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Mr. Brian Glynn

Dr. Gabriel Kelly

On behalf of Dairygold Co-Operative Society Ltd and TINE Ireland Ltd

13 March 2019

Reg. No.: P1103-01

Regulation 10(2)(b)(ii) of the EPA (Industrial Emissions) (Licensing) Regulations 2013, in respect of a licence application from Dairygold Co-Operative Society Ltd and TINE Ireland Ltd for an installation located at Dairygold Co-Operative Society Ltd and TINE Ireland Ltd, Mogeely, Mogeely, Cork, P25Y996

Dear Sir or Madam,

I refer to the application for a licence received by the EPA on 13 February 2019.

Having examined the documentation submitted, I am to advise that the Agency is of the view that the documentation does not comply with the above mentioned legislation. You are therefore requested, in accordance with the regulations, to supply the information detailed below.

**Emissions to Sewer**

- Provide a letter of consent from Irish Water to discharge wastewater from the site to sewer.
- Provide consent from Irish Water on the acceptance of the sanitary effluent from the site to Mogeely WWTP.
- Provide an updated timeline for completion and commissioning of the wastewater treatment plant (WWTP) upgrade, onsite tidal holding tank and underground discharge pipeline from Dairygold/TINE to Rathcoursey.
- The wastewater discharge from Dairygold/TINE bypasses a tidal holding tank at Rathcoursey prior to discharging to the North Channel Great Island in Cork Harbour via a diffuser outfall. Confirm the combined (Irish Distillers (P0442-01), Midleton (D0056-01) and Dairygold/TINE (P1103-01)) discharge monitoring location. The monitoring location must accurately reflect the combined discharge and demonstrate compliance with the emission limit values set at WWDL D0056-01, primary discharge point code: SW01 MIDL, by applying a worst-case scenario.
- The primary discharge (SW01 MIDL) from Midleton WWTP shall discharge to the ebb tide only. Emissions to Sewer attachment in the application states that the period of

average emission is 12.5 hours/day. Provide detail on the operation of the proposed holding tank at the Dairygold installation. The response must include (but not limited to) the following:

- control of wastewater discharge during ebb tide only, considering the distance from the diffuser (>12km);
  - capacity of the holding tank;
  - response procedure in the event of an incident e.g. overflow from holding tank to the pipeline;
  - maintenance of the pipeline e.g. integrity testing / pressure testing to detect and repair faults on the pipe;
  - consider the reuse of treated wastewater in the process to potentially reduce dependency on groundwater abstraction.
- The WWTP upgrade will include grease removal, pH correction, DAF, Anaerobic and extended aeration, clarifier and a DAF sludge tank. Provide the manufacturers specifications in terms of emission limit values achievable from the WWTP for BOD, SS, TOC, pH, Orthophosphate, FOG's and any others as appropriate.
- Confirm (or otherwise) that the proposed maximum volumetric flow to be emitted to sewer from Dairygold is 4000m<sup>3</sup>/day.

### **Coastal Modelling**

- The data used to validate the model is from 2007 – 2014. Please revise model to reflect 2015 – 2017 data, as this is now available<sup>1</sup>;
- The model provided considers the data as an annual average which does not give a true reflection of possible impact. The Water Framework Directive status is determined by using winter and summer medians against salinity dependant thresholds. Revise/rerun the modelling to include both winter and summer seasons using the data from 2015 – 2017;
- Provide the model methods in the annex of the revised modelling report. This will enable the Agency to carry out a more detailed assessment of the model itself.

### **Appropriate Assessment**

- Update the Natura Impact Statement (NIS) to address mitigation measures. Attachment 6-3-7-NIS-Planning-Nov-2016, Section 8.1 (residual impacts) of the NIS states *'Provided that the mitigation measures (from section 7.8) are implemented in full, it is not expected that significant impacts will result to the features of interest identified for appraisal in this NIS'*. Section 7.8 appears to be missing from the document. Provide a clear, concise list of mitigation measures that will be implemented on site to avoid, reduce or offset negative impacts from the operation of the installation on SPA's and SAC's.

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<sup>1</sup> Contact EPA Marine Scientist Dr. Sorcha NiLongphuirt if you require further information on this data [S.Nilongphuirt@epa.ie](mailto:S.Nilongphuirt@epa.ie)

The mitigation measures should also include a timeline for implementation, a clear explanation of how the measure will address the likely significant effect from the continued operation of the installation and should mitigation failure be identified, how that failure will be rectified.

- *'Only WC5 discharges directly to a Natura 2000 designated area, namely Great Channel Island SAC, approximately 310m northwest of the intersection with the proposed pipeline. This stream is connected to Cork harbour SPA approximately 616m northwest of the intersection'*. Provide detail on the interaction between the water crossing and the wastewater discharge pipeline. List the methodology to be put in place to prevent any deterioration in water quality at this point considering the sensitivity of receiving waterbody.

