

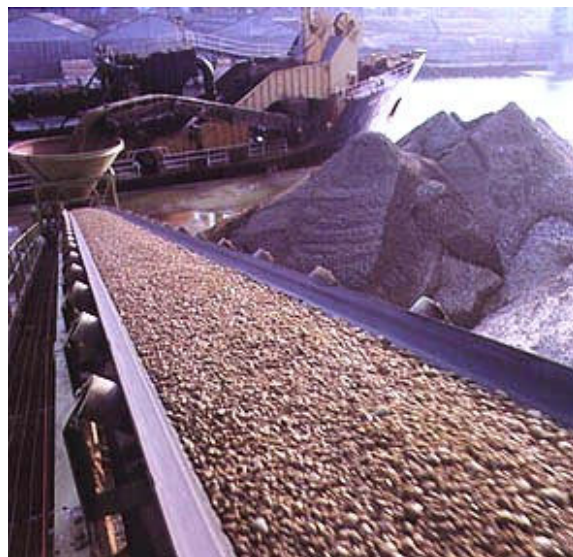
Marine Aggregates Industry Services

About

ABP Marine Environmental Research Ltd (ABPmer), a leading UK marine environmental consultancy, understands the challenges faced by the marine aggregates industry in fulfilling Environmental Impact Assessment (EIA) requirements and associated environmental monitoring in relation to industry licence renewals and new applications.

As a subsidiary of Associated British Ports, the UK's largest ports group, and thereby, its relationship with UK Dredging Ltd, ABPmer is an authority on dredging and its impacts and possesses extensive experience in undertaking EIAs, plume dispersal modelling and coastal impact studies.

With nearly 60 years experience in managing and contributing to integrated environmental projects across a wide of industries, ABPmer advocates a systems-based approach to the natural environment encompassing physical, biological and chemical processes, alongside development aspirations and management responsibilities.



Our areas of expertise:

- Appropriate Assessment
- Archaeological Survey & Assessment
- Coastal Impact Studies
- Constraints Mapping
- Ecological Survey
- Environmental Impact Assessment (EIA)
- Environmental Monitoring Programmes
- Geophysical Surveys
- GIS Mapping and Data Management
- Hydrographic Survey
- Licence Applications
- Numerical Modelling
- Plume Dispersion Studies
- Regional Environmental Assessments (REA)
- Research studies

All Marine Aggregate Dredging photos courtesy British Marine Aggregate Producers Association www.bmapa.org

Further Information

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Marine Aggregates Industry Services - Coastal Processes

Our Expertise in Coastal Process Assessment

Environmental impacts that may stem from changes to the morphology, hydrodynamics or sediment processes at a site are a key consideration for aggregate licence applications.

ABPmer's integrated capabilities enable us to undertake related coastal impact and plume dispersion studies in support of marine aggregate EIAs.

Processes Team

ABPmer has a dedicated team of physical processes specialists (geomorphologists, physical oceanographers and coastal scientists) who provide bespoke services to clients based on a multidisciplinary approach. The team typically uses and interprets output from numerical models, geophysical survey data, historical records of morphological change and broad scale conceptual modelling.

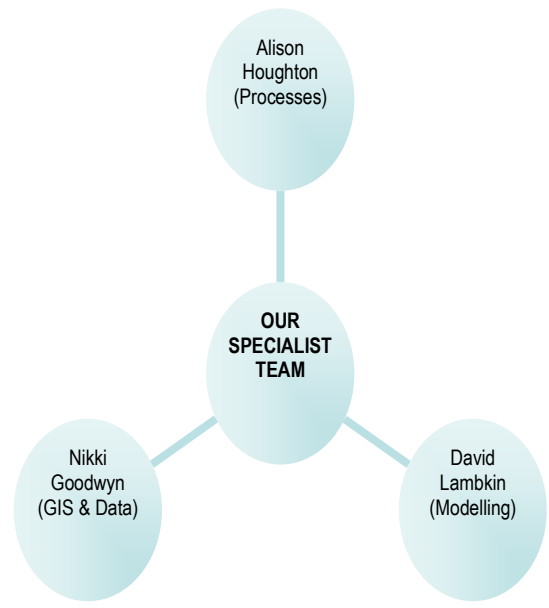
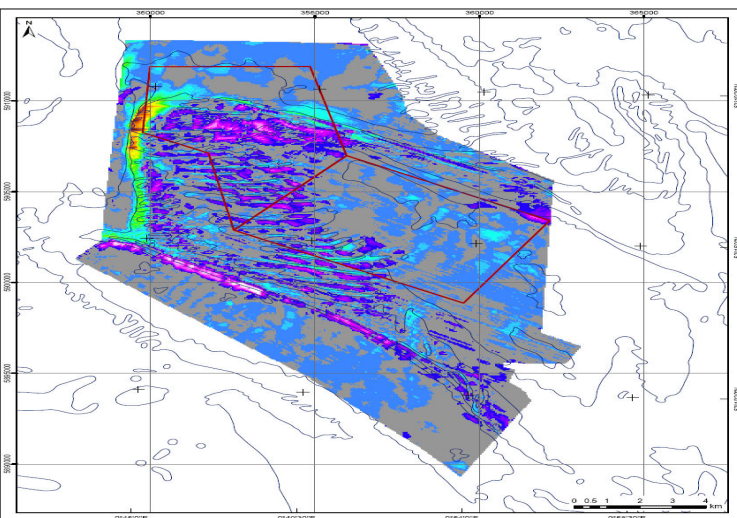
We offer the following services to support the marine aggregates industry:

- Geomorphological assessments
- Seabed mobility and sediment transport studies
- Coastal and nearshore seabed processes

Modelling Team

ABPmer's long established modelling team provides a comprehensive service to support hydraulic investigations of coastal and marine systems, offering assessments of flows, waves, sediment transport and water quality. We maintain a range of sophisticated numerical modelling software that could be used to support the marine aggregates industry including: MIKE FM – 2D and 3D and DELFT -3D (including SWAN wave modules).

These models would typically be applied to generate baseline conditions and to determine the extent to which dredging activity might induce: changes in tidal currents, changes in sediment transport pathways and hence sediment supply to the coast, and changes in wave refraction



Data Team

ABPmer's dedicated team of GIS professionals have developed a series of tools and techniques that resolve complex data analysis and information presentation issues. A broad range of leading industry software, including ESRI ArcGIS (including 3D and Spatial Analyst extensions), is used for the management and presentation of data.

Groundbreaking photorealistic 3D GIS visualisations provide powerful tools able to describe the features and processes within a proposed area of development or demonstrate change. Visualisations can also incorporate outputs from other ABPmer areas of expertise including: Coastal Processes, Numerical Modelling and Environmental Analysis.

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