

Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Glanbia Cheese Limited

**Llangefni Dairy
Glan Hwfa Road
Llangefni
Anglesey
LL77 7TT**

Permit number
EPR/BV8024IW

Llangefni Dairy

Permit number EPR/BV8024IW

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

The installation occupies a site of four hectares, situated at Glan Hwfa Road, approximately 0.5 km east of the town of Llangefni, Anglesey. The installation produces mozzarella cheese, with by-products of whey concentrate, whey cream and sweet cream. Annual production capacity of mozzarella is in excess of 40,000 tonnes

The production of mozzarella involves the receipt and storage of whole and skimmed milk, pasteurisation, cheese making and conditioning, cooking, moulding, cooling, shredding, freezing, bagging, boxing and despatch. The installation also includes by-product processing activities for whey, whey cream and sweet cream. Production is continuous, running for 24 hours a day, 365 days per year.

The installation operates two natural gas-fired boilers, with a combined thermal input of 12.9 MW. One boiler is used solely as a back-up to the main boiler, and only one boiler can operate at any one time. The main boiler has an interruptible gas supply with fuel oil back-up, stored on site. Point source emissions to atmosphere comprise combustion products from boiler use. There is one point source of emissions to atmosphere, from the stack serving the boilers. An appraisal of the environmental assessment of these emissions has concluded that they are likely to be insignificant.

The Installation discharges a maximum of 1200 m³ per day of effluent to sewer. Effluent from the Installation is discharged to sewer at a single point. Primary effluent treatment occurs on site, consisting of a receiving sump, which pumps effluent to a 400 m³ balancing tank. Here, high-strength clean-down effluent is diluted and pH balanced to release to sewer. Effluent is transferred by pipeline for treatment at Llangefni Sewage Works, operated by Welsh Water. The discharge is controlled by a Trade Effluent Discharge Consent.

The Installation is party to a Climate Change Agreement, Facility Number DIF/53/03. The Installation has been accredited to the international standard for environmental management systems, ISO14001, since November 2004.

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

Status log of the permit		
Description	Date	Comments
Application BV8024IW received	14/03/2005	
Request for further information	12/09/2005	
Request to extend determination	13/09/2005	Request accepted 15/09/2005
Permit issued	26/10/2005	
Agency variation determined EPR/BV8024IW/V002	22/03/2013	Agency variation to implement the changed introduced by IED
NRW initiated variation, varied and consolidated permit issued EPR/BV8024IW/V003	23/02/2017	Varied and consolidated permit issued in current EPR format
Regulation 61 Notice sent to the Operator	27/04/2020	Issue of a Notice under Regulation 61(1) of the EPR. Natural Resources Wales initiated review and variation to vary the permit following the publication of the revised Best Available Techniques (BAT) Reference Document (BRef) for the Food, Drink and Milk Industries.
Regulation 61 Notice response	17/01/2021	Response received from the operator.
NRW initiated variation determined EPR/BV8024IW/V004	04/02/2022	Varied permit issued to Operator. Natural Resources Wales initiated review and variation to vary the permit following the publication of the revised Best Available Techniques (BAT) Reference Document (BRef) for the Food, Drink and Milk Industries

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number
EPR/BV8024IW

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/BV8024IW/V004 authorising

Glanbia Cheese Limited (“the operator”)

whose registered office is

**4 Royal Mews
Gadbrook Park
Rudheath
Northwich
Cheshire
CW9 7UD**

company registration number **02594981**

to operate **an installation** at

**Llangefni Dairy
Glan Hwfa Road
Llangefni
Anglesey
LL77 7TT**

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

Signed	Date
Holly Noble	04/02/2022

Authorised on behalf of Natural Resources Wales

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 Waste authorised by this permit shall be clearly distinguished from any other waste on the site.

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 (a) 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 Natural Resources Wales.
- (b) If notified by Natural Resources Wales that the activities are giving rise to pollution, the operator shall submit to Natural Resources Wales 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 Natural Resources Wales.
- 2.3.2 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 2.3.3 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.
- 2.3.4 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 Natural Resources Wales.
- 2.4.2 Except in the case of an improvement which consists only of a submission to Natural Resources Wales, the operator shall notify Natural Resources Wales 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.

