

# Notice of variation and consolidation with introductory note

**The Environmental Permitting (England & Wales) Regulations 2016**

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Unilever UK Limited

Gloucester Ice Cream Factory  
Corinium Avenue  
Barnwood  
Gloucester  
GL4 3BW

**Variation application number**

EPR/AP3530KM/V006

**Permit number**

EPR/AP3530KM

# Gloucester Ice Cream Factory

## Permit number EPR/AP3530KM

### Introductory note

#### **This introductory note does not form a part of the notice**

Under the Environmental Permitting (England & Wales) Regulations 2016 (schedule 5, part 1, paragraph 19) a variation may comprise a consolidated permit reflecting the variations and a notice specifying the variations included in that consolidated permit.

Schedule 1 of the notice specifies the conditions that have been varied and schedule 2 comprises a consolidated permit which reflects the variations being made. All the conditions of the permit have been varied and are subject to the right of appeal.

This consolidated permit has been issued following a full review against the best available techniques (BAT) conclusions for the Food, Drink and Milk Industries published on 4<sup>th</sup> December 2019 in the official journal of the European Union.

We have implemented the requirements of the Medium Combustion Plant directive and incorporated post-dated requirements for 2025.

The schedules specify the changes made to the permit.

The main features of the permit are as follows.

The installation manufactures a range of ice cream and frozen desserts products for U.K., European and worldwide markets. Manufacturing activities include mixing, pasteurising, homogenising, chilling, extrusion, refrigeration, packing and wrapping, auto – palletising and cold storage.

The activities directly associated with the manufacture of ice cream include storage and handling of raw materials and product storage and use of detergents for cleaning processes, refrigeration plant, combustion plant, effluent treatment plant, and storage of waste. Air releases include oxides of nitrogen and other products of combustion from a 5.67MW<sub>Th</sub> combined heat and power plant (which provides electricity, steam and hot water to the installation) and two boilers, with a rating of 5.69MW<sub>Th</sub> each. At the time of writing combustion plant are natural gas fired and this is retained within the permit however as of March 2024 biogas will be blended with natural gas in one of the boilers. In addition, the boilers can operate on light fuel oil as a back-up.

The site has a surface water drainage system that can discharge to Horsebere Brook via W1; although this outlet is currently blocked off and all water is returned to the effluent lines, the consent to discharge is maintained (for uncontaminated site drainage only). Effluent is treated on site in an anaerobic treatment plant prior to discharge to sewer via S1. This reduces the chemical oxygen demand of the discharge to ensure compliance with the trade effluent consent and generates biogas.

There are no emissions to land from this installation. Recycled waste streams include metal, cardboard, liquid ice cream and effluent sludge, with other solid wastes being sent for recovery or to landfill as a last resort. Liquid waste goes into the effluent stream for treatment on site to recover recycled material before going off-site for final treatment by Severn Trent Water Limited. Hazardous waste is disposed of via accredited and approved procedures. The site operates an Environmental Management System which follows the principles of ISO 14001 and has in place a Climate Change Agreement. To the North-west of the site lies the Birmingham-Bristol/London railway line, with a playing field and housing estate beyond. To the south and east lie major "A" roads. The Cotswold Beechwoods SAC is 5km from the installation.

The status log of a permit sets out the permitting history, including any changes to the permit reference number.

<b>Status log of the permit</b>		
<b>Description</b>	<b>Date</b>	<b>Comments</b>
Application SP3632SC received	30/03/05	
Additional information received	20/06/05 26/07/05	
Permit determined	01/11/05	
Transfer application EPR/AP3530KM/T001 received	02/07/09	
Transfer determined	21/07/09	
Variation application EPR/AP3530KM/V002 received	07/07/09	
Additional information received	29/07/09 16/09/09 30/09/09	
Variation determined	21/10/09	
Agency variation determined EPR/AP3530KM/V003	23/07/13	Agency variation to implement the changes introduced by IED.
Application EPR/AP3530KM/S004(part surrender)	Duly made 06/07/17	Application to amend the installation site boundary.
Additional information received	19/07/17	Updated site plan showing green site boundary.
Additional information received	28/09/17	Updated site plan including the cold store area.
Additional information received	16/10/17	Confirmation that no incidents have taken place on the area of land where the cold store is situated, appropriate pollution prevention and control measures have been taken, and that the area of land where the cold store is situated is in a satisfactory state.
Part surrender determined EPR/AP3530KM (Billing reference: MP3135YK)	25/10/17	Part surrender and Varied permit issued.
Application EPR/AP3530KM/V005 (normal variation)	Duly made 13/05/19	Application to add a further production line similar to existing process.
Variation determined EPR/AP3530KM (Billing reference: VP3032QB)	01/08/19	Consolidated and Varied permit issued.
Application EPR/AP3530KM/V006 (variation and consolidation)	Regulation 61 Notice response received 11/08/2022	Environment Agency initiated variation and consolidation following the Food, Drink & Milk Industries sector permit review.
Additional information received	23/11/2023	Additional information including an inventory of cleaning chemicals, refrigeration systems, surface water protection, biogas storage and site condition.
Variation determined and consolidation issued	19/12/2023	Varied and consolidated permit issued in modern format

<b>Status log of the permit</b>		
<b>Description</b>	<b>Date</b>	<b>Comments</b>
EPR/AP3530KM (Billing ref. HP3545QM)		

End of introductory note

# Notice of variation and consolidation

## The Environmental Permitting (England and Wales) Regulations 2016

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2016 varies

### Permit number

EPR/AP3530KM

### Issued to

**Unilever UK Limited** (“the operator”)

whose registered office is

**Lever House  
3 St James Road  
Kingston Upon Thames  
KT1 2BA**

company registration number 00334527

to operate a regulated facility at

**Gloucester Ice Cream Factory  
Corinium Avenue  
Barnwood  
Gloucester  
GL4 3BW**

to the extent set out in the schedules.

The notice shall take effect from 19/12/2023

Name	Date
Beccy Brough	19/12/2023

Authorised on behalf of the Environment Agency

## **Schedule 1**

All conditions have been varied by the consolidated permit as a result of an Environment Agency initiated variation.

## **Schedule 2 – consolidated permit**

Consolidated permit issued as a separate document.