### **Baseline Report**

- Having regard to the Screening assessment (dated August 2018) submitted with the licence review application, please provide a full Baseline Report having regard to European Commission Guidance concerning baseline reports under Article 22(2) of Directive 2010/75/EU.

### **BAT Conclusions**

- Tabulate all the relevant conclusions on BAT (Chapter 17) from the Final Draft BREF in the Food, Drink and Milk Industries (dated October 2018). This assessment is necessary as the final Commission Implementing Decision establishing BAT under the Industrial Emissions Directive 2010/75/EU in the Food, Drink and Milk Industries is due for publication in Summer 2019. This final draft BREF will provide a good indication as to what may be included in the forthcoming document. For each conclusion, state if it is in place or timeline for implementation. Where you do not propose to meet the requirements of a BAT, provides reasons.

### **Air Emissions**

- An odour control system will be installed as part of the WWTP upgrade to control and reduce odours from the site. The odour abatement unit (biological "shell" type Odour filter or similar technology) will treat pungent air to remove hydrogen sulphide, ammonia, organo-sulphur compounds and other VOCs.
  - Clarify and provide justification as to whether emissions through emission point A3-43 (WWTP odour treatment system) is a main or minor emission point;
  - The parameters of concern from odour is hydrogen sulphide, dimethyl sulphide and other mercaptans. Provide odour concentration values pre-and post-abatement, having regard to National BAT for the Dairy Sector;
  - Provide detail on the operation and control of the biofilter to ensure its efficient operation;
  - Where relevant assess the potential impacts of odour on sensitive receptors;

- Methane produced from the odour unit may have calorific value. Confirm and provide detail whether it can be reused as a fuel elsewhere in the installation.
- Justify why emissions from emission points A3-1 to A3-42 are considered to be, minor emissions. Provide monitoring data on what emission levels (mg/m<sup>3</sup>) and corresponding flow rates (m<sup>3</sup>/hr) are associated with emission points A3-1 to A3-42. These figures are required pre-abatement to compare with BAT associated emission levels for emissions to air.

### **Storm Waters**

Please note that storm water is rain water from roof and non-process areas. It is not run off from process areas likely to be contaminated.

- Attachment 7-7-1 Stormwater Monitoring states *Surface water Catchment 2 (existing Dairygold facility) is an existing storm drainage network and is currently discharging directly into the River Kiltha with no storm water attenuation on-site. This storm water drainage network will continue to discharge directly into the river without storm water attenuation as part of the new development.* Catchment 2 discharges via emission point SW4. Attachment 7-7 Storm Water Discharges, states that there is a monitoring chamber etc. at SW4. Please clarify.
- In the event that there is no attenuation at SW4, provide detail on response procedure in the event of an exceedance of a trigger level at this emission point.
- Submit action and warning trigger levels for TOC, pH and Conductivity at SW4 and SW5 so that in the event of exceedance stormwater can be diverted automatically to the WWTP for treatment.
- Confirm whether cooling water from condensers is discharged via storm waters.
- Is there firewater retention capability onsite to encompass entire installation? In the event of a fire, or a spillage on site, provide detail on the response procedure in place and whether there is suitable containment.
- Clarify the volume of vehicle wash water that will be produced per day and provide details of options for treating and disposing of vehicle wash water;

### **Landspreading**

- The application states that production of *dairy sludge fertiliser* will increase in quantity from 915 tonnes/year to 2771 tonnes/year. Provide an updated nutrient management plan (NMP) to reflect this proposed increase and include information to ensure that the landspreading of sludge is managed in accordance with national legislation.

In addition to the above, please also provide an updated non-technical summary (Application Form, and EIS where applicable) to reflect the information provided in your reply, insofar as that information impinges on the non-technical summary.

The requested information should be submitted to the Agency within **four months** of the date of this notice, in order to allow the Agency to process and determine your application.

It should be noted that the eight-week period within which the Agency is to decide the proposed determination will commence on the day on which this notice has been complied with. If you have any further queries please contact [licensing@epa.ie](mailto:licensing@epa.ie).

In the case where any drawings already submitted are subject to revision consequent on this request, a revised drawing should be prepared in each case. It is not sufficient to annotate the original drawing with a textual correction. Where such revised drawings are submitted, provide a list of drawing titles, drawing numbers and revision status, which correlates the revised drawings with the superseded versions.

Your response to this request is to be submitted via EDEN. Guidance on how to use this portal is available on the EPA website at <http://www.epa.ie/pubs/forms/lic/industrial%20emissions/licenceapplicationformguidance.html>.

Please direct any queries to [licensing@epa.ie](mailto:licensing@epa.ie).

Yours faithfully,

Environmental Licensing Programme  
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