

Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Thatchers (Myrtle Farm) Limited

Thatchers (Myrtle Farm)
Thatchers Cider Company
Myrtle Farm
Station Road
Sandford
Winscombe
BS25 5RA

Permit number

EPR/LP3004MC

Thatchers (Myrtle Farm)

Permit number EPR/LP3004MC

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

This permit controls the operation of an installation which manufactures various cider and blackcurrant beverage products.

The primary listed activity falls under Section 6.8 Part A(1)(d)(ii) of the Environmental Permitting Regulations (EPR) 2016:

Treatment and processing, other than exclusively packaging, of the following raw materials, whether previously processed or unprocessed, intended for the production of food or feed (where the weight of the finished product excludes packaging) -

ii) only vegetable raw materials with a finished product production capacity greater than 300 tonnes per day.

There is also a secondary listed activity which falls under Section 5.4 A(1)(a)(ii) of EPR 2016. This activity relates to the operation of the on-site effluent treatment plant (ETP):

Disposal of non-hazardous waste in a facility with a capacity of more than 50 tonnes per day by physico-chemical treatment.

The installation is operated by Thatchers (Myrtle Farm) Limited and is located at National Grid Reference (NGR) ST4189259793, in the village of Sandford, approximately 5 kilometres North of Axbridge in Somerset. The site is adjacent to the A368. The Strawberry Line walking and cycle path runs through the site. There is residential housing adjoining the south east and south west edges of the permit boundary, as well as some other commercial properties nearby.

Apples are grown by the Operator adjacent to the permit boundary and additional apples grown elsewhere are brought on to site by tipper truck. Leaves and twigs are removed and the apples are crushed by five hydraulic presses. The remaining apple pomace is sent off-site by trailer for anaerobic digestion elsewhere in Somerset. The apple juice is filtered through 0.2 micron filters to remove bacteria and yeast. The concentrated juice is chilled at fridge temperature in 24 insulated containers. It is then fermented in 36 125,000 litre fermentation tanks. The cider is put into cans and kegs on site.

In the apple season downtime blackcurrants are brought onto site in large containers and pressed by the same methods. The juice is kept at 65°C in a jam-like consistency. The remaining blackcurrant pomace is sent off-site to be dried and the seeds used to make omega 3 supplements.

The site's maximum capacity for fruit-pressing is 1,200 tonnes per day in total. This includes both apples and blackcurrants.

The effluent is pumped north east through a pipeline from the main Myrtle Farm factory site to the ETP at Bridge Farm where it passes through a series of effluent treatment lagoons during the effluent treatment process. The pipeline crosses land owned by a third party. The effluent treatment process includes heating, caustic pH dosing, urea dosing to promote bacteria growth and aeration in order to add oxygen to promote aerobic bacteria growth and keep all solids in suspension. The effluent then enters a settlement chamber (clarifier) with a half-bridge scraper to separate the sludge, which is disposed of by a third party or passed back through the effluent treatment process. Monitoring is in place for Chemical Oxygen Demand (COD), Biological Oxygen Demand (BOD, pH and suspended solids. After sludge-removal, the liquid effluent is discharged to sewer under at trade effluent discharge consent with Wessex Water.

There are three natural gas fired boilers with a thermal input of 2.205 MW each, these are a directly associated activity. They are classed as existing Medium Combustion Plants (MCP) under Schedule 25A of EPR as they first came into operation before December 2018. The existing MCP limits from the MCP Directive have been applied to the plant.

There is a biomass boiler with a thermal input of 0.014 MW, outside the permit boundary, which is out of scope as it is used for heating offices which are also outside the permit boundary, as well as being below the MCP threshold.

The site has a climate change agreement.

There are six European Habitats Directive sites within 10km of the installation, the closest being the North Somerset and Mendip Bats Special Area of Conservation (SAC). There are two Sites of Special Scientific Interest (SSSI) within 2km of the installation. There is also one Local Nature Reserve, seven Local Wildlife Sites and four ancient woodlands within 2km of the installation.

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 EPR/LP3004MC/A001	Duly made 26/07/2022	Application for a permit for cider production.
Additional information received	12/10/2022	Further information regarding effluent treatment process.
Additional information received	30/03/2023	Updated site plan and confirmation that Medium Combustion Plant are existing.
Additional information received	13/04/2023	Confirmation of capacity and pesticide information.
Permit determined EPR/LP3004MC/A001 (Billing ref. LP3004MC).	13/04/2023	Permit issued to Thatchers (Myrtle Farm) Limited.