# Permit

## The Environmental Permitting (England and Wales) Regulations 2016

### Permit number

**EPR/AP3530KM**

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/AP3530KM/V006 authorising,

**Unilever UK Limited** (“the operator”),

whose registered office is

**Lever House  
3 St James Road  
Kingston Upon Thames  
KT1 2BA**

company registration number 00334527

to operate an installation at

**Gloucester Ice Cream Factory  
Corinium Avenue  
Barnwood  
Gloucester  
GL4 3BW**

to the extent authorised by and subject to the conditions of this permit.

Name	Date
Beccy Brough	19/12/2023

Authorised on behalf of the Environment Agency

# Conditions

## 1 Management

### 1.1 General management

1.1.1 The operator shall manage and operate the activities:

- (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and
- (b) using sufficient competent persons and resources.

1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.

1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.

### 1.2 Energy efficiency

1.2.1 The operator shall:

- (a) take appropriate measures to ensure that energy is used efficiently in the activities;
- (b) review and record at least every four years whether there are suitable opportunities to improve the energy efficiency of the activities; and
- (c) take any further appropriate measures identified by a review.

### 1.3 Efficient use of raw materials

1.3.1 The operator shall:

- (a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;
- (b) maintain records of raw materials and water used in the activities;
- (c) review and record at least every four years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and
- (d) take any further appropriate measures identified by a review.

### 1.4 Avoidance, recovery and disposal of wastes produced by the activities

1.4.1 The operator shall take appropriate measures to ensure that:

- (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and
- (b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and
- (c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.

1.4.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.



## **2 Operations**

### **2.1 Permitted activities**

- 2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the “activities”).
- 2.1.2 For the following activities referenced in schedule 1, table S1.1 (AR2) The activities shall be undertaken in accordance with best available techniques.
- 2.1.3 All process plant and equipment shall be commissioned, operated and maintained and shall be fully documented and recorded in accordance with the manufacturer’s recommendations.

### **2.2 The site**

- 2.2.1 The activities shall not extend beyond the site, being the land shown edged in green on the site plan at schedule 7 to this permit.

### **2.3 Operating techniques**

- 2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.
- 2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation (“plan”) specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan , and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 2.3.3 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 2.3.4 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:
  - (a) the nature of the process producing the waste;
  - (b) the composition of the waste;
  - (c) the handling requirements of the waste;
  - (d) the hazardous property associated with the waste, if applicable; and
  - (e) the waste code of the waste.
- 2.3.5 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.

### **2.4 Improvement programme**

- 2.4.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by the Environment Agency.
- 2.4.2 Except in the case of an improvement which consists only of a submission to the Environment Agency, the operator shall notify the Environment Agency within 14 days of completion of each improvement.

## **3 Emissions and monitoring**

### **3.1 Emissions to water, air or land**

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.1, S3.2 and S3.3.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.
- 3.1.4 For the following activities referenced in schedule 1, table S1.1 (AR3 CHP and boilers 1 & 2) The first monitoring measurements shall be carried out within four months of 01/01/2025 or of the date when the MCP is first put into operation, whichever is later.

### **3.2 Emissions of substances not controlled by emission limits**

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour, but including ammonia) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.2.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;
  - (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 3.2.3 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.
- 3.2.4 The operator shall implement a leak detection and repair (LDAR) programme to detect and mitigate the release of volatile organic compounds, including methane from diffuse sources.

### **3.3 Odour**

- 3.3.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.
- 3.3.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency for approval within the period specified, an odour management plan which identifies and minimises the risks of pollution from odour;
  - (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

### **3.4 Noise and vibration**

- 3.4.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any

approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.

3.4.2 The operator shall:

- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;
- (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

## **3.5 Monitoring**

3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:

- (a) point source emissions specified in tables S3.1, S3.2 and S3.3.
- (b) process monitoring specified in table S3.4.

3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.

3.5.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.

3.5.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1, S3.2, S3.3 unless otherwise agreed in writing by the Environment Agency.

## **3.6 Pests**

3.6.1 The activities shall not give rise to the presence of pests which are likely to cause pollution, hazard or annoyance outside the boundary of the site. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved pests management plan, have been taken to prevent or where that is not practicable, to minimise the presence of pests on the site.

3.6.2 The operator shall:

- (a) if notified by the Environment Agency, submit to the Environment Agency for approval within the period specified, a pests management plan which identifies and minimises risks of pollution from pests;
- (b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

# **4 Information**

## **4.1 Records**

4.1.1 All records required to be made by this permit shall:

- (a) be legible;
- (b) be made as soon as reasonably practicable;

- (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
- (d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:
  - (i) off-site environmental effects; and
  - (ii) matters which affect the condition of the land and groundwater.

4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

## 4.2 Reporting

4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.

4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) each year. The report(s) shall include as a minimum:

- (a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;
- (b) the annual production/treatment data set out in schedule 4 table S4.2; and
- (c) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule.

4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:

- (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
- (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4; and
- (c) giving the information from such results and assessments as may be required by the forms specified in those tables.

4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.

## 4.3 Notifications

4.3.1 In the event:

- (a) that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—
  - (i) inform the Environment Agency,
  - (ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and
  - (iii) take the measures necessary to prevent further possible incidents or accidents;
- (b) of a breach of any permit condition the operator must immediately—
  - (i) inform the Environment Agency, and

- (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
  - (c) of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.
- 4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 Following the detection of an issue listed in condition 4.3.1, the operator shall review and revise the management system and implement any changes as necessary to minimise the risk of re-occurrence of the issue.
- 4.3.4 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.
- 4.3.5 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:
  - Where the operator is a registered company:
    - (a) any change in the operator's trading name, registered name or registered office address; and
    - (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.
  - Where the operator is a corporate body other than a registered company:
    - (a) any change in the operator's name or address; and
    - (b) any steps taken with a view to the dissolution of the operator.
  - In any other case:
    - (a) the death of any of the named operators (where the operator consists of more than one named individual);
    - (b) any change in the operator's name(s) or address(es); and
    - (c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.
- 4.3.6 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:
  - (a) the Environment Agency shall be notified at least 14 days before making the change; and
  - (b) the notification shall contain a description of the proposed change in operation.
- 4.3.7 The Environment Agency shall be given at least 14 days' notice before implementation of any part of the site closure plan.
- 4.3.8 Where the operator has entered into a climate change agreement with the Government, the Environment Agency shall be notified within one month of:
  - (a) a decision by the Secretary of State not to re-certify the agreement;
  - (b) a decision by either the operator or the Secretary of State to terminate the agreement; and
  - (c) any subsequent decision by the Secretary of State to re-certify such an agreement.