3.2 Emissions of substances not controlled by emission limits

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour) 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 Natural Resources Wales that the activities are giving rise to pollution, submit to Natural Resources Wales 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 Natural Resources Wales.
- 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.

3.3 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 Natural Resources Wales, 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 Natural Resources Wales that the activities are giving rise to pollution outside the site due to odour, submit to Natural Resources Wales 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 Natural Resources Wales.

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 Natural Resources Wales, 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 Natural Resources Wales that the activities are giving rise to pollution outside the site due to noise and vibration, submit to Natural Resources Wales 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 Natural Resources Wales.

3.5 Monitoring

- 3.5.1 The operator shall, unless otherwise agreed in writing by Natural Resources Wales, 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;
- 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 Natural Resources Wales.
- 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 and S3.3 unless otherwise agreed in writing by Natural Resources Wales.

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 Natural Resources Wales, submit to Natural Resources Wales for approval within the period specified, a pests management plan which identifies and minimises risks of pollution, hazard or annoyance from pests;
 - (b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by Natural resources Wales

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 Natural Resources Wales, 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 Natural Resources Wales.

4.2 Reporting

- 4.2.1 The operator shall send all reports and notifications required by the permit to Natural Resources Wales using the contact details supplied in writing by Natural Resources Wales.
- 4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to Natural Resources Wales by 31 January (or other date agreed in writing by Natural Resources Wales) 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 Natural Resources Wales, 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 Natural Resources Wales, 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 (a) In the event 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 Natural Resources Wales,
 - (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) in the event of a breach of any permit condition the operator must immediately—
 - (i) inform Natural Resources Wales, and
 - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;

- (c) in the event 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 (a)(i) or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit, 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 Where Natural Resources Wales has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform Natural Resources Wales when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to Natural Resources Wales at least 14 days before the date the monitoring is to be undertaken.
- 4.3.4 Natural Resources Wales 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.
- 4.3.5 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) Natural Resources Wales 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.
- 4.3.6 Natural Resources Wales shall be given at least 14 days notice before implementation of any part of the site closure plan.
- 4.3.7 Where the operator has entered into a climate change agreement with the Government, Natural Resources Wales 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” or “without delay” in which case it may be provided by telephone.

Schedule 1 - Operations

Table S1.1 activities

Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
A1	S6.8 A1(e) – Treating and processing milk, the quantity of milk received being more than 200 tonnes per day (average value on an annual basis)	Production of frozen and chilled mozzarella cheese products.	From receipt of raw materials and despatch of finished product. Maximum capacity limited to the agreed figure provided in response to part (b) of Improvement Condition 1.
A2	S5.4 A1 (a)(ii) – Disposal of non-hazardous waste with a capacity exceeding 50 tonnes per day involving one or more of the following activities: (ii) physico-chemical treatment	Effluent treatment plant (primary treatment, dilution and pH balancing). D9: Physico-chemical treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded by means of any of the operations numbers D1 to D8 and D10 to D12 (e.g. evaporation, drying, calcination, etc.)	From all process drains serving the cheese manufacturing activity to the effluent treatment plant discharge point at the installation boundary.
Directly Associated Activity			
A3	Steam generation	Two natural gas fired boilers with a combined thermal input of 12.9 MW.	From the steam rising boilers to supply of steam to the product processing lines.
A4	Refrigeration	Storage of finished cheese products.	From production to despatch from site.
A5	Waste management	Bulk storage of process wastes.	From generation of wastes to despatch of wastes.

Table S1.2 Operating techniques

Description	Parts	Date Received
Application	The response to questions 2.1 and 2.2, as detailed in sections B2.2.1 to B2.2.6 (emissions to air and boiler plant procedures), B2.2.24 (emissions to sewer), and 2.2.46 to 2.2.49 (chilling and refrigeration).	14/03/05
Application	Section 4A File 1 process flow information	14/03/05
Additional information	Information relating to the control and monitoring of noise and odour at the installation	12/09/05

Table S1.2 Operating techniques

Description	Parts	Date Received
Response to regulation 61(1) Notice – request for information dated 27/04/2020 detailing how the Operator will comply with the BAT conclusions for the Food, Drink and Milk Industries under Directive 2010/75/EU of the European Parliament and of the Council	All	17/01/2021
Additional information received for E-mail	All	06/09/2021, 16/09/2021 and 20/09/2021

