



HR Wallingford
Working with water

Environmental assessment and management

Delivering excellence in environmental solutions



Environmental assessment and management

HR Wallingford is a recognised centre of excellence for civil engineering and environmental consultancy, with a specialism in port and dredging projects. We offer a full range of environmental solutions tailored to meet the individual needs of our client. Our 'added value' approach integrates environmental assessment into our modelling, dredging, flood risk and engineering advisory services.



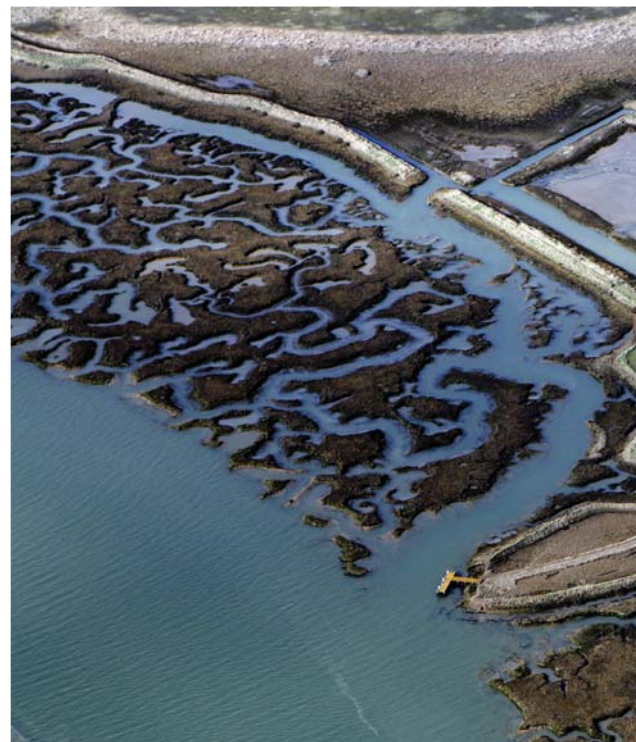
Environmental feasibility

- > Environmental constraints and opportunities mapping
- > Scoping of environmental studies, surveys and data requirements
- > Consultation with regulators and stakeholders
- > Outline of consenting requirements, process and timescale

Environmental Impact Assessment

Developers and consultants can select from a range of Environmental Impact Assessment (EIA) services.

- > EIA and preparation of Environmental Statement (ES)
 - specialism in port and dredging projects
- > Technical expertise
 - numerical modelling of fluvial, coastal and estuarine processes including flows and sediment transport
 - sediment and water quality
 - marine ecology
 - marine cultural heritage
 - navigation
 - flood risk assessment
 - water resources
- > Management Plans
 - environmental management plans
 - sustainable development plans
 - climate change plans
 - dredge management plans





Environmental solutions

- > Advice on the requirements of consents and application of environmental legislation
 - Marine and Coastal Access Act
 - Clearing the Waters Water Framework Directive Assessment
 - Habitats Regulations Assessment
 - Maintenance Dredging Protocol
- > Habitat creation studies
- > Managed realignment schemes
- > Delivery of beneficial use of dredged material schemes

Ecosystem management

We continually research and contribute to the best available science and translate it into practical modelling solutions to predict future changes in the most cost effective and innovative way. This approach ensures clarity in provenance for our methods and a clearly defined confidence in our results. Some of the emerging techniques we are developing include:

Ecological modelling

- > Habitat composition, evolution and function
- > Animal behaviour modelling (impact assessment tool for birds and fish)

Noise modelling

- > Species behavioural response to noise

Water quality modelling

- > Contaminant pathways and potential interaction with habitats
- > Multi-species algal and phytoplankton growth and distribution

GIS-based model output

- > Incorporating data layers on environmental sensitivities and environmental interpretation

Research and expert advice

- > Peer review of environmental statements and environmental reports for marine developments
- > Research and assessment to support the development of government policy or to meet policy objectives

