destructive and non-destructive investigations on all types of reinforced and mass concrete, brick and steel structures including buildings, bridges, tunnels and viaducts.

Earthworks Compliance Testing

Earthworks collectively covers the excavation, transport and re-laying of materials in another location. ESG offer a range of tests to determine the suitability of excavated materials for reuse, where they can be used and the conditions they can be used under.

Metallurgy and Mechanical Testing

Within UKAS accredited laboratories we have extensive experience of metallurgical and mechanical tests for ascertaining material characterisation and identifying reasons for product failure. In addition we offer chemical analysis of raw materials, product testing to identify fitness for purpose, proof load testing, pressure testing and welder approval. In situ sampling and testing of steel structures is also offered in support of our structural investigation services.

Materials Consultancy

ESG's Material Testing consultancy and advice always sets out to find a successful design outcome. Established expertise draws on wide experience to find causes of failure and ascertain the quality of new works. In doing so, we help our clients to minimise project costs, maximise recycling opportunities, improve material durability and reduce the likelihood of early failure of projects.

So whether an innovative approach to materials and process solutions is required or the causes of construction failure need to be found, ESG provide all the support needed to protect material assets, production and use.

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