Whiteshore Cockles Limited Whiteshore

New Permit Application
PPC/A/5001983

Non Technical Summary:

Whiteshore Cockles (the applicant) are applying for a PPC permit under Schedule 1, Section 6.8 Part A (b) of the Pollution Prevention and Control (Scotland) Regulations 2012. The application includes operating a 1.4MW boiler (regulated under the requirements of the Medium Combustion Plant Directive/ PPC (Scotland) Amendment Regulations 2017, Schedule 1, Section 1.1 Part B (d) of the Regulations.

Odorous non condensable gasses from the treatment process will be used in the combustion air feed for the boiler. The boiler will operate as an odour abatement method for these gasses in line Chapter V of the Animal by Product Regulations (ABPR). The regulation of the boiler and its emissions will be included in the PPC Permit authorised by SEPA.

The applicant proposes to treat and recover putrescible fish farm mortality waste as an alternative to the historic burial of the same waste at the proposed site. The proposed activity is an Animal Waste Rendering process with a maximum capacity of 48 tonnes / day and expected to operate 5 days per week. Seasonal variations in the volume of fish morts will affect daily processing rates.

Fish morts shall be transported to the site in sealed and covered skips where they are;

- Inspected for suitability in a **tipping trough**
- Size reduced in a **macerator pit**
- Dried for sterilisation and dehydration by a **rotating disc drier**.
- The drying process is by steam generated by a 1.4MW **biomass boiler**
- Separated into dry fish meal solids and fish oil liquid by **tricantor centrifuge separator**
- Gasses from the drying process are condensed to a liquid in an **air cooled condenser**

The inspection, maceration, drying and separation shall take place in two enclosed buildings;

- **Reception Building**
- **Main Processing Building**

Odorous air from these processes and buildings shall be captured and directed to two methods of odour abatement;

- Air from both buildings is extracted to a **wet chemical scrubber odour abatement system**.
- Odorous non condensable gasses from drying processes are used as **combustion air for the boiler**.

Energy & Fuel;

- **Diesel generator(s)** & fuel storage tank (plus standby generator) will be located at the site for electrical production.
- **Fish meal** solids produced by the process shall be used in the boiler as a fuel source. The Animal By-Products Regulations has provision for the combustion of meat and bone meal as a fuel and APHA have agreed that the regulation of the boiler will fall under SEPA's PPC remit as the boiler also serves as abatement for process odours.

Primary Wastes & Products;

- **Fish meal** solids not required for fuel in the boiler shall be stored on site in sealed bags and removed for offsite treatment by Anaerobic Digestion.
- **Fish oil** liquid from the separation process shall be stored on site and removed by road tanker for further processing in bio-diesel production.
- **Liquid Condensate** shall initially be removed offsite for appropriate disposal. The applicant has however indicated that the waste could be permittable to be applied to land as a waste with benefit to agriculture, if the necessary Waste Management Licensing requirements can be met.

Environmental Air Emissions;

- **Air emissions** from the **boiler** which involves the combustion of odorous gas emissions.
- Air emissions from the **wet chemical scrubber**, serving the process buildings and extracted air from waste storage tanks (which included activated carbon filtration).

Environmental Water Emissions;

- There are **no process effluents proposed to be emitted to the water environment** or to fowl sewer.
- **Surface water runoff** shall be directed to a soakaway via a full retention oil and silt separator.
- **Domestic effluent** produced in onsite amenities shall remain as per the existing septic and soakaway arrangement and emitted to the water environment. These will be regulated under SEPA's Controlled Activity Regulations and are not included within the scope of the PPC permit.