

# Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

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Cornish Farm Dairy Limited

Trewithen Dairy  
Greymare Farm  
Lostwithiel  
Cornwall  
PL22 0LW

**Permit number**

EPR/RP3207BW

# Trewithen Dairy

## Permit number EPR/RP3207BW

### Introductory note

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

The main features of the permit are as follows.

Trewithen Dairy is a milk processing installation, which receives approximately 300,000 litres of milk per day; falling under Section 6.8 Part A(1)(e) of the Environmental Permitting Regulations.

The process on site includes unloading/intake of milk and raw materials/packaging and storage (ambient, chilled and frozen). Production includes milk separation, milk and cream standardization & pasteurization, cooking/cooling of creams and storage of finished milks/creams. The site also weighs and blends raw materials into batched products which are fermented. Filling is into poly-bottles of various sizes, buckets, export tankers & palecons or depositing into retail pots and bulk bags from 56g to 9Kg. Retail pots are further metal detected, coded and sleeved before palletisation. Finished products are stored (chilled) prior to picking, loading & distribution on chilled vehicles.

The main emissions to air arise from two steam boilers, used to generate heat needed for milk processing, each having a net rated thermal input of 2.3 MWth. The boilers utilise Light Fuel Oil (LFO) as a fuel to raise water temperature to produce steam at 7 bar pressure with a maximum capacity of 2500Kgs.

The site has operated since 1976 but previously did not fall into regulation. The manufacture of dairy products first commenced in 1994 and has grown in scale since that date. However, due to increased production capacity (proposed increase to 430,000 litres per day), the dairy is now above permitted thresholds and is considered to be an installation.

In addition to the main listed activity, there is an effluent treatment plant which currently treats approximately 243m<sup>3</sup>/day of effluent, falling under Section 5.4 Part A(1)(i)(ii). A planned upgrade to this system form part of this permit, which will increase the treatment capacity to 300m<sup>3</sup>/day. The treated effluent is discharged to groundwater via two infiltration systems (Outlet 1 & 2), previously permitted under a groundwater discharge activity permit (Permit ref: EPR/AB3991RQ) but now forming part of this permit.

The main production site is predominantly hard standing with drainage capture to ensure that contaminated surface waters and raw products spilled are contained and directed to the effluent treatment plant. One exception is the cream room line which links directly to the clay lined pits/lagoon. It is proposed that upgrade on the drainage system will divert all spills to the effluent drainage network. The vehicle refuelling area has drainage control linked to a forecourt interceptor. The current effluent treatment system is sited on concrete pads with areas of unsealed ground between vessels. This is not considered to provide sufficient drainage and control in the event of uncontrolled effluent loss. The upgrade design includes siting of plant on purpose built concrete pads with suitable reinforcement and foundations to prevent settlement, slab failure and cracking. Joints are to be sealed with chemically resistant joint sealer and pipework intrusions to be appropriately engineered. The operator has agreed that the clay lined pits/lagoons will be fully decommissioned by the end of 2022 when the effluent treatment system upgrades are complete.

It should be noted that due to capacity problem with current ETP, the operator is currently reliant on landspreading of raw and untreated effluent and sludges. However, to manage the sludge on site, the operator holds permits to enable landspreading of sludge to be undertaken (Permit ref:JP3496EF). There are two tanks (each with maximum capacity of 950m<sup>3</sup>) on site which allow the operator to temporarily store these sludges pending land spreading, and these also form part of this installation. The operator shall ensure that all landspreading of raw and treated effluent ceases when all upgrades to the ETP is complete.

A review on the current ETP performance was undertaken by the operator and an upgrade was agreed to improve the treatment capacity and quality of the overall ETP system. The upgrade will involve the conversion of the existing SBR system to a continuous process (CASP) capable of treating up to 300m<sup>3</sup> per day whilst still maintaining compliance with the current discharge parameters. Any proposed changes to the parameters, including the permitted discharge volume are subject to improvement conditions.

As part of the planned ETP upgrade, the operator will utilise and repurpose existing SBR tank and aerators. Also, an additional aeration tank, a clarifier tank and a selector tank will be added to the upgraded ETP.

The site is centred at NGR SX 12746 63725. There is a superficial geology of alluvium - clay, silt, sand and gravel. Bedrock geology is the Mercia mudstone group - mudstone and halite-stone. The underlying strata are classified as a "secondary aquifer", un-superficial and bedrock strata. The soil beneath the site has high leaching potential. The ground water beneath site is classified as "High Vulnerability" and there are water features in the proximity of the site.

