

Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Molson Coors Brewing Company (UK) Limited

Molson Coors Burtonwood Brewery

Bold Lane

Burtonwood

Warrington

WA5 4TH

Permit number

EPR/ZP3303BR

Molson Coors Burtonwood Brewery

Permit number EPR/ZP3303BR

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

Burtonwood Brewery installation is located on Bold lane just north west of Burtonwood at SJ 55553 93602. The site has been undertaking brewing activities since the 1800s and produces a variety of alcoholic and non-alcoholic drinks. It has now been brought under the Environmental Permitting Regulations as a Section 6.8 Part A(1)(d) (ii) activity- 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

The principle activity is the brewing of beers which comprises milling, mashing, lautering, wort boiling, wort cooling, fermentation, conditioning, filtration and kegging. Some drinks are bottled at the neighbouring Thomas Hardy Burtonwood Limited (THBL) bottling plant instead of being kegged.

In addition, the following directly associated activities (DAAs) are carried out at the site:

- Burning of natural gas in steam generating boiler plant;
- Storage and handling of raw materials, chemicals and fuels;
- Discharge of uncontaminated surface water via the THBL site as part of a shared services agreement;
- Packaging of finished products – kegging;
- Piped supply of brewed beers, other brewed beverages or soft drink bases to THBL for further blending or bottling;
- Treatment of abstracted water; and
- Use of chiller units to provide cooling as part of the production process and as refrigeration for storage.

The Burtonwood Brewery site is shared by Thomas Hardy Burtonwood Limited who operate a beverage blending and bottling operation. Shared services include nitrogen and carbon dioxide mains, gas mains, steam, water mains and trade effluent drainage systems.

Effluent from the process is combined with effluent from the THBL site and is discharged under a trade United Utilities effluent consent (reference 384800100401) to Warrington North Waste Water Treatment Works at a rate of up to 900m³ a day. All surface water drains (containing surface water run-off) are diverted via an oil water separator to the Phipps Brook through the surface water discharge from the THBL site.

Steam is required for the brewing process, and this is supplied through the use of two boilers with thermal input ratings of 6.5 MWth and 6.2MWth. These are classed as existing medium combustion plant and are included as directly associated activities. Monitoring requirements and emission limits for the emission points associated with these boilers are in line with the Medium Combustion Plant Directive. There are also CO₂ emissions to air from the brewing process.

Water for the process is supplied from an on-site water abstraction for which the operator holds an abstraction licence (reference 2569025019). Abstracted water is treated prior to use in the brewing process due to a high level of Iron and Manganese which requires removal prior to use.

The malt delivery and milling requires no emission to air from dust abatement systems as the dust is instead blown internally into silos, from where it is placed in drums and taken off site for use in animal feed.

The closest residential receptor is Yew Tree farm 70 metres to the east, further residential receptors are located 175 metres to the north east and 195 metres to the south west along Bold lane. There are 12 local wildlife sites and an Ancient woodland within 2km of the facility.

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/ZP3303BR/A001	Duly made 09/04/2020	Application for Brewing facility.
Additional information received	02/11/2020	Updated site condition report, site plan, BAT techniques and spill procedures.
Additional information received	22/12/2020	Confirmation of chloride monitoring.
Permit determined EPR/ZP3303BR (PAS Billing ref. ZP3303BR)	01/03/2021	Permit issued to Molson Coors Brewing Company (UK) Limited.

Other Part A installation permits relating to this installation		
Operator	Permit number	Date of issue
Thomas Hardy Burtonwood Limited	EPR/HP3731JV	10/02/2020

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/ZP3303BR

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

Molson Coors Brewing Company (UK) Limited (“the operator”),

whose registered office is

**137 High Street
Burton Upon Trent
Staffordshire
DE14 1JZ**

company registration number 00026018

to operate an installation at

**Molson Coors Burtonwood Brewery
Bold Lane
Burtonwood
Warrington
WA5 4TH**

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

Name	Date
Maxine Evans	01/03/2021

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.

1.5 Multiple operator installations

- 1.5.1 For the following activities referenced in schedule 1, table S1.1 where the operator notifies the Environment Agency under condition 4.3.1 (a) or 4.3.1 (c), the operator shall also notify without delay the other operator(s) of the installation of the same information.

