

Non Technical Summary

This application is for an Industrial Emissions Permit to carry out an activity falling within Schedule 20 of the Environmental Authorisation (Scotland) Regulations 2018. The Permit is required to allow MIALGAE LTD to use its patented technology to turn by-products from whisky production into a valuable omega-3 rich algae product.

A liquid co-product from whisky distilleries, known as pot ale, is delivered to the site by tanker and stored in holding tanks. The pot ale is then prepared and treated so it can be used as a food source for algae.

Once prepared, the pot ale is transferred to a bioreactor, where a carefully managed algae culture is added. Over several days, the algae grow by feeding on the nutrients in the pot ale and other added ingredients, producing a product rich in omega-3 oils.

After the growing process is complete, some of the water is removed, creating a thick algae paste. The separated liquid is stored temporarily before being transported off-site for treatment.

The algae product is then checked to ensure it meets quality standards. It can either be shipped to customers as a wet paste or dried into a powder. The drying equipment is located within the plant and includes systems to control odours.

The application is accompanied by a range of supporting information addressing the potential emissions and the environmental issues associated with carrying out the permitted activity, and the measures taken to minimise any potential risks to the environment