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
IC1	<p>(a) The Operator shall submit to NRW the maximum capacity of the installation that was used in the most recent risk assessment submitted to NRW.</p> <p>(b) The Operator shall submit to NRW for approval the maximum capacity of the installation at the current time.</p> <p>(c) If the maximum capacity of the installation has increased from the time of the last submitted risk assessment and the current time, the Operator shall review and update the risk assessment to account for the current maximum capacity. The risk assessment shall be submitted to NRW for review.</p> <p>Notes: The capacity is to be taken and presented using the same units from the relevant sub-section of Section 6.8, Part 2, Schedule 1 of the Environmental Permitting Regulations 2016 (as from time to time amended). Capacity is to be taken as the maximum possible capacity of the installation, not the maximum actual production. The risk assessment should follow the methodology set out in The Environmental Risk Assessment (EPR-H1). You may use a methodology other than EPR-H1 however the methodology must address the same issues as in EPR-H1 to an equivalent level of detail.</p>	<p>(a) and (b) Within 6 months of permit variation issue</p> <p>(c) Within 9 months of permit variation issue (if applicable)</p>

Schedule 2 - Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels

Raw materials and fuel description	Specification
None specified	-

Schedule 3(a) – Emissions and monitoring effective until 3 December 2023

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 [point A1 Air emissions 1 – stack monitoring on document ref: Process Emissions and Monitoring Plan in Section 4B File 1 of Application]	Boiler stack	None specified	No limit set	-	-	-

Table S3.2 Point source emissions to water (other than sewer) and land – emission limits and monitoring requirements

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W1 [point WAT1 on document ref: Processes, Emissions & Monitoring Plan included in Section 4B of File 1 of the Application] discharge to tributary of River Cefni.	Uncontaminated stormwater drainage from site surface and roof drains	None specified	No limit set	-	-	-
W2 [point WAT2 on document ref: Processes, Emissions & Monitoring Plan included in Section 4B of File 1 of the Application] discharge to tributary of River Cefni.	Uncontaminated stormwater drainage from site surface and roof drains	Biochemical oxygen demand (BOD)	6 mg/l	Instantaneous (spot sample)	Quarterly	BS EN 1899-1
		Suspended solids	30 mg/l	Instantaneous (spot sample)	Quarterly	BS EN 872
		Oil and grease	10 mg/l	Instantaneous (spot sample)	Quarterly	SCA, the determination of hydrocarbon oils in waters by solvent extraction IR absorption and gravimetry

Table S3.2 Point source emissions to water (other than sewer) and land – emission limits and monitoring requirements

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
		pH	6-9	Instantaneous (spot sample)	Quarterly	SCA, the measurement of electric conductivity and the determination of pH
		Bromine ^{Note 1}	Not detectable	Instantaneous (spot sample)	Quarterly	SCA Blue Book 218
W4 [point WAT4 on document ref: Processes, Emissions & Monitoring Plan included in Section 4B of File 1 of the Application] discharge to tributary of River Cefni.	Uncontaminated stormwater drainage from site surface and roof drains	None specified	No limit set	-	-	-

Note 1: the use of bromine (and other biocides, slimicides and detergents) is not permitted in areas where their entry into the interceptor at emission point W2 could occur.

Table S3.3 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
S1 [point EFF1 on document ref: Processes, Emissions & Monitoring Plan included in Section 4B of File 1 of the Application]	Site effluent treatment plant	Chemical Oxygen Demand (mg/l)	No limit set	Spot sample comprising a minimum of 4 composite samples taken in any 24 hour period	Monthly	BS 6068-2.34 or ISO 6060
		Total effluent flow (m ³)	No limit set	Instantaneous (continuous)	Continuous	Continuous flow meter

Schedule 3(b) – Emissions and monitoring effective from 4 December 2023

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 [point A1 Air emissions 1 – stack monitoring on document ref: Process Emissions and Monitoring Plan in Section 4B File 1 of Application]	Boiler stack	None specified	No limit set	-	-	-

Table S3.2 Point source emissions to water (other than sewer) and land – emission limits and monitoring requirements