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 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

3.2 Emissions of substances not controlled by emission limits

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.2.2 The operator shall:
- (a) if notified by 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.

4.3 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 “without delay”, in which case it may be provided by telephone.

Schedule 1 – Operations

Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
A1	S6.8 A1 (d)(ii) - 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	Brewing of alcoholic and non-alcoholic beverages.	From receipt of raw materials to dispatch of packaged product.
Directly Associated Activity			
A2	Combustion	Operation of two natural gas fired boilers with thermal inputs of 6.5MWth and 6.2MWth.	From receipt of fuel and water to emission of combustion gases.
A3	Chilling and refrigeration	Operation of glycol plate heat exchangers and chiller units.	Chilling of process tanks, raw material and final packaged product.
A4	Hygiene and cleaning operations	Cleaning and sanitising of equipment and production areas.	From the requirement for cleaning to readiness for re-use for production.
A5	Storage and use of chemicals	Storage and use of chemicals for cleaning.	From receipt to storage and use of chemicals.
A6	Waste Handling and storage	Storage and handling of wastes.	From generation to removal from site for recovery or disposal.
A7	Storage and handling of raw material	Handling and storage of raw materials used in the process.	From receipt & storage of materials to transfer to process areas.
A8	Packaging, storage and despatch of final product	Storage and packaging of product in dedicated facilities.	From delivery points into storage, packaging and despatch facilities to the points at which products leave the installation boundary.
A9	Water treatment	Treatment of water abstracted from onsite boreholes in coned bottomed aeration tank and filters.	From receipt of raw water to use in the process.
A10	Discharge of effluent to sewer	Discharge into foul sewer situated at Bold Lane under the terms of a trade effluent	Collection of site process effluent and process effluent from neighbouring

Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
		consent from united utilities water limited.	installation (EPR/HP3731JV) prior to discharge into foul sewer.
A11	Discharge to surface water	Discharge of clean site surface run off to surface water via consent on neighbouring installation (EPR/HP3731JV).	Discharge via a class 1 interceptor on neighbouring installation (EPR/HP3731JV).

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	Document ref: 191129_R_JER1445_TC_Environmental Permit Application Supporting Information_V2R2 referenced in response to section 3a – technical standards, Part B3 of the application form. Table 3-6: Accidents risk assessment and management plan document referenced: 191129 R JER1445 RY Environmental Risk Assessment V2 R1.	Duly Made 09/04/2020
Response to Schedule 5 Notice dated 05/06/2020	Supporting information submitted in response to schedule 5 notice: <ul style="list-style-type: none"> • Documents referenced: <ul style="list-style-type: none"> ○ BURTONWOOD BREWERY: Major Spillages; ○ BURTONWOOD BREWERY: Minor Spillages Procedure and ○ BURTONWOOD BREWERY: Spill Kit Procedure making up the management procedures for spills. • Schedule 5 response letter dated 02 November 2020 ref: JER1445 responses to questions 2, 5, 6, 10, 11 	02/11/2020

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1	The Operator shall carry out an audit of the adequacy and suitability of existing drainage arrangements, bund provision and impermeable surfacing within the installation, with reference to the guidance detailed below in points 1-3. A written report detailing the findings of the audit shall be provided to the Environment Agency for approval. It should include details of bunds including capacity, any deficiencies identified in the site containment or surfacing, the improvements proposed and the time scale for implementation. References: 1. <u>Pollution prevention for businesses</u> 2. <u>Control and monitor emissions for your environmental permit</u> 3. CIRIA 736 Containment systems for the prevention of pollution- <i>Secondary, tertiary and other measures for industrial and commercial premises</i> , London 2014, ISBN: 978-0-86017-740-1.	01/03/2022