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/LP3004MC

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

Thatchers (Myrtle Farm) Limited (“the operator”),

whose registered office is

**Myrtle Farm
Station Road
Sandford
Winscombe
BS25 5RA**

company registration number **08473484**

to operate an installation/part of an installation at

**Thatchers (Myrtle Farm)
Thatchers Cider Company
Myrtle Farm
Station Road
Sandford
Winscombe
BS25 5RA**

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

Name	Date
Sandra Cavill	13/04/2023

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”).

2.2 The site

2.2.1 The activities shall not extend beyond the site, being the land shown edged in red 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) 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) 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, 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 For the following activities referenced in schedule 1, table S1.1 (AR 3); 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 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

Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity and waste types
AR1	S6.8 A(1)(d)(ii)	<p>Cider production and blackcurrant juice extraction:</p> <p>Treatment and processing, other than exclusively packaging, of the following raw materials, whether previously processed or unprocessed, intended for the production of food or feed (where the weight of the finished product excludes packaging) -</p> <p>(ii) only vegetable raw materials with a finished product production capacity greater than 300 tonnes per day.</p>	<p>From receipt of raw materials to transfer to packaging activities.</p> <p>Includes fermentation from apple juice and concentrate and processing including maturation, filtration, blending and pasteurisation.</p> <p>Capacity for fruit-pressing is limited to 1,200 tonnes per day in total</p>
AR2	S5.4 A(1)(a)(ii)	<p>Effluent treatment:</p> <p>Disposal of non-hazardous waste with a capacity exceeding 50 tonnes per day involving -</p> <p>(ii) physico-chemical treatment</p>	<p>From generation of effluent, receipt into effluent treatment plant and discharge to sewer.</p>
Directly Associated Activity			
AR3	Steam supply	<p>Medium combustion plants:</p> <p>Steam supply - combustion of natural gas, for the purpose of steam generation.</p> <p>3 x 2.205 MWth package steam boilers.</p>	<p>From receipt of fuel to release of products of combustion to air.</p>
AR4	Storage and handling of raw materials.	Storage and handling of raw materials.	From receipt of raw materials until used in the process.
AR5	Storage and handling of solid wastes.	Storage and handling of solid wastes.	From generation of waste to storage pending removal for disposal or recovery.
AR6	Packaging and storage of finished products.	Packaging and storage of finished products.	From receipt of finished products to dispatch from installation.
AR7	Water discharges controlled water.	Discharge of site surface water from the installation.	Handling and storage of site drainage until discharge to the site surface water system.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application EPR/LP3004MC/A001	<p>Application forms B2 and B3 and all referenced supporting information including:</p> <ul style="list-style-type: none"> • Appendix 2b Emission point plan, dated 02/2021 • Appendix 3 BAT Analysis for fruit • Appendix 3c(ii) raw materials • Appendix 3c(iv) Tank map • Appendix 8 Adapting to climate change • Appendix 9 Non Technical summary • Appendices 6a – 6e • Appendix 11 Thatchers EMS summary • Appendix 12 Thatchers risk assessment • Appendix 13 Boundary Map, dated 27/07/2021 	19/10/2021
Application EPR/LP3004MC/A001 further information received	<ul style="list-style-type: none"> • Noise and odour control procedure, dated December 2021 • Appendix 17 Additional oil fuel chemical storage • Drainage Layout, drawing number 20.435/100, dated November 2020 • Thatchers Effluent Treatment schematic, dated 2022 	26/04/2022
Response to Schedule 5 Notice dated 15/09/2022	Further information about effluent treatment process, including a schematic diagram dated 11/10/2022	12/10/2022
Response to request for further information dated 24/03/2023	<p>Confirmation that Medium Combustion Plant are existing in updated document:</p> <ul style="list-style-type: none"> • “Appendix 2b Site Plan Current w. Stacks Chimneys and Vents numbered v1.1” version 1.1, dated 30/03/2023 <p>Confirmation of effluent pipe routes and leak detection techniques in amended site plan:</p> <ul style="list-style-type: none"> • “Appendix 2b Site Plan Current w. Stacks Chimneys and Vents numbered v1.1” version 1.1, dated 30/03/2023 	30/03/2023
Response to request for further information dated 12/04/2023	Confirmation of capacity for fruit pressing; confirmation of the absence of pesticides listed in “Process for Assessing Agricultural and Horticultural Produce Washing Discharges to Surface Waters 20/01/2021”.	13/04/2023