There are 2 special Areas of conservation located within 8km of the installation, 5 local wild life sites within 2km of the installation, and 6 ancient woodland located within 2km of the installation. These sites are designated as River camel (SAC); Breney Common and Goss & Tregoss Moor (SAC); Lanhydrock; Bofamel; Glynn Valley Woods; Boconnoc Estate and Woodlands; Grey Mare Downs; Newbridge Wood; Leball/Cabilla Woods; and Boconnoc Park.

The status log of the 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 EPR/RP3207BW/A001	Duly made 12/02/2021	Application for bespoke food and drink permit.
Additional information received	09/10/2020	Boilers power and cooling and chillers document
Additional information received	12/01/2021	H1 Risk assessment, BAT assessment, process description and air quality assessment.
Additional information received	03/02/2021	Air quality modelling files
Additional information received	21/05/2021	Site drainage plan and EMS
Additional information received	31/08/2021	Site plans, tank plans, updated EMS and ETP Project schedule
Additional information received	13/09/2021	Bunded storage tank plan
Additional information received	16/09/2021	Updated containment design risk assessment, external tank plan and installation boundary
Permit determined EPR/RP3207BW	07/12/2021	Permit issued to Cornish Farm Dairy Limited.

End of introductory note

# Permit

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

### Permit number

**EPR/RP3207BW**

The Environment Agency hereby authorises, under regulation 13 of the Environmental Permitting (England and Wales) Regulations 2016

**Cornish Farm Dairy Limited** (“the operator”),

whose registered office is

**Greymare Farm**

**Lostwithiel**

**Cornwall**

**PL22 0LW**

company registration number **06155887**

to operate an installation at

**Trewithen Dairy**

**Greymare Farm**

**Lostwithiel**

**Cornwall**

**PL22 0LW**

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

Name	Date
David Griffiths	07/12/2021

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").

### **2.2 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 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.

### **3.2 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 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.

### **3.3 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.
- 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, and 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.

4.2.5 Within 1 month of the end of each quarter, the operator shall submit to the Environment Agency using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter, if during that quarter the total amount accepted exceeds 100 tonnes of non-hazardous waste or 10 tonnes of hazardous waste.

## 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 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.

4.3.4 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.

4.3.5 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) 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.

4.3.6 The Environment Agency 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, 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 A(1)(e) Treating and processing milk, the quantity of milk received being more than 200 tonnes per day (average value on an annual basis).	Processing of milk and other dairy products	From receipt of milk and raw materials/packaging, milk separation, milk and cream standardization and pasteurization, cooking/cooling of creams and storage of WIP and finished milks/creams, bottling, storage and dispatch of finalised products and waste.
AR2	Section 5.4 A(1)(a)(i) Disposal of non-hazardous waste with a capacity exceeding 50 tonnes per day involving biological treatment.	Operation of an effluent treatment system utilising activated sludge, aeration and dissolved air floatation.	From generation of waste water to discharge to ground via two infiltration systems.
<b>Directly Associated Activity</b>			
AR3	Operation of boilers for the generation of steam	Two 2.3 MWth Light Fuel Oil boilers	Includes oil receipt and storage. Maximum storage limit of 5000 litres of fuel oil.
AR4	Effluent sludge storage and management	Storage of sludge arising from on-site effluent treatment process in two designated tanks each having a maximum storage capacity of 950m <sup>3</sup> .	From generation of sludge arising from effluent treatment plant on site to disposal/recovery.

<b>Table S1.2 Operating techniques</b>		
<b>Description</b>	<b>Parts</b>	<b>Date Received</b>
Application EPR/RP3207BW/A001	Supporting documents: The response to questions 3a, 3b, and 3c of Part B3 form of the application. EMS plan	27/02/2020
Response to Schedule 5 Notice dated 30/04/2020	Documents received: Detailed site infrastructure plan Site Drainage plan Site Emergency Response Plan Site Spill Response Procedure Bulk Delivery Procedure Bulk Collection Procedure Emptying and cleaning bunded areas Weekly Site Monitoring	21/05/2020

