



Environmental Solutions for the Oil & Gas Sector



Oil industry operators need reliable environmental information on which to base development decisions, to manage the impacts of their activities on the environment and to ensure compliance with regulations. At CEFAS we specialise in research, monitoring and interpretation to meet the diverse environmental needs of operators and their consultants.

With a wide portfolio of relevant scientific expertise and instrumentation we build integrated teams to provide innovative practical solutions based upon sound investigation, excellent facilities and expert assessment.

OFFSHORE CONSTRUCTIONS

PIPELINE AND CABLE LAYING

OIL AND GAS EXPLORATION

- Investigating local sediment dynamics and sea bed stability to determine pipeline security and environmental impact
- Assessing impacts of seismic surveys upon stocks of fish and shellfish, their behaviour (spawning, migration) and upon recruitment (larval dynamics).
- Impacts of developments on fisheries resources
- Baseline surveys of benthic species - identification and characterisation - for local and regional Environmental Impact Assessments (EIAs)
- Baseline information on the distribution and abundance of marine species
- Modelling of hazard and risk assessments and impacts of discharge plumes

OIL AND GAS EXTRACTION OPERATIONS

- Minimising environmental impacts of acute and chronic oil spills
- Advising on OSPAR compliant regulatory, monitoring and analysis regimes
- Assessments of acute and chronic toxicity, long term fate and effects, persistence and biodegradation of produced water, synthetic drilling muds and cuttings using bioassays
- Assessments of the oestrogenicity of substances
- Measurements of surfactant hydrophobicity, investigations of their bioavailability and their impact on the bioavailability of other substances
- Direct toxicity assessment of offshore discharges
- Testing products for non-standard effects

PLATFORM DE- AND RE- COMMISSIONING

- Investigations into the toxicity of contaminants associated with cutting piles under oil platforms
- Environmental assessments of cuttings pile management options
- Investigations into the beneficial effect of rig installations on fish populations, for example, as artificial reefs.



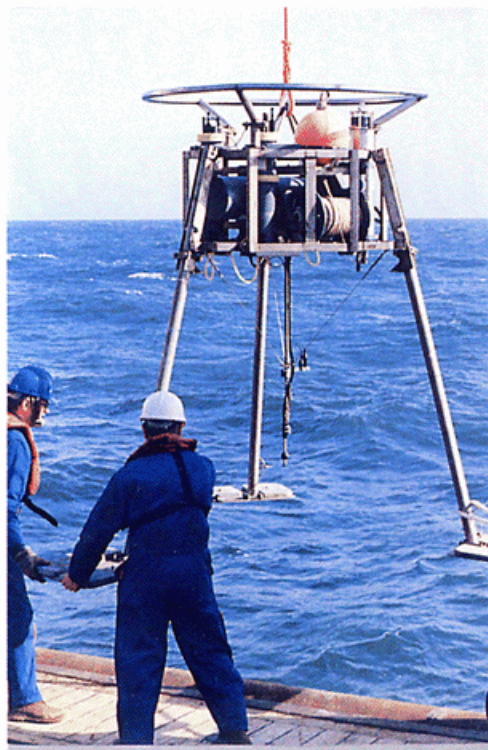
Skills and experience

CEFAS is a long-established research organisation with a thorough understanding of the complex processes taking place in coastal and offshore zones built up over the past 50 years.

To meet the demands of our own long-term assessment programmes and the needs of our customers for improved detection and measurement, we are specialists in applying new scientific techniques and developing novel instrumentation to deal with the challenges of monitoring and assessing the quality and status of hostile marine environments.

We are experienced in measuring environmental quality, modelling environmental processes and predicting environmental impacts. We offer our clients:

- research and technical expertise in the cost-effective collection of accurate and robust data
- a unique range of autonomous instruments developed by us, that use remote sensing to observe and measure marine environmental processes
- a new generation of self-contained and automated systems that offer cost-effective solutions to high frequency, multi-parameter data collection in the marine environment
- practical experience in operational monitoring and data processing
- experience in sediment and contaminant transport and deposition
- expertise in bioassays and trace analysis
- expertise in marine and environmental science to interpret these measurements to provide practical options for solving a broad range of environmental issues
- expertise in marine ecology, fish stock assessment and fisheries management



More information about CEFAS can be found on our website <http://www.cefass.co.uk>. Alternatively, to discuss your needs with one of our specialists please contact :



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