

# **Review of the Emamectin Benzoate Marine Sediment Environmental Quality Standards**

## **1. Introduction**

The Scottish Environment Protection Agency (SEPA) requires an independent expert contractor to undertake a review of the existing Environmental Quality Standards (EQS) for emamectin benzoate in marine sediments which are used in the regulation of discharges from marine fish farms.

## **2. Background**

Emamectin Benzoate is the active substance in the in-feed veterinary medicine, Slice which is used in the control of sea lice in marine cage fish farms. Emamectin benzoate is discharged from farms after treatment, in uneaten food and excreta from treated fish. Environmental Quality Standards for marine sediments were derived for Emamectin Benzoate to ensure adequate protection for the environment from the release of this substance. However, these standards were derived more than 10 years ago and methodologies for the derivation of standards and the aquaculture industry have changed over this time. In addition, further research and data may have been published. Therefore SEPA are commissioning this review of the emamectin environmental quality standards to ensure that they are based on the current data and best practice in the derivation of marine environmental quality standards.

## **3. Scope of Services**

SEPA require the contractor to review the existing regulatory EQS for emamectin benzoate in marine sediments (Regulation and Monitoring of Marine Cage Fish Farming in Scotland – A Procedures Manual Attachment XI: Guidance on the use of emamectin benzoate at Marine Cage Fish Farms; see attached document). The EQS is used in the regulation of discharges from marine fish farms, where emamectin benzoate is the active substance in the veterinary medicine, Slice an in-feed medicine used for the treatment of sea lice. SEPA require the existing standard to be reviewed in accordance with:

- the Water Framework Directive methodologies for the derivation of Environmental Quality Standards as laid out in the “Common Implementation Strategy for the Water Framework Directive (2000/60/EC) Guidance Document No. 27 Technical Guidance For Deriving Environmental Quality Standard” and,
- the Regulation and Monitoring of Marine Cage Fish Farming in Scotland – A Procedures Manual

The review of the standard will also need to consider whether the pattern of use has changed and whether this affects the derivation of the standard. Data on usage pattern is available from the Scotland’s Aquaculture website (<http://aquaculture.scotland.gov.uk/>). Further information on SEPAs policies on the regulation of marine fish farms is available on the SEPA website (<http://www.sepa.org.uk/regulations/water/aquaculture/fish-farm-manual/>).

## **4. Outputs and Milestones**

The output of this review will be a report which will include a:

- Literature/data search for ecotoxicity, environmental effects and impacts data for emamectin benzoate or the veterinary medicine, Slice.

- Review of available ecotoxicological data for emamectin benzoate.
- Derivation of near-field (within allowable zone of effects) and far-field (outside the AZE) EQS for emamectin benzoate residues in marine sediment in accordance with WFD methodologies.
- Critical review of data gaps and uncertainties.

## **5. Fees and Costs**

All Rates and prices shall be deemed inclusive of all additional expenses howsoever incurred but exclude VAT.

## **6. Evaluation of the Quote /Award Criteria**

Submitted tenders must include a method statement and CVs for all staff members. Tenders will be evaluated against the following criteria, with the following weightings applied:

- a. Technical Requirements (70% overall)
  - Understanding of requirements and methodology and approach (30%)
  - Technical Expertise, experience and track record (30%)
  - Experience and Availability (30%)
  - Sustainability (10%)
- b. Price (30% overall)

Where the price is over the available budget, SEPA reserves the rights not to progress the project.

## **7. Additional information**

### **a. Intellectual Property Rights**

All copyright and Intellectual Property Rights (IPR) will be transferred to SEPA in accordance with the Terms and Conditions.

### **b. Risks, Assumptions and Dependencies**

Within a tender submission the supplier should provide details of:

- Any assumptions they have made in their proposed solution,
- Any dependencies they have identified and
- Any risks they see in relation to delivering their proposed element of the project to time, scope and budget.
- Any dependencies on SEPA (e.g. provision of data/information, resource, access or funds), that, if not met, would affect the supplier's ability to deliver to time, quality or scope should be clearly highlighted.

### **c. Health and Safety**

Within a tender submission the supplier should provide details of health and safety provisions.

## **8. Sustainability**

The sustainability agenda is of growing importance to government and the wider public sector. SEPA has a responsibility to ensure that the services and products it procures align with the Scottish Governments aims for a sustainable future for Scotland.

As part of the Tender submission, Tenderers shall explain their organisations approach and commitment to social, economic and environmental sustainability both internally and externally through the supply chain.

## **9. Terms and Conditions**

The Terms and Conditions for Purchasing Goods and Services will apply to this purchase and can be found at [http://www.sepa.org.uk/about\\_us/procurement.aspx](http://www.sepa.org.uk/about_us/procurement.aspx)

SEPA reserves the right not to accept any Tender received which exceeds the stated budget or cannot be completed within the required timeframe. SEPA reserves the right not to continue with the project should the requirements for the project materially change.

Invoices can only be submitted on completion of the project and submission and receipt of all reports and data.

## **10. Tender Submission**

Tenders should be submitted electronically by **5pm on Friday 23rd September 2016** to [REDACTED] ([REDACTED]@sepa.org.uk). Tenders received after the deadline will be ineligible for consideration.

Tender submissions should include (but should not be limited to) the following information:

- Name of the tenderer(s), status in the organisation, and name of person for further contact (if different);
- A brief statement detailing an understanding and interpretation of the purpose, specific objectives and scope of the research;
- Details of the proposed methodology, searches to be undertaken, data to be used, plan and timescales including dates for the completion of the work as detailed in the specification;
- Curricula vitae of key staff involved including details of their role, their particular expertise and time input.
- Details of capacity, experience and track record of the tenderer in undertaking the review of ecotoxicology data and derivation of environmental standards.
- Contact details for two clients who have agreed to be approached to supply references in relation to this work;
- A clear statement of the tender price and costs and time for delivery.
- Day rates for each member of the team;
- Details of approach to quality assurance, health and safety and any other relevant procedures