



# FUGRO

## SEDIMENT AND WATER QUALITY

**Fugro provides sediment and water quality services to support regulators and stakeholders in coastal, marine and estuarine environments. We routinely use data to support baseline ecological studies, environmental impact assessments and consent monitoring.**

### EXPERTISE IN SEDIMENT AND WATER QUALITY

Fugro provides an exceptional resource for water quality testing and the characterisation of marine and freshwater sediments, soils, effluents and sludge bio-products.

Our UKAS accredited testing laboratory in Portchester (ISO/IEC 17025:2005, No. 1272) has:

- A multidisciplinary team of experienced and highly qualified scientists
- A modern and extensively equipped laboratory
- Experience working internationally in a range of industry sectors – including oil and gas, ports and harbours, mineral and aggregates, marine renewables – as well as government bodies

### SEDIMENT SERVICES

Fugro's dedicated sediment laboratory offers a full range of testing capabilities that can be tailored to fulfil the requirements of clients and regulators alike. Our analytical range includes:

- Particle size analysis using wet and dry sieving (UKAS accredited for dry sieving)
- Particle size analysis using laser diffraction
- Total suspended solids (UKAS accredited)
- Total dissolved solids
- Total organic carbon
- Loss on ignition
- Sodium sulfate soundness testing of biological filter bed media



*Our scientists have established a reputation for providing high-quality sediment characterisation analysis.*



*Preparing equipment for total suspended sediment analysis.*

## WATER QUALITY SERVICES

We offer practical and innovative water quality services, including:

- Designated waters compliance monitoring and failure investigations
- Swimming pool and spa microbiological testing
- Facilities/ships water system monitoring/testing
- Discharge consent application, performance and compliance monitoring

## TRACER STUDIES

As well as particle size and chemical analysis, our laboratory specialises in using and supplying various tracers, such as:

- Microbiological tracers – including a suite of bacteriophages and *Bacillus atrophaeus* subsp. *globigii*
- Dye tracers – including fluorescein, rhodamine WT and B
- Fluorescent microspheres
- Seditrace™ (fluorescent silt tracers)
- Magnetic techniques

Our specialist tracing groups undertake all stages of tracer field work including dosing, sampling/monitoring and delivery to our laboratory for analysis and quantification.

## STAFF EXPERIENCE AND RESOURCES

Fugro's sediment laboratory can cope with large contracts and short time frames while consistently delivering accurate results. Our multidisciplinary scientists process grab, core and water samples using a range of cutting-edge analytical techniques and instrumentation.

Our staff's extensive experience enables them to provide expert advice and tailor laboratory analysis to meet specific technical needs.



Concentrated tracer sediment prior to release into the environment.

Our team understands the needs of our broad client base. It provides data for projects including baseline ecological studies, pre- and post-decommissioning surveys, wind farm construction, and long-term monitoring programmes, both within the UK and internationally.

## QUALITY ASSURANCE

Fugro has a fully integrated quality, health, safety, security and environmental management system that's certified to the international standards ISO 9001, ISO 14001 and OHSAS 18001.

Our sediment laboratory in Portchester is a UKAS accredited testing laboratory (ISO/IEC 17025:2005, No. 1272). It consistently demonstrates good performance in a wide range of external proficiency schemes, including Laboratory Environmental Analysis Proficiency (LEAP), Aquacheck, the National Marine Biological Analytical Quality Control (NMBQQC), Quasimeme and International Soil Exchange (ISE).



Preparing a sample for analysis using laser diffraction.



Sampling water quality.