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1	The Operator shall submit, for approval by the Environment Agency, an updated Site Condition Report (SCR) in line with our H5 Guidance. The report shall be amended to include the area of land where the effluent treatment plant is located, in the north part of the permit boundary. The report shall contain the information necessary to determine the state of soil and groundwater and ensure this is maintained throughout the life of the permit. The report shall be submitted to the Environment Agency for review.	13/10/2023
IC2	To demonstrate compliance for the 'Narrative' BAT previously not achieved, the operator shall submit an energy efficiency plan for approval by the Environment Agency. This plan shall address the BAT Conclusions for Food, Drink and Milk Industries, published 04/12/2019, with respect to BAT 6a.	13/10/2023
IC3	The operator shall update their Environmental Management System to include: <ul style="list-style-type: none"> • A requirement for their growers and suppliers to notify them immediately if a new pesticide or chemical has been used in the production of the raw materials they are processing, or there is a significant increase in use of a pesticide or chemical used in the production of the raw materials they are processing and; • A system in place to identify if any new pesticides or chemicals are applied or a significant increase in use of a pesticide or chemical and that a risk assessment of the new chemicals is undertaken to ensure there is no negative impact on the effluent discharge quality and receiving environment. 	13/05/2023

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
-	-

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 [referred to as point A3] ^{Note 1}	Keg line wash set tank vent	Carbon dioxide	No limits set	-	-	-
A2 [referred to as points 4 and 5] ^{Note 1}	Cleaning chemical tank vents	No parameters set	No limits set	-	-	-
A3 [referred to as point 8] ^{Note 1}	Ammonia emergency extract and overpressure relief vent	Ammonia	No limits set	-	-	-
A4 [referred to as points 9 – 12] ^{Note 1}	Air compressors: warmed air cooling discharge	No parameters set	No limits set	-	-	-
A5 [referred to as points 13, 23, 24, 25, 29, 30, 31, 44, 45 and 46] ^{Note 1}	Steam overpressure release valves and condensate vents	No parameters set	No limits set	-	-	-
A6 [referred to as points A14 – A17] ^{Note 1}	Cooling towers	Water vapour	No limits set	-	-	-
A7 Boiler A, [referred to as point 20] ^{Notes 1 and 2}	2.205 MWth gas fired boiler	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	250 mg/m ³	In line with web guide: Monitoring stack emissions: low risk MCPs and specified generators Published 16 February 2021	Every 3 years from date of acceptance of first monitoring measurements under condition 3.1.4	In line with web guide: Monitoring stack emissions: low risk MCPs and specified generators Published 16 February 2021
		Carbon Monoxide	No limit set			
A8 Boiler B, [referred to as point 21] ^{Notes 1 and 2}	2.205 MWth gas fired boiler	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	250 mg/m ³	In line with web guide: Monitoring stack emissions: low risk MCPs and specified generators Published 16 February 2021	Every 3 years from date of acceptance of first monitoring measurements under condition 3.1.4	In line with web guide: Monitoring stack emissions: low risk MCPs and specified generators Published 16
		Carbon Monoxide	No limit set			

						February 2021
A9 Boiler C, [referred to as point 22] Note 1 and 2	2.205 MWth gas fired boiler	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	250 mg/m ³	In line with web guide: Monitoring stack emissions: low risk MCPs and specified generators Published 16 February 2021	Every 3 years from date of acceptance of first monitoring measurements under condition 3.1.4	In line with web guide: Monitoring stack emissions: low risk MCPs and specified generators Published 16 February 2021
		Carbon Monoxide	No limit set			
A10 [referred to as point A26] Note 1	Fermentation CO ₂ vent	Carbon dioxide	No limits set	-	-	-
A11 [referred to as point A47] Note 1	Pilot keg line CiP tank vent	No parameters set	No limits set	-	-	-
<p>Note 1: on "Appendix 2b Site Plan Current w. Stacks Chimneys and Vents numbered ED – 19102021" submitted with application EPR/LP3004/A001.</p> <p>Note 2: The monitoring requirements apply from 1 January 2025, unless otherwise advised by the Environment Agency or the boilers are replaced.</p>						