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W1 [point WAT1 on document ref: Processes, Emissions & Monitoring Plan included in Section 4B of File 1 of the Application] discharge to tributary of River Cefni.	Uncontaminated stormwater drainage from site surface and roof drains	None specified	No limit set	-	-	-
W2 [point WAT2 on document ref: Processes, Emissions & Monitoring Plan included in Section 4B of File 1 of the Application] discharge to tributary of River Cefni.	Uncontaminated stormwater drainage from site surface and roof drains	Biochemical oxygen demand (BOD)	6 mg/l	Instantaneous (spot sample)	Quarterly	BS EN 1899-1
		Suspended solids	30 mg/l	Instantaneous (spot sample)	Quarterly	BS EN 872
		Oil and grease	10 mg/l	Instantaneous (spot sample)	Quarterly	SCA, the determination of hydrocarbon oils in waters by solvent extraction IR absorption and gravimetry

Table S3.2 Point source emissions to water (other than sewer) and land – emission limits and monitoring requirements

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
		pH	6-9	Instantaneous (spot sample)	Quarterly	SCA, the measurement of electric conductivity and the determination of pH
		Bromine ^{Note 1}	Not detectable	Instantaneous (spot sample)	Quarterly	SCA Blue Book 218
W4 [point WAT4 on document ref: Processes, Emissions & Monitoring Plan included in Section 4B of File 1 of the Application] discharge to tributary of River Cefni.	Uncontaminated stormwater drainage from site surface and roof drains	None specified	No limit set	-	-	-

Note 1: the use of bromine (and other biocides, slimicides and detergents) is not permitted in areas where their entry into the interceptor at emission point W2 could occur.

Table S3.3 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
S1 [point EFF1 on document ref: Processes, Emissions & Monitoring Plan included in Section 4B of File 1 of the Application]	Site effluent treatment plant	Chemical Oxygen Demand (mg/l)	No limit set	Spot sample comprising a minimum of 4 composite samples taken in any 24 hour period	Monthly	BS 6068-2.34 or ISO 6060
		Total effluent flow (m ³)	No limit set	Instantaneous (continuous)	Continuous	Continuous flow meter
		Chloride (Cl ⁻)	No limit set	24 hour flow proportional composite	Monthly	Various EN standard available including EN ISO 10304-1, EN ISO 15682

Schedule 4(a) – Reporting effective until 3 December 2023

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

Table S4.1 Reporting of monitoring data			
Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Emissions to water Parameters as required by condition 3.5.1.	W2	Every 3 months	1 January, 1 April, 1 July, 1 October
Emissions to sewer Parameters as required by condition 3.5.1	S1	Every 6 months	1 January, 1 July

Table S4.2: Annual production/treatment	
Parameter	Units
Mozzarella cheese	tonnes

Table S4.3 Performance parameters		
Parameter	Frequency of assessment	Units
Water usage	Annually	m ³
Water efficiency	Annually	m ³ /tonne
Energy usage	Annually	MWh
Energy efficiency	Annually	MWh/tonne
Total raw material used	Annually	tonnes
Waste disposal	Annually	tonnes
Chemical oxygen demand ^{Note 1}	Annually	COD/tonne

Note 1: COD (kg) determined from quarterly COD (mg/l) x quarterly effluent flow (m³)

Table S4.4 Reporting forms		
Media/parameter	Reporting format	Date of form
Water and Land	Form water 1 or other form as agreed in writing by Natural Resources Wales	04/02/2022
Sewer	Form sewer 1 or other form as agreed in writing by Natural Resources Wales	04/02/2022
Water usage	Form water usage 1 or other form as agreed in writing by Natural Resources Wales	23/02/2017
Energy usage	Form energy 1 or other form as agreed in writing by Natural Resources Wales	23/02/2017
Other performance indicators	Form performance 1 or other form as agreed in writing by Natural Resources Wales	23/02/2017

Schedule 4(b) – Reporting effective from 4 December 2023

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

Table S4.1 Reporting of monitoring data

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Emissions to water Parameters as required by condition 3.5.1.	W2	Every 3 months	1 January, 1 April, 1 July, 1 October
Emissions to sewer Parameters as required by condition 3.5.1	S1	Every 6 months	1 January, 1 July

