



AQUACULTURE: ENVIRONMENTAL SUPPORT

BMT Cordah Limited

With an extensive track record in Environmental Impact Assessment (EIA), dispersion modelling, environmental survey and consultancy support, BMT Cordah Limited offers proven environmental solutions to the aquaculture industry. With over twenty five years' experience working in coastal, marine and fresh-water environments in the UK and worldwide, BMT Cordah provides multidisciplinary, integrated consultancy services specifically focused on the needs of our clients.

Environmental Impact Assessment (EIA)

BMT Cordah has established an international reputation in EIA dating back to the early 1970s. EIAs have been undertaken for both private and public sector clients in the UK and overseas. We undertook one of the first detailed EIAs for a major salmon farming development. Most recently we have completed an EIA for a proposed large scale cod farm. BMT Cordah can provide all of the following EIA components:

- scoping;
- stakeholder consultation;
- baseline description;
- impact prediction and evaluation of significance;
- mitigation measures.

BMT Cordah also has experience of reviewing EIAs and providing training on the EIA process.

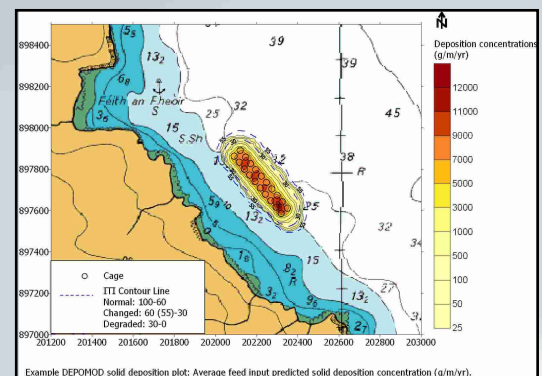
Marine survey

BMT Cordah has been carrying out marine environmental surveys in coastal areas of Britain and overseas for both baseline and monitoring purposes for over 25 years. We specialise in both the in-situ recording of benthic species and habitats using divers and remote sampling techniques such as grabs and corers. Specifically, BMT Cordah has experience of following SEPA guidance for the monitoring of benthic environments in relation to aquaculture developments. BMT Cordah has been involved in numerous surveys relating to the aquaculture industry from baseline survey in support of medicinal applications, to the monitoring of the effects of fish farm activities on benthic communities.



Modelling - solids waste

BMT Cordah has a dedicated modelling unit capable of providing all modelling support to fish farm operators. We have extensive experience of using the DEPOMOD model to predict the fate of fish farm solids waste in the marine environment and the likely ecological fate. As well as using the model for salmon farms, BMT Cordah has also manipulated input data in the model to make it applicable to cod and halibut scenarios.



Modelling - medicinal inputs

In addition, BMT Cordah model the fate of medicinal inputs using autoDEPOMOD and bath treatment modelling techniques.

Modelling - water quality

BMT Cordah is also able to offer box modelling of dissolved nutrients to predict the potential extent of elevated concentrations of nitrogenous and other wastes.

Hydrographic studies

BMT Cordah also has a team of hydrographers and marine scientists. We are able to offer a complete suite of services from the deployment and use of hydrographic meters to the full analysis and reporting of data to regulatory standards.

Aquaculture: The Team

BMT Cordah's aquaculture support unit consists of a multidisciplinary team of specialists from marine and freshwater biologists to EIA experts.

Trevor Baker: Principal Consultant

Trevor has thirteen years experience in aquatic ecology, the latter five with BMT Cordah. He has extensive experience of the EIA process, studying pollution ecology and has experience of working for a range of aquaculture operators.

Niall Bell: Principal Consultant

Niall has been a marine scientist and consultant with BMT Cordah since 1990. He has contributed to numerous EIAs, reviewed aquaculture ESs and is an experienced benthic ecologist.

Frank Fortune: Senior Consultant

Frank has been a senior consultant with BMT Cordah since 2001. He has considerable experience of working with regulatory authorities and stakeholders as well as extensive experience of the fish farming regulatory framework. Frank is experienced in marine survey techniques, particularly diver surveys and ROV.



Aquaculture: Experience and Clients

Aquaculture EIA

Annat Bay Marine Ltd

EIA in support of a new salmon and cod fish farm site on the west coast of Scotland. BMT Cordah carried out all aspects of the EIA process including all consultations. Specific sensitive issues raised related to wild fish interests and visual impacts.

Marine Survey

Hydro Seafoods (now Scottish Seafarms)

Faunal and data analyses for several fish farm sites in Scotland in support of the medicinal in-feed consent applications and routine environmental audit.

SOTEAG

Since 1976, BMT Cordah has been carrying out biological and chemical monitoring programme in Sullom Voe. Monitoring includes subtidal and rocky shore surveys.

Hydrographic studies

Marine Harvest (Scotland) Ltd

Hydrographic data collection, analysis and reporting for a new fish farm site in an environmentally sensitive location.

Aquascot Group Ltd (now Mainstream Scotland)

Analysis of hydrographic data for use in bath treatment modelling of medicinal inputs.

Modelling

Marine Harvest (Scotland) Ltd

DEPOMOD modelling of organic solids deposition for a full programme of farm sites as a component of their EIA programme of work. Modelling was carried out for salmon and (after modifications to the model) halibut sites.

Annat Bay Marine Ltd

DEPOMOD solids modelling for salmon and cod sites. DEPOMOD is designed to be used for salmon site modelling only. As such, this work involved modification of model parameters in order that accurate predictions could be made about the fate of waste in a cod farming scenario.

Mainstream Scotland Ltd

Medicinal treatment modelling for a number of salmon farm sites, including three in Orkney. The fate of treatment residues has been predicted for both bath (Azamethiphos and Cypermethrin) and in feed (Slice and Calicide) treatments in support of discharge consent applications to SEPA.



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