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 (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W1 Surface water attenuation pond north side of factory, emission to Hardmead Rhyne. Point 1 on Appendix 2c, submitted with application EPR/LP3004MC/A001	Uncontaminated surface water run-off from roof and yard areas	No parameters set	No limits set	-	-	-
W2 Emission to Sandmead Rhyne to east of factory site boundary. Point 2 on Appendix 2c, submitted with application EPR/LP3004MC/A001	Uncontaminated surface water run-off from roof and yard areas	No parameters set	No limits set	-	-	-

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 (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method
S1 Emission discharge from pump house to Wessex Water (continuous monitoring) to Sandmead Road pumping station to Weston-Super-Mare WRC ^{Note 1}	Site effluent treatment plant	No parameters set	No limits set	-	-	-

Note 1: On “Schedule 5 Response - Thatchers Effluent Treatment Schematic 12.10.2022”.

Schedule 4 – Reporting

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
Point source emissions to air Parameters as required by condition 3.5.1	A7, A8 and A9	Every 3 years from date of acceptance of first monitoring measurements under condition 3.1.4	1 January

Table S4.2 Annual production/treatment	
Parameter	Units
Cider produced (excluding packaging)	Tonnes (t) excluding packaging
Cider despatched	Metres cubed (m ³)

Table S4.3 Performance parameters		
Parameter	Frequency of assessment	Units
Water usage	Annually	m ³
Energy usage	Annually	MWh
Other performance parameters	Annually	tonnes per production unit

Table S4.4 Reporting forms		
Parameter	Reporting form	Form version number and date
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
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	

(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	
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 limit	
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	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
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) Notification requirements for the breach of permit conditions not related to limits	
To be notified within 24 hours of detection	
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.	

(d) Notification requirements for the detection of any significant adverse environmental effect	
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.

“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.

“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.

Pests” means Birds, Vermin and Insects.

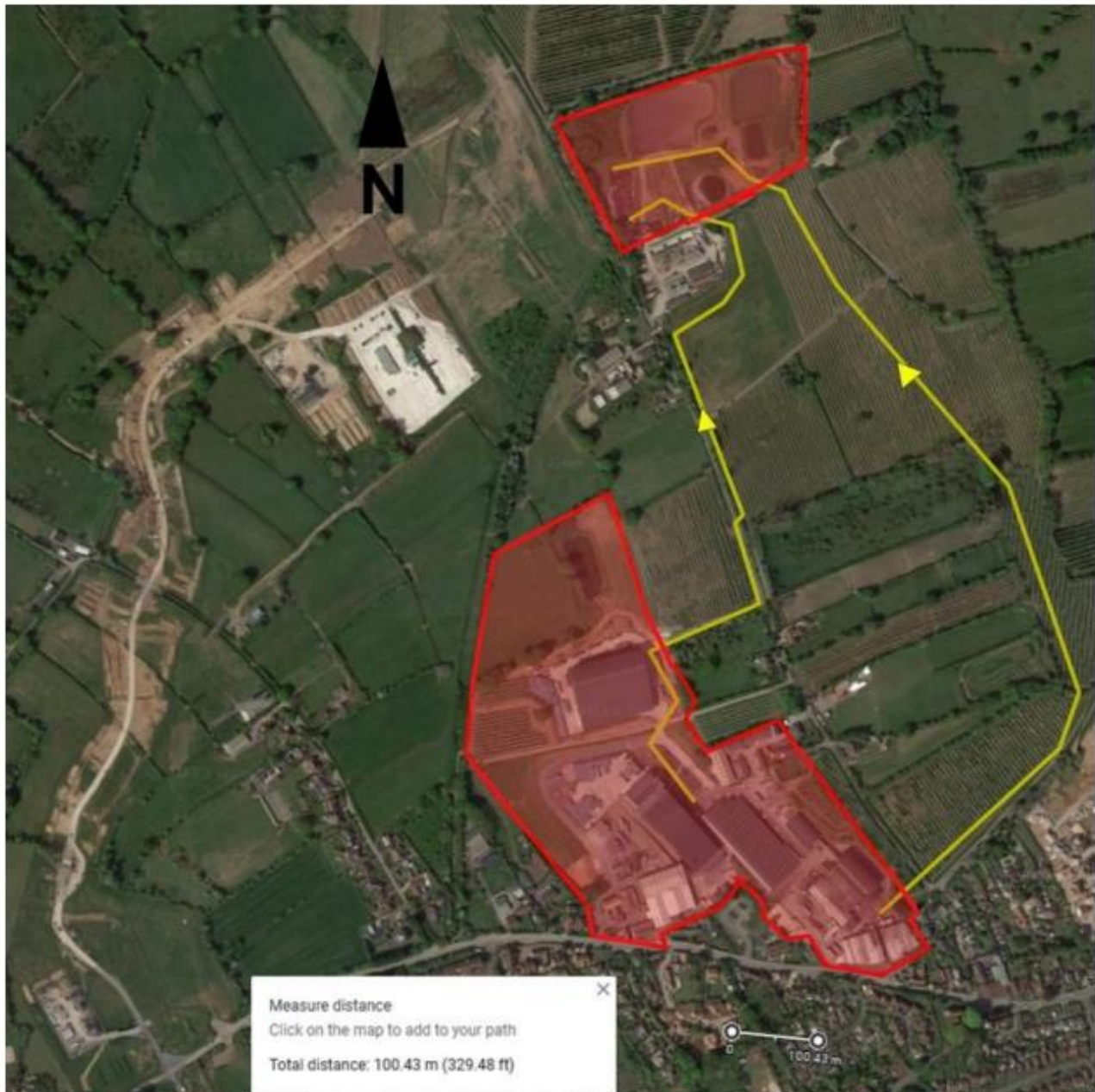
Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