<b>Table S1.2 Operating techniques</b>		
<b>Description</b>	<b>Parts</b>	<b>Date Received</b>
Response to Schedule 5 Notice dated 23/06/2021	Spillage procedure Bulk Liquid procedure Emergency Response Plan	31/08/2021
Additional information	Response to questions regarding ETP and discharge to ground. Documents supplied include: <ul style="list-style-type: none"> <li>• SBR Soakaway Design Layout in Steep Field</li> <li>• Soakaway Variation Permit (EPR/AB3991RQ)</li> <li>• Drainage Area Calculation</li> <li>• Cornish Farm Dairy Site Map</li> <li>• Containment design risk assessment</li> </ul>	09/10/2020
Additional information	Air Quality Modelling Files	03/02/2021

<b>Table S1.3 Improvement programme requirements</b>		
<b>Reference</b>	<b>Requirement</b>	<b>Date</b>
IC1	The operator shall complete the improvements to the effluent treatment schedule detailed in the "Project Schedule", and subject to any associated improvement conditions, unless otherwise agreed in writing with the Environment Agency. This schedule includes reference to the following phased changes to the effluent treatment system and infrastructure:  Phase 1 -ETP capacity upgrade from SBR to CASP, including installation of remote monitoring instruments and equipment.  Phase 2- ETP capacity upgrade to include redundancy on key equipment, including second CASP aeration tank and second DAF.  Phase 3 - Complete site bunding and decommission clay-lined lagoon (subject to IC3).	As detailed in the schedule, unless otherwise agreed in writing by the Environment Agency.
IC2	The Operator shall provide a written report demonstrating their proposed monitoring regime, to comply with the requirements in Table S3.2, which includes but is not limited to: <ul style="list-style-type: none"> <li>• copies of the monitoring procedures and methods you use</li> <li>• performance and validation data for the methods you use, for example, limits of detection, linearity, operating ranges – including for surrogate methods</li> <li>• training and professional development records for staff involved in monitoring</li> <li>• calibration and maintenance procedures, records and schedules</li> <li>• monitoring equipment instruction manuals and performance data</li> </ul>	Within 6 months of the completion of commissioning of the upgraded effluent treatment system

<b>Table S1.3 Improvement programme requirements</b>		
<b>Reference</b>	<b>Requirement</b>	<b>Date</b>
IC3	<p>The operator shall provide a written BAT assessment report demonstrating how their upgraded ETP, including the CASP aeration tank and the additional DAF plant, and drain networks meets BAT requirements, and all storage tanks meet CIRIA C736 guidance.</p> <p>A written report shall be submitted for approval setting out the results and conclusions of the assessment including where necessary proposals for improvements to meet the requirements. Where notified in writing by the Environment Agency that the requirements are not met, the operator shall submit proposals or further proposals for rectifying this in accordance with the timescale in the notification.</p> <p>The proposals shall be implemented in accordance with the Environment Agency's written approval</p>	07/12/2022
IC4	<p>Prior to the increased discharge volume of 300m<sup>3</sup>/day being effective, the operator shall provide a revised groundwater risk assessment based on the increased volume. The assessment is required to demonstrate that the current infiltration systems are appropriately sized to ensure sufficient soak away, and that the limits currently set are appropriate, or need to be revised to ensure adequate protection of groundwater. A written report shall be submitted for approval in writing by the Environment Agency prior to any increased discharge volume being permitted.</p>	Within 3 months of the completion of commissioning of the upgraded effluent treatment system

## 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% w/w sulphur content

## Schedule 3 – Emissions and monitoring

<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>
A1 SX 12698 63690	CFB Boiler Fuel oil 2.3 MWth	Products of combustion	No limits set	--	--	--
A2 SX 12699 63694	Byworth Boiler Fuel oil 2.3 MWth	Products of combustion	No limits set	--	--	--

<b>Emission point ref. &amp; location</b>	<b>Parameter</b>	<b>Source</b>	<b>Limit (incl. Unit)</b>	<b>Reference period</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
W1 on site plan in schedule 7 - emission to land via groundwater infiltration system at Outlet 1 (SX 12266 62815) & 2 (SX 12416 64178)	Total daily volume of discharge	Site effluent treatment plant	243 m <sup>3</sup> /day (100 m <sup>3</sup> /day via Outlet 2 and 143 m <sup>3</sup> /day via Outlet 1) [Note 1]	24-hour total	Continuous	MCERTS self-monitoring of effluent flow scheme
	15-minute instantaneous or averaged flow		No limit set	15 minutes	Continuous	MCERTS self-monitoring of effluent flow scheme
	Ammoniacal nitrogen (expressed as N)		5 mg/l	Instantaneous (spot sample)	Weekly	BS EN ISO 11732
	ATU-BOD as O <sub>2</sub>		20 mg/l	Instantaneous (spot sample)	Weekly	BS EN 1899-1
	Total phosphorus		5 mg/l	Instantaneous (spot sample)	Weekly	BS EN ISO 15681-1
	pH		6 - 9	Instantaneous (spot sample)	Continuous	BS ISO 10523