## **4.4 Interpretation**

4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.

4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made “immediately” in which case it may be provided by telephone.

# Schedule 1 – Operations

<b>Table S1.1 activities</b>			
<b>Activity reference</b>	<b>Activity listed in Schedule 1 of the EP Regulations</b>	<b>Description of specified activity</b>	<b>Limits of specified activity</b>
AR1	Section 6.8 Part A1 (d) (iii) (bb)	Treatment and processing, other than exclusively packaging, of animal and vegetable raw materials (other than milk only),  Manufacture of ice cream and ice cream related products	From receipt of raw materials delivered to the site to the dispatch of finished produce over 13 production lines.  Production capacity is limited to 90 tonnes per day.
AR2	Section 5.4 Part A(1) (a) (i)	Disposal of non-hazardous waste with a capacity exceeding 50 tonnes per day (or 100 tonnes per day if the only waste treatment activity is anaerobic digestion).	Transfer to effluent treatment plant and release to sewer.  Effluent treatment through filtration, balance tanks, Dissolved Air Flotation (DAF) and secondary biological treatment in anaerobic digestion (AD) plant.
<b>Directly Associated Activity</b>			
AR3	Steam and electrical power supply	Medium Combustion plants: 5.67 MWth natural gas fired CHP 1 x 5.6 9MWth natural gas boiler with gas oil as a back-up fuel 1 x 5.69MWth boiler fired on a blend of natural and biogas (with gas oil as a back-up)	From receipt of fuel to release of products of combustion to air.  Operating hours firing on gas oil restricted to <500 hours per year in the case of interruption of gas supply only
AR4	Raw material storage and handling	Storage and handling of raw materials at the installation	From receipt of raw materials to dispatch of final product.
AR5	Use of refrigerants	Use of refrigerants in cooling, chilling and/or freezing systems at the installation.	From receipt of raw materials to dispatch of final product.
AR6	Storage and use of chemicals and oils	Storage and use of chemicals and oils at the installation.	From receipt of chemicals and oils to disposal of wastes arising.
AR7	Waste storage and handling	Storage and handling of waste materials	From generation of waste to storage pending removal for disposal or recovery.

<b>Table S1.1 activities</b>			
<b>Activity reference</b>	<b>Activity listed in Schedule 1 of the EP Regulations</b>	<b>Description of specified activity</b>	<b>Limits of specified activity</b>
AR8	Surface water drainage	Collection of uncontaminated site surface waters	Handling and storage of site drainage until discharge to the site surface water system.
AR9	Emergency flare operation	D10: Incineration on land	Undertaken in relation to Activity AR2 From the receipt of biogas produced at the on-site anaerobic digestion process to incineration with the release of combustion gases. Use of 1MWth auxiliary flare required only during periods of breakdown or maintenance of the biogas utilizing boiler.
AR10	Gas storage	R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	Undertaken in relation to Activity AR2  Storage of biogas produced from on-site anaerobic digestion of permitted waste in one stand-alone tank.  From the receipt of biogas produced at the on-site anaerobic digestion process to despatch for use within the facility.

<b>Table S1.2 Operating techniques</b>		
<b>Description</b>	<b>Parts</b>	<b>Date Received</b>
Application AP3530KM	The response to questions 2.2 and 2.3 of the application	30/03/05
Variation V002	Application Letter	07/07/09
Variation V002	Response to further queries	29/07/09, 16/09/09 & 30/09/09
Variation V005	Application forms parts C2 and C3 and referenced supporting information	Duly Made 13/05/19
Variation V005	Response to further queries	17/05/19
Regulation 61 (1) Notice – Responses to questions dated 25/03/2022	All parts	Received 11/08/2022



<b>Table S1.2 Operating techniques</b>		
<b>Description</b>	<b>Parts</b>	<b>Date Received</b>
Request for further information dates 07/11/2023	Information provided regarding Ammonia refrigeration systems, cleaning chemicals, surface water discharge, Relative Hazardous Substances and the operation of the emergency flare only occurring in event of emergency.	23/11/02/023

<b>Table S1.3 Improvement programme requirements</b>		
<b>Reference</b>	<b>Requirement</b>	<b>Date</b>
IC10	<p>The operator shall submit a written plan to the Environment Agency, in respect of biogas generated by the anaerobic treatment plant, which must contain:</p> <ul style="list-style-type: none"> <li>• A review of performance of the flare stack in terms of what the emission values are for releases to air from biogas combustion, set against the manufacturers guide values.</li> <li>• A review of the characteristics of the biogas including methane and energy content.</li> <li>• An options appraisal for the use of the biogas.</li> <li>• A plan for the use of the biogas, including designs/equipment required for the utilisation of the gas, anticipated recovery rate, environmental risk assessment (including odour) and relevant mitigation proposals, and a timetable for the implementation of the improvements.</li> </ul> <p>The plan must contain dates for the implementation of individual measures. The report shall be approved in writing by the Environment Agency. You must implement the plan as approved, and from the date stipulated by the Environment Agency.</p>	3 months from permit issue
IC11	<p>The Operator shall confirm in writing to the Environment Agency that the Narrative BAT requirements for the BAT Conclusions for Food, Drink and Milk Industries with respect to BAT 6.</p> <p>were in place on or before 4 December 2023. Refer to BAT Conclusions for a full description of the BAT requirement.</p>	1 month from permit issue
IC12	<p>The operator shall establish the methane emissions in the exhaust gas from engines burning biogas and compare these to the manufacturer's specification and benchmark levels agreed in writing with the Environment Agency. The operator shall, as part of the methane leak detection and repair (LDAR) programme, develop proposals to assess the potential for methane slip and take corrective actions where emissions above the manufacturer's specification or appropriate benchmark levels are identified.</p>	6 months from permit issue or other date as agreed in writing with the Environment Agency

## Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
Fuel oil	Less than 0.1% sulphur content

## Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1 <sup>Note 1</sup>	Steam safety valve	-	-	-	-	-
A2 <sup>Note 1</sup>	Condensate vent	-	-	-	-	-
A3 <sup>Note 1</sup>	Liquid nitrogen vent	-	-	-	-	-
A4 <sup>Note 1</sup>	Gaseous nitrogen vent	-	-	-	-	-
A5 <sup>Note 1</sup>	Ammonia vent	-	-	-	-	-
A6 <sup>Note 1</sup>	Ria exhaust vent	-	-	-	-	-
A7 <sup>Note 1</sup>	Munters-liquid nitrogen vent	-	-	-	-	-
A8 <sup>Note 1</sup>	Steam safety vent	-	-	-	-	-
A9 <sup>Note 1</sup>	Gaseous nitrogen vent	-	-	-	-	-
A10 <sup>Note 1</sup>	Liquid nitrogen vent	-	-	-	-	-
A11 <sup>Note 1</sup>	Skim milk tank explosion vent (4) at height	-	-	-	-	-
A12 <sup>Note 1</sup>	Whey powder explosion vents (4) at height	-	-	-	-	-
A13 <sup>Note 1</sup>	Skim milk tank explosion vent (4) at ground	-	-	-	-	-
A14 <sup>Note 1</sup>	Whey powder explosion vents (4) at ground	-	-	-	-	-
A15 <sup>Note 1</sup>	Steam safety vent	-	-	-	-	-
A16 <sup>Note 1</sup>	Whey powder exhaust vent	-	-	-	-	-
A17 <sup>Note 1</sup>	Liquid nitrogen vent	-	-	-	-	-
A18 <sup>Note 1</sup>	Number 3 surge drum vent line	-	-	-	-	-

<b>Table S3.1 Point source emissions to air – emission limits and monitoring requirements</b>						
<b>Emission point ref. &amp; location</b>	<b>Source</b>	<b>Parameter</b>	<b>Limit (including unit)</b>	<b>Reference period</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
A19 <sup>Note 1</sup>	Pipe bridge-leaving Ictech	-	-	-	-	-
A20 <sup>Note 1</sup>	Centre corridor ammonia system vent line	-	-	-	-	-
A21 <sup>Note 1</sup>	Omni ice/water ice drum surge vent line	-	-	-	-	-
A22 <sup>Note 1</sup>	35C knock out pot vent line	-	-	-	-	-
A23 <sup>Note 1</sup>	Common vent line for compressors	-	-	-	-	-
A24 <sup>Note 1</sup>	Oil separator vent line	-	-	-	-	-
A25 <sup>Note 1</sup>	Main liquid receiver vent line	-	-	-	-	-
A26 <sup>Note 1</sup>	Main liquid receiver vent line	-	-	-	-	-
A27 <sup>Note 1</sup>	Main liquid receiver vent line	-	-	-	-	-
A28 <sup>Note 1</sup>	Main liquid receiver vent line	-	-	-	-	-
A29 <sup>Note 1</sup>	Main liquid receiver vent line	-	-	-	-	-
A30 <sup>Note 1</sup>	Minus 35C transfer line	-	-	-	-	-
A31 <sup>Note 1</sup>	Pre-acidification tank-vent pipe	-	-	-	-	-
A32 <sup>Note 1</sup>	Post aeration tank – vent pipe	-	-	-	-	-
A33 <sup>Note 1</sup>	CHP stack 5.67 MWth Natural gas	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	190 mg/m <sup>3</sup> Limit applies from 01/01/2025	Periodic	Every three years	BS EN 14792 [Note 2]
		Carbon monoxide	No Limit	Periodic	Every three years	MCERTS BS EN15058
A34 <sup>Note 1</sup>	Emergency Flare stack	Oxides of Nitrogen (NO and NO <sub>2</sub> )	150 mg/m <sup>3</sup>	Average over	[Note 3]	BS EN 14792

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
		expressed as NO <sub>2</sub> )		sampling period		
		Carbon monoxide	50 mg/m <sup>3</sup>			BS EN 15058
		Total VOCs	10 mg/m <sup>3</sup>			BS EN 12619:2013
A35 Note 1	Anaerobic reactor pressure relief vent	-	-	-	-	-
A36 Note 1	Number 2 surge drum vent line	-	-	-	-	-
A37 Note 1	Knock out pot	-	-	-	-	-
A38 Note 1	Chilled water surge tank vent line	-	-	-	-	-
A39 Note 1	Sealed chilled water surge drum vent line	-	-	-	-	-
A40 Note 1	Pasteuriser chilled water surge drum vent valve	-	-	-	-	-
A41 Note 1	Hydrochloric acid tank-vent pipe	-	-	-	-	-
A42 Note 1	Tunnel 6 surge drum vent line	-	-	-	-	-
A43 Note 1	Tunnel 6 surge drum vent line	-	-	-	-	-
A44 Note 1	Tunnel 7 surge drum vent line	-	-	-	-	-
A45 Note 1	Room 11 surge drum vent line	-	-	-	-	-
A46 Note 1	Room 11 surge drum vent line	-	-	-	-	-
A47 Note 1	Sulphuric acid tank-vent pipe	-	-	-	-	-
A48 Note 1	Kalic-vent pipe	-	-	-	-	-
A49 Note 1	Boiler Stack 1 5.69 MWth Natural gas	Oxides of Nitrogen (NO and NO <sub>2</sub> )	200 mg/m <sup>3</sup> 01/01/2025	Periodic	Every three years	BS EN 14792 [Note 2]

<b>Table S3.1 Point source emissions to air – emission limits and monitoring requirements</b>						
<b>Emission point ref. &amp; location</b>	<b>Source</b>	<b>Parameter</b>	<b>Limit (including unit)</b>	<b>Reference period</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
		expressed as NO <sub>2</sub> )				
		Carbon monoxide	No Limit	Periodic	Every three years	MCERTS BS EN15058
A49 <sup>Note 1</sup>	Boiler Stack 1 5.69 MWth Gas soil	No parameters set	No limit set	-	-	-
A50 <sup>Note 1</sup>	Boiler Stack 2 5.69 MWth Blend of Natural Gas and Biogas	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	200 mg/m <sup>3</sup>	Periodic	Every three years	BS EN 14792
		Sulphur Dioxide	100 mg/m <sup>3</sup>	Periodic	Every three years	BS EN 14791
		Carbon monoxide	No Limit	Periodic	Every three years	MCERTS BS EN15058
A50 <sup>Note 1</sup>	Boiler Stack 2 5.69 MWth Gas oil	No parameters set	No limit set	-	-	-

Note 1: A1 – A50 correspond to points 1 - 50 respectively on emissions point plan appended to the permit

Note 2: This emission limit and/or monitoring requirement applies from 1 January 2025, unless otherwise advised by the Environment Agency.