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC2	<p>The operator shall carry out an assessment of their emissions to sewer in line with our guidance 'Surface water pollution risk assessment for your environmental permit' and BATc 11 and 12 of the best available techniques (BAT) conclusions for the food, drink and milk industries, under Directive 2010/75/EU of the European Parliament and of the Council. This should include but not be limited to:</p> <ul style="list-style-type: none"> • An inventory of pollutants in the discharge from the site. • A H1 software tool for the assessment of emissions to water with the correct sewage reduction factors (available from reference No 3 below). The H1 software tool will indicate if emissions screen out as insignificant. If they do not screen out the operator must undertake modelling of the impacts of the emissions. A report should be submitted to the Environment Agency for written approval detailing the results of this modelling. • A justification that you are providing an equivalent level of protection for both BATc 11 and 12. <p>References:</p> <ol style="list-style-type: none"> 1. <u>Surface water pollution risk assessment for your environmental permit</u> 2. <u>Food and Drink BAT conclusions</u> 3. <u>Risk assessment for specific activities- environmental permits</u> 	01/03/2022
IC3	<p>The operator shall submit to the Environment Agency for approval an updated Site Condition & IED baseline report in line with EPR H5 Guidance on SCR and the EC Commission Guidance concerning baseline reports (2014/C 136/03) dated 6th May 2016.</p> <p>This report shall include but not be limited to the following:</p> <ul style="list-style-type: none"> • Update of sections 2.7, 2.8 and Appendix C (Stage 1 – 3 assessment) within the Site Condition & IED Baseline report dated 2nd November 2020 (Ref: JER1445 V3 Rev 0) (referred to as 'SCR') to include information on: <ul style="list-style-type: none"> ○ Damage to any existing pollution prevention measures including drains, interceptors and sumps. The findings of the drainage survey required under improvement condition IC1 must be considered as part of this assessment. ○ Inclusion of reference of inspection and maintenance procedures for all pollution prevention measures and any relevant process controls. • Review of existing baseline reference data detailed within section 5.2 within the SCR to assess whether this is fit for purpose taking into account the outcomes of the Stage 1 – 3 assessment. • Where gaps are identified within the existing baseline reference data presented within section 5.2 within the SCR the operator shall submit to proposals to establish additional baseline reference data for soils and groundwater and a timescale to implement any additional intrusive works required to the Environment Agency for approval and include the findings of any additional intrusive works required within the updated Site Condition & IED baseline report. 	01/03/2022

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
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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 [Point A1 on site plan in Schedule 7]	Boiler Plant firing on natural gas	Oxides of Nitrogen (expressed as NO ₂)	200 mg/m ³	Hourly average	Annual	BS EN 14792
		Carbon Monoxide	No limit set	Hourly average	Annual	BS EN 15058
A2 [Point A2 on site plan in schedule 7]	Boiler plant firing on natural gas	Oxides of Nitrogen (expressed as NO ₂)	200 mg/m ³	Hourly average	Annual	BS EN 14792
		Carbon Monoxide	No limit set	Hourly average	Annual	BS EN 15058
A3 [Point A3 on site plan in schedule 7]	Lab domestic boiler	No parameters set	No limit set	-	-	-
A4 [Point A4 on site plan in schedule 7]	Mash conversion vessel					
A5 [Point A5 on site plan in schedule 7]	Kettle 1					
A6 [Point A6 on site plan in schedule 7]	Kettle 2					
A7 [Point A7 on site plan in schedule 7]	Lautertun					

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 on site plan in schedule 7 emission to Philips Brook	Uncontaminated surface water	No parameters set	No limit 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 on site plan in schedule 7 emission to United utilities foul sewer- Warrington North Waste Water Treatment Works	Effluent from brewing process	Chloride	--	Spot sample	Monthly	Various EN standards available (e.g. EN ISO 10304-1, EN ISO 15682)

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
Emissions to air Parameters as required by condition 3.5.1.	A1, A2	Every 12 months	1 January
Emissions to Sewer Parameters as required by condition 3.5.1	S1	Every 12 months	1 January

Table S4.2: Annual production/treatment	
Parameter	Units
Production of beer	Hectolitres
Effluent Discharged	m ³

Table S4.3 Performance parameters		
Parameter	Frequency of assessment	Units
Water usage	Annually	m ³
Energy usage - electricity	Annually	MWh
Energy usage - gas	Annually	MWh
Total raw material used	Annually	tonnes
Refrigerant gas consumed (stated separately for each refrigerant used)	Annually	kg

Table S4.4 Reporting forms		
Media/parameter	Reporting format	Date of form
Air	Form air 1 or other form as agreed in writing by the Environment Agency	01/03/2021
Water	Form water 1 or other form as agreed in writing by the Environment Agency	01/03/2021
Sewer	Form sewer 1 or other form as agreed in writing by the Environment Agency	01/03/2021
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency	01/03/2021
Energy usage	Form energy usage 1 or other form as agreed in writing by the Environment Agency	01/03/2021
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency	01/03/2021

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.

