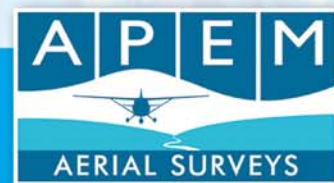
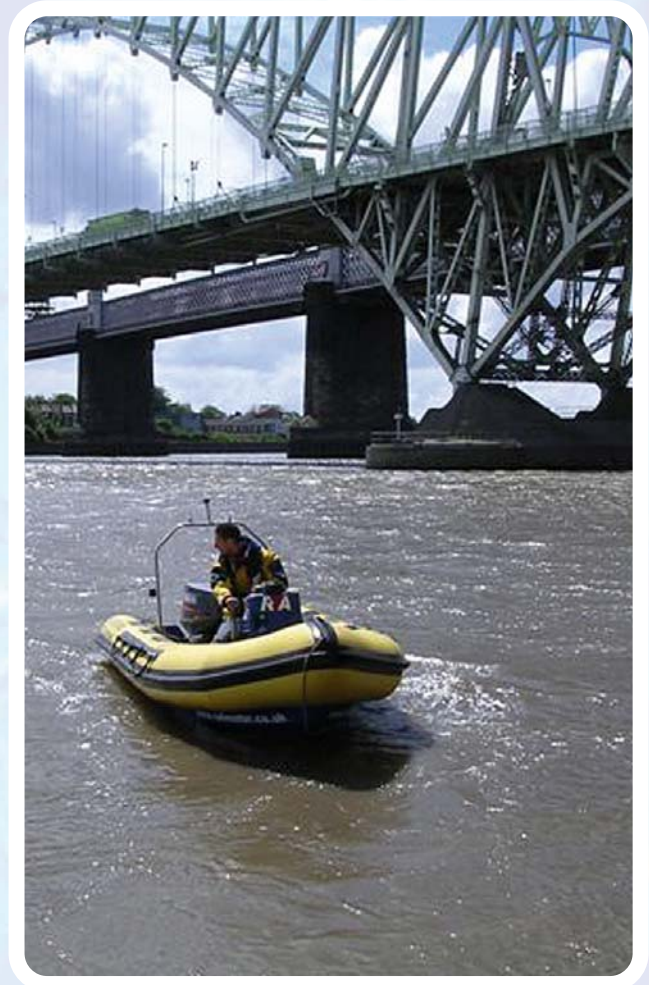




Marine & Estuarine Surveys

- UK-wide marine survey & monitoring projects addressing issues such as EIAs, development, coastal management, over-fishing, pollution & climate change
- Water quality assessment & management of a wide range of marine habitats including inland/coastal docks, marine lakes, estuaries & coastal waters
- Sampling from a range of survey boats & hovercraft
- Sampling tools for coastal, estuarine & salt marsh habitats including sediment grabs & cores, plankton trawls, fyke & seine nettings & sonar
- Biofouling investigations & remediation schemes to restore docks & coastal waterbodies
- Complete service including statistical analysis, scientific report production & expert interpretation of data



building reputation through excellence



What can we offer?

APEM has carried out hundreds of diverse assignments in estuaries, coastal waters and docks. Our multi-disciplinary, integrated approach to studying the marine environment covers water quality testing, the analysis and identification of marine macroinvertebrates and fish, and the assessment and management of macro/microalgae.

APEM's coastal survey vessel 'Pioneer' uses a 200 kHz scientific echosounder for marine fisheries assessment, macroalgal analysis, bathymetric profiling and sediment typing. Our advanced aerial survey capability, which uses cutting edge technology to produce extremely high-resolution images, is a unique tool in the surveillance of marine and intertidal habitats. We can also accurately map microhabitats by combining detailed digital imagery with advanced GIS techniques.

Why choose APEM?

APEM is a science-based consultancy, working exclusively within the realm of Aquatic Science for over 20 years. We operate UK-wide, providing a comprehensive, multi-disciplinary approach to the monitoring and management of aquatic ecosystems. Our scientists are recognised experts in their diverse and specialist fields. Our teams work to exacting standards and are committed to providing a professional, client-focused service across a wide range of marine and freshwater environments.

We have many years' experience of marine fisheries and the key role invertebrates, phytoplankton, zooplankton and macroalgae play in marine and coastal environments. We have conducted water quality management assessments in a wide range of marine and transitional water habitats. Our work to rejuvenate coastal waterbodies and docks through the use of biomanipulation and biofilters includes bespoke projects at Liverpool Docks and Market Dock, South Shields.

Who are our clients?

We work for a wide range of organisations including:

- Environment Agency
- Highways Agency
- Harbour authorities
- Water & power companies
- Renewable energy companies
- British Waterways
- Local authorities

Key projects

New Mersey crossing

APEM has been monitoring the Mersey Estuary since 2001 as part of the Environmental Impact Assessment for a proposed road bridge between Runcorn and Widnes. We have reviewed benthic invertebrate populations from historical and contemporary sources and considered these alongside data from our benthic algae, invertebrate and fish studies and water quality monitoring. Our specialists have also researched wildfowl and wading birds who use the estuary for feeding and nesting.

Barrow-in-Furness dock management

We have monitored the long-term ecological impact of a power station's heated effluent to a low salinity coastal dock in Barrow-in-Furness, Cumbria since 1988. The dock is a Site of Special Scientific Interest (SSSI) and subject to the Ramsar Treaty on world wetlands. APEM developed an innovative and sensitive management strategy encompassing all environmental aspects of the ecosystem subject to the dock's Integrated Pollution Control (IPC) consent to discharge.

Poole Harbour second bridge crossing

We helped to prepare an Environmental Impact Assessment for the Poole Harbour bridge crossing (Site of Special Scientific Interest, Special Protection Area and Ramsar Site). APEM collected and analysed benthic organisms from the backwater channel. Identifications were conducted to species level and biomass calculated for each of the major marine faunal groups. We analysed the data, commented on the significance of the benthic invertebrate community and outlined how it might be impacted by the bridge crossing.

Southport & Crosby marine lakes

APEM was commissioned to carry out an extensive ongoing monitoring programme at these urban, recreational marine lakes to inform a management plan for the treatment of algal blooms and macrophyte development. We regularly sample and test phytoplankton as a key parameter of water quality and ecological status. We have also carried out intertidal sampling and invertebrate community analysis along the Crosby foreshore.

Every day we deliver a professional, integrated service across all Aquatic Science disciplines. Every day our people raise the bar with their dedication to quality, integrity and impartiality. Every day we strive to exceed your expectations.

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