Note 3: Following commissioning, monitoring to be undertaken in the event the emergency flare has been operational for more than 10 per cent of a year (876 hours). Record of operating hours to be submitted annually to the Environment Agency.

<b>Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements</b>						
<b>Emission point ref. &amp; location</b>	<b>Source</b>	<b>Parameter</b>	<b>Limit (incl. unit)</b>	<b>Reference Period</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
W1 [Point 89937 on site plan in schedule 7] emission to Holsbere Brook	Uncontaminated surface runoff	No parameter set	No limit set	--	--	--

<b>Emission point ref. &amp; location</b>	<b>Source</b>	<b>Parameter</b>	<b>Limit (incl. Unit)</b>	<b>Reference period</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
S1 [Point S1 on site plan in schedule 7] emission to Severn Trent Water sewerage system	Treated process effluent from onsite effluent treatment plant	No parameters Set	No limit set	--	--	--

<b>Emission point reference or source or description of point of measurement</b>	<b>Parameter</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>	<b>Other specifications</b>
Site refrigeration system	Ammonia	Annual	Mass balance	Ammonia losses from the refrigeration system shall be estimated from purchase and stock records or other inventory
Biogas in digester	Flow	Continuous	In accordance with EU weights and measures Regulations	Process monitoring to be recorded using a SCADA system where relevant.  Gas monitors to be calibrated every 6 months or in accordance with the manufacturer's recommendations
	Methane	Continuous	None specified	
	CO <sub>2</sub>	Continuous	None specified	
	O <sub>2</sub>	Continuous	None specified	
	Hydrogen sulphide	Daily	None specified	
	Pressure	Continuous	None specified	
Digester(s) and storage tank(s)	Integrity checks	Weekly	Visual assessment	In accordance with design specification and tank integrity checks.
Diffuse emissions from all sources identified in the Leak Detection and Repair (LDAR) programme	VOCs including methane	Every 6 months or otherwise agreed in accordance with the LDAR programme	BS EN 15446  In accordance with the LDAR programme	Monitoring points as specified in a DSEAR risk assessment and LDAR programme.  Limit as agreed with the Environment Agency as a percentage of the overall gas production.
Emergency flare	Operating hours	Continuous	Recorded duration and frequency.	Date, time and duration of use of auxiliary flare shall be recorded.

<b>Table S3.4 Process monitoring requirements</b>				
<b>Emission point reference or source or description of point of measurement</b>	<b>Parameter</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>	<b>Other specifications</b>
	Quantity of gas sent to emergency flare		Recording using a SCADA system or similar system	Quantity can be estimated from gas flow composition, heat content, ratio of assistance, velocity, purge gas flow rate, pollutant emissions.
Pressure relief valves and vacuum systems	Gas pressure	Continuous	Recording using a SCADA system	Continuous gas pressure shall be monitored.
	Re-seating	Weekly inspection	Visual	Operator must ensure that valves are re-seated after release in accordance with the manufacturer's design.
	Inspection, maintenance, calibration, repair and validation	Following foaming or overtopping or at 3 yearly intervals whichever is sooner	Written scheme of examination in accordance with condition 1.1.1	After a foaming event or sticking, build-up of debris, obstructions or damage, operator must ensure that pressure relief valve function remains within designed gas pressure in accordance with the manufacturer's design by suitably trained and qualified personnel.
	Inspection, calibration and validation report	In accordance with design and construction specifications or after over topping or foaming event	Written scheme of examination in accordance with condition 1.1.1	Operator must ensure that valves are re-seated after release, after a foaming event or sticking, build-up of debris, obstructions or damage.  Operator must ensure that PRV function remains within designed operation gas pressure in accordance with the manufacturer's design by suitably trained/qualified personnel.  Inspection, calibration and validation report. In accordance with industry Approved Code of Practice
Storage lagoons and storage tanks	Volume	Daily	Visual or flow metre measurement	750 mm freeboard must be maintained for storage lagoons.



<b>Table S3.4 Process monitoring requirements</b>				
<b>Emission point reference or source or description of point of measurement</b>	<b>Parameter</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>	<b>Other specifications</b>
				Records of volume must be maintained.

## Schedule 4 – Reporting

Parameters, for which reports shall be made, in accordance with conditions of this permit, are listed below.

<b>Table S4.1 Reporting of monitoring data</b>			
<b>Parameter</b>	<b>Emission or monitoring point/reference</b>	<b>Reporting period</b>	<b>Period begins</b>
Point source emissions to air Parameters as required by condition 3.5.1	A33 CHP, A49 Boiler 1 and A50 Boiler 2	First monitoring undertaken in accordance with Condition 3.1.4 to be reported within 3 months, and then every 3 years thereafter.	From first monitoring requirements in accordance with Condition 3.1.4
Process monitoring – digester tank integrity Parameters as required by condition 3.5.1	As specified in schedule 3 table S3.4	Every 5 years from the date of commissioning or as per the manufacturer's recommendation, whichever is sooner	1 January
Process monitoring – under and over pressure relief systems Parameters as required by condition 3.5.1	As specified in schedule 3 table S3.4	Every 12 months Yearly summary report of over-pressure and under-pressure events detailing mass balance release	1 January
Process monitoring – leak detection and repair (inspection, calibration and maintenance) Parameters as required by condition 3.5.1	As specified in schedule 3 table S3.4	Every 3 years	1 January
Process monitoring – use of emergency flare Parameters as required by condition 3.5.1	As specified in schedule 3 table S3.4	Every 12 months	1 January

<b>Table S4.2: Annual production/treatment</b>	
<b>Parameter</b>	<b>Units</b>
Product produced	tonnes

<b>Table S4.3 Performance parameters</b>		
<b>Parameter</b>	<b>Frequency of assessment</b>	<b>Units</b>
Hazardous Waste Disposed	Annually	tonnes
Hazardous Waste Recovered	Annually	tonnes
Non-Hazardous Waste Disposed	Annually	tonnes
Non-Hazardous Waste Recovered	Annually	tonnes