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

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

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

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

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

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

“Hazardous waste” has the meaning given in the Hazardous Waste (England and Wales) Regulations 2005.

“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.

“Pests” means Birds, Vermin and Insects.

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

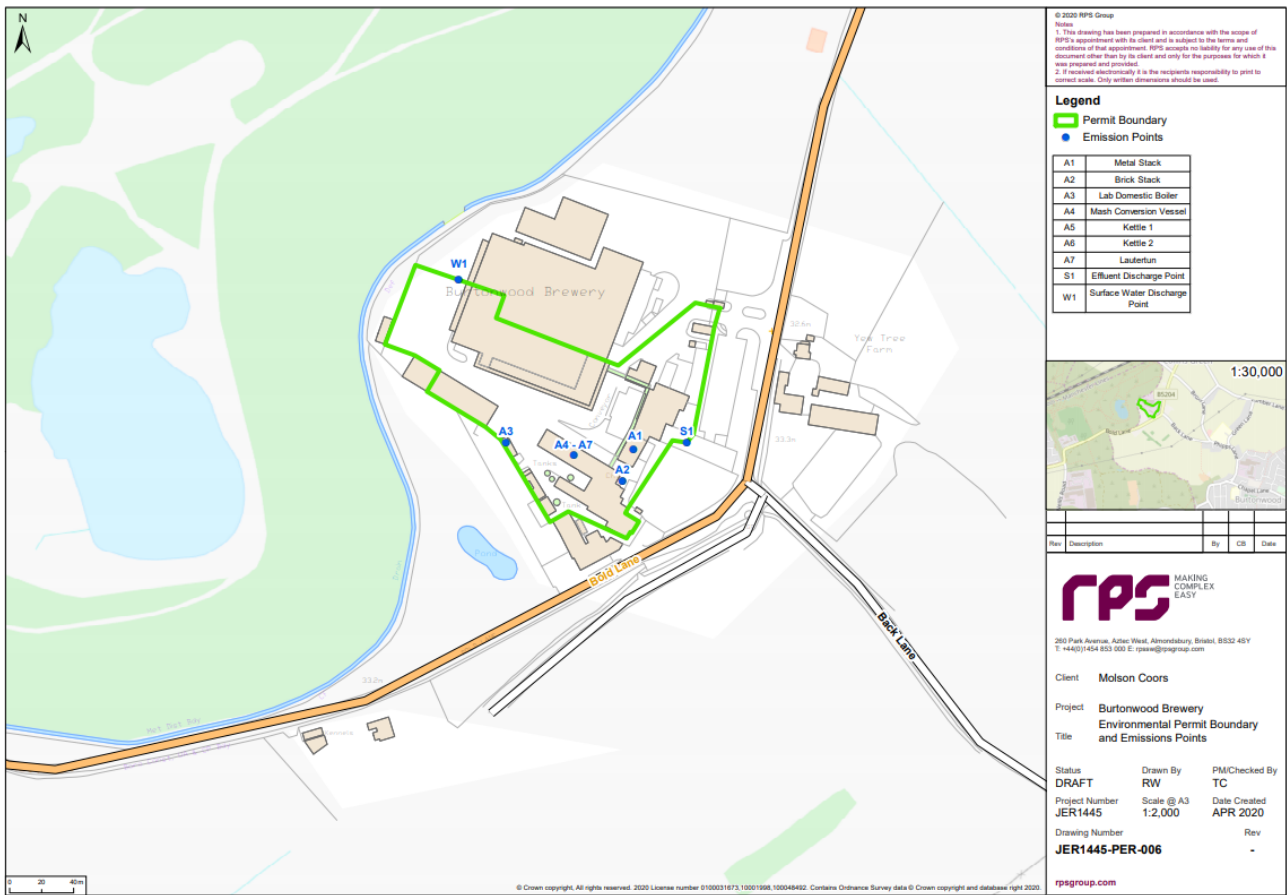
Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

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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