Table S4.2: Annual production/treatment

Parameter	Units
Mozzarella cheese	tonnes

Table S4.3 Performance parameters

Parameter	Frequency of assessment	Units
Water usage	Annually	m ³
Water efficiency	Annually	m ³ /tonne
Energy usage	Annually	MWh
Energy efficiency	Annually	MWh/tonne
Total raw material used	Annually	tonnes
Waste disposal	Annually	tonnes
Chemical oxygen demand ^{Note 1}	Annually	COD/tonne

Note 1: COD (kg) determined from quarterly COD (mg/l) x quarterly effluent flow (m³)

Table S4.4 Reporting forms

Media/parameter	Reporting format	Date of form
Water and Land	Form water 1 or other form as agreed in writing by Natural Resources Wales	04/02/2022
Sewer	Form sewer 1 or other form as agreed in writing by Natural Resources Wales	04/12/2023
Water usage	Form water usage 1 or other form as agreed in writing by Natural Resources Wales	23/02/2017
Energy usage	Form energy 1 or other form as agreed in writing by Natural Resources Wales	23/02/2017
Other performance indicators	Form performance 1 or other form as agreed in writing by Natural Resources Wales	23/02/2017

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	EPR/BV8024IW
Name of operator	
Location of Facility	
Time and date of the detection	

(a) Notification requirements for any activity that gives rise to an incident or accident which significantly affects or may significantly affect the environment	
To be notified within 24 hours of detection	
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) Notification requirements for the breach of a permit condition	
To be notified within 24 hours of detection unless otherwise specified below	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

(c) In the event 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:	
To be notified within 24 hours of detection	
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.

“Annex I” means Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“Annex II” means Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“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 Natural Resources Wales 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.

“background concentration” means such concentration of that substance as is present in:

- for emissions to surface water, the surface water quality up-gradient of the site; or
- for emissions to sewer, the surface water quality up-gradient of the sewage treatment works discharge.

“building” means a construction that has the objective of providing sheltering cover and minimising emissions of noise, particulate matter, odour and litter.

“combined heat and power” or “CHP” or “Cogeneration” means the simultaneous generation in one process of thermal energy and electrical or mechanical energy

“disposal” or “D” means any of the operations provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“emissions to land” includes emissions to groundwater.

“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 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 or background concentration limit.

“first put into operation” means that the plant must have been fired with its design fuel up to its full load. This can be, but does not have to be, during commissioning.

“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.

“hazardous property” has the meaning in Annex III of the Waste Framework Directive

“hazardous waste” has the meaning given in the Hazardous Waste (Wales) Regulations 2005 (as amended)

“hazardous substance” means a substance classified as hazardous as a consequence of fulfilling the criteria laid down in parts 2 to 5 of Annex I to Regulation (EC) No 1272/2008

“impermeable surface” means a surface or pavement constructed and maintained to a standard sufficient to prevent the transmission of liquids beyond the pavement surface

“Industrial Emissions Directive” means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions

“limited operating hours MCP” means an MCP that meets the requirements of paragraph 8 of Part 2 of Schedule 25A of the EP Regulations

“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.

“Medium Combustion Plant Directive” or *“MCPD”* means Directive 2015/2193/EU of the European Parliament and of the Council of the limitation of emissions of certain pollutants into the air from medium combustion plants.

“Natural gas” means naturally occurring methane with no more than 20 % by volume of inert or other constituents

“operating hours” means the time, expressed in hours, during which a combustion plant is operating and discharging emissions into the air, excluding start-up and shut-down periods

“Pests” means Birds, Vermin and Insects.

“quarter” means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

“recovery” or *“R”* means any of the operations provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“residue” means the solid waste generated by the waste treatment activity and is not directly related to the type of waste treated in the plant

“sealed drainage system” in relation to an impermeable surface, means a drainage system with impermeable components which does not leak and which will ensure that:

- no liquids will run off the surface otherwise than via the system
- all liquids entering the system are collected in a sealed sump, except where liquids may be lawfully discharged

“specified generator” or *“SG”* means has the meaning given in paragraph 2(1) of Schedule 25B of the EP Regulations

“Waste code” means the six digit code referable to a type of waste in accordance with the list of wastes established by Commission Decision 2000/532/EC as amended from time to time (the ‘List of Wastes Decision’) and in relation to hazardous waste, includes the asterisk.