<b>Table S4.3 Performance parameters</b>		
<b>Parameter</b>	<b>Frequency of assessment</b>	<b>Units</b>
Water usage	Annually	m <sup>3</sup>
Energy usage	Annually	MWh
Waste	Annually	tonnes
Electricity usage	Annually	MWh
Natural gas usage	Annually	MWh
Fuel oil usage	Annually	tonnes
Total production	Annually	tonnes
Total mass release of oxides of ammonia from refrigeration systems	Annually	Kg
COD efficiency	Annually*	COD te/te product
Food waste	Annually	Tonnes
Emergency flare operation	Annually	hours
Biomethane exported	Annually	tonnes or m <sup>3</sup>
*COD efficiency to be calculated on a weekly frequency, reported annually		

<b>Table S4.4 Reporting forms</b>		
<b>Parameter</b>	<b>Reporting form</b>	<b>Form version number and date</b>
Point source emissions to air	Emissions to Air Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Process monitoring	Form process 1 or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Food Waste	Food waste Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1 06/02/2023
Water usage	Water Usage Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Energy usage	Energy Usage Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Other performance parameters	Other Performance Parameters Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021

# Schedule 5 – Notification

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

## Part A

Permit Number	
Name of operator	
Location of Facility	
Time and date of the detection	

<b>(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution</b>	
<b>To be notified within 24 hours of detection</b>	
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

<b>(b) Notification requirements for the breach of a limit</b>	
<b>To be notified within 24 hours of detection unless otherwise specified below</b>	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	

<b>(b) Notification requirements for the breach of a limit</b>	
<b>To be notified within 24 hours of detection unless otherwise specified below</b>	
Measures taken, or intended to be taken, to stop the emission	

<b>Time periods for notification following detection of a breach of a limit</b>	
<b>Parameter</b>	<b>Notification period</b>

<b>(c) Notification requirements for the breach of permit conditions not related to limits</b>	
<b>To be notified within 24 hours of detection</b>	
Condition breached	
Date, time and duration of breach	
Details of the permit breach i.e. what happened including impacts observed.	
Measures taken, or intended to be taken, to restore permit compliance.	

<b>(d) Notification requirements for the detection of any significant adverse environmental effect</b>	
<b>To be notified within 24 hours of detection</b>	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

## Part B – to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	

Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

\* authorised to sign on behalf of the operator

## Schedule 6 – Interpretation

“accident” means an accident that may result in pollution.

“application” means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

“authorised officer” means any person authorised by the Environment Agency under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.

“average over the sampling period” means the average value of three consecutive measurements of at least 30 minutes each, unless otherwise stated, as defined in the General Considerations section of the Food, Drink & Milk Industries BAT Conclusions.

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations SI 2016 No.1154 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

“emissions to land” includes emissions to groundwater.

“emissions of substances not controlled by emission limits” means emissions of substances to air, water or land from the activities, either from the emission points specified in schedule 3 or from other localised or diffuse sources, which are not controlled by an emission limit.

“Food waste” reporting: Reporting of food waste to use a methodology such as the global Food Loss and Waste Accounting and Reporting Standard (FLW standard) , WRAP’s Target Measure Act initiative or similar.

“groundwater” means all water, which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.

“Industrial Emissions Directive” means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“Leak detection and repair (LDAR) programme” means a structured approach to reduce fugitive emissions of organic compounds by detection and subsequent repair or replacement of leaking components. Currently, sniffing (described by EN 15446) and optical gas imaging methods are available for the identification of leaks as set out in BAT 14 and section 6.6.2 of the Waste Treatment BAT Conclusions.

“MCERTS” means the Environment Agency’s Monitoring Certification Scheme.

“Medium Combustion Plant” or “MCP” means a combustion plant with a rated thermal input equal to or greater than 1 MW but less than 50 MW. An “existing medium combustion plant” is combustion plant operating before 20 December 2018.

“Medium Combustion Plant Directive” or “MCPD” means Directive 2015/2193/EU of the European Parliament and of the Council on the limitation of emissions of certain pollutants into the air from medium combustion plants, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

Pests” means Birds, Vermin and Insects.

Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

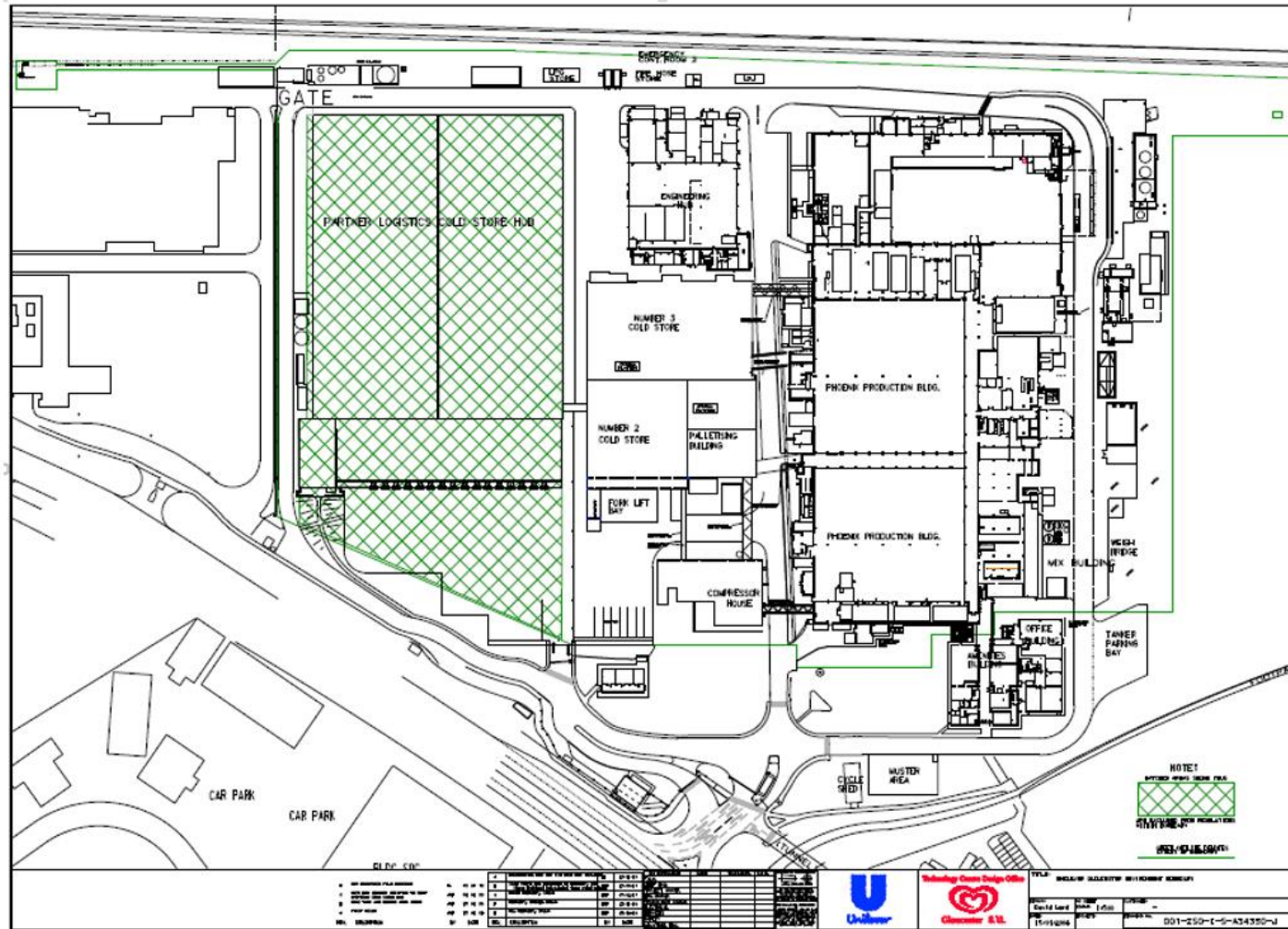
Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means:

- in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels 6% dry for solid fuels; and/or
- in relation to emissions from gas engines or gas turbines, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 15% dry for liquid and gaseous fuels ; and/or
- in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content

“year” means calendar year ending 31 December.

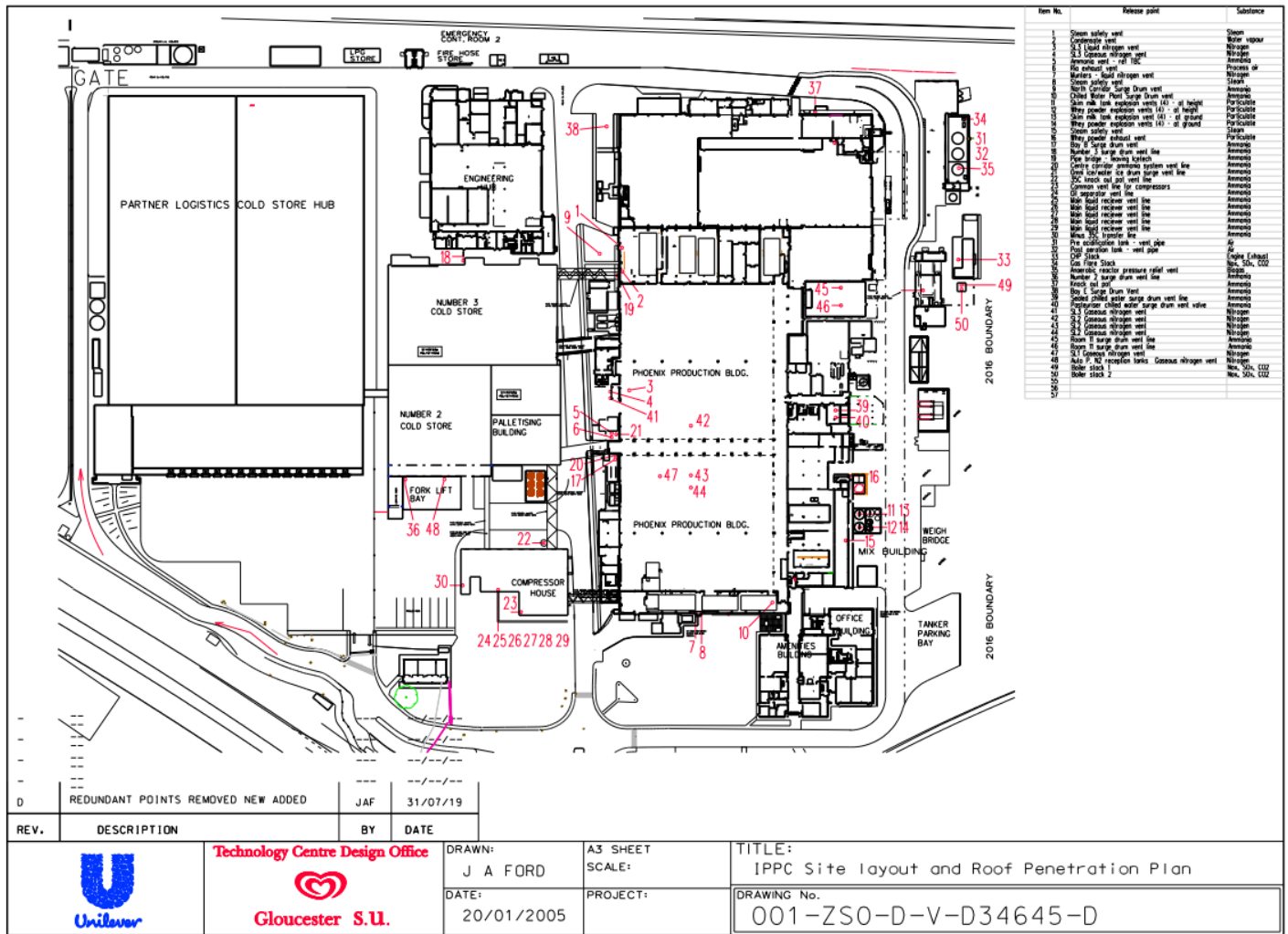


# Schedule 7 – Site plan



## Installation boundary

Permit number  
EPR/AP3530KM



Air emissions point plan



- Wet Well Stations
- PWWT Plant
- AD Plant
- Site Boundary
- Sewer Discharge Point
- Surface Water Discharge Point

UNILEVER WALLS LIMITED

Surface and sewer discharge points

END OF PERMIT

## Emissions to Air Reporting Form

Permit number: *[EPR/AB1234CB]*

Operator: *[A Company Name Limited]*

Facility name: *[Unit A, Anytown]*

Emissions to Air Reporting Form: version 1, 08/03/2021

Reporting of emissions to air for the period from *[DD/MM/YY]* to *[DD/MM/YY]*

Emission point	Substance / parameter	Emission Limit Value	Reference period	Test method <sup>1</sup>	Result <sup>2</sup>	Sample dates and times <sup>3</sup>	Uncertainty <sup>4</sup>
<i>[e.g. A1]</i>	<i>[e.g. Oxides of nitrogen (NO and NO<sub>2</sub> expressed as NO<sub>2</sub>)]</i>	<i>[e.g. 200 mg/m<sup>3</sup>]</i>	<i>[e.g. daily average]</i>	<i>[e.g. BS EN 14181]</i>	<i>[State result]</i>	<i>[State relevant dates and time periods]</i>	<i>[State uncertainty if not 95% confidence interval]</i>

Signed: *[Name]*

Date: *[DD/MM/YY]*

(Authorised to sign as representative of the operator)

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**Guidance for use:** Use this form to report your monitoring results.

Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. Complete columns 1 to 5 using the information from schedule 3 of your permit. Complete columns 6 to 8 with your monitoring data. Add additional rows as necessary.

<sup>1</sup> Where an internationally recognised standard test method is used, give the reference number. Where another method that has been formally agreed with the Environment Agency, give the appropriate identifier. In other cases state the principal technique, for example gas chromatography.

<sup>2</sup> Give the result as the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, give the result as the 'minimum to maximum' of the measured values.

<sup>3</sup> For non-continuous measurements give the date and time of the sample that produced the result. For continuous measurements give the percentage of the process operating time covered by the result.

<sup>4</sup> Complete if the uncertainty associated with the result is not a 95% confidence interval. Leave blank for 95% confidence intervals.

## Water Usage Reporting Form

Permit number: [EPR/AB1234CB]

Operator: [A Company Name Limited]

Facility name: [Unit A, Anytown]

Water Usage Reporting Form: version 1, 08/03/2021

Reporting of water usage for the year [YYYY]

Water source	Water usage (m <sup>3</sup> )	Specific water usage (m <sup>3</sup> /tonne of product) <sup>2</sup>
Mains water	[insert annual usage in m <sup>3</sup> where mains water is used]	Not Applicable
Site borehole	[insert annual usage in m <sup>3</sup> where water is used from a site borehole]	Not Applicable
River abstraction	[insert annual usage in m <sup>3</sup> where abstracted river water is used]	Not Applicable
Other – [specify other water source where applicable]. Add extra rows where needed]	[insert annual usage in m <sup>3</sup> where applicable]	Not Applicable
Total water usage	[insert total annual water usage in m <sup>3</sup> ]	[insert total water use per tonne of product produced m <sup>3</sup> /t]

<b>Operator's comments</b>

<b>Operator's comments</b>

**Signed:**     *[Name]*

**Date:**       *[DD/MM/YY]*

(Authorised to sign as representative of the operator)

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**Guidance for use:** Use this form to report your annual water usage.

Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. Add additional rows as necessary.

## Energy Usage Reporting Form

Permit number: *[EPR/AB1234CB]*

Operator: *[A Company Name Limited]*

Facility name: *[Unit A, Anytown]*

Energy Usage Reporting Form: version 1, 08/03/2021

Reporting of energy usage for the year *[YYYY]*

Energy source	Energy consumption / production (MWh)	Specific energy consumption (MWh/tonne of product) <sup>2</sup>
Total	<i>[insert total energy use in MWh]</i>	<i>[insert total energy use per tonne of product MWh/tonne of product]</i>

<b>Operator's comments</b>



**Signed:** *[Name]*

**Date:** *[DD/MM/YY]*

(Authorised to sign as representative of the operator)

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**Guidance for use:** Use this form to report your annual energy usage.

Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. Add additional rows as necessary.

<sup>1</sup> Multiply delivered electricity by 2.4 to convert to primary energy where the electricity is supplied from the national grid. If the electricity is supplied from another source, specify the conversion factor used. Add additional rows as needed if electricity is imported from multiple sources.

<sup>2</sup> Divide energy consumption by an appropriate unit of raw material processed or product output.

## Food Waste Reporting Form

Permit number: [EPR/AB1234CB]

Operator: [A Company Name Limited]

Facility name: [Unit A, Anytown]

Food Waste Reporting Form: version 1, 06/02/2023

Reporting of food waste for the period from [DD/MM/YY] to [DD/MM/YY]

<b>Overall food waste (tonnes)</b>	
<b>Food waste as % of product</b>	
<b>Food waste disposal routes</b>	<i>As specified below</i>

<b>Source</b>	<b>Tonnage</b>
<b>Redistribution for human consumption</b>	
<b>Animal feed</b>	
<b>Bio-based materials/biochemical processing (e.g. feedstock for other industrial products)</b>	
<b>Anaerobic digestion/codigestion</b>	
<b>Composting/aerobic processes</b>	
<b>Incineration/controlled combustion</b>	

<b>Land application</b>	
<b>Landfill</b>	
<b>Sewer/wastewater treatment (e.g. as COD)</b>	
<b>Other (Please specify)</b>	

**Signed:** [Name]

**Date:** [DD/MM/YY]

(Authorised to sign as representative of the operator)

**Guidance for use:** Use this form to report your food waste metrics.

Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information.

**Rationale:** Avoidance of food waste is a key issue for the sector, both nationally and globally, and is subject to a United Nations Sustainable Development Goal: SDG 12.3: “By 2030, halve per capita global food waste at the retail and consumer levels and reduce food losses along production and supply chains, including post-harvest losses”.

This complements Defra’s Food and drink waste hierarchy: deal with surplus and waste - GOV.UK (www.gov.uk) and WRAP’s Target Measure Act Initiative.

Reporting of food waste should be to a set methodology such as the global Food Loss and Waste Accounting and Reporting Standard (FLW standard).

# Other Performance Parameters Reporting Form

Permit number: [EPR/AB1234CB]

Operator: [A Company Name Limited]

Facility name: [Unit A, Anytown]

Other Performance Parameters Reporting Form: version 1, 08/03/2021

Reporting of other performance parameters for the period from [DD/MM/YY] to [DD/MM/YY]

Parameter	Units
<i>[e.g. Total raw material usage]</i>	<i>[e.g. tonnes per production unit]</i>

<b>Operator's comments</b>

**Signed:** *[Name]*

**Date:** *[DD/MM/YY]*

(Authorised to sign as representative of the operator)

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**Guidance for use:** Use this form to report the performance parameters (other than water and energy) required by your permit. Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. The parameters to report and units to be used can be found in the 'Performance parameters' table in schedule 4 of your permit. Add additional rows as necessary.