

Chemistry Analytical Services



Providing a wide range of chemical testing performed by a highly skilled and qualified team of experienced scientists.

Chemistry Analytical Services

Fugro EMU Limited's ISO 17025 accredited chemical laboratory services cover the analysis of several environmentally significant chemical contaminants within sediment, soil, tissue and various water matrix samples.

Whilst we often collect our own samples as part of site surveys we routinely analyse samples collected by our clients or their third party agents.

Analytical Services

The analytical laboratory is staffed by highly skilled and experienced personnel who maintain our widely respected reputation for detailed hydrocarbon analyses in complex environmental matrices.

Using a variety of instrumental techniques including ASE, FTIR, GC (FID, μ ECD, TCD), and GC-MS the laboratory can provide testing for a large range of organic and organometallic pollutants. In addition to in-house testing capabilities we have long standing relationships with several major laboratories which allows us to offer an even greater range of services through a managed and strictly monitored subcontracting process.

Oil Spill Forensic Services

Fugro EMU is established as one of the market leaders in oil spill identification, offering specialist support to the MCA, ITOPF, IOPCF, local authorities and major oil companies. We have represented UK interests within the Bonn Agreement at several international workshops on the development of oil spill identification procedures and hosted the 2013 workshop in Edinburgh.

Our spill versus source oil assessments are carried out using the widely accepted practice of normalised diagnostic ratios and the statistical evaluation of critical differences. We make use of the Computerised Oil Spill Identification (COSI) database system for fast, reliable comparisons.



Taking in-situ chemistry measurements



Capacity to process large numbers of samples



Preparing oil samples for analysis

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Laboratory Testing

A selection of the primary testing we perform in-house is given below. If your specific tests are not listed here please contact us with your requirements.

- ¹ Total hydrocarbon content (TPH and speciated aliphatics) by GC-FID
- Oil and grease (gravimetric)
- Oil in water (GC-FID, FTIR)
- BTEX, VOC by headspace GC-MS
- Polycyclic aromatic hydrocarbons (PAHs) (EPA16 and alkylated 2 to 6 ring PAH)
- Halogenated organics (including PCBs) by GC- μ ECD and GC-MS
- SVOC (qualitative / quantitative)
- Organotin compounds (MBT / DBT / TBT) by GC-MS
- Characterisation of dredge material for disposal at sea (CEFAS / Marine Scotland Guidance)
- Alkylphenols and alkylphenol ethoxylates by GC-MS
- Volatile organic acids by GC-MS

Sampling Kits

In addition to providing analytical services our laboratory prepare and ship sampling kits to many destinations, including offshore platforms and vessels both in the UK and overseas.

Examples of Our Kits

- Produced water / sand sampling
- Dredge spoil sampling
- Sediments / soil sampling
- ROV sampling (cutting piles)
- Oil spill sampling`



¹ - a UKAS accredited testing laboratory No. 1272

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