“Waste Framework Directive” or *“WFD”* means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste

“Waste Treatment BAT Conclusions” means the BAT Conclusions for the Waste Treatment sector published as a Commission Implementing Decision EU 2018/1447 in the Official Journal of the EU on 17 August 2018

“year” means calendar year ending 31 December.

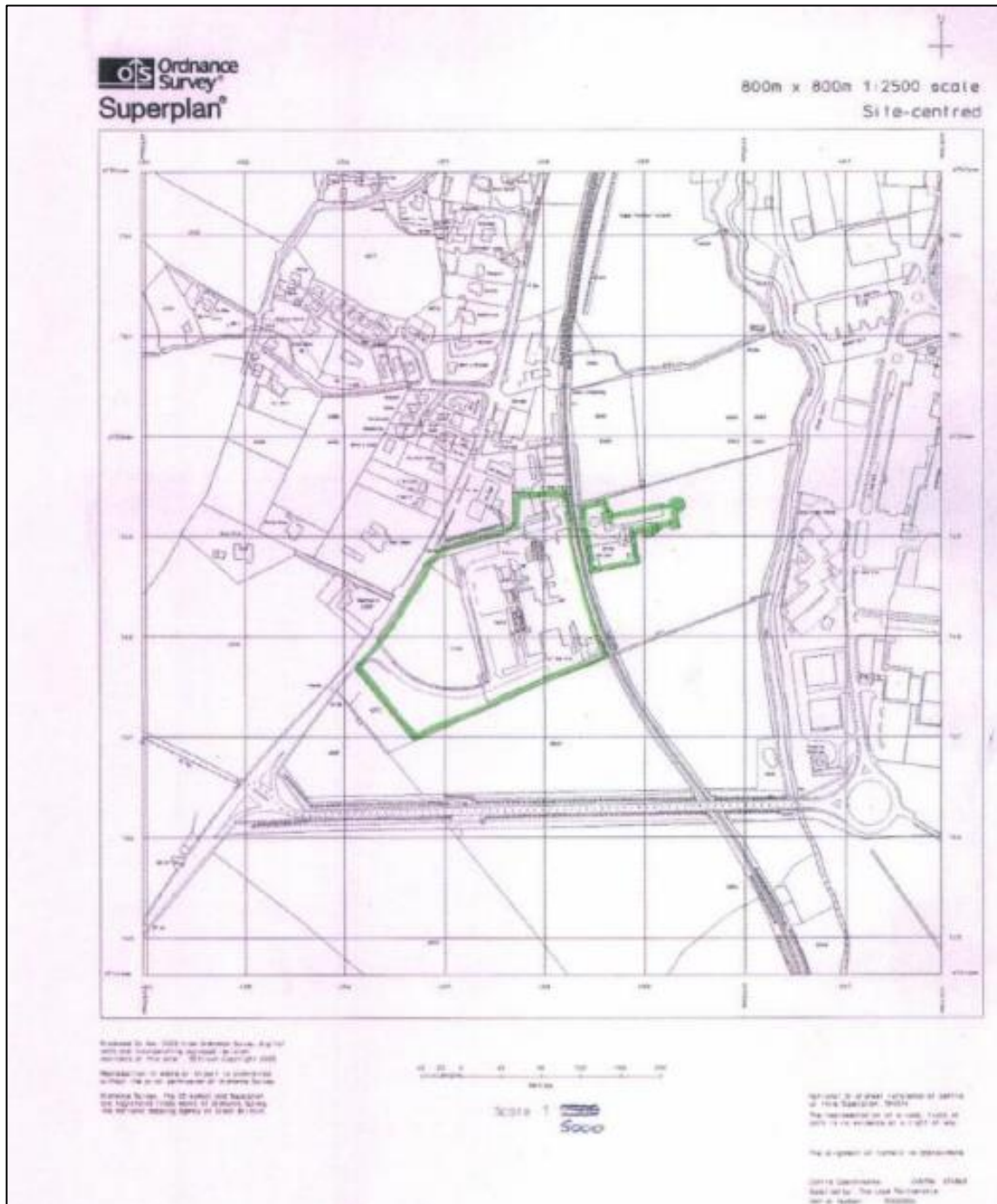
Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