<b>Table S3.2 Point source discharge to groundwater – emission limits and monitoring requirements</b>						
<b>Emission point ref. &amp; location</b>	<b>Parameter</b>	<b>Source</b>	<b>Limit (incl. Unit)</b>	<b>Reference period</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
	Visible oil or grease		No significant trace present so far as reasonably practicable	Instantaneous (visual examination)	NA	Visual inspection
Note 1: The maximum daily discharge is limited to 243m <sup>3</sup> /day until Improvement Condition IC4 is completed.						

<b>Table S3.3 Table S3.3 – Point source discharge to water (other than sewer) for the surface water run-off</b>						
<b>Emission point ref. &amp; location</b>	<b>Parameter</b>	<b>Source</b>	<b>Limit (incl. Unit)</b>	<b>Reference period</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
Surface water drainage point	Discharge of uncontaminated surface water	Non-contaminated surface water from site drainage	-	-	-	-

## 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 water (other than sewer) and land Parameters as required by condition 3.5.1	M1 (Effluent sampling) Outlet 1 & 2 (monitored at monitoring points M2 & M3)	Quarterly	1 January, 1 April, 1 July, 1 October

<b>Table S4.2: Annual production/treatment</b>	
<b>Parameter</b>	<b>Units</b>
Milk processed	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
Total raw material used	Annually	Tonnes
Specific water usage	Annually	m <sup>3</sup> /tonne of raw material used
Specific water discharge	Annually	m <sup>3</sup> /tonne of raw material used
Specific energy usage	Annually	MWh/tonne of raw material used

<b>Table S4.4 Reporting forms</b>		
<b>Parameter</b>	<b>Reporting form</b>	<b>Form version number and date</b>
Point source discharge to groundwater and land	Reporting of groundwater monitoring form, or other forms as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Energy usage	Reporting of energy usage form, or other forms as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Water usage	Reporting of water usage form, or other forms as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Other performance indicators	Reporting of other performance indicators form, or other forms 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.

“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 limit.

“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.

“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 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.

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

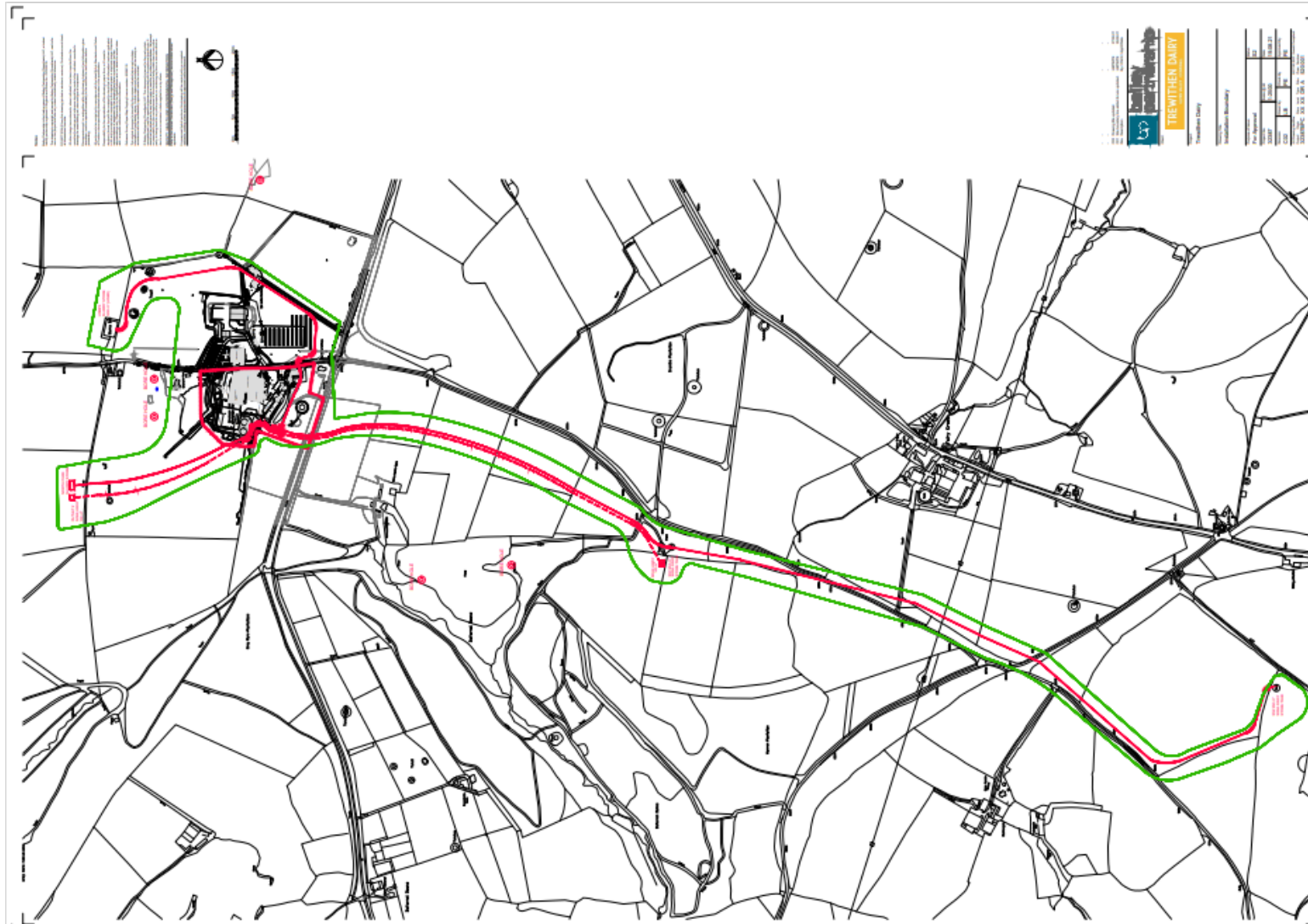
Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