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 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



- Permit Boundary
- Permit Area
- Effluent Pipelines

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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 ¹	Result ²	Sample dates and times ³	Uncertainty ⁴
[e.g. A1]	[e.g. Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)]	[e.g. 200 mg/m ³]	[e.g. daily average]	[e.g. BS EN 14181]	[State result]	[State relevant dates and time periods]	[State uncertainty if not 95% confidence interval]

Signed: [Name]

Date: [DD/MM/YY]

(Authorised to sign as representative of the operator)

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.

- ¹ 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.
- ² 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.
- ³ 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.
- ⁴ 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 ³)	Specific water usage (m ³ /unit) ²
Mains water	[insert annual usage in m ³ where mains water is used]	[insert annual usage in m ³ /unit where mains water is used]
Site borehole	[insert annual usage in m ³ where water is used from a site borehole]	[insert annual usage in m ³ /unit where water is used from a site borehole]
River abstraction	[insert annual usage in m ³ where abstracted river water is used]	[insert annual usage in m ³ /unit where abstracted river water is used]
Other – [specify other water source where applicable. Add extra rows where needed]	[insert annual usage in m ³ where applicable]	[insert annual usage in m ³ /unit where applicable]
Total water usage	[insert total annual water usage in m ³]	[insert total annual water usage in m ³ /unit]

Operator's comments

Signed: *[Name]*

Date: *[DD/MM/YY]*

(Authorised to sign as representative of the operator)

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/unit) ²
Electricity imported as delivered - source [specify source, e.g. supplied from the national grid]	<i>[insert annual consumption in MWh where electricity is imported]</i>	<i>[insert annual consumption in MWh/unit where electricity is imported]</i>
Electricity imported as primary energy 1 – conversion factor of [specify conversion factor used to convert electricity delivered to primary energy]	<i>[insert annual consumption in MWh where electricity is imported]</i>	<i>[insert annual consumption in MWh/unit where electricity is imported]</i>
Natural gas	<i>[insert annual consumption in MWh where natural gas is used]</i>	<i>[insert annual consumption in MWh/unit where natural gas is used]</i>
Gas oil – conversion factor of [specify conversion factor used to convert tonnes to MWh]	<i>[insert annual consumption in MWh where gas oil is used]</i>	<i>[insert annual consumption in MWh/unit where gas oil is used]</i>
Imported heat	<i>[insert annual consumption in MWh where heat is imported]</i>	<i>[insert annual consumption in MWh/unit where heat is imported]</i>
Other – <i>[specify other energy source and conversion factors where applicable, e.g. renewable fuel. Add extra rows where needed]</i>	<i>[insert annual consumption in MWh where applicable]</i>	<i>[insert annual consumption in MWh/unit where applicable]</i>
Electricity exported	<i>[insert annual production in MWh where electricity is exported]</i>	Not applicable
Heat exported	<i>[insert annual production in MWh where heat is exported]</i>	Not applicable

Operator's comments

Signed: *[Name]*

Date: *[DD/MM/YY]*

(Authorised to sign as representative of the operator)

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.

¹ 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.

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

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>

Operator's comments

Signed: *[Name]*

Date: *[DD/MM/YY]*

(Authorised to sign as representative of the operator)

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.