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

- (a) in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273 K, 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
- (b) in relation to emissions from non-combustion sources, the concentration at a temperature of 273 K and at a pressure of 101.3 kPa, with no correction for water vapour content

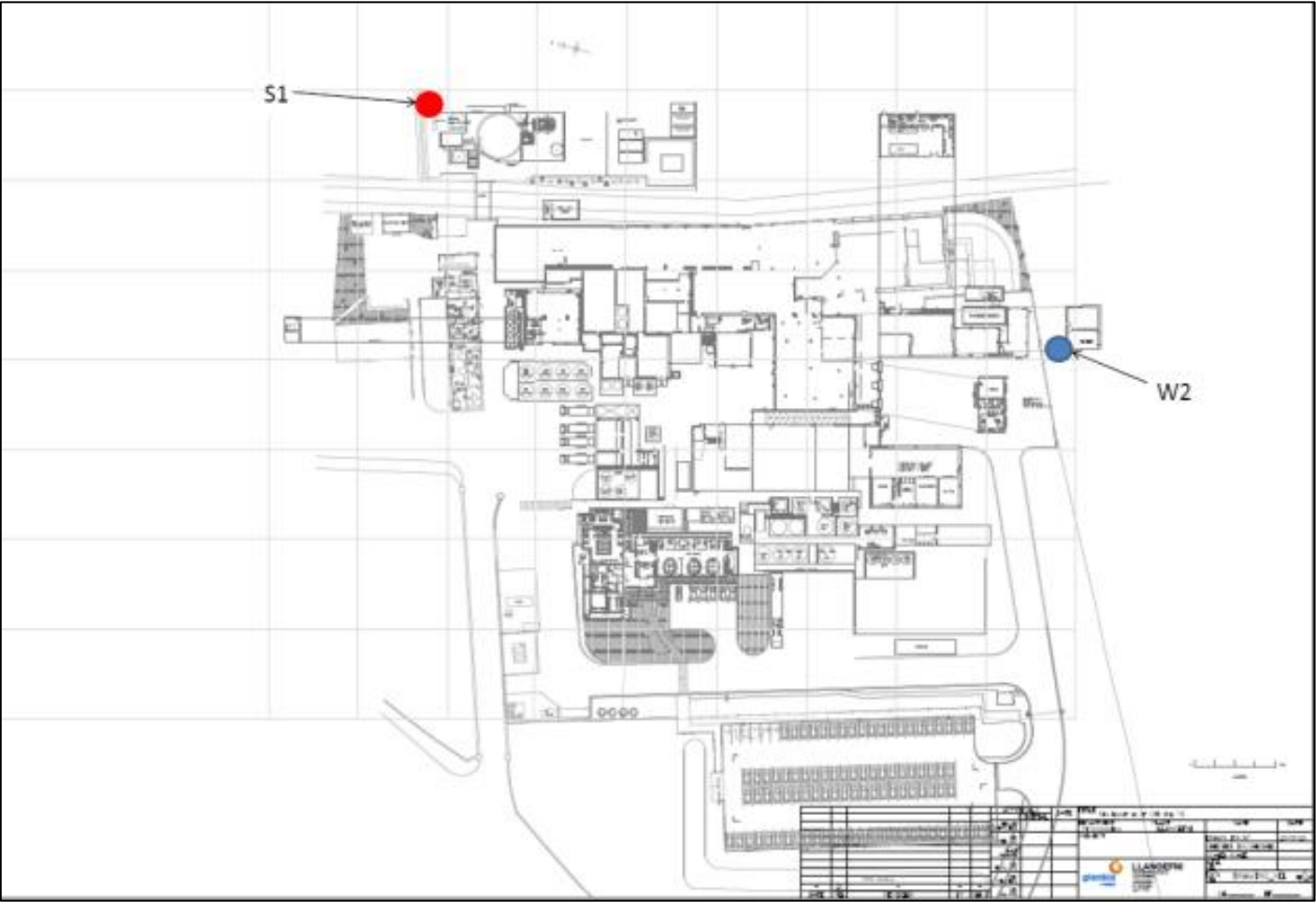
Schedule 7 - Site plan

Site Plan



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Emission points plan



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