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 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



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END OF PERMIT

# Reporting Forms



**Permit Number:**  
*EPR/RP3207BW*

**Operator:** *Cornish Farm Dairy Limited*

**Facility:** *Trewithen Dairy*

**Form Number:**  
WaterUsage1 /  
DD/MM/YY

**Reporting of Water Usage for the year [XXXX]**

<b>Water Source</b>	<b>Usage (m<sup>3</sup>/year)</b>	<b>Specific Usage (m<sup>3</sup>/unit output)</b>
Mains water		
Site borehole		
River abstraction		
<b>TOTAL WATER USAGE</b>		

Operator's comments:

Signed .....

Date.....

(authorised to sign as representative of Operator)

**Permit Number:** *EPR/RP3207BW*

**Operator:** *Cornish Farm Dairy Limited*

**Facility:** *Trewithen Dairy*

**Form Number:** *Energy1 / DD/MM/YY*

**Reporting of Energy Usage for the year [XXXX]**

Energy Source	Energy Usage		Specific Usage (MWh/unit output)
	Quantity	Primary Energy (MWh)	
Electricity *	MWh		
Natural Gas	MWh		
Gas Oil	tonnes		
Recovered Fuel Oil	tonnes		
<b>TOTAL</b>	-		

\* Conversion factor for delivered electricity to primary energy = 2.4

Operator's comments:
----------------------

Signed .....

Date.....

(Authorised to sign as representative of Operator)

**Permit Number:** *EPR/RP3207BW*

**Operator:** *Cornish Farm Dairy Limited*

**Facility:** *Trewithen Dairy*

**Form Number:** *Groundwater1 / DD/MM/YY*

**Reporting of groundwater monitoring for the period from *DD/MM/YYYY* to *DD/MM/YYYY***

<b>Monitoring Point</b>	<b>Substance / Parameter</b>	<b>Trigger level</b>	<b>Reference Period</b>	<b>Result <sup>[1]</sup></b>	<b>Test Method <sup>[2]</sup></b>	<b>Sample Date and Times <sup>[3]</sup></b>	<b>Uncertainty <sup>[4]</sup></b>

1. The result given is 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, the result is given as the 'minimum – maximum' measured values.
2. Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.
3. For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

**Permit Number:** *EPR/RP3207BW*

**Operator:** *Cornish Farm Dairy Limited*

**Facility:** *Trewithen Dairy*

**Form Number:** *Groundwater1 / DD/MM/YY*

**Reporting of other performance indicators for the period *DD/MM/YYYY* to *DD/MM/YYYY***

<b>Parameter</b>	<b>Units</b>
Total raw material used	tonnes

Operator's comments:

Signed .....

Date.....

(Authorised to sign